284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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# DATA PACKAGE

## SEMI-VOLATILE ORGANICS

**PROJECT NAME : NAVFAC NWIRP BETHPAGE, NY SITE 1 OU-2 - 32258**

**AECOM TECHNICAL SERVICES, INC.**

**13640 Briarwick Drive**

**Austin, TX - 78729**

**Phone No: 512-454-4797**

**ORDER ID : P5376**

**ATTENTION : Eleanor Vivadou**

**Laboratory Certification ID # 20012**

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# Cover Page

**Order ID :** P5376

**Project ID :** NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258

**Client :** AECOM Technical Services, Inc.

| Lab Sample Number | Client Sample Number |
|---|---|
| P5376-01 | TT205S1-20241218 |
| P5376-02 | TT150S1-20241218 |
| P5376-03 | RE115D2-20241218 |
| P5376-04 | TT149S1-20241218 |
| P5376-05 | DUP-07-20241218 |
| P5376-06 | TT174I1-20241218 |
| P5376-07 | RW10-MW01S-20241218 |
| P5376-08 | RW10-MW01S-20241218MS |
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| P5376-10 | RW10-MW01D-20241218 |
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| P5376-13 | RE117D2-20241218 |
| P5376-14 | TT161S1-20241219 |
| P5376-15 | TT162S1-20241219 |
| P5376-16 | RW11-MW01S-20241219 |
| P5376-17 | RW11-MW01I-20241219 |
| P5376-18 | TT119S1-20241219 |
| P5376-19 | TT188S1-20241219 |
| P5376-20 | FB03-20241219 |
| P5376-21 | TB |

I certify that the data package is in compliance with the terms and conditions of the contract,both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature : APPROVED
*By Nimisha Pandya, QA/QC Supervisor at 9:37 am, Jan 06, 2025*

Date: 12/31/2024

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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# CASE NARRATIVE

**AECOM Technical Services, Inc.**
**Project Name: NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258**
**Project # N/A**
**Chemtech Project # P5376**
**Test Name: SVOC-SIMGroup1**

**A. Number of Samples and Date of Receipt:**
21 Water samples were received on 12/20/2024.

**B. Parameters**
According to the Chain of Custody document, the following analyses were requested: SVOC-SIMGroup1 and VOCMS Group1. This data package contains results for SVOC-SIMGroup1.

**C. Analytical Techniques:**
The samples were analyzed on instrument BNA_N using GC Column ZB-SemiVolatiles Guardian which is 30 meters, 0.25 mm ID, 0.5 um df, Catalog # 7HG-G027-17-GGAThe analysis of SVOC-SIMGroup1 was based on method 8270-Modified and extraction was done based on method 3510.

**D. QA/ QC Samples:**
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria except for
TT205S1-20241218 [Terphenyl-d14 - 148%],
TT150S1-20241218 [Terphenyl-d14 - 134%],
RE115D2-20241218DL [Nitrobenzene-d5 - 131%, Terphenyl-d14 - 164%],
TT149S1-20241218 [Terphenyl-d14 - 138%],
DUP-07-20241218 [Terphenyl-d14 - 144%],
TT174I1-20241218 [Terphenyl-d14 - 143%],
RW10-MW01S-20241218 [Terphenyl-d14 - 137%],
RW10A-MW01I-20241218 [Terphenyl-d14 - 134%],
RE117D2-20241218 [Terphenyl-d14 - 141%],
TT161S1-20241219 [Terphenyl-d14 - 140%],
TT162S1-20241219 [Nitrobenzene-d5 - 114%, Terphenyl-d14 - 134%],
TT119S1-20241219 [Terphenyl-d14 - 133%],
TT188S1-20241219 [Terphenyl-d14 - 142%],
FB03-20241219 [Terphenyl-d14 - 143%], and
PB165828BS [Nitrobenzene-d5 - 122%], The failure surrogates not associated with the client parameters list, therefore no corrective action was taken.
The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.

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The MS {P5376-08MS} with File ID: BN035821.D recoveries met the requirements for all compounds except for 1,4-Dioxane[53%], Due to poor compound the recovery no corrective action is required.

The MSD {P5376-09MSD} with File ID: BN035822.D recoveries met the acceptable requirements except for 1,4-Dioxane[51%], Due to poor compound the recovery no corrective action is required.

The RPD met criteria .
The Blank Spike met requirements for all samples .
The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements .

The Continuous Calibration File ID BN035811.D met the requirements except for 2,4,6-Tribromophenol, The failure compound not associated with the client parameters list, therefore no corrective action was taken.

The Continuous Calibration File ID BN035830.D met the requirements except for 1,4-Dioxane,2,4,6-Tribromophenol,Nitrobenzene-d5 and Phenol-d6, The associate samples have no positive hit for these compounds therefore no corrective action was taken. .

The Continuous Calibration File ID BN035845.D met the requirements except for Nitrobenzene-d5, The failure compound not associated with the client parameters list, therefore no corrective action was taken.

The Tuning criteria met requirements.

Sample RE115D2-20241218 was diluted due to high concentration.

E. Additional Comments:
The sample # S32-0576MRW10-MW01S-20241218MS and RW10-MW01S-20241218MSD is failing for cis-1,2-Dichloroethene and the original sample(RW10-MW01S-20241218) is reported with M flag for this compounds.

The Form 6 is not included in the data package because the Initial Calibration was performed using 7 points.
The not QT review data is reported in the Miscellaneous.
Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <15% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 15% for the Initial Calibration curve for SW-846 analysis.

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**F. Manual Integration Comments:**

Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

---

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature_____ APPROVED

*By Nimisha Pandya, QA/QC Supervisor at 9:37 am, Jan 06, 2025*

284 Sheffield Street, Mountainside NJ 07092 Tel. 908-789-8900 Fax: 908-789-8922

# DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following " Results Qualifiers" are used:

| | |
|---|---|
| Value | If the result is a value greater than or equal to the detection limit, report the value |
| **U** | Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. "10 U". This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required. |
| **ND** | Indicates the analyte was analyzed for, but not detected |
| **J** | Indicates an estimated value. This flag is used:<br>(1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.)<br>(2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This is flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others. |
| **B** | Indicates the analyte was found in the blank as well as the sample report as "12 B". |
| **E** | Indicates the analyte 's concentration exceeds the calibrated range of the instrument for that specific analysis. |
| **D** | This flag identifies all compounds identified in an analysis at a secondary dilution factor. |
| **P** | This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a "P". |
| **N** | This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used. |
| **A** | This flag indicates that a Tentatively Identified Compound is a suspected aldol-condensation product. |
| **Q** | Indicates the LCS did not meet the control limits requirements |

## GC/MS SEMI-VOLATILE ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY

CHEMTECH PROJECT NUMBER: P5376 MATRIX: Water

METHOD: 8270-Modified/3510

| | | NA | NO | YES |
|---|---|---|---|---|
| 1. | Chromatograms Labeled/Compounds Identified. (Field samples and Method Blanks) | | | ✓ |
| 2. | GC/MS Tuning Specifications. DFTPP Meet Criteria. (NOTE THAT THERE ARE DIFFERENT CRITERIA FOR NY ASP CLP, CLP AND NJ) | | | ✓ |
| 3. | GC/MS Tuning Frequency - Performed every 24 hours for 600 series and 12 hours for 8000 Series. | | | ✓ |
| 4. | GC/MS Calibration - Initial Calibration performed within 30 days before sample analysis and continuing calibration performed within 24 hours of sample analysis for 600 series and 12 hours for 8000 series. | | | ✓ |
| 5. | GC/MS Calibration Requirements. | | ✓ | |

The Initial Calibration met the requirements .
The Continuous Calibration File ID BN035811.D met the requirements except for 2,4,6-Tribromophenol, The failure compound not associated with the client parameters list, therefore no corrective action was taken.

The Continuous Calibration File ID BN035830.D met the requirements except for 1,4-Dioxane,2,4,6-Tribromophenol,Nitrobenzene-d5 and Phenol-d6, The associate samples have no positive hit for these compounds therefore no corrective action was taken. .

The Continuous Calibration File ID BN035845.D met the requirements except for Nitrobenzene-d5, The failure compound not associated with the client parameters list, therefore no corrective action was taken.

| | | | | |
|---|---|---|---|---|
| 6. | Blank Contamination - If yes, list compounds and concentrations in each blank: | | ✓ | |

## GC/MS SEMI-VOLATILE ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY

## (CONTINUED)

| | | NA | NO | YES |
|---|---|---|---|---|
| 7. | Surrogate Recoveries Meet Criteria | | ✓ | |

If not met, list those compounds and their recoveries which fall outside the acceptable ranges.

The Surrogate recoveries met the acceptable criteria except for
TT205S1-20241218 [Terphenyl-d14 - 148%],
TT150S1-20241218 [Terphenyl-d14 - 134%],
RE115D2-20241218DL [Nitrobenzene-d5 - 131%, Terphenyl-d14 - 164%],
TT149S1-20241218 [Terphenyl-d14 - 138%],
DUP-07-20241218 [Terphenyl-d14 - 144%],
TT174I1-20241218 [Terphenyl-d14 - 143%],
RW10-MW01S-20241218 [Terphenyl-d14 - 137%],
RW10A-MW01I-20241218 [Terphenyl-d14 - 134%],
RE117D2-20241218 [Terphenyl-d14 - 141%],
TT161S1-20241219 [Terphenyl-d14 - 140%],
TT162S1-20241219 [Nitrobenzene-d5 - 114%, Terphenyl-d14 - 134%],
TT119S1-20241219 [Terphenyl-d14 - 133%],
TT188S1-20241219 [Terphenyl-d14 - 142%],
FB03-20241219 [Terphenyl-d14 - 143%], and
PB165828BS [Nitrobenzene-d5 - 122%], The failure surrogates not associated with the client parameters list, therefore no corrective action was taken.

| | | | | |
|---|---|---|---|---|
| 8. | Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria | | ✓ | |

If not met, list those compounds and their recoveries which fall outside the acceptable range.

The MS {P5376-08MS} with File ID: BN035821.D recoveries met the requirements for all compounds except for 1,4-Dioxane[53%], Due to poor compound the recovery no corrective action is required.
The MSD {P5376-09MSD} with File ID: BN035822.D recoveries met the acceptable requirements except for 1,4-Dioxane[51%], Due to poor compound the recovery no corrective action is required.
The Blank Spike met requirements for all samples .

| | | | | |
|---|---|---|---|---|
| 9. | Internal Standard Area/Retention Time Shift Meet Criteria | | | ✓ |

Comments:

| | | | | |
|---|---|---|---|---|
| 10. | Extraction Holding Time Met | | | ✓ |

If not met, list number of days exceeded for each sample:

| | | | | |
|---|---|---|---|---|
| 11. | Analysis Holding Time Met | | | ✓ |

If not met, list number of days exceeded for each sample:

## GC/MS SEMI-VOLATILE ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY (CONTINUED)

NA NO YES

ADDITIONAL COMMENTS:

The sample # S32-0576MRW10-MW01S-20241218MS and RW10-MW01S-20241218MSD is failing for cis-1,2-Dichloroethene and the original sample(RW10-MW01S-20241218) is reported with M flag for this compounds.

Sample RE115D2-20241218 was diluted due to high concentration.

The Form 6 is not included in the data package because the Initial Calibration was performed using 7 points.

The not QT review data is reported in the Miscellaneous.

Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <15% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 15% for the Initial Calibration curve for SW-846 analysis.

QA REVIEW

APPROVED
*By Nimisha Pandya, QA/QC Supervisor at 9:37 am, Jan 06, 2025*

Date

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## APPENDIX A

## QA REVIEW GENERAL DOCUMENTATION

**Project #:** P5376

| | Completed |
|---|---|
| **For thorough review, the report must have the following:** | |
| **GENERAL:** | |
| **Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)** | ✓ |
| **Check chain-of-custody for proper relinquish/return of samples** | ✓ |
| **Is the chain of custody signed and complete** | ✓ |
| **Check internal chain-of-custody for proper relinquish/return of samples /sample extracts** | ✓ |
| **Collect information for each project id from server. Were all requirements followed** | ✓ |
| **COVER PAGE:** | |
| **Do numbers of samples correspond to the number of samples in the Chain of Custody on login page** | ✓ |
| **Do lab numbers and client Ids on cover page agree with the Chain of Custody** | ✓ |
| **CHAIN OF CUSTODY:** | |
| **Do requested analyses on Chain of Custody agree with form I results** | ✓ |
| **Do requested analyses on Chain of Custody agree with the log-in page** | ✓ |
| **Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody** | ✓ |
| **Were the samples received within hold time** | ✓ |
| **Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle** | ✓ |
| **ANALYTICAL:** | |
| **Was method requirement followed?** | ✓ |
| **Was client requirement followed?** | ✓ |
| **Does the case narrative summarize all QC failure?** | ✓ |
| **All runlogs and manual integration are reviewed for requirements** | ✓ |
| **All manual calculations and /or hand notations verified** | ✓ |

**QA Review Signature:** SOHIL JODHANI **Date:** 12/31/2024

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# LAB CHRONICLE

| | | | |
|---|---|---|---|
| **OrderID:** | P5376 | **OrderDate:** | 12/20/2024 3:08:00 PM |
| **Client:** | AECOM Technical Services, Inc. | **Project:** | NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258 |
| **Contact:** | Eleanor Vivadou | **Location:** | N23,VOA Ref. #3 Water |

| LabID | ClientID | Matrix | Test | Method | Sample Date | Prep Date | Anal Date | Received |
|---|---|---|---|---|---|---|---|---|
| **P5376-01** | **TT205S1-20241218** | **Water** | | | **12/18/24** | | | **12/20/24** |
| | | | SVOC-SIMGroup1 | 8270-Modified | | 12/23/24 | 12/26/24 | |
| **P5376-02** | **TT150S1-20241218** | **Water** | | | **12/18/24** | | | **12/20/24** |
| | | | SVOC-SIMGroup1 | 8270-Modified | | 12/23/24 | 12/24/24 | |
| **P5376-03** | **RE115D2-20241218** | **Water** | | | **12/18/24** | | | **12/20/24** |
| | | | SVOC-SIMGroup1 | 8270-Modified | | 12/23/24 | 12/24/24 | |
| **P5376-03DL** | **RE115D2-20241218DL** | **Water** | | | **12/18/24** | | | **12/20/24** |
| | | | SVOC-SIMGroup1 | 8270-Modified | | 12/23/24 | 12/26/24 | |
| **P5376-04** | **TT149S1-20241218** | **Water** | | | **12/18/24** | | | **12/20/24** |
| | | | SVOC-SIMGroup1 | 8270-Modified | | 12/23/24 | 12/24/24 | |
| **P5376-05** | **DUP-07-20241218** | **Water** | | | **12/18/24** | | | **12/20/24** |
| | | | SVOC-SIMGroup1 | 8270-Modified | | 12/23/24 | 12/24/24 | |
| **P5376-06** | **TT174I1-20241218** | **Water** | | | **12/18/24** | | | **12/20/24** |
| | | | SVOC-SIMGroup1 | 8270-Modified | | 12/23/24 | 12/24/24 | |
| **P5376-07** | **RW10-MW01S-20241218** | **Water** | | | **12/18/24** | | | **12/20/24** |
| | | | SVOC-SIMGroup1 | 8270-Modified | | 12/23/24 | 12/24/24 | |
| **P5376-10** | **RW10-MW01D-20241218** | **Water** | | | **12/18/24** | | | **12/20/24** |
| | | | SVOC-SIMGroup1 | 8270-Modified | | 12/23/24 | 12/24/24 | |
| **P5376-11** | **RW10A-MW01S-20241218** | **Water** | | | **12/18/24** | | | **12/20/24** |
| | | | SVOC-SIMGroup1 | 8270-Modified | | 12/23/24 | 12/24/24 | |

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## LAB CHRONICLE

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **P5376-12** | **RW10A-MW01I-20241218** | **Water** | | | **12/18/24** | | | **12/20/24** |
| | | | SVOC-SIMGroup1 | 8270-Modified | | 12/23/24 | 12/24/24 | |
| **P5376-13** | **RE117D2-20241218** | **Water** | | | **12/18/24** | | | **12/20/24** |
| | | | SVOC-SIMGroup1 | 8270-Modified | | 12/23/24 | 12/24/24 | |
| **P5376-14** | **TT161S1-20241219** | **Water** | | | **12/19/24** | | | **12/20/24** |
| | | | SVOC-SIMGroup1 | 8270-Modified | | 12/23/24 | 12/24/24 | |
| **P5376-15** | **TT162S1-20241219** | **Water** | | | **12/19/24** | | | **12/20/24** |
| | | | SVOC-SIMGroup1 | 8270-Modified | | 12/23/24 | 12/26/24 | |
| **P5376-16** | **RW11-MW01S-20241219** | **Water** | | | **12/19/24** | | | **12/20/24** |
| | | | SVOC-SIMGroup1 | 8270-Modified | | 12/23/24 | 12/24/24 | |
| **P5376-17** | **RW11-MW01I-20241219** | **Water** | | | **12/19/24** | | | **12/20/24** |
| | | | SVOC-SIMGroup1 | 8270-Modified | | 12/23/24 | 12/24/24 | |
| **P5376-18** | **TT119S1-20241219** | **Water** | | | **12/19/24** | | | **12/20/24** |
| | | | SVOC-SIMGroup1 | 8270-Modified | | 12/23/24 | 12/25/24 | |
| **P5376-19** | **TT188S1-20241219** | **Water** | | | **12/19/24** | | | **12/20/24** |
| | | | SVOC-SIMGroup1 | 8270-Modified | | 12/23/24 | 12/26/24 | |
| **P5376-20** | **FB03-20241219** | **Water** | | | **12/19/24** | | | **12/20/24** |
| | | | SVOC-SIMGroup1 | 8270-Modified | | 12/23/24 | 12/25/24 | |

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Hit Summary Sheet
**SW-846**

**SDG No.:** P5376

**Client:** AECOM Technical Services, Inc.

| Sample ID | Client ID | | Parameter | Concentration | C | MDL | LOD | RDL | Units |
|---|---|---|---|---|---|---|---|---|---|
| **Client ID : TT205S1-20241218** | | | | | | | | | |
| P5376-01 | TT205S1-20241218 | WATER | 1,4-Dioxane | 0.380 | | 0.07 | 0.2 | 0.2 | ug/L |
| | | | **Total Svoc :** | | | **0.38** | | | |
| | | | **Total Concentration:** | | | **0.38** | | | |
| **Client ID : TT150S1-20241218** | | | | | | | | | |
| P5376-02 | TT150S1-20241218 | WATER | 1,4-Dioxane | 0.240 | | 0.07 | 0.2 | 0.2 | ug/L |
| | | | **Total Svoc :** | | | **0.24** | | | |
| | | | **Total Concentration:** | | | **0.24** | | | |
| **Client ID : RE115D2-20241218** | | | | | | | | | |
| P5376-03 | RE115D2-20241218 | WATER | 1,4-Dioxane | 7.600 | E | 0.07 | 0.21 | 0.21 | ug/L |
| | | | **Total Svoc :** | | | **7.60** | | | |
| | | | **Total Concentration:** | | | **7.60** | | | |
| **Client ID : RE115D2-20241218DL** | | | | | | | | | |
| P5376-03DL | RE115D2-20241218DL | WATER | 1,4-Dioxane | 10.300 | D | 0.35 | 1 | 1 | ug/L |
| | | | **Total Svoc :** | | | **10.30** | | | |
| | | | **Total Concentration:** | | | **10.30** | | | |
| **Client ID : TT149S1-20241218** | | | | | | | | | |
| P5376-04 | TT149S1-20241218 | WATER | 1,4-Dioxane | 0.280 | | 0.07 | 0.21 | 0.21 | ug/L |
| | | | **Total Svoc :** | | | **0.28** | | | |
| | | | **Total Concentration:** | | | **0.28** | | | |
| **Client ID : DUP-07-20241218** | | | | | | | | | |
| P5376-05 | DUP-07-20241218 | WATER | 1,4-Dioxane | 0.270 | | 0.07 | 0.2 | 0.2 | ug/L |
| | | | **Total Svoc :** | | | **0.27** | | | |
| | | | **Total Concentration:** | | | **0.27** | | | |
| **Client ID : TT174I1-20241218** | | | | | | | | | |
| P5376-06 | TT174I1-20241218 | WATER | 1,4-Dioxane | 0.800 | | 0.07 | 0.2 | 0.2 | ug/L |
| | | | **Total Svoc :** | | | **0.80** | | | |
| | | | **Total Concentration:** | | | **0.80** | | | |
| **Client ID : RW10-MW01S-20241218** | | | | | | | | | |
| P5376-07 | RW10-MW01S-2024121 | WATER | 1,4-Dioxane | 0.100 | JM | 0.07 | 0.2 | 0.2 | ug/L |
| | | | **Total Svoc :** | | | **0.10** | | | |
| | | | **Total Concentration:** | | | **0.10** | | | |
| **Client ID : RW10A-MW01S-20241218** | | | | | | | | | |
| P5376-11 | RW10A-MW01S-202412 | WATER | 1,4-Dioxane | 0.150 | J | 0.07 | 0.21 | 0.21 | ug/L |
| | | | **Total Svoc :** | | | **0.15** | | | |

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# Hit Summary Sheet
## SW-846

**SDG No.:** P5376

**Client:** AECOM Technical Services, Inc.

| Sample ID | Client ID | | Parameter | Concentration | C | MDL | LOD | RDL | Units |
|---|---|---|---|---|---|---|---|---|---|
| | | | **Total Concentration:** | | | **0.15** | | | |
| **Client ID :** | **TT161S1-20241219** | | | | | | | | |
| P5376-14 | TT161S1-20241219 | WATER | 1,4-Dioxane | 0.330 | | 0.07 | 0.2 | 0.2 | ug/L |
| | | | **Total Svoc :** | | | **0.33** | | | |
| | | | **Total Concentration:** | | | **0.33** | | | |
| **Client ID :** | **TT162S1-20241219** | | | | | | | | |
| P5376-15 | TT162S1-20241219 | WATER | 1,4-Dioxane | 0.340 | | 0.07 | 0.2 | 0.2 | ug/L |
| | | | **Total Svoc :** | | | **0.34** | | | |
| | | | **Total Concentration:** | | | **0.34** | | | |
| **Client ID :** | **RW11-MW01S-20241219** | | | | | | | | |
| P5376-16 | RW11-MW01S-2024121$ | WATER | 1,4-Dioxane | 0.160 | J | 0.07 | 0.2 | 0.2 | ug/L |
| | | | **Total Svoc :** | | | **0.16** | | | |
| | | | **Total Concentration:** | | | **0.16** | | | |
| **Client ID :** | **TT188S1-20241219** | | | | | | | | |
| P5376-19 | TT188S1-20241219 | WATER | 1,4-Dioxane | 0.170 | J | 0.07 | 0.2 | 0.2 | ug/L |
| | | | **Total Svoc :** | | | **0.17** | | | |
| | | | **Total Concentration:** | | | **0.17** | | | |

# QC SUMMARY

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# Surrogate Summary

**SW-846**

**SDG No.:** P5376

**Client:** AECOM Technical Services, Inc.

**Analytical Method:** 8270-Modified

| Lab Sample ID | Client ID | Parameter | Spike (PPM) | Result (PPM) | Recovery (%) | Qual | Limits (%) Low | Limits (%) High |
|---|---|---|---|---|---|---|---|---|
| P5376-01 | TT205S1-20241218 | 2-Methylnaphthalene-d10 | 0.4 | 0.35 | 87 | | 30 | 150 |
| | | Fluoranthene-d10 | 0.4 | 0.40 | 100 | | 30 | 150 |
| | | Nitrobenzene-d5 | 0.4 | 0.43 | 108 | | 55 | 111 |
| | | 2-Fluorobiphenyl | 0.4 | 0.37 | 92 | | 53 | 106 |
| | | Terphenyl-d14 | 0.4 | 0.59 | 148 | * | 58 | 132 |
| P5376-02 | TT150S1-20241218 | 2-Methylnaphthalene-d10 | 0.4 | 0.34 | 84 | | 30 | 150 |
| | | Fluoranthene-d10 | 0.4 | 0.39 | 98 | | 30 | 150 |
| | | Nitrobenzene-d5 | 0.4 | 0.41 | 101 | | 55 | 111 |
| | | 2-Fluorobiphenyl | 0.4 | 0.37 | 93 | | 53 | 106 |
| | | Terphenyl-d14 | 0.4 | 0.54 | 134 | * | 58 | 132 |
| P5376-03 | RE115D2-20241218 | 2-Methylnaphthalene-d10 | 0.4 | 0.29 | 73 | | 30 | 150 |
| | | Fluoranthene-d10 | 0.4 | 0.36 | 91 | | 30 | 150 |
| | | Nitrobenzene-d5 | 0.4 | 0.33 | 83 | | 55 | 111 |
| | | 2-Fluorobiphenyl | 0.4 | 0.33 | 81 | | 53 | 106 |
| | | Terphenyl-d14 | 0.4 | 0.46 | 115 | | 58 | 132 |
| P5376-03DL | RE115D2-20241218DL | 2-Methylnaphthalene-d10 | 0.4 | 0.40 | 100 | | 30 | 150 |
| | | Fluoranthene-d10 | 0.4 | 0.48 | 120 | | 30 | 150 |
| | | Nitrobenzene-d5 | 0.4 | 0.53 | 131 | * | 55 | 111 |
| | | 2-Fluorobiphenyl | 0.4 | 0.42 | 104 | | 53 | 106 |
| | | Terphenyl-d14 | 0.4 | 0.66 | 164 | * | 58 | 132 |
| P5376-04 | TT149S1-20241218 | 2-Methylnaphthalene-d10 | 0.4 | 0.33 | 82 | | 30 | 150 |
| | | Fluoranthene-d10 | 0.4 | 0.39 | 97 | | 30 | 150 |
| | | Nitrobenzene-d5 | 0.4 | 0.37 | 92 | | 55 | 111 |
| | | 2-Fluorobiphenyl | 0.4 | 0.36 | 89 | | 53 | 106 |
| | | Terphenyl-d14 | 0.4 | 0.55 | 138 | * | 58 | 132 |
| P5376-05 | DUP-07-20241218 | 2-Methylnaphthalene-d10 | 0.4 | 0.35 | 86 | | 30 | 150 |
| | | Fluoranthene-d10 | 0.4 | 0.41 | 103 | | 30 | 150 |
| | | Nitrobenzene-d5 | 0.4 | 0.38 | 95 | | 55 | 111 |
| | | 2-Fluorobiphenyl | 0.4 | 0.38 | 95 | | 53 | 106 |
| | | Terphenyl-d14 | 0.4 | 0.58 | 144 | * | 58 | 132 |
| P5376-06 | TT174I1-20241218 | 2-Methylnaphthalene-d10 | 0.4 | 0.37 | 92 | | 30 | 150 |
| | | Fluoranthene-d10 | 0.4 | 0.42 | 105 | | 30 | 150 |
| | | Nitrobenzene-d5 | 0.4 | 0.44 | 109 | | 55 | 111 |
| | | 2-Fluorobiphenyl | 0.4 | 0.42 | 105 | | 53 | 106 |
| | | Terphenyl-d14 | 0.4 | 0.57 | 143 | * | 58 | 132 |
| P5376-07 | RW10-MW01S-20241218 | 2-Methylnaphthalene-d10 | 0.4 | 0.38 | 94 | | 30 | 150 |
| | | Fluoranthene-d10 | 0.4 | 0.40 | 100 | | 30 | 150 |
| | | Nitrobenzene-d5 | 0.4 | 0.43 | 107 | | 55 | 111 |
| | | 2-Fluorobiphenyl | 0.4 | 0.40 | 101 | | 53 | 106 |
| | | Terphenyl-d14 | 0.4 | 0.55 | 137 | * | 58 | 132 |
| P5376-08MS | RW10-MW01S-20241218MS | 2-Methylnaphthalene-d10 | 0.4 | 0.43 | 107 | | 30 | 150 |
| | | Fluoranthene-d10 | 0.4 | 0.43 | 106 | | 30 | 150 |
| | | Nitrobenzene-d5 | 0.4 | 0.42 | 106 | | 55 | 111 |
| | | 2-Fluorobiphenyl | 0.4 | 0.38 | 94 | | 53 | 106 |
| | | Terphenyl-d14 | 0.4 | 0.49 | 122 | | 58 | 132 |
| P5376-09MSD | RW10-MW01S-20241218MSD | 2-Methylnaphthalene-d10 | 0.4 | 0.43 | 108 | | 30 | 150 |
| | | Fluoranthene-d10 | 0.4 | 0.43 | 108 | | 30 | 150 |
| | | Nitrobenzene-d5 | 0.4 | 0.42 | 104 | | 55 | 111 |
| | | 2-Fluorobiphenyl | 0.4 | 0.37 | 93 | | 53 | 106 |
| | | Terphenyl-d14 | 0.4 | 0.51 | 128 | | 58 | 132 |
| P5376-10 | RW10-MW01D-20241218 | 2-Methylnaphthalene-d10 | 0.4 | 0.34 | 84 | | 30 | 150 |

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# Surrogate Summary

**SW-846**

**SDG No.:** P5376

**Client:** AECOM Technical Services, Inc.

**Analytical Method:** 8270-Modified

| Lab Sample ID | Client ID | Parameter | Spike (PPM) | Result (PPM) | Recovery (%) | Qual | Limits (%) Low | High |
|---|---|---|---|---|---|---|---|---|
| P5376-10 | RW10-MW01D-20241218 | Fluoranthene-d10 | 0.4 | 0.40 | 99 | | 30 | 150 |
| | | Nitrobenzene-d5 | 0.4 | 0.38 | 95 | | 55 | 111 |
| | | 2-Fluorobiphenyl | 0.4 | 0.34 | 84 | | 53 | 106 |
| | | Terphenyl-d14 | 0.4 | 0.50 | 125 | | 58 | 132 |
| P5376-11 | RW10A-MW01S-20241218 | 2-Methylnaphthalene-d10 | 0.4 | 0.34 | 85 | | 30 | 150 |
| | | Fluoranthene-d10 | 0.4 | 0.40 | 100 | | 30 | 150 |
| | | Nitrobenzene-d5 | 0.4 | 0.37 | 93 | | 55 | 111 |
| | | 2-Fluorobiphenyl | 0.4 | 0.35 | 86 | | 53 | 106 |
| | | Terphenyl-d14 | 0.4 | 0.52 | 130 | | 58 | 132 |
| P5376-12 | RW10A-MW01I-20241218 | 2-Methylnaphthalene-d10 | 0.4 | 0.37 | 94 | | 30 | 150 |
| | | Fluoranthene-d10 | 0.4 | 0.39 | 98 | | 30 | 150 |
| | | Nitrobenzene-d5 | 0.4 | 0.42 | 106 | | 55 | 111 |
| | | 2-Fluorobiphenyl | 0.4 | 0.39 | 97 | | 53 | 106 |
| | | Terphenyl-d14 | 0.4 | 0.54 | 134 | * | 58 | 132 |
| P5376-13 | RE117D2-20241218 | 2-Methylnaphthalene-d10 | 0.4 | 0.37 | 92 | | 30 | 150 |
| | | Fluoranthene-d10 | 0.4 | 0.42 | 104 | | 30 | 150 |
| | | Nitrobenzene-d5 | 0.4 | 0.40 | 101 | | 55 | 111 |
| | | 2-Fluorobiphenyl | 0.4 | 0.38 | 96 | | 53 | 106 |
| | | Terphenyl-d14 | 0.4 | 0.56 | 141 | * | 58 | 132 |
| P5376-14 | TT161S1-20241219 | 2-Methylnaphthalene-d10 | 0.4 | 0.36 | 91 | | 30 | 150 |
| | | Fluoranthene-d10 | 0.4 | 0.40 | 99 | | 30 | 150 |
| | | Nitrobenzene-d5 | 0.4 | 0.42 | 105 | | 55 | 111 |
| | | 2-Fluorobiphenyl | 0.4 | 0.40 | 99 | | 53 | 106 |
| | | Terphenyl-d14 | 0.4 | 0.56 | 140 | * | 58 | 132 |
| P5376-15 | TT162S1-20241219 | 2-Methylnaphthalene-d10 | 0.4 | 0.35 | 88 | | 30 | 150 |
| | | Fluoranthene-d10 | 0.4 | 0.39 | 98 | | 30 | 150 |
| | | Nitrobenzene-d5 | 0.4 | 0.46 | 114 | * | 55 | 111 |
| | | 2-Fluorobiphenyl | 0.4 | 0.39 | 98 | | 53 | 106 |
| | | Terphenyl-d14 | 0.4 | 0.54 | 134 | * | 58 | 132 |
| P5376-16 | RW11-MW01S-20241219 | 2-Methylnaphthalene-d10 | 0.4 | 0.37 | 93 | | 30 | 150 |
| | | Fluoranthene-d10 | 0.4 | 0.41 | 103 | | 30 | 150 |
| | | Nitrobenzene-d5 | 0.4 | 0.42 | 105 | | 55 | 111 |
| | | 2-Fluorobiphenyl | 0.4 | 0.39 | 98 | | 53 | 106 |
| | | Terphenyl-d14 | 0.4 | 0.53 | 132 | | 58 | 132 |
| P5376-17 | RW11-MW01I-20241219 | 2-Methylnaphthalene-d10 | 0.4 | 0.34 | 86 | | 30 | 150 |
| | | Fluoranthene-d10 | 0.4 | 0.40 | 100 | | 30 | 150 |
| | | Nitrobenzene-d5 | 0.4 | 0.39 | 97 | | 55 | 111 |
| | | 2-Fluorobiphenyl | 0.4 | 0.37 | 91 | | 53 | 106 |
| | | Terphenyl-d14 | 0.4 | 0.51 | 128 | | 58 | 132 |
| P5376-18 | TT119S1-20241219 | 2-Methylnaphthalene-d10 | 0.4 | 0.34 | 84 | | 30 | 150 |
| | | Fluoranthene-d10 | 0.4 | 0.41 | 102 | | 30 | 150 |
| | | Nitrobenzene-d5 | 0.4 | 0.38 | 94 | | 55 | 111 |
| | | 2-Fluorobiphenyl | 0.4 | 0.36 | 90 | | 53 | 106 |
| | | Terphenyl-d14 | 0.4 | 0.53 | 133 | * | 58 | 132 |
| P5376-19 | TT188S1-20241219 | 2-Methylnaphthalene-d10 | 0.4 | 0.35 | 88 | | 30 | 150 |
| | | Fluoranthene-d10 | 0.4 | 0.44 | 109 | | 30 | 150 |
| | | Nitrobenzene-d5 | 0.4 | 0.44 | 111 | | 55 | 111 |
| | | 2-Fluorobiphenyl | 0.4 | 0.36 | 91 | | 53 | 106 |
| | | Terphenyl-d14 | 0.4 | 0.57 | 142 | * | 58 | 132 |
| P5376-20 | FB03-20241219 | 2-Methylnaphthalene-d10 | 0.4 | 0.36 | 90 | | 30 | 150 |
| | | Fluoranthene-d10 | 0.4 | 0.42 | 104 | | 30 | 150 |

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# Surrogate Summary

**SW-846**

**SDG No.:** P5376

**Client:** AECOM Technical Services, Inc.

**Analytical Method:** 8270-Modified

| Lab Sample ID | Client ID | Parameter | Spike (PPM) | Result (PPM) | Recovery (%) | Qual | Limits (%) Low | Limits (%) High |
|---|---|---|---|---|---|---|---|---|
| P5376-20 | FB03-20241219 | Nitrobenzene-d5 | 0.4 | 0.41 | 103 | | 55 | 111 |
| | | 2-Fluorobiphenyl | 0.4 | 0.38 | 95 | | 53 | 106 |
| | | Terphenyl-d14 | 0.4 | 0.57 | 143 | * | 58 | 132 |
| PB165828BL | PB165828BL | 2-Methylnaphthalene-d10 | 0.4 | 0.34 | 86 | | 30 | 150 |
| | | Fluoranthene-d10 | 0.4 | 0.40 | 100 | | 30 | 150 |
| | | Nitrobenzene-d5 | 0.4 | 0.42 | 105 | | 55 | 111 |
| | | 2-Fluorobiphenyl | 0.4 | 0.34 | 86 | | 53 | 106 |
| | | Terphenyl-d14 | 0.4 | 0.48 | 120 | | 58 | 132 |
| PB165828BS | PB165828BS | 2-Methylnaphthalene-d10 | 0.4 | 0.47 | 116 | | 30 | 150 |
| | | Fluoranthene-d10 | 0.4 | 0.34 | 85 | | 30 | 150 |
| | | Nitrobenzene-d5 | 0.4 | 0.49 | 122 | * | 55 | 111 |
| | | 2-Fluorobiphenyl | 0.4 | 0.39 | 98 | | 53 | 106 |
| | | Terphenyl-d14 | 0.4 | 0.48 | 119 | | 58 | 132 |

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**Matrix Spike/Matrix Spike Duplicate Summary**

**SW-846**

**SDG No.:** P5376

**Client:** AECOM Technical Services, Inc.

**Analytical Method:** SW8270-Modified

| Parameter | Spike | Sample Result | Result | Units | Rec | Rec Qual | RPD | RPD Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Lab Sample ID:** P5376-08MS | | **Client Sample ID:** RW10-MW01S-20241218MS | | | | | | **DataFile:** BN035821.D | | | |
| 1,4-Dioxane | 0.4 | 0.10 | 0.31 | ug/L | 53 | * | | | 70 | 130 | |

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## Matrix Spike/Matrix Spike Duplicate Summary

**SW-846**

**SDG No.:** P5376

**Client:** AECOM Technical Services, Inc.

**Analytical Method:** SW8270-Modified

| Parameter | Spike | Sample Result | Result | Units | Rec | Rec Qual | RPD | RPD Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Lab Sample ID:** P5376-09MSD | | **Client Sample ID:** RW10-MW01S-20241218MSD | | | | | | **DataFile:** BN035822.D | | | |
| 1,4-Dioxane | 0.41 | 0.10 | 0.31 | ug/L | 51 | * | 4 | | 70 | 130 | 20 |

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# Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** P5376

**Client:** AECOM Technical Services, Inc.

**Analytical Method:** 8270-Modified **DataFile:** BN035852.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | RPD Qual | Limits Low | Limits High | Limits RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PB165828BS | 1,4-Dioxane | 0.4 | 0.35 | ug/L | 88 | | | | 70 | 130 | |

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB165828BL

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: P5376 SAS No.: P5376 SDG NO.: P5376

Lab File ID: BN035812.D Lab Sample ID: PB165828BL

Instrument ID: BNA_N Date Extracted: 12/23/2024

Matrix: (soil/water) Water Date Analyzed: 12/24/2024

Level: (low/med) LOW Time Analyzed: 09:35

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|
| RW11-MW01I-20241219 | P5376-17 | BN035834.D | 12/24/2024 |
| TT119S1-20241219 | P5376-18 | BN035835.D | 12/25/2024 |
| FB03-20241219 | P5376-20 | BN035837.D | 12/25/2024 |
| TT162S1-20241219 | P5376-15 | BN035847.D | 12/26/2024 |
| TT188S1-20241219 | P5376-19 | BN035848.D | 12/26/2024 |
| TT205S1-20241218 | P5376-01 | BN035849.D | 12/26/2024 |
| PB165828BS | PB165828BS | BN035852.D | 12/26/2024 |
| TT150S1-20241218 | P5376-02 | BN035815.D | 12/24/2024 |
| RE115D2-20241218 | P5376-03 | BN035816.D | 12/24/2024 |
| TT149S1-20241218 | P5376-04 | BN035817.D | 12/24/2024 |
| DUP-07-20241218 | P5376-05 | BN035818.D | 12/24/2024 |
| TT174I1-20241218 | P5376-06 | BN035819.D | 12/24/2024 |
| RW10-MW01S-20241218 | P5376-07 | BN035820.D | 12/24/2024 |
| RW10-MW01S-20241218MS | P5376-08MS | BN035821.D | 12/24/2024 |
| RW10-MW01S-20241218MSD | P5376-09MSD | BN035822.D | 12/24/2024 |
| RW10-MW01D-20241218 | P5376-10 | BN035823.D | 12/24/2024 |
| RW10A-MW01S-20241218 | P5376-11 | BN035824.D | 12/24/2024 |
| RW10A-MW01I-20241218 | P5376-12 | BN035825.D | 12/24/2024 |
| RE117D2-20241218 | P5376-13 | BN035826.D | 12/24/2024 |
| TT161S1-20241219 | P5376-14 | BN035827.D | 12/24/2024 |
| RW11-MW01S-20241219 | P5376-16 | BN035833.D | 12/24/2024 |

COMMENTS:

Alliance TECHNICAL GROUP
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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM SAS No.: P5376 SDG NO.: P5376

Lab File ID: BN035349.D DFTPP Injection Date: 11/27/2024

Instrument ID: BNA_N DFTPP Injection Time: 14:55

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 51 | 10.0 - 80.0% of mass 198 | 21.6 |
| 68 | Less than 2.0% of mass 69 | 0.0 ( 0.0 ) 1 |
| 69 | Mass 69 relative abundance | 28.9 |
| 70 | Less than 2.0% of mass 69 | 0.1 ( 0.4 ) 1 |
| 127 | 10.0 - 80.0% of mass 198 | 39.4 |
| 197 | Less than 2.0% of mass 198 | 0.0 |
| 198 | Base Peak, 100% relative abundance | 100 |
| 199 | 5.0 to 9.0% of mass 198 | 6.7 |
| 275 | 10.0 - 60.0% of mass 198 | 27.9 |
| 365 | Greater than 1% of mass 198 | 4.6 |
| 441 | Present, but less than mass 443 | 11.5 |
| 442 | Greater than 50% of mass 198 | 100 |
| 443 | 15.0 - 24.0% of mass 442 | 14 (19.7) 2 |

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| SSTDICC0.1 | SSTDICC0.1 | BN035350.D | 11/27/2024 | 15:34 |
| SSTDICC0.2 | SSTDICC0.2 | BN035351.D | 11/27/2024 | 16:10 |
| SSTDICCC0.4 | SSTDICCC0.4 | BN035352.D | 11/27/2024 | 16:46 |
| SSTDICC0.8 | SSTDICC0.8 | BN035353.D | 11/27/2024 | 17:21 |
| SSTDICC1.6 | SSTDICC1.6 | BN035354.D | 11/27/2024 | 17:57 |
| SSTDICC3.2 | SSTDICC3.2 | BN035355.D | 11/27/2024 | 18:33 |
| SSTDICC5.0 | SSTDICC5.0 | BN035356.D | 11/27/2024 | 19:09 |

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM SAS No.: P5376 SDG NO.: P5376

Lab File ID: BN035810.D DFTPP Injection Date: 12/24/2024

Instrument ID: BNA_N DFTPP Injection Time: 07:45

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 51 | 10.0 - 80.0% of mass 198 | 22.6 |
| 68 | Less than 2.0% of mass 69 | 0.0 ( 0.0 ) 1 |
| 69 | Mass 69 relative abundance | 30.9 |
| 70 | Less than 2.0% of mass 69 | 0.2 ( 0.5 ) 1 |
| 127 | 10.0 - 80.0% of mass 198 | 39.2 |
| 197 | Less than 2.0% of mass 198 | 0.0 |
| 198 | Base Peak, 100% relative abundance | 100 |
| 199 | 5.0 to 9.0% of mass 198 | 6.8 |
| 275 | 10.0 - 60.0% of mass 198 | 29.6 |
| 365 | Greater than 1% of mass 198 | 4.5 |
| 441 | Present, but less than mass 443 | 13.2 |
| 442 | Greater than 50% of mass 198 | 100 |
| 443 | 15.0 - 24.0% of mass 442 | 15.2 (18.4) 2 |

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| SSTDCCC0.4 | SSTDCCC0.4 | BN035811.D | 12/24/2024 | 08:59 |
| PB165828BL | PB165828BL | BN035812.D | 12/24/2024 | 09:35 |
| TT150S1-20241218 | P5376-02 | BN035815.D | 12/24/2024 | 11:21 |
| RE115D2-20241218 | P5376-03 | BN035816.D | 12/24/2024 | 11:57 |
| TT149S1-20241218 | P5376-04 | BN035817.D | 12/24/2024 | 12:33 |
| DUP-07-20241218 | P5376-05 | BN035818.D | 12/24/2024 | 13:08 |
| TT174I1-20241218 | P5376-06 | BN035819.D | 12/24/2024 | 13:44 |
| RW10-MW01S-20241218 | P5376-07 | BN035820.D | 12/24/2024 | 14:19 |
| RW10-MW01S-20241218MS | P5376-08MS | BN035821.D | 12/24/2024 | 14:55 |
| RW10-MW01S-20241218MSD | P5376-09MSD | BN035822.D | 12/24/2024 | 15:31 |
| RW10-MW01D-20241218 | P5376-10 | BN035823.D | 12/24/2024 | 16:06 |
| RW10A-MW01S-20241218 | P5376-11 | BN035824.D | 12/24/2024 | 16:42 |
| RW10A-MW01I-20241218 | P5376-12 | BN035825.D | 12/24/2024 | 17:18 |
| RE117D2-20241218 | P5376-13 | BN035826.D | 12/24/2024 | 17:53 |
| TT161S1-20241219 | P5376-14 | BN035827.D | 12/24/2024 | 18:29 |
| SSTDCCC0.4EC | SSTDCCC0.4 | BN035828.D | 12/24/2024 | 19:05 |

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM SAS No.: P5376 SDG NO.: P5376

Lab File ID: BN035829.D DFTPP Injection Date: 12/24/2024

Instrument ID: BNA_N DFTPP Injection Time: 19:41

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 51 | 10.0 - 80.0% of mass 198 | 23.4 |
| 68 | Less than 2.0% of mass 69 | 0.0 ( 0.0 ) 1 |
| 69 | Mass 69 relative abundance | 32.7 |
| 70 | Less than 2.0% of mass 69 | 0.2 ( 0.5 ) 1 |
| 127 | 10.0 - 80.0% of mass 198 | 39.9 |
| 197 | Less than 2.0% of mass 198 | 0.0 |
| 198 | Base Peak, 100% relative abundance | 100 |
| 199 | 5.0 to 9.0% of mass 198 | 6.6 |
| 275 | 10.0 - 60.0% of mass 198 | 27.8 |
| 365 | Greater than 1% of mass 198 | 3.9 |
| 441 | Present, but less than mass 443 | 11.4 |
| 442 | Greater than 50% of mass 198 | 100 |
| 443 | 15.0 - 24.0% of mass 442 | 13.7 (19.8) 2 |

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| SSTDCCC0.4 | SSTDCCC0.4 | BN035830.D | 12/24/2024 | 20:55 |
| RW11-MW01S-20241219 | P5376-16 | BN035833.D | 12/24/2024 | 23:18 |
| RW11-MW01I-20241219 | P5376-17 | BN035834.D | 12/24/2024 | 23:53 |
| TT119S1-20241219 | P5376-18 | BN035835.D | 12/25/2024 | 00:29 |
| FB03-20241219 | P5376-20 | BN035837.D | 12/25/2024 | 01:40 |
| SSTDCCC0.4EC | SSTDCCC0.4 | BN035843.D | 12/25/2024 | 05:14 |

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM SAS No.: P5376 SDG NO.: P5376

Lab File ID: BN035844.D DFTPP Injection Date: 12/26/2024

Instrument ID: BNA_N DFTPP Injection Time: 09:19

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 51 | 10.0 - 80.0% of mass 198 | 24 |
| 68 | Less than 2.0% of mass 69 | 0.2 ( 0.6 ) 1 |
| 69 | Mass 69 relative abundance | 32.9 |
| 70 | Less than 2.0% of mass 69 | 0.2 ( 0.5 ) 1 |
| 127 | 10.0 - 80.0% of mass 198 | 40 |
| 197 | Less than 2.0% of mass 198 | 0.0 |
| 198 | Base Peak, 100% relative abundance | 100 |
| 199 | 5.0 to 9.0% of mass 198 | 6.7 |
| 275 | 10.0 - 60.0% of mass 198 | 27.1 |
| 365 | Greater than 1% of mass 198 | 3.9 |
| 441 | Present, but less than mass 443 | 11.5 |
| 442 | Greater than 50% of mass 198 | 100 |
| 443 | 15.0 - 24.0% of mass 442 | 14.1 (20.5) 2 |

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| SSTDCCC0.4 | SSTDCCC0.4 | BN035845.D | 12/26/2024 | 09:58 |
| TT162S1-20241219 | P5376-15 | BN035847.D | 12/26/2024 | 11:20 |
| TT188S1-20241219 | P5376-19 | BN035848.D | 12/26/2024 | 11:56 |
| TT205S1-20241218 | P5376-01 | BN035849.D | 12/26/2024 | 12:31 |
| PB165828BS | PB165828BS | BN035852.D | 12/26/2024 | 14:19 |
| RE115D2-20241218DL | P5376-03DL | BN035854.D | 12/26/2024 | 15:30 |
| SSTDCCC0.4EC | SSTDCCC0.4 | BN035861.D | 12/26/2024 | 19:41 |

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P5376 SAS No.: P5376 SDG NO.: P5376

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 12/24/2024

Lab File ID: BN035811.D Time Analyzed: 08:59

Instrument ID: BNA_N GC Column: ZB-GR ID: 0.25 (mm)

| | | IS1 (DCB) AREA # | RT # | IS2 (NPT) AREA # | RT # | IS3 (ANT) AREA # | RT # |
|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 3972 | 7.264 | 9483 | 10.00 | 5387 | 13.92 |
| | UPPER LIMIT | 7944 | 7.764 | 18966 | 10.498 | 10774 | 14.424 |
| | LOWER LIMIT | 1986 | 6.764 | 4741.5 | 9.498 | 2693.5 | 13.424 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | TT150S1-20241218 | 3146 | 7.26 | 7086 | 10.01 | 4334 | 13.93 |
| 02 | RE115D2-20241218 | 3275 | 7.26 | 7772 | 10.01 | 4979 | 13.93 |
| 03 | TT149S1-20241218 | 2882 | 7.26 | 6877 | 10.01 | 4352 | 13.93 |
| 04 | DUP-07-20241218 | 3045 | 7.26 | 7417 | 10.01 | 4769 | 13.93 |
| 05 | TT174I1-20241218 | 3689 | 7.26 | 8470 | 10.01 | 5265 | 13.92 |
| 06 | RW10-MW01S-20241218 | 3143 | 7.26 | 7176 | 10.01 | 4458 | 13.92 |
| 07 | RW10-MW01S-20241218MS | 3131 | 7.26 | 7403 | 10.00 | 4434 | 13.91 |
| 08 | RW10-MW01S-20241218MSD | 3187 | 7.26 | 7953 | 10.00 | 4887 | 13.91 |
| 09 | RW10-MW01D-20241218 | 3352 | 7.26 | 8445 | 10.01 | 5463 | 13.93 |
| 10 | RW10A-MW01S-20241218 | 3542 | 7.26 | 8575 | 10.01 | 5533 | 13.93 |
| 11 | RW10A-MW01I-20241218 | 3186 | 7.26 | 7275 | 10.01 | 4568 | 13.92 |
| 12 | RE117D2-20241218 | 3378 | 7.26 | 7925 | 10.01 | 4973 | 13.92 |
| 13 | TT161S1-20241219 | 3265 | 7.26 | 7883 | 10.01 | 4842 | 13.92 |
| 14 | PB165828BL | 3197 | 7.26 | 6952 | 10.02 | 4346 | 13.94 |

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P5376 SAS No.: P5376 SDG NO.: P5376

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 12/24/2024

Lab File ID: BN035811.D Time Analyzed: 08:59

Instrument ID: BNA_N GC Column: ZB-GR ID: 0.25 (mm)

| | | IS4 (PHN) AREA # | RT # | IS5 (CRY) AREA # | RT # | IS6 (PRY) AREA # | RT # |
|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 10855 | 16.698 | 8569 | 20.947 | 8879 | 23.029 |
| | UPPER LIMIT | 21710 | 17.198 | 17138 | 21.447 | 17758 | 23.529 |
| | LOWER LIMIT | 5427.5 | 16.198 | 4284.5 | 20.447 | 4439.5 | 22.529 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | TT150S1-20241218 | 8132 | 16.70 | 6728 | 20.95 | 6588 | 23.03 |
| 02 | RE115D2-20241218 | 10106 | 16.70 | 8871 | 20.95 | 8758 | 23.03 |
| 03 | TT149S1-20241218 | 9250 | 16.70 | 8129 | 20.95 | 8126 | 23.03 |
| 04 | DUP-07-20241218 | 10054 | 16.70 | 8730 | 20.95 | 8948 | 23.03 |
| 05 | TT174I1-20241218 | 9421 | 16.70 | 7347 | 20.95 | 7210 | 23.03 |
| 06 | RW10-MW01S-20241218 | 8922 | 16.70 | 7054 | 20.95 | 6962 | 23.03 |
| 07 | RW10-MW01S-20241218MS | 9040 | 16.69 | 8798 | 20.95 | 9479 | 23.03 |
| 08 | RW10-MW01S-20241218MSD | 10068 | 16.69 | 9501 | 20.94 | 9990 | 23.02 |
| 09 | RW10-MW01D-20241218 | 11816 | 16.70 | 9968 | 20.95 | 9568 | 23.03 |
| 10 | RW10A-MW01S-20241218 | 11307 | 16.70 | 9270 | 20.95 | 9119 | 23.03 |
| 11 | RW10A-MW01I-20241218 | 9048 | 16.70 | 6943 | 20.95 | 6791 | 23.03 |
| 12 | RE117D2-20241218 | 10383 | 16.70 | 8532 | 20.95 | 8295 | 23.03 |
| 13 | TT161S1-20241219 | 9395 | 16.70 | 7091 | 20.95 | 6735 | 23.03 |
| 14 | PB165828BL | 8099 | 16.71 | 6756 | 20.96 | 6747 | 23.04 |

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P5376 SAS No.: P5376 SDG NO.: P5376

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 12/24/2024

Lab File ID: BN035830.D Time Analyzed: 20:55

Instrument ID: BNA_N GC Column: ZB-GR ID: 0.25 (mm)

| | | IS1 (DCB) AREA # | RT # | IS2 (NPT) AREA # | RT # | IS3 (ANT) AREA # | RT # |
|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 3866 | 7.257 | 9955 | 10.00 | 5956 | 13.91 |
| | UPPER LIMIT | 7732 | 7.757 | 19910 | 10.498 | 11912 | 14.414 |
| | LOWER LIMIT | 1933 | 6.757 | 4977.5 | 9.498 | 2978 | 13.414 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | RW11-MW01S-20241219 | 3277 | 7.26 | 7724 | 10.01 | 4815 | 13.91 |
| 02 | RW11-MW01I-20241219 | 3211 | 7.26 | 7680 | 10.01 | 4788 | 13.93 |
| 03 | TT119S1-20241219 | 3270 | 7.26 | 7393 | 10.01 | 4622 | 13.93 |
| 04 | FB03-20241219 | 2951 | 7.26 | 6785 | 10.01 | 4279 | 13.92 |

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P5376 SAS No.: P5376 SDG NO.: P5376

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 12/24/2024

Lab File ID: BN035830.D Time Analyzed: 20:55

Instrument ID: BNA_N GC Column: ZB-GR ID: 0.25 (mm)

| | | IS4 (PHN) AREA # | RT # | IS5 (CRY) AREA # | RT # | IS6 (PRY) AREA # | RT # |
|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 11143 | 16.698 | 7851 | 20.947 | 7870 | 23.026 |
| | UPPER LIMIT | 22286 | 17.198 | 15702 | 21.447 | 15740 | 23.526 |
| | LOWER LIMIT | 5571.5 | 16.198 | 3925.5 | 20.447 | 3935 | 22.526 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | RW11-MW01S-20241219 | 10024 | 16.70 | 8069 | 20.95 | 7784 | 23.03 |
| 02 | RW11-MW01I-20241219 | 10028 | 16.70 | 8231 | 20.95 | 7812 | 23.03 |
| 03 | TT119S1-20241219 | 9153 | 16.70 | 7437 | 20.95 | 7071 | 23.03 |
| 04 | FB03-20241219 | 8231 | 16.70 | 6628 | 20.95 | 5858 | 23.03 |

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P5376 SAS No.: P5376 SDG NO.: P5376

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 12/26/2024

Lab File ID: BN035845.D Time Analyzed: 09:58

Instrument ID: BNA_N GC Column: ZB-GR ID: 0.25 (mm)

| | | IS1 (DCB) AREA # | RT # | IS2 (NPT) AREA # | RT # | IS3 (ANT) AREA # | RT # |
|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 3755 | 7.257 | 9322 | 10.00 | 5387 | 13.91 |
| | UPPER LIMIT | 7510 | 7.757 | 18644 | 10.499 | 10774 | 14.414 |
| | LOWER LIMIT | 1877.5 | 6.757 | 4661 | 9.499 | 2693.5 | 13.414 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | TT205S1-20241218 | 3517 | 7.26 | 8324 | 10.00 | 5358 | 13.91 |
| 02 | RE115D2-20241218DL | 2752 | 7.26 | 6133 | 10.01 | 4189 | 13.92 |
| 03 | TT162S1-20241219 | 3703 | 7.26 | 8876 | 10.00 | 5154 | 13.91 |
| 04 | TT188S1-20241219 | 3480 | 7.26 | 8196 | 10.01 | 5304 | 13.93 |
| 05 | PB165828BS | 4431 | 7.26 | 10905 | 10.00 | 6427 | 13.91 |

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P5376 SAS No.: P5376 SDG NO.: P5376

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 12/26/2024

Lab File ID: BN035845.D Time Analyzed: 09:58

Instrument ID: BNA_N GC Column: ZB-GR ID: 0.25 (mm)

| | | IS4 (PHN) AREA # | RT # | IS5 (CRY) AREA # | RT # | IS6 (PRY) AREA # | RT # |
|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 11262 | 16.686 | 9932 | 20.938 | 10817 | 23.021 |
| | UPPER LIMIT | 22524 | 17.186 | 19864 | 21.438 | 21634 | 23.521 |
| | LOWER LIMIT | 5631 | 16.186 | 4966 | 20.438 | 5408.5 | 22.521 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | TT205S1-20241218 | 11302 | 16.69 | 8549 | 20.94 | 7798 | 23.02 |
| 02 | RE115D2-20241218DL | 9267 | 16.70 | 7345 | 20.95 | 6900 | 23.03 |
| 03 | TT162S1-20241219 | 10596 | 16.69 | 8138 | 20.95 | 8007 | 23.03 |
| 04 | TT188S1-20241219 | 11548 | 16.70 | 9719 | 20.94 | 9432 | 23.02 |
| 05 | PB165828BS | 13001 | 16.69 | 9257 | 20.94 | 9148 | 23.02 |

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

# SAMPLE DATA

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | AECOM Technical Services, Inc. | Date Collected: | 12/18/24 |
| Project: | NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258 | Date Received: | 12/20/24 |
| Client Sample ID: | TT205S1-20241218 | SDG No.: | P5376 |
| Lab Sample ID: | P5376-01 | Matrix: | Water |
| Analytical Method: | SW8270ESIM | % Solid: | 0 |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-SIMGroup1 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BN035849.D | 1 | 12/23/24 13:29 | 12/26/24 12:31 | PB165828 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 123-91-1 | 1,4-Dioxane | 0.38 | | 0.070 | 0.20 | 0.20 | ug/L |
| **SURROGATES** | | | | | | | |
| 7297-45-2 | 2-Methylnaphthalene-d10 | 0.35 | | 30 - 150 | | 87% | SPK: 0.4 |
| 93951-69-0 | Fluoranthene-d10 | 0.40 | | 30 - 150 | | 100% | SPK: 0.4 |
| 4165-60-0 | Nitrobenzene-d5 | 0.43 | | 55 - 111 | | 108% | SPK: 0.4 |
| 321-60-8 | 2-Fluorobiphenyl | 0.37 | | 53 - 106 | | 92% | SPK: 0.4 |
| 1718-51-0 | Terphenyl-d14 | 0.59 | * | 58 - 132 | | 148% | SPK: 0.4 |
| **INTERNAL STANDARDS** | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 3520 | 7.257 | | | | |
| 1146-65-2 | Naphthalene-d8 | 8320 | 9.999 | | | | |
| 15067-26-2 | Acenaphthene-d10 | 5360 | 13.914 | | | | |
| 1517-22-2 | Phenanthrene-d10 | 11300 | 16.686 | | | | |
| 1719-03-5 | Chrysene-d12 | 8550 | 20.938 | | | | |
| 1520-96-3 | Perylene-d12 | 7800 | 23.021 | | | | |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
Data File : BN035849.D
Acq On : 26 Dec 2024 12:31
Operator : RC/JU
Sample : P5376-01
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
TT205S1-20241218

**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

Quant Time: Dec 27 00:40:49 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.257 | 152 | 3517 | 0.400 | ng | | -0.01 |
| 7) Naphthalene-d8 | 9.999 | 136 | 8324 | 0.400 | ng | | -0.02 |
| 13) Acenaphthene-d10 | 13.914 | 164 | 5358 | 0.400 | ng | | -0.02 |
| 19) Phenanthrene-d10 | 16.686 | 188 | 11302 | 0.400 | ng | | #-0.01 |
| 29) Chrysene-d12 | 20.938 | 240 | 8549 | 0.400 | ng | | #-0.02 |
| 35) Perylene-d12 | 23.021 | 264 | 7798 | 0.400 | ng | | #-0.02 |
| System Monitoring Compounds | | | | | | | |
| 4) 2-Fluorophenol | 4.925 | 112 | 846 | 0.096 | ng | | -0.01 |
| 5) Phenol-d6 | 6.477 | 99 | 442 | 0.042 | ng | | -0.01 |
| 8) Nitrobenzene-d5 | 8.397 | 82 | 2201m | 0.433 | ng | | -0.01 |
| 11) 2-Methylnaphthalene-d10 | 11.606 | 152 | 4536 | 0.348 | ng | | -0.02 |
| 14) 2,4,6-Tribromophenol | 15.443 | 330 | 860 | 0.226 | ng | | -0.01 |
| 15) 2-Fluorobiphenyl | 12.528 | 172 | 7437 | 0.367 | ng | | -0.02 |
| 27) Fluoranthene-d10 | 18.743 | 212 | 12788 | 0.399 | ng | | -0.02 |
| 31) Terphenyl-d14 | 19.375 | 244 | 9994 | 0.593 | ng | | -0.01 |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 2.974 | 88 | 1289 | 0.383 | ng | | 95 |
| 9) Naphthalene | 10.052 | 128 | 3939 | 0.179 | ng | | 96 |
| 12) 2-Methylnaphthalene | 11.682 | 142 | 2490 | 0.158 | ng | | 98 |
| 16) Acenaphthylene | 13.625 | 152 | 3867 | 0.172 | ng | | 99 |
| 17) Acenaphthene | 13.978 | 154 | 2493 | 0.167 | ng | | 99 |
| 18) Fluorene | 14.983 | 166 | 3286 | 0.154 | ng | | 99 |
| 25) Phenanthrene | 16.736 | 178 | 6290 | 0.203 | ng | | 99 |
| 26) Anthracene | 16.823 | 178 | 4610 | 0.164 | ng | | 98 |
| 28) Fluoranthene | 18.775 | 202 | 6981 | 0.167 | ng | | 99 |
| 30) Pyrene | 19.142 | 202 | 7191 | 0.228 | ng | | 99 |
| 32) Benzo(a)anthracene | 20.929 | 228 | 4336 | 0.145 | ng | | 97 |
| 33) Chrysene | 20.974 | 228 | 5151 | 0.167 | ng | | 98 |
| 34) Bis(2-ethylhexyl)phtha... | 20.893 | 149 | 1190 | 0.101 | ng | # | 96 |
| 36) Indeno(1,2,3-cd)pyrene | 25.050 | 276 | 3640 | 0.119 | ng | | 99 |
| 37) Benzo(b)fluoranthene | 22.413 | 252 | 5477 | 0.192 | ng | # | 75 |
| 38) Benzo(k)fluoranthene | 22.456 | 252 | 4164 | 0.148 | ng | # | 73 |
| 39) Benzo(a)pyrene | 22.933 | 252 | 2844 | 0.121 | ng | # | 53 |
| 40) Dibenzo(a,h)anthracene | 25.067 | 278 | 2834 | 0.118 | ng | # | 70 |
| 41) Benzo(g,h,i)perylene | 25.652 | 276 | 2847 | 0.113 | ng | # | 90 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

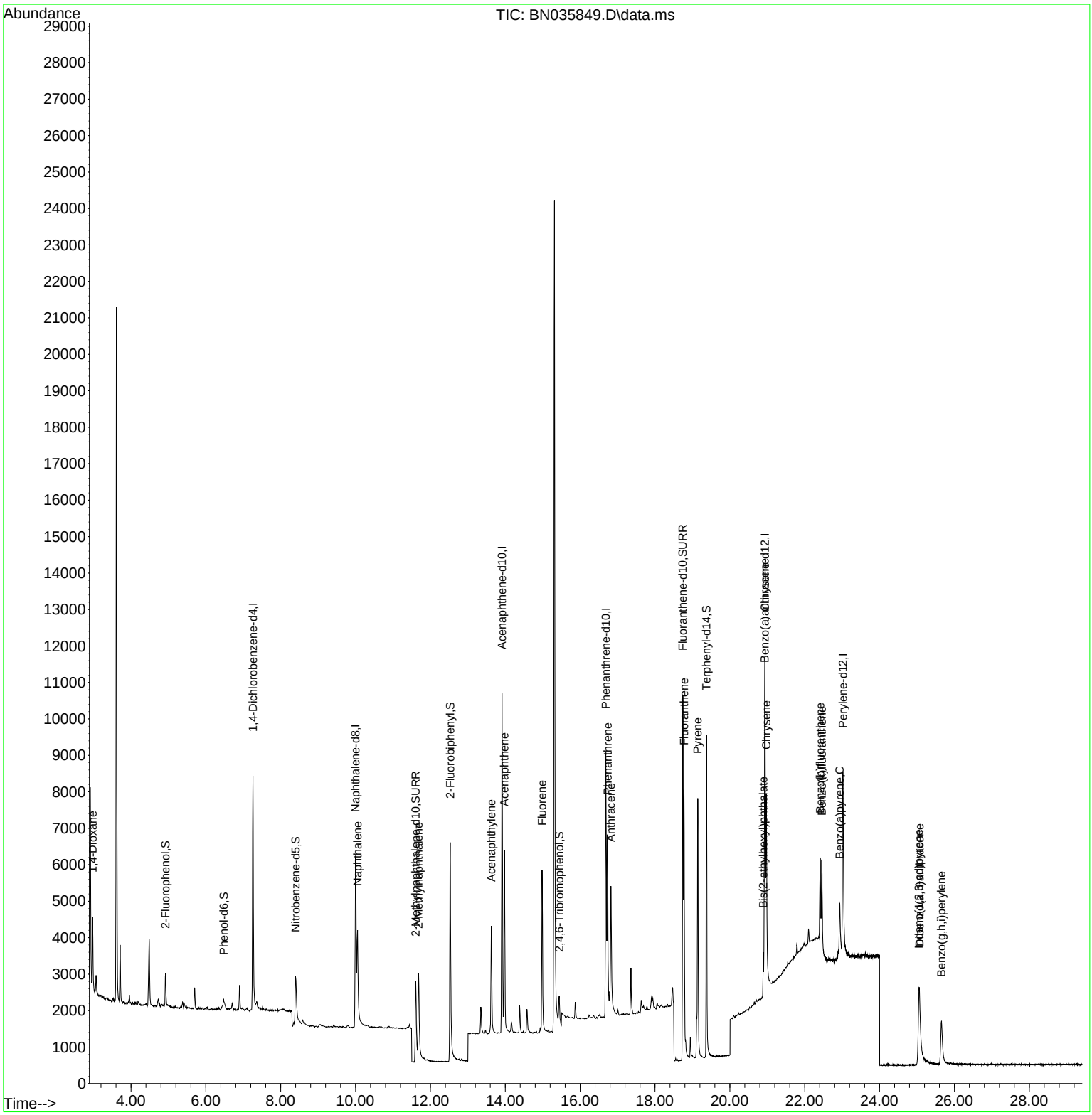
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Data File : BN035849.D
Acq On : 26 Dec 2024 12:31
Operator : RC/JU
Sample : P5376-01
Misc :
ALS Vial : 6 Sample Multiplier: 1

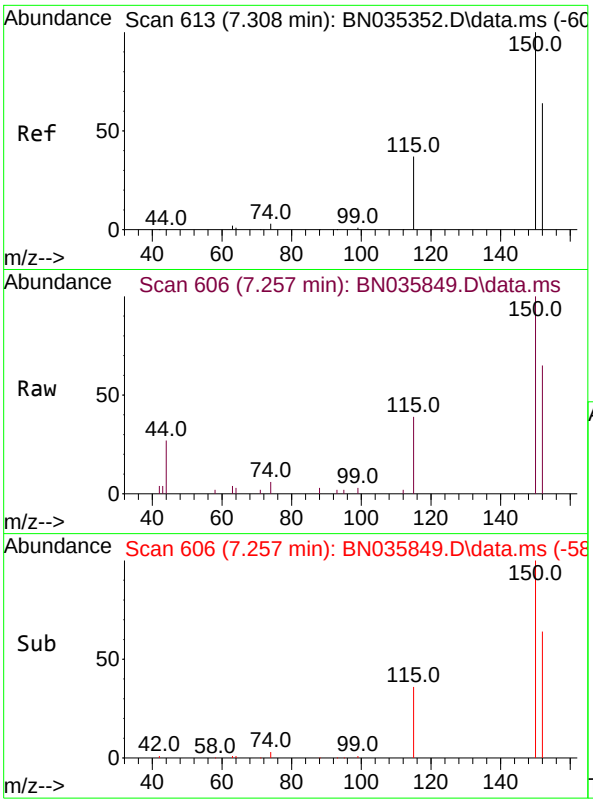
Quant Time: Dec 27 00:40:49 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

**Instrument :**
BNA_N
**ClientSampleId :**
TT205S1-20241218

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

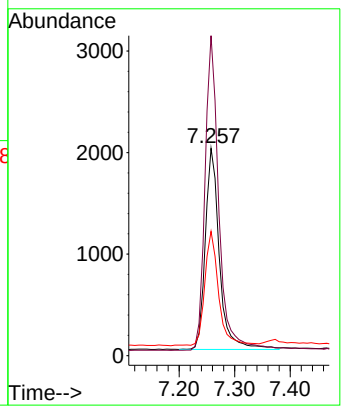





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 6(
Delta R.T. -0.015 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

Tgt Ion:152 Resp: 351

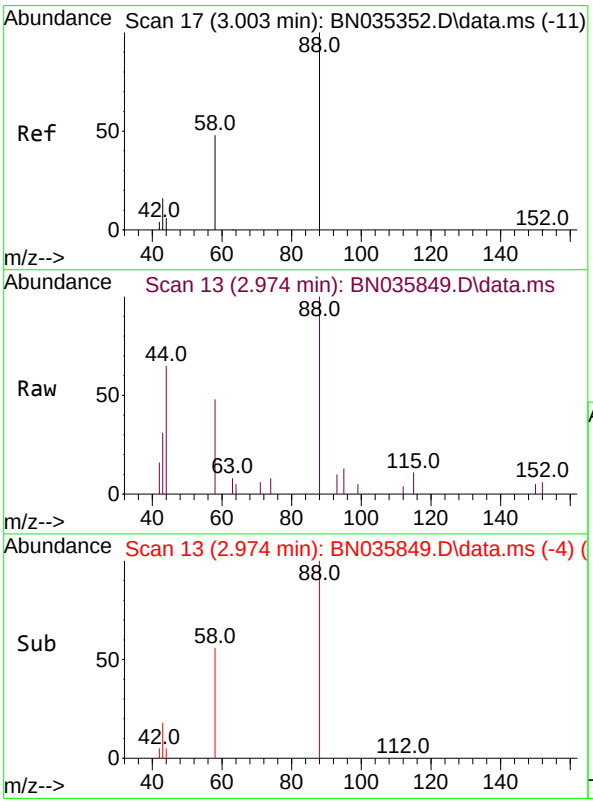
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 154.3 | 124.0 | 186.0 |
| 115 | 60.0 | 49.6 | 74.4 |




**Instrument :**
BNA_N
**ClientSampleId :**
TT205S1-20241218

**Manual Integrations**
**APPROVED**

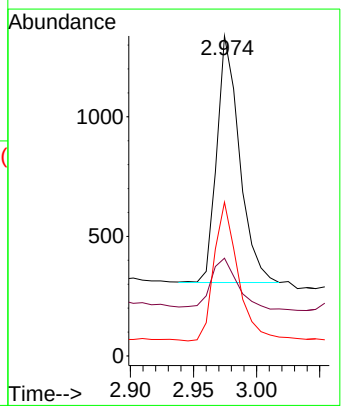
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

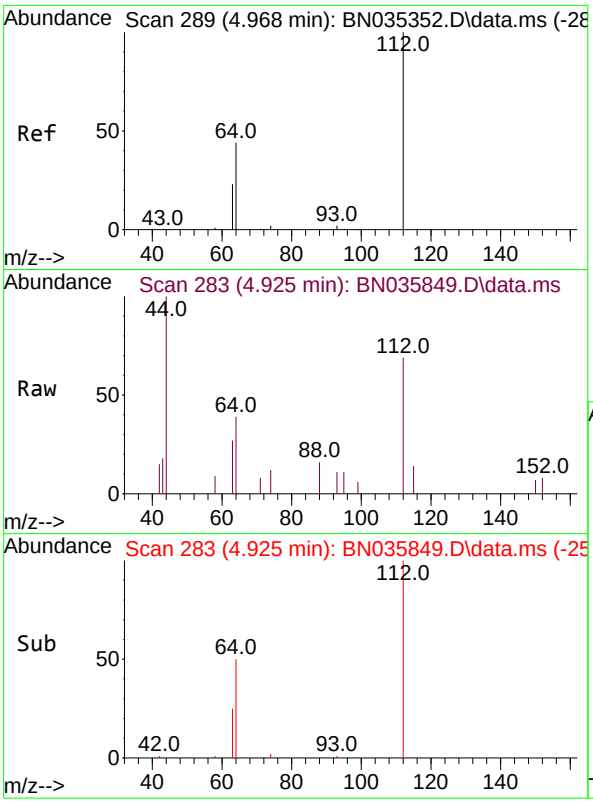



#2
1,4-Dioxane
Concen: 0.383 ng
RT: 2.974 min Scan# 13
Delta R.T. -0.008 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

Tgt Ion: 88 Resp: 1289

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 24.2 | 17.2 | 25.8 |
| 58 | 59.4 | 44.5 | 66.7 |






#4
2-Fluorophenol
Concen: 0.096 ng
RT: 4.925 min Scan# 2
Delta R.T. -0.014 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

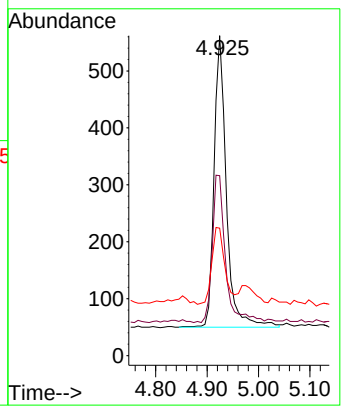
Tgt Ion:112 Resp: 84

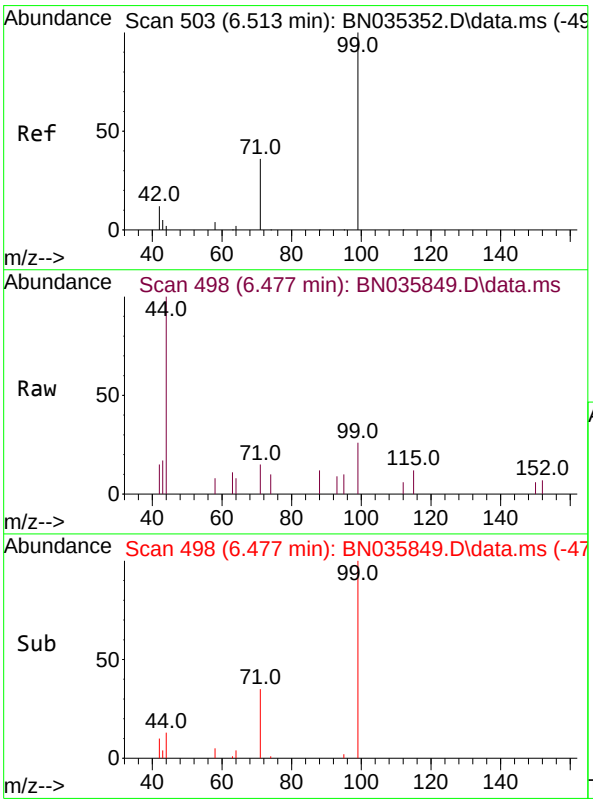
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 54.4 | 39.8 | 59.8 |
| 63 | 27.9 | 21.0 | 31.6 |

**Instrument :**
BNA_N
**ClientSampleId :**
TT205S1-20241218

**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

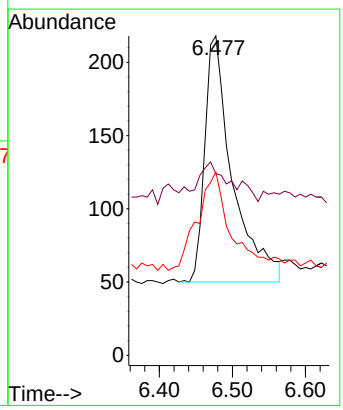


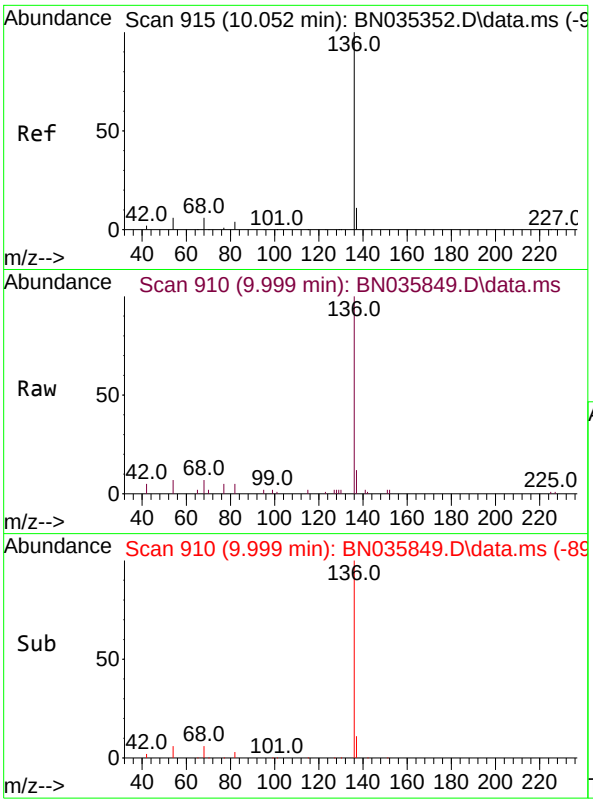




#5
Phenol-d6
Concen: 0.042 ng
RT: 6.477 min Scan# 498
Delta R.T. -0.014 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

Tgt Ion: 99 Resp: 442

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 11.3 | 11.4 | 17.2# |
| 71 | 51.1 | 29.3 | 43.9# |

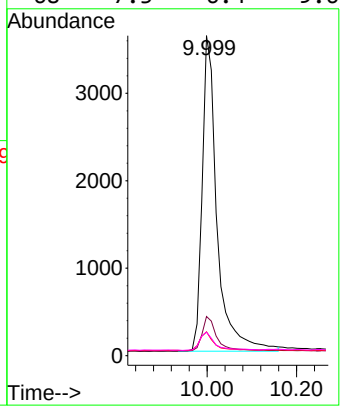





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 9.999 min Scan# 9
Delta R.T. -0.021 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

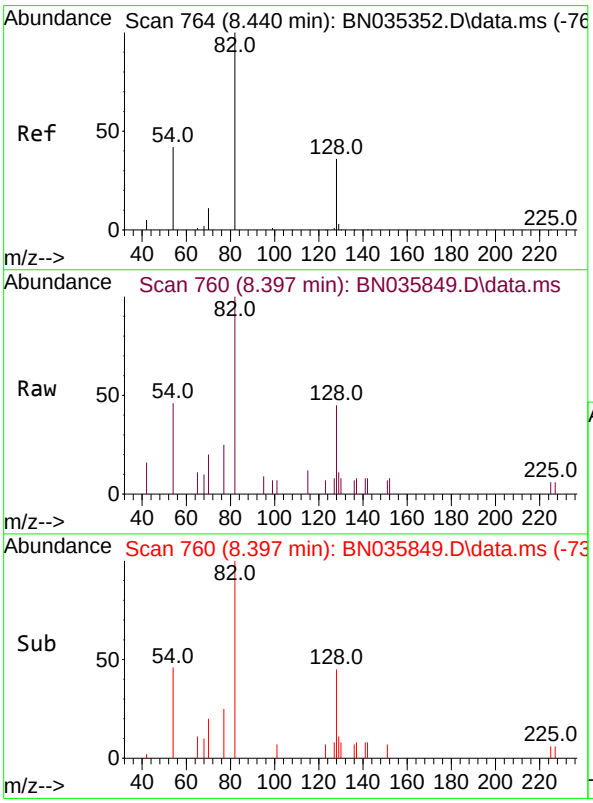
Tgt Ion:136 Resp: 832

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 12.3 | 10.2 | 15.2 |
| 54 | 7.4 | 6.1 | 9.1 |
| 68 | 7.3 | 6.4 | 9.6 |




**Instrument :**
BNA_N
**ClientSampleId :**
TT205S1-20241218

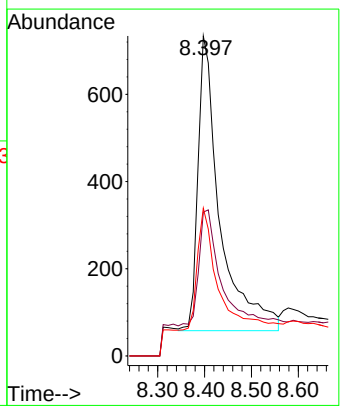
**Manual Integrations**
**APPROVED**
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

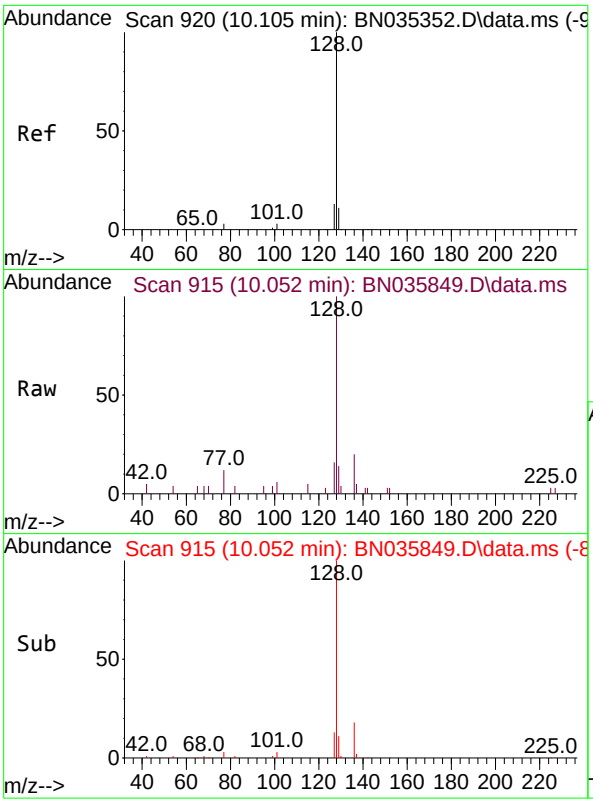



#8
Nitrobenzene-d5
Concen: 0.433 ng m
RT: 8.397 min Scan# 760
Delta R.T. -0.011 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

Tgt Ion: 82 Resp: 2201

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 45.0 | 33.4 | 50.0 |
| 54 | 46.2 | 36.7 | 55.1 |

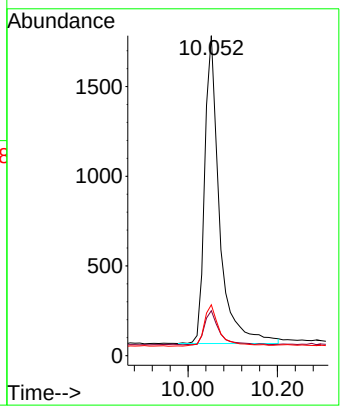





#9
Naphthalene
Concen: 0.179 ng
RT: 10.052 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

Tgt Ion:128 Resp: 393

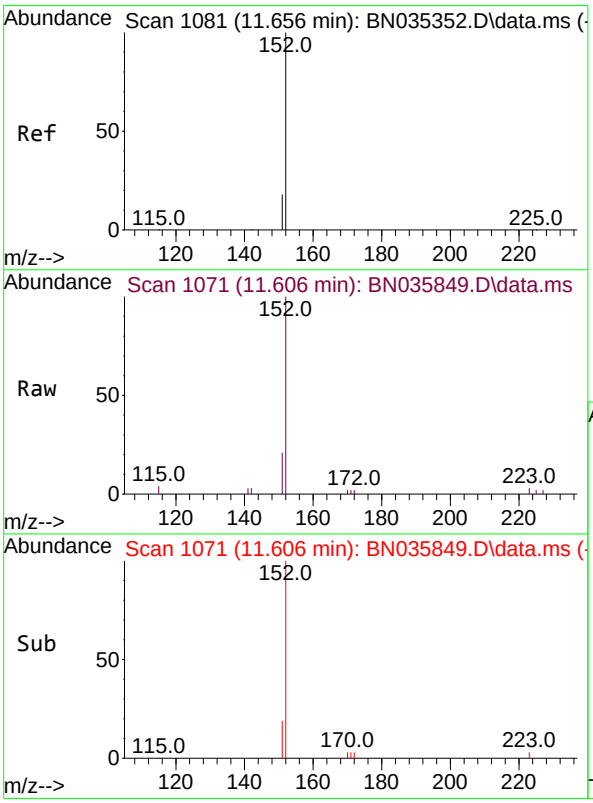
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 14.0 | 9.8 | 14.6 |
| 127 | 15.9 | 11.4 | 17.2 |




**Instrument :**
BNA_N
**ClientSampleId :**
TT205S1-20241218

**Manual Integrations**
**APPROVED**

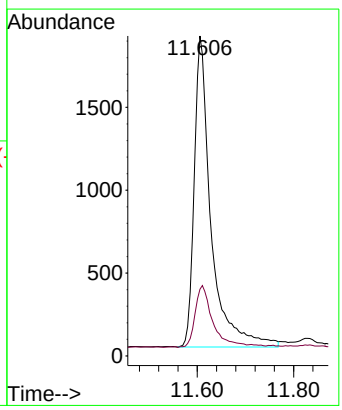
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

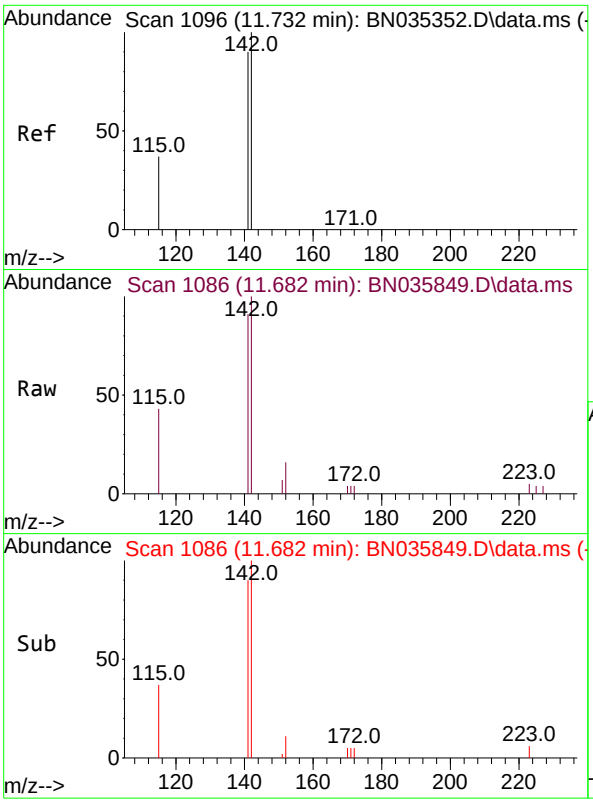



#11
2-Methylnaphthalene-d10
Concen: 0.348 ng
RT: 11.606 min Scan# 1071
Delta R.T. -0.015 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

Tgt Ion:152 Resp: 4536

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.9 | 16.6 | 25.0 |

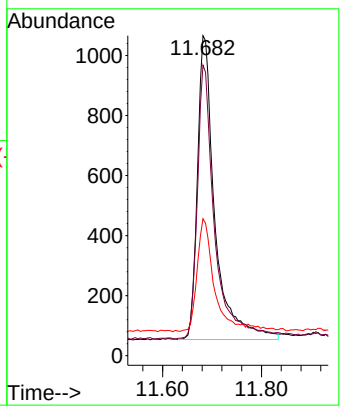





#12
2-Methylnaphthalene
Concen: 0.158 ng
RT: 11.682 min Scan# 1(
Delta R.T. -0.015 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

Tgt Ion:142 Resp: 249(

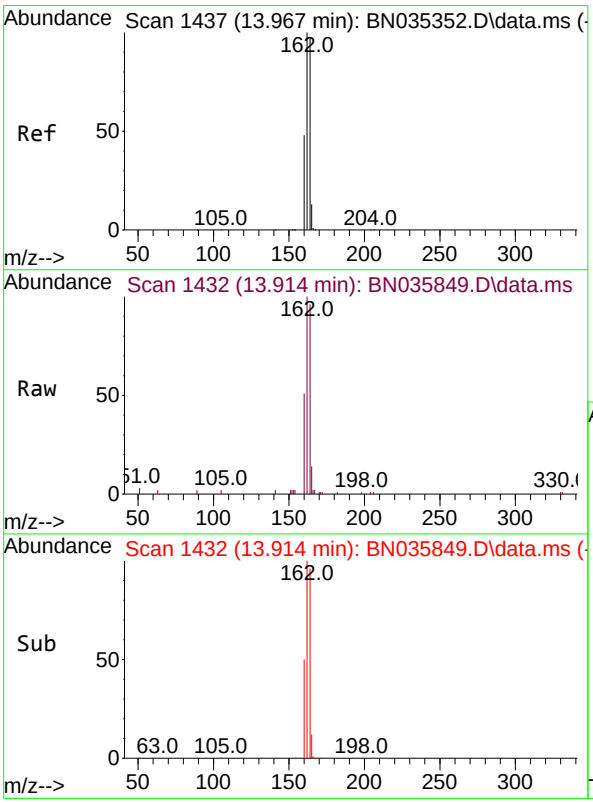
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 90.8 | 72.2 | 108.4 |
| 115 | 42.8 | 31.4 | 47.0 |




**Instrument :**
BNA_N
**ClientSampleId :**
TT205S1-20241218

**Manual Integrations**
**APPROVED**

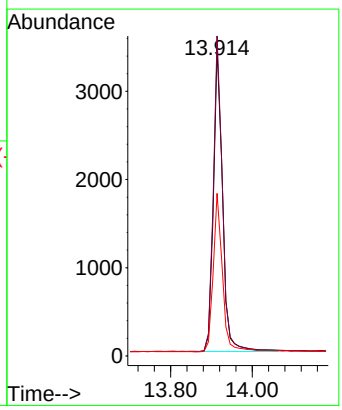
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

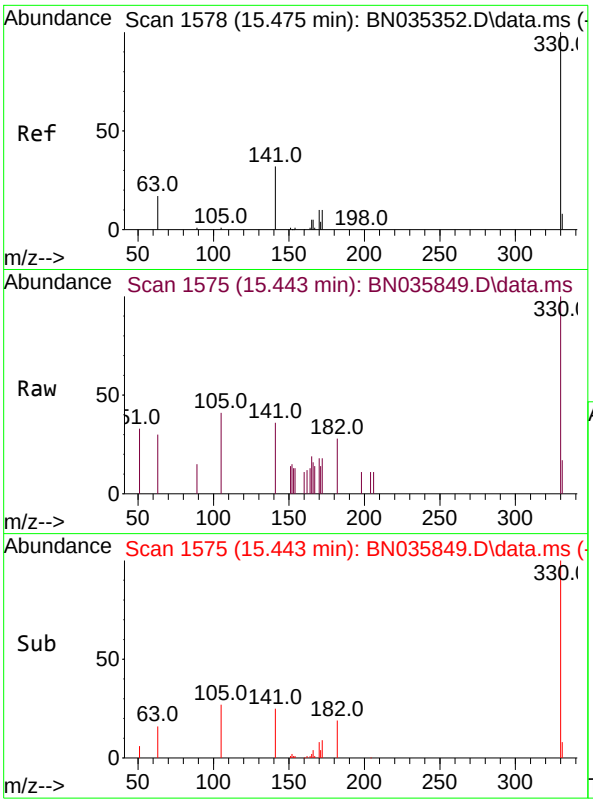



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.914 min Scan# 1432
Delta R.T. -0.021 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

Tgt Ion:164 Resp: 5358

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 104.1 | 82.2 | 123.2 |
| 160 | 52.9 | 40.1 | 60.1 |

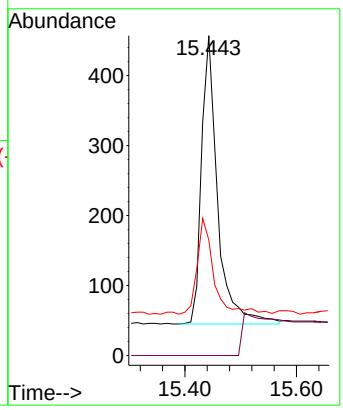





#14
2,4,6-Tribromophenol
Concen: 0.226 ng
RT: 15.443 min Scan# 1
Delta R.T. -0.011 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

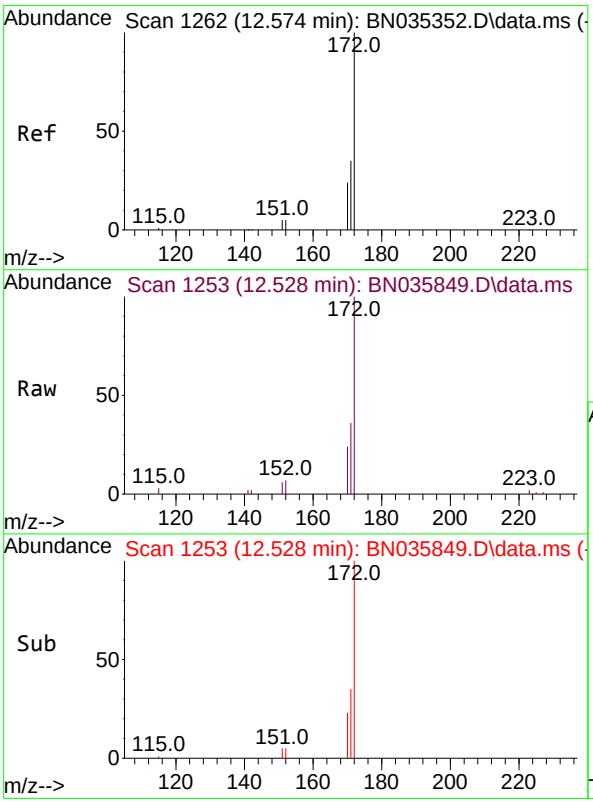
Tgt Ion:330 Resp: 86

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 0.0 | 0.0 | 0.0 |
| 141 | 34.0 | 26.6 | 40.0 |




**Instrument :**
BNA_N
**ClientSampleId :**
TT205S1-20241218

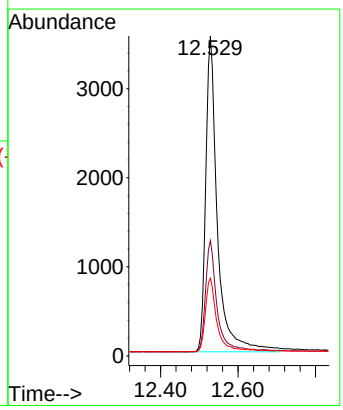
**Manual Integrations**
**APPROVED**
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

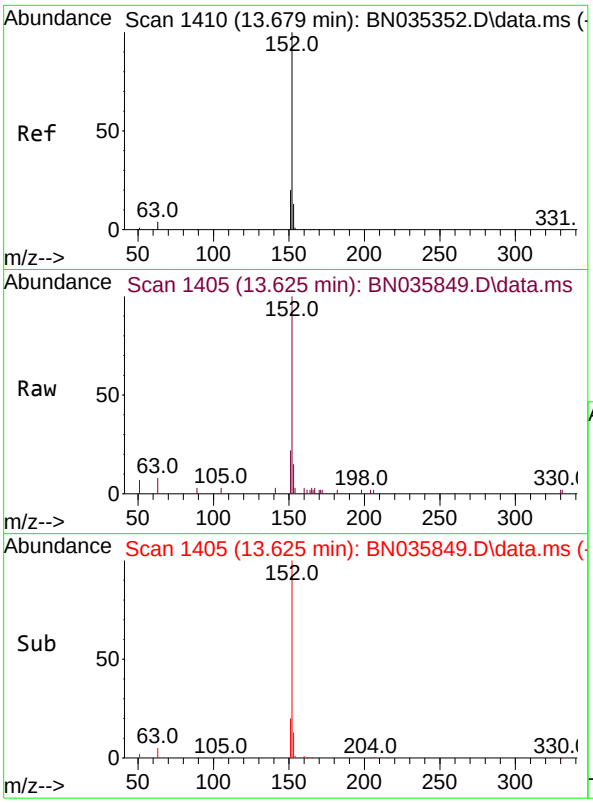



#15
2-Fluorobiphenyl
Concen: 0.367 ng
RT: 12.528 min Scan# 1253
Delta R.T. -0.015 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

Tgt Ion:172 Resp: 7437

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 36.0 | 29.0 | 43.4 |
| 170 | 24.3 | 19.8 | 29.8 |

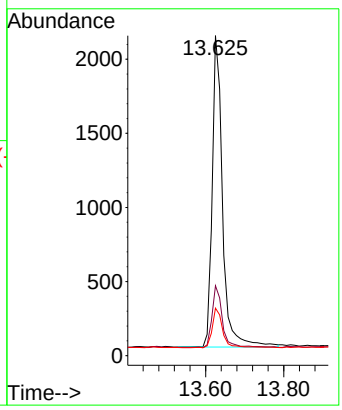





#16
Acenaphthylene
Concen: 0.172 ng
RT: 13.625 min Scan# 14
Delta R.T. -0.021 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

Tgt Ion:152 Resp: 386

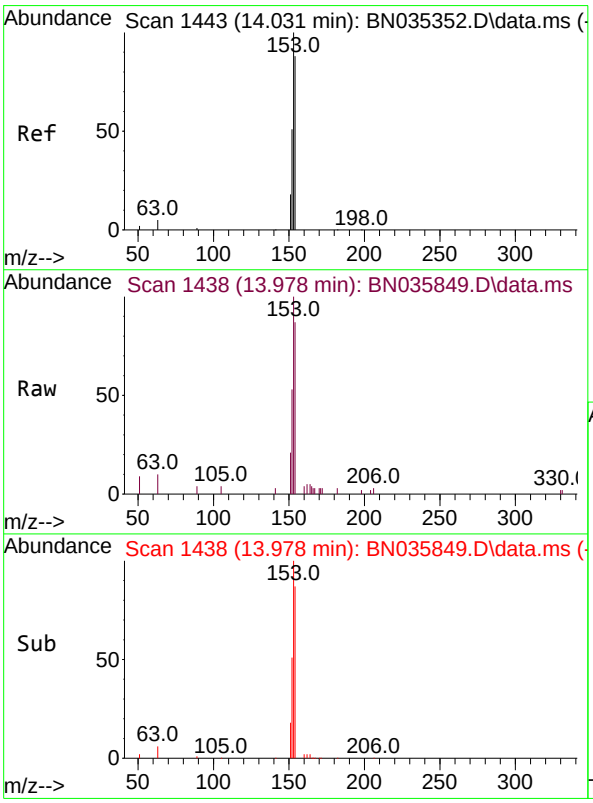
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 19.9 | 16.2 | 24.2 |
| 153 | 12.9 | 10.4 | 15.6 |




**Instrument :**
BNA_N
**ClientSampleId :**
TT205S1-20241218

**Manual Integrations**
**APPROVED**

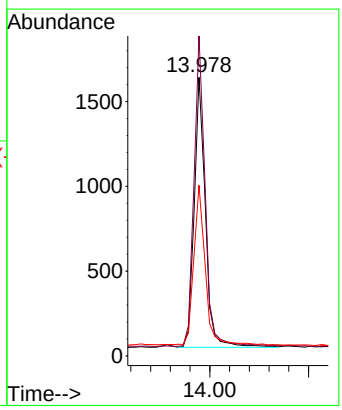
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

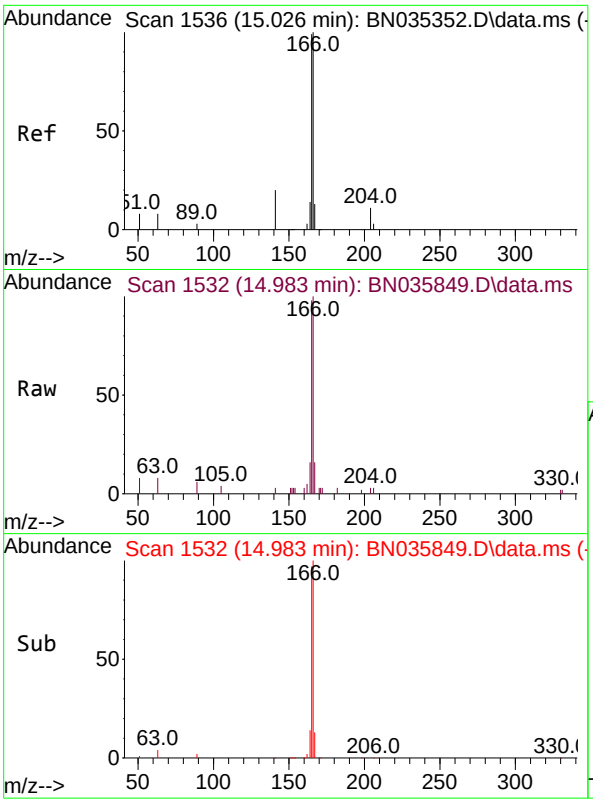



#17
Acenaphthene
Concen: 0.167 ng
RT: 13.978 min Scan# 1438
Delta R.T. -0.021 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

Tgt Ion:154 Resp: 2493

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 114.9 | 92.6 | 139.0 |
| 152 | 59.9 | 49.0 | 73.6 |

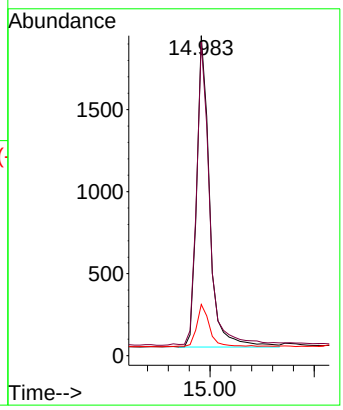





#18
Fluorene
Concen: 0.154 ng
RT: 14.983 min Scan# 1
Delta R.T. -0.021 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

Tgt Ion:166 Resp: 328

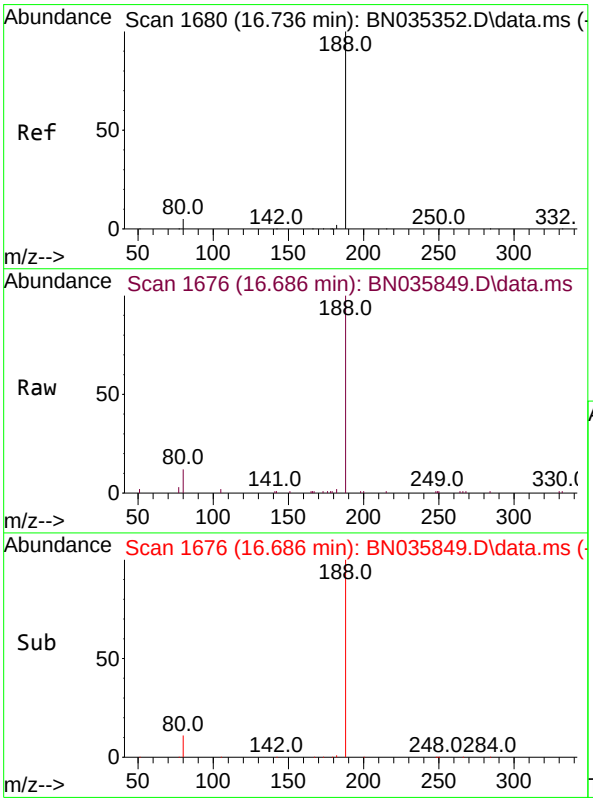
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 98.7 | 79.7 | 119.5 |
| 167 | 13.9 | 10.8 | 16.2 |




**Instrument :**
BNA_N
**ClientSampleId :**
TT205S1-20241218

**Manual Integrations**
**APPROVED**

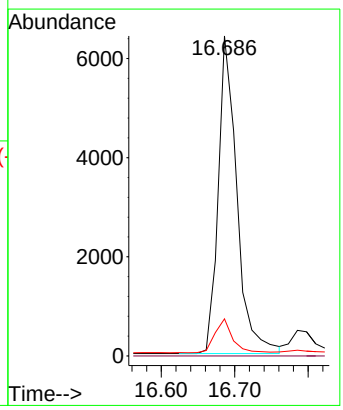
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

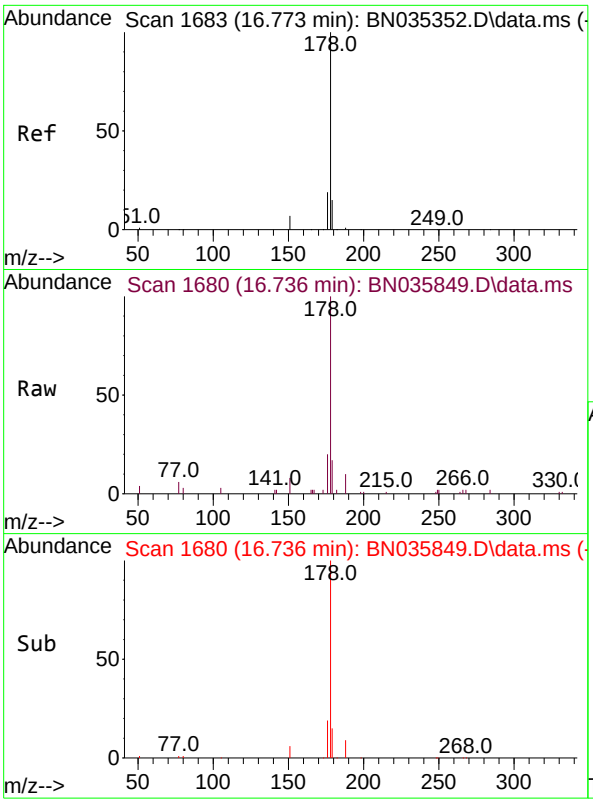



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.686 min Scan# 1676
Delta R.T. -0.012 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

Tgt Ion:188 Resp: 11302

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 11.6 | 4.6 | 6.8# |

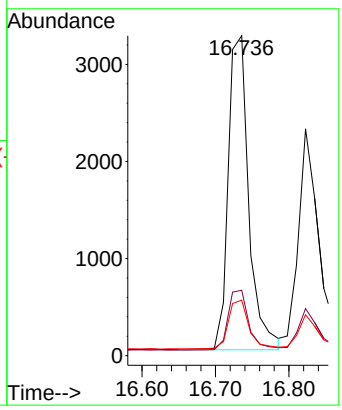





#25
Phenanthrene
Concen: 0.203 ng
RT: 16.736 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

Tgt Ion:178 Resp: 629(

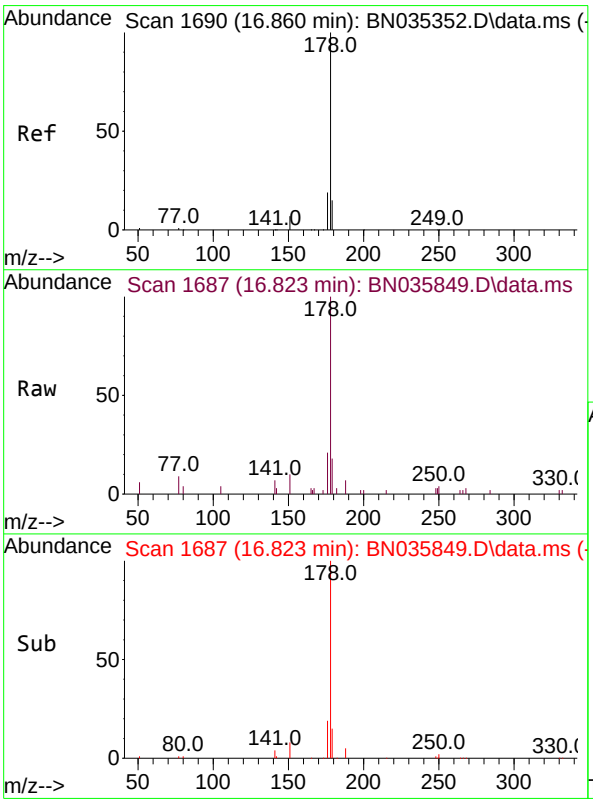
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.2 | 15.4 | 23.2 |
| 179 | 15.9 | 12.3 | 18.5 |




**Instrument :**
BNA_N
**ClientSampleId :**
TT205S1-20241218

**Manual Integrations**
**APPROVED**

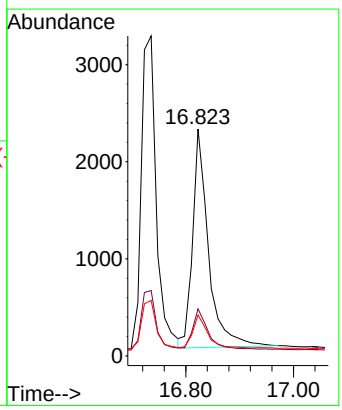
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

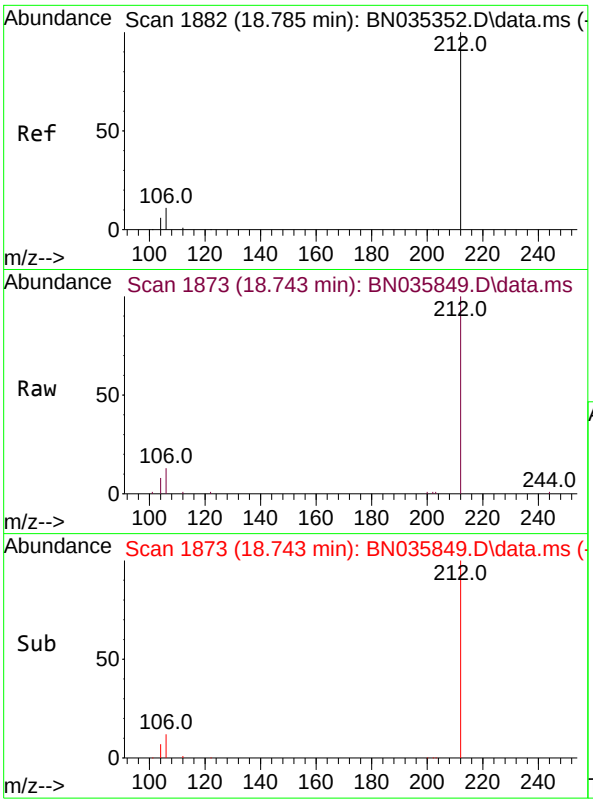



#26
Anthracene
Concen: 0.164 ng
RT: 16.823 min Scan# 1687
Delta R.T. -0.012 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

Tgt Ion:178 Resp: 4610

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.3 | 15.0 | 22.6 |
| 179 | 14.3 | 12.6 | 18.8 |

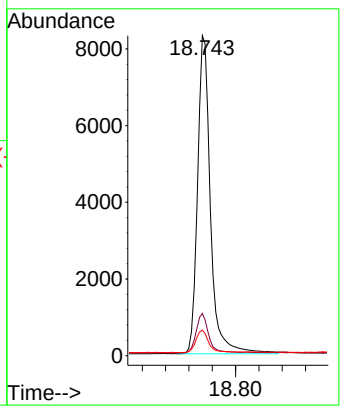





#27
Fluoranthene-d10
Concen: 0.399 ng
RT: 18.743 min Scan# 1
Delta R.T. -0.019 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

Tgt Ion:212 Resp: 1278

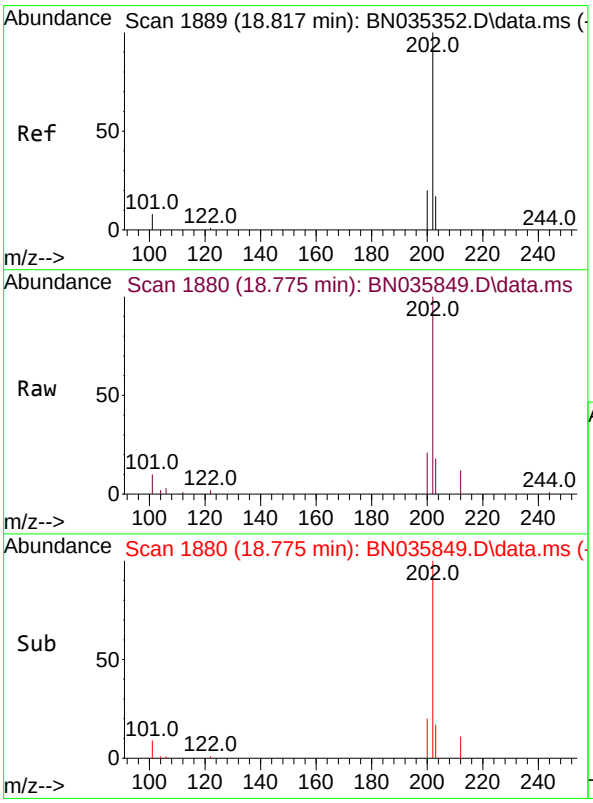
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 11.9 | 9.2 | 13.8 |
| 104 | 6.8 | 5.3 | 7.9 |




**Instrument :**
BNA_N
**ClientSampleId :**
TT205S1-20241218

**Manual Integrations**
**APPROVED**

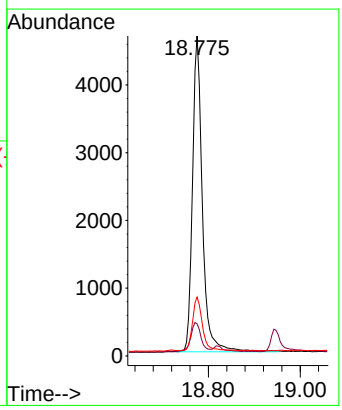
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

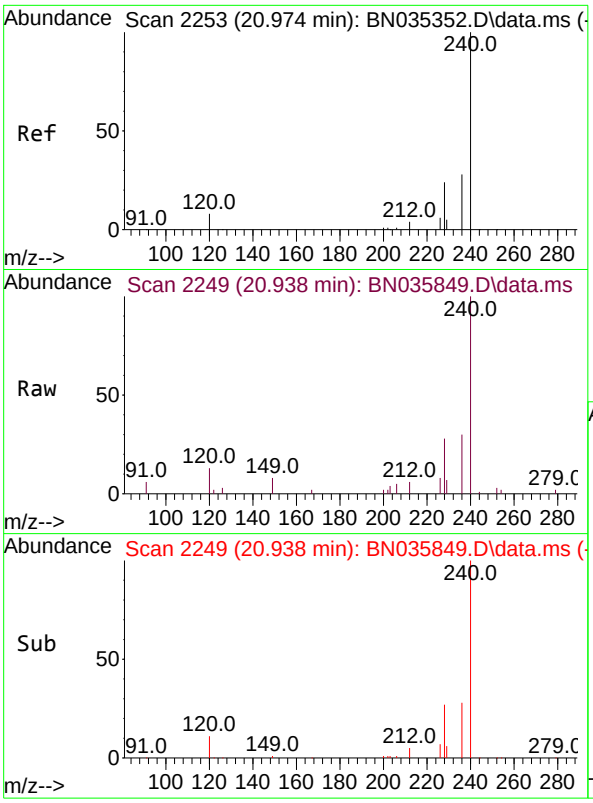



#28
Fluoranthene
Concen: 0.167 ng
RT: 18.775 min Scan# 1880
Delta R.T. -0.014 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

Tgt Ion:202 Resp: 6981

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 9.6 | 7.4 | 11.0 |
| 203 | 16.7 | 13.7 | 20.5 |

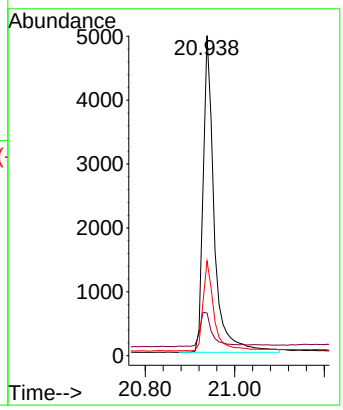





#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.938 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

Tgt Ion:240 Resp: 854

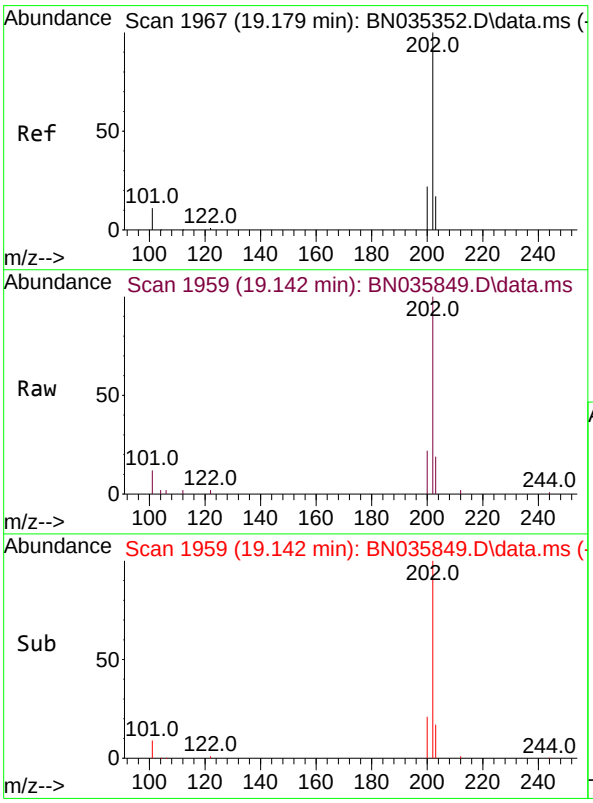
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 13.3 | 7.9 | 11.9 |
| 236 | 29.6 | 22.9 | 34.3 |




**Instrument :**
BNA_N
**ClientSampleId :**
TT205S1-20241218

**Manual Integrations**
**APPROVED**

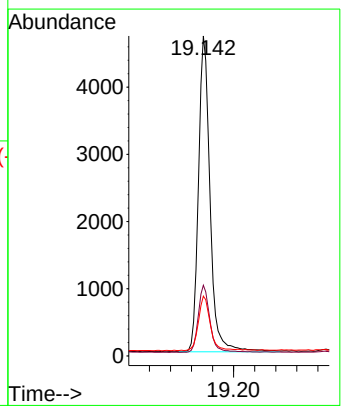
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

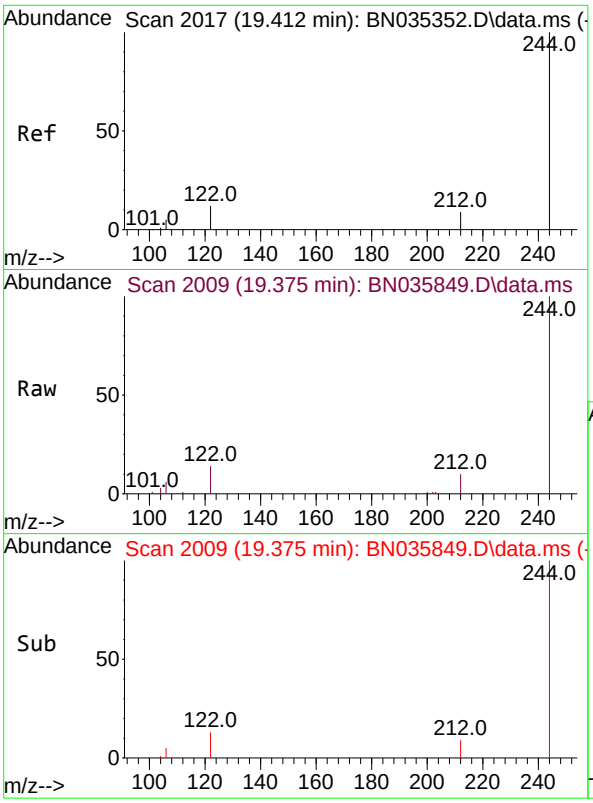



#30
Pyrene
Concen: 0.228 ng
RT: 19.142 min Scan# 1959
Delta R.T. -0.019 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

Tgt Ion:202 Resp: 7191

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.2 | 17.0 | 25.4 |
| 203 | 17.4 | 14.3 | 21.5 |

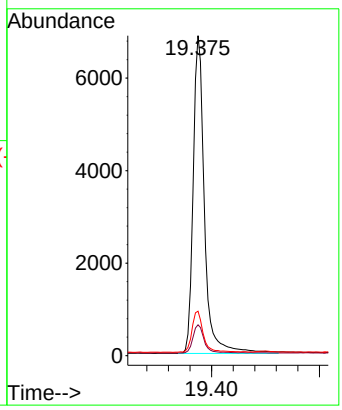





#31
Terphenyl-d14
Concen: 0.593 ng
RT: 19.375 min Scan# 2
Delta R.T. -0.014 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

Tgt Ion:244 Resp: 999

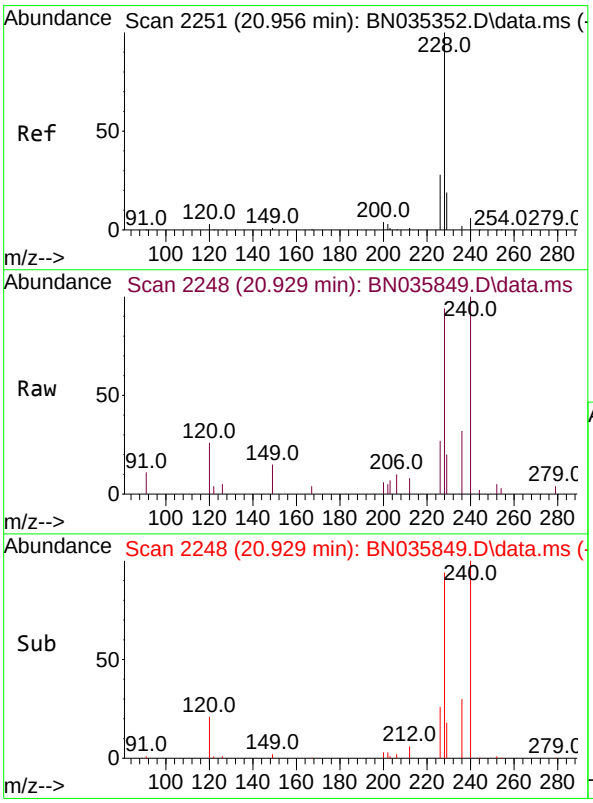
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 9.7 | 8.1 | 12.1 |
| 122 | 13.9 | 10.3 | 15.5 |




**Instrument :**
BNA_N
**ClientSampleId :**
TT205S1-20241218

**Manual Integrations APPROVED**

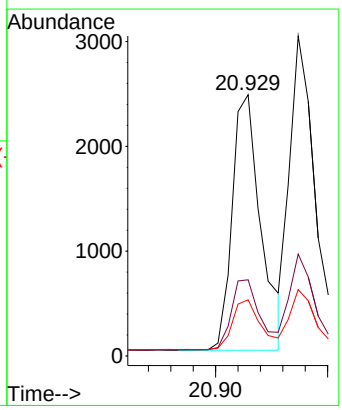
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

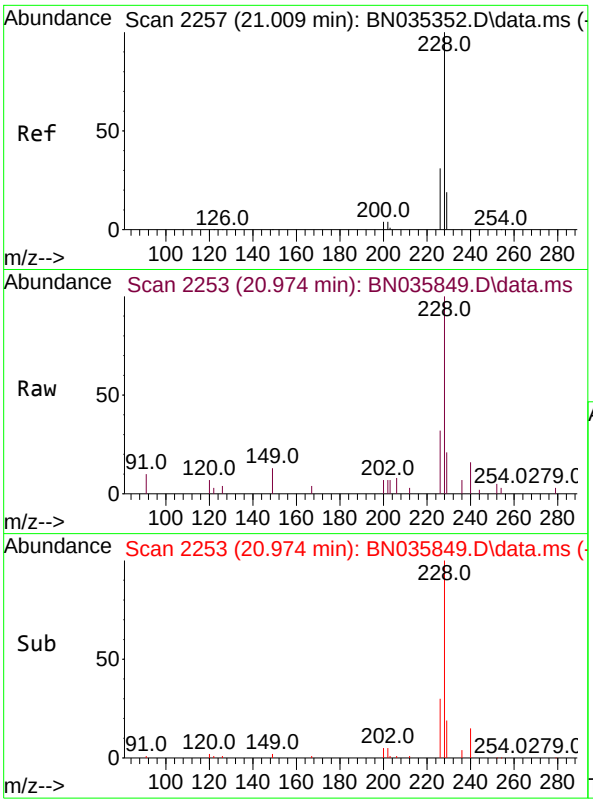



#32
Benzo(a)anthracene
Concen: 0.145 ng
RT: 20.929 min Scan# 2248
Delta R.T. -0.009 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

Tgt Ion:228 Resp: 4336

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 29.1 | 22.5 | 33.7 |
| 229 | 21.5 | 15.8 | 23.8 |

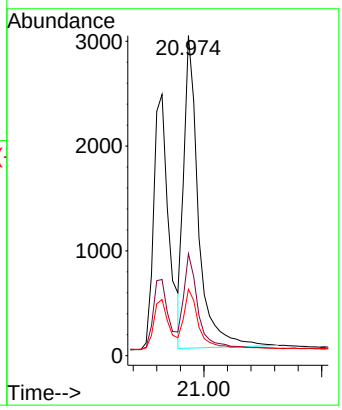





#33
Chrysene
Concen: 0.167 ng
RT: 20.974 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

Tgt Ion:228 Resp: 515

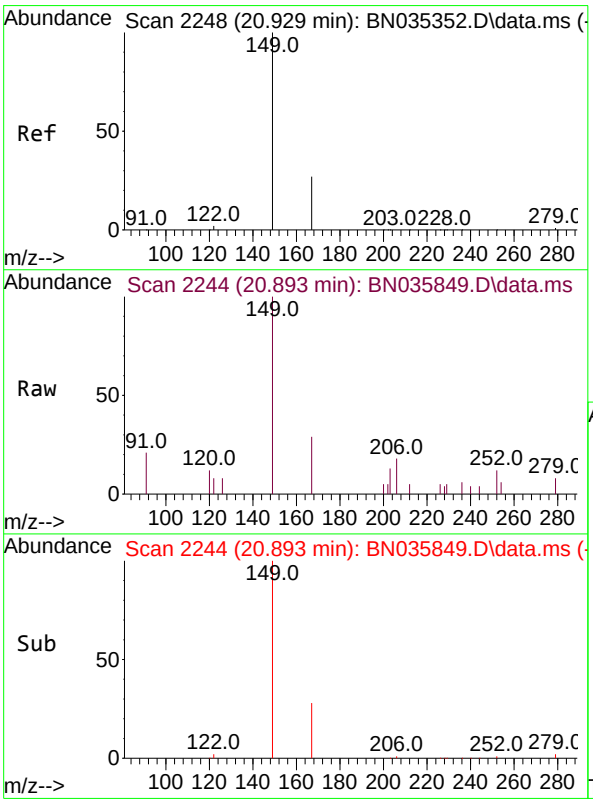
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 31.9 | 24.6 | 37.0 |
| 229 | 20.7 | 15.9 | 23.9 |




**Instrument :**
BNA_N
**ClientSampleId :**
TT205S1-20241218

**Manual Integrations**
**APPROVED**

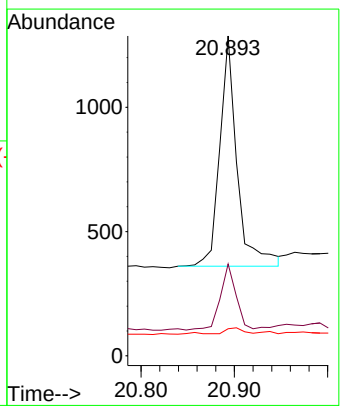
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

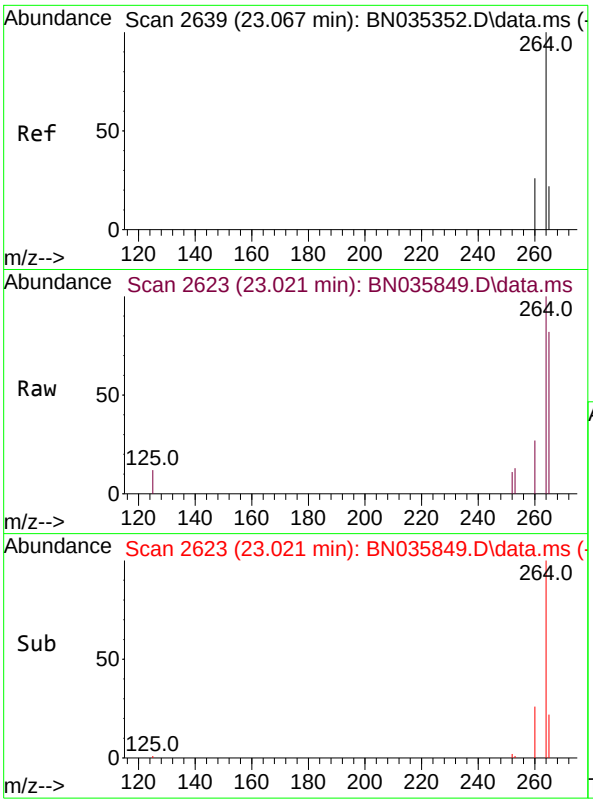



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.101 ng
RT: 20.893 min Scan# 2244
Delta R.T. -0.018 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

Tgt Ion:149 Resp: 1190

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 25.9 | 22.2 | 33.4 |
| 279 | 2.4 | 2.7 | 4.1# |

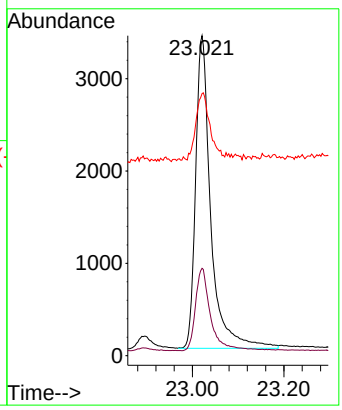





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.021 min Scan# 2
Delta R.T. -0.020 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

Tgt Ion:264 Resp: 779

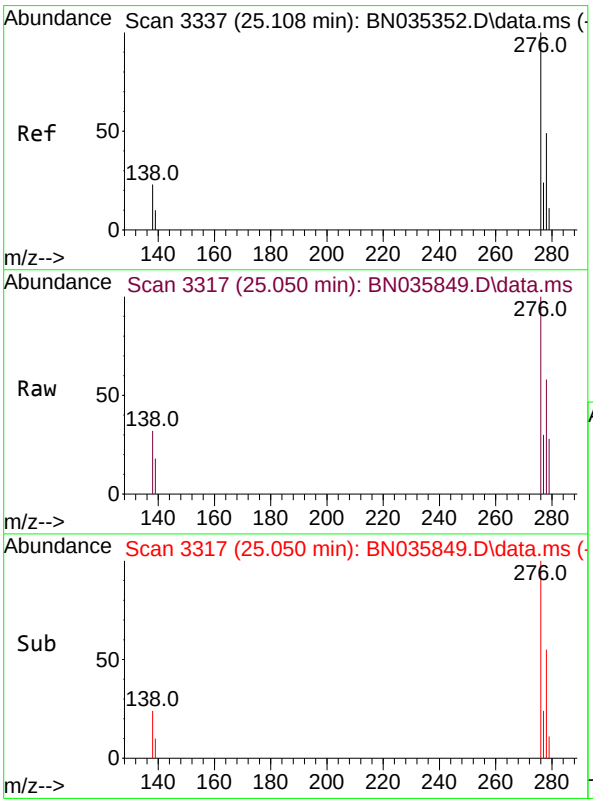
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 27.3 | 21.4 | 32.2 |
| 265 | 81.9 | 40.2 | 60.4 |




**Instrument :**
BNA_N
**ClientSampleId :**
TT205S1-20241218

**Manual Integrations**
**APPROVED**

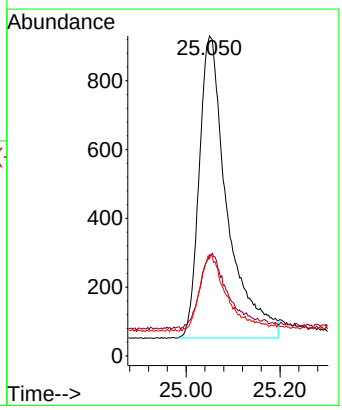
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

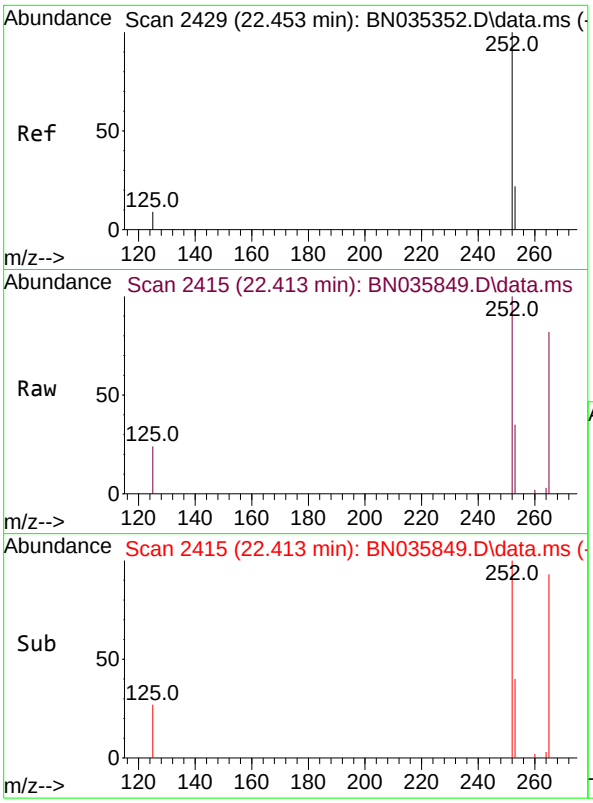



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.119 ng
RT: 25.050 min Scan# 3317
Delta R.T. -0.018 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

Tgt Ion:276 Resp: 3640

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 24.8 | 19.4 | 29.0 |
| 277 | 25.1 | 19.8 | 29.6 |






#37
Benzo(b)fluoranthene
Concen: 0.192 ng
RT: 22.413 min Scan# 24
Delta R.T. -0.018 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

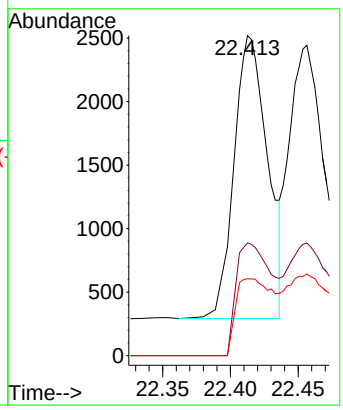
Tgt Ion:252 Resp: 547

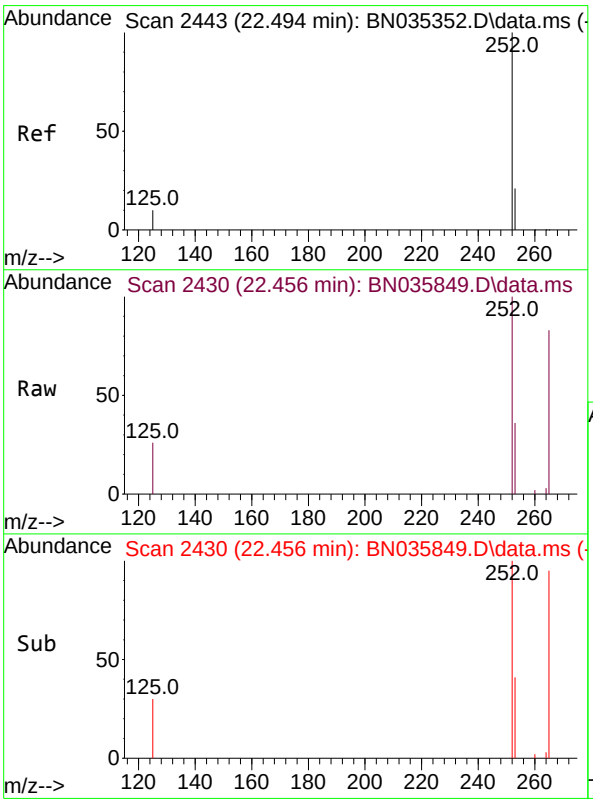
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 35.3 | 19.6 | 29.4# |
| 125 | 24.1 | 9.6 | 14.4# |

**Instrument :**
BNA_N
**ClientSampleId :**
TT205S1-20241218

**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

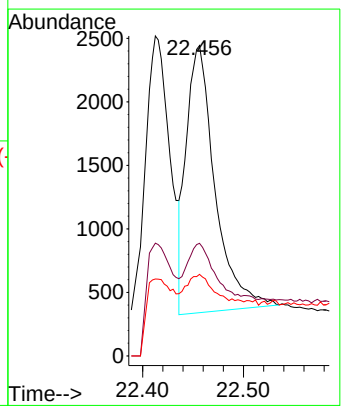


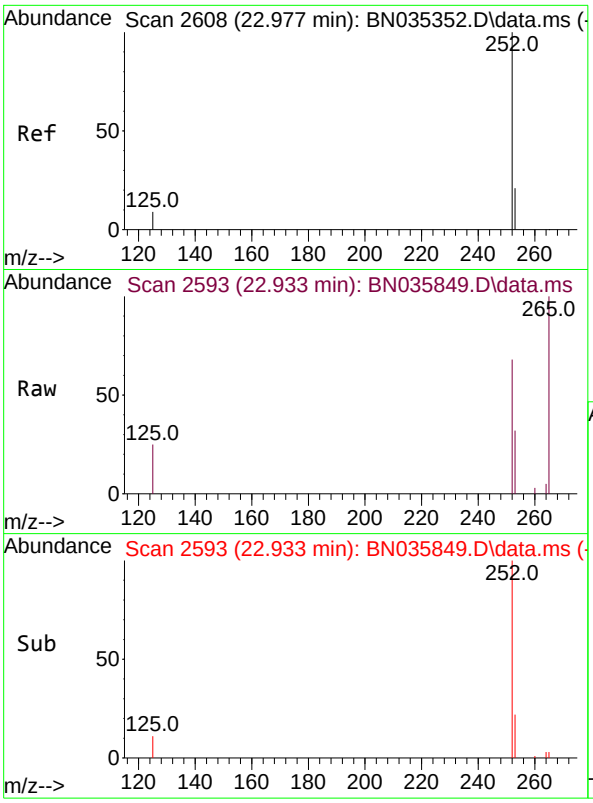




#38
Benzo(k)fluoranthene
Concen: 0.148 ng
RT: 22.456 min Scan# 2430
Delta R.T. -0.015 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

Tgt Ion:252 Resp: 4164

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 36.3 | 19.5 | 29.3# |
| 125 | 26.3 | 10.2 | 15.4# |

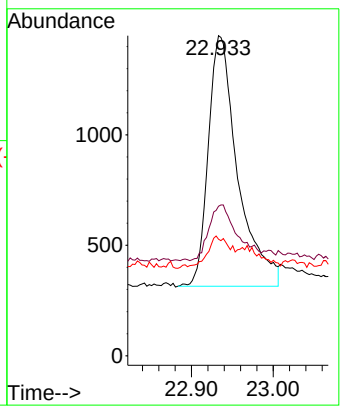





#39
Benzo(a)pyrene
Concen: 0.121 ng
RT: 22.933 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

Tgt Ion:252 Resp: 284

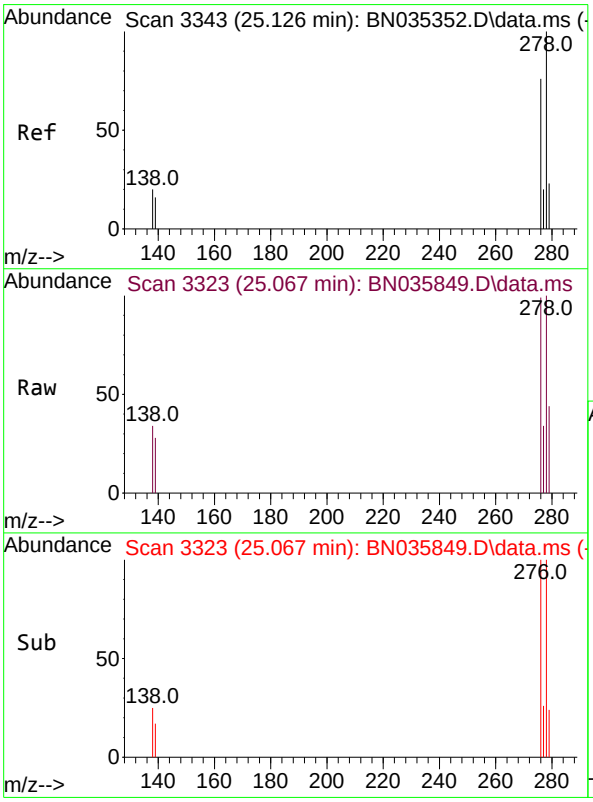
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 46.7 | 20.2 | 30.4# |
| 125 | 36.4 | 10.9 | 16.3# |




**Instrument :**
BNA_N
**ClientSampleId :**
TT205S1-20241218

**Manual Integrations**
**APPROVED**

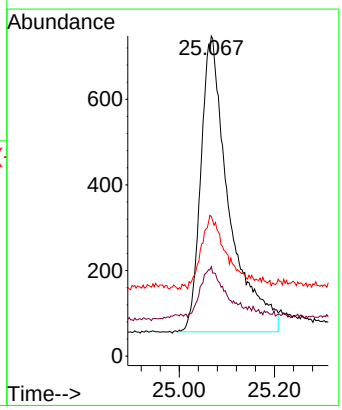
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

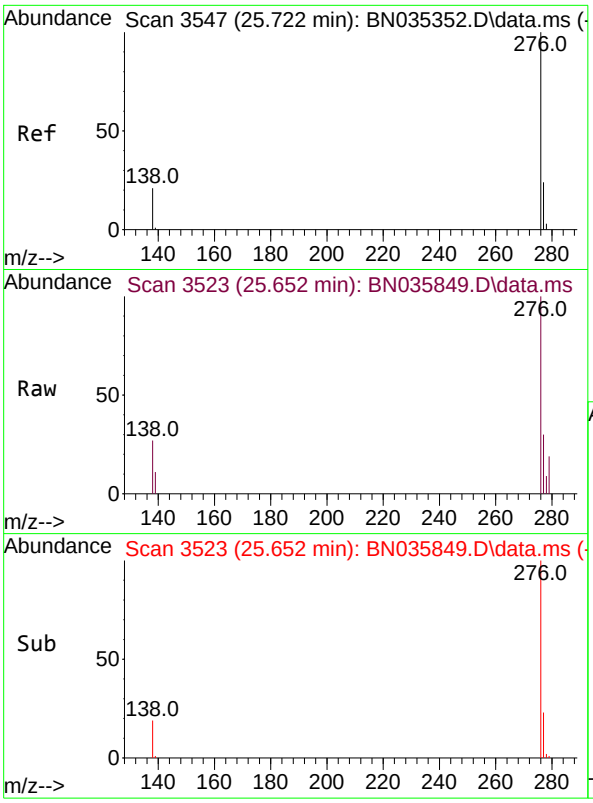



#40
Dibenzo(a,h)anthracene
Concen: 0.118 ng
RT: 25.067 min Scan# 3323
Delta R.T. -0.015 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

Tgt Ion:278 Resp: 2834

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 27.9 | 14.2 | 21.4# |
| 279 | 43.6 | 20.5 | 30.7# |

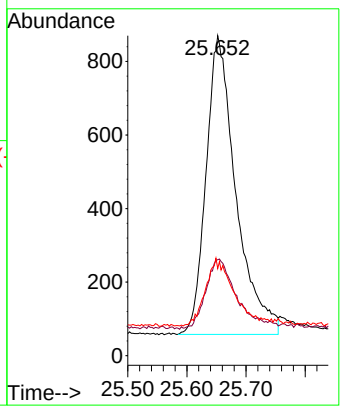





#41
Benzo(g,h,i)perylene
Concen: 0.113 ng
RT: 25.652 min Scan# 3
Delta R.T. -0.026 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

Tgt Ion:276 Resp: 284

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 30.0 | 19.9 | 29.9# |
| 138 | 27.2 | 17.8 | 26.8# |




**Instrument :**
BNA_N
**ClientSampleId :**
TT205S1-20241218

**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | AECOM Technical Services, Inc. | Date Collected: | 12/18/24 |
| Project: | NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258 | Date Received: | 12/20/24 |
| Client Sample ID: | TT150S1-20241218 | SDG No.: | P5376 |
| Lab Sample ID: | P5376-02 | Matrix: | Water |
| Analytical Method: | SW8270ESIM | % Solid: | 0 |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-SIMGroup1 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BN035815.D | 1 | 12/23/24 13:29 | 12/24/24 11:21 | PB165828 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 123-91-1 | 1,4-Dioxane | 0.24 | | 0.070 | 0.20 | 0.20 | ug/L |
| **SURROGATES** | | | | | | | |
| 7297-45-2 | 2-Methylnaphthalene-d10 | 0.34 | | 30 - 150 | | 84% | SPK: 0.4 |
| 93951-69-0 | Fluoranthene-d10 | 0.39 | | 30 - 150 | | 98% | SPK: 0.4 |
| 4165-60-0 | Nitrobenzene-d5 | 0.41 | | 55 - 111 | | 101% | SPK: 0.4 |
| 321-60-8 | 2-Fluorobiphenyl | 0.37 | | 53 - 106 | | 93% | SPK: 0.4 |
| 1718-51-0 | Terphenyl-d14 | 0.54 | * | 58 - 132 | | 134% | SPK: 0.4 |
| **INTERNAL STANDARDS** | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 3150 | 7.264 | | | | |
| 1146-65-2 | Naphthalene-d8 | 7090 | 10.009 | | | | |
| 15067-26-2 | Acenaphthene-d10 | 4330 | 13.925 | | | | |
| 1517-22-2 | Phenanthrene-d10 | 8130 | 16.698 | | | | |
| 1719-03-5 | Chrysene-d12 | 6730 | 20.947 | | | | |
| 1520-96-3 | Perylene-d12 | 6590 | 23.029 | | | | |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035815.D
Acq On : 24 Dec 2024 11:21
Operator : RC/JU
Sample : P5376-02
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 24 23:17:07 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

**Instrument :**
BNA_N
**ClientSampleId :**
TT150S1-20241218

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.264 | 152 | 3146 | 0.400 | ng | 0.00 |
| 7) Naphthalene-d8 | 10.009 | 136 | 7086 | 0.400 | ng | -0.01 |
| 13) Acenaphthene-d10 | 13.925 | 164 | 4334 | 0.400 | ng | -0.01 |
| 19) Phenanthrene-d10 | 16.698 | 188 | 8132 | 0.400 | ng | # 0.00 |
| 29) Chrysene-d12 | 20.947 | 240 | 6728 | 0.400 | ng | # 0.00 |
| 35) Perylene-d12 | 23.029 | 264 | 6588 | 0.400 | ng | #-0.01 |
| **System Monitoring Compounds** | | | | | | |
| 4) 2-Fluorophenol | 4.924 | 112 | 783 | 0.099 | ng | -0.01 |
| 5) Phenol-d6 | 6.477 | 99 | 425 | 0.045 | ng | -0.01 |
| 8) Nitrobenzene-d5 | 8.408 | 82 | 1751m | 0.405 | ng | 0.00 |
| 11) 2-Methylnaphthalene-d10 | 11.616 | 152 | 3733 | 0.337 | ng | 0.00 |
| 14) 2,4,6-Tribromophenol | 15.453 | 330 | 558 | 0.181 | ng | 0.00 |
| 15) 2-Fluorobiphenyl | 12.539 | 172 | 6086 | 0.371 | ng | 0.00 |
| 27) Fluoranthene-d10 | 18.747 | 212 | 9081 | 0.394 | ng | -0.01 |
| 31) Terphenyl-d14 | 19.379 | 244 | 7115 | 0.536 | ng | 0.00 |
| **Target Compounds** | | | | | | Qvalue |
| 2) 1,4-Dioxane | 2.982 | 88 | 735 | 0.244 | ng | 91 |
| 9) Naphthalene | 10.052 | 128 | 3064 | 0.164 | ng | # 93 |
| 12) 2-Methylnaphthalene | 11.697 | 142 | 1938 | 0.145 | ng | # 95 |
| 16) Acenaphthylene | 13.636 | 152 | 3133 | 0.172 | ng | 98 |
| 17) Acenaphthene | 13.989 | 154 | 1954 | 0.162 | ng | 96 |
| 18) Fluorene | 14.994 | 166 | 2543 | 0.147 | ng | 99 |
| 25) Phenanthrene | 16.736 | 178 | 4749 | 0.213 | ng | 99 |
| 26) Anthracene | 16.835 | 178 | 3615 | 0.179 | ng | 99 |
| 28) Fluoranthene | 18.780 | 202 | 5217 | 0.173 | ng | 100 |
| 30) Pyrene | 19.147 | 202 | 5398 | 0.217 | ng | 99 |
| 32) Benzo(a)anthracene | 20.929 | 228 | 3164 | 0.134 | ng | 96 |
| 33) Chrysene | 20.983 | 228 | 4527 | 0.187 | ng | 97 |
| 34) Bis(2-ethylhexyl)phtha... | 20.893 | 149 | 357 | 0.038 | ng | # 98 |
| 36) Indeno(1,2,3-cd)pyrene | 25.058 | 276 | 2949 | 0.115 | ng | 96 |
| 37) Benzo(b)fluoranthene | 22.421 | 252 | 4545 | 0.189 | ng | # 72 |
| 38) Benzo(k)fluoranthene | 22.465 | 252 | 3529 | 0.149 | ng | # 71 |
| 39) Benzo(a)pyrene | 22.945 | 252 | 2673 | 0.135 | ng | # 51 |
| 40) Dibenzo(a,h)anthracene | 25.082 | 278 | 2170 | 0.107 | ng | # 55 |
| 41) Benzo(g,h,i)perylene | 25.672 | 276 | 2390 | 0.113 | ng | # 83 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

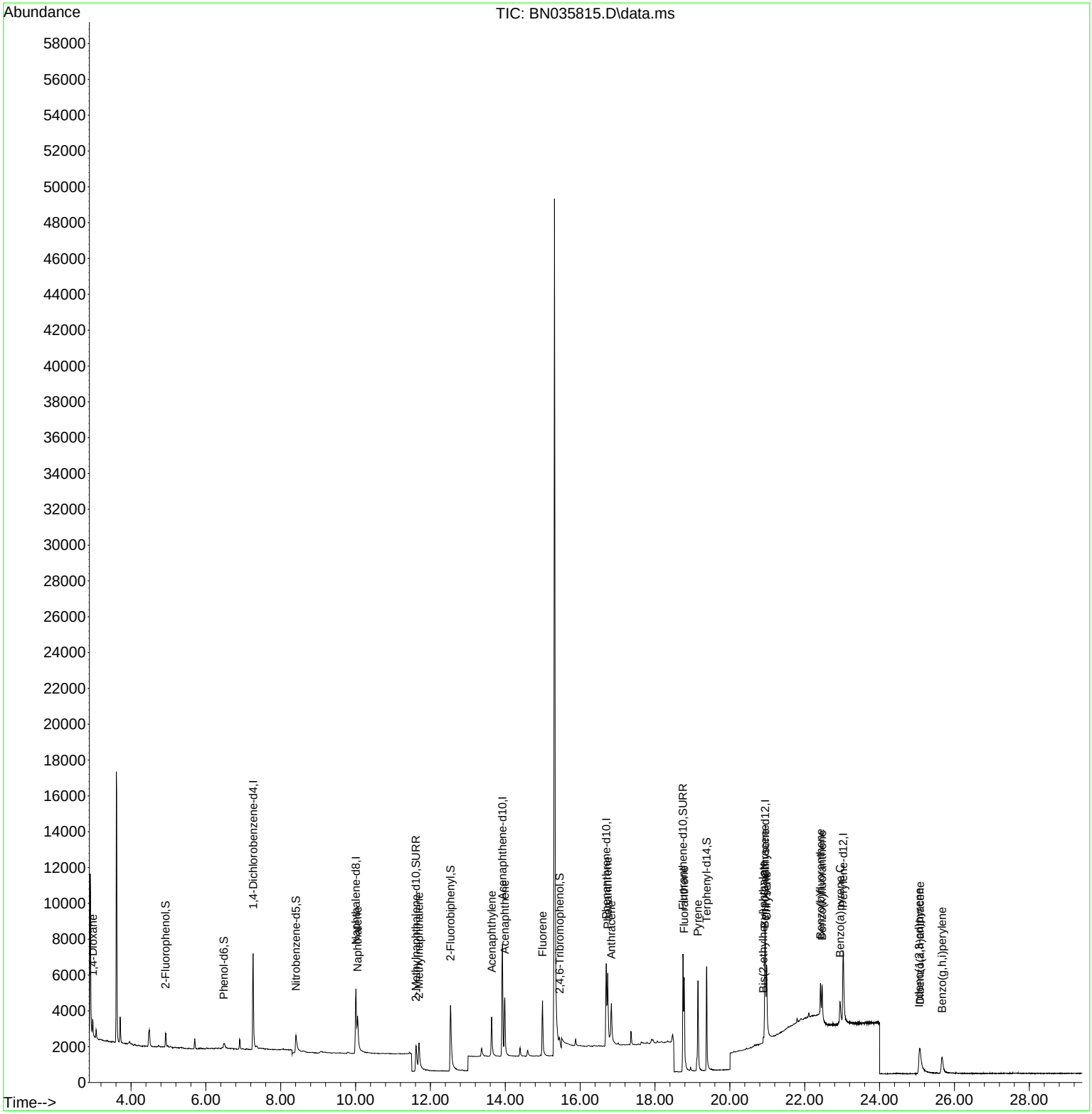
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035815.D
Acq On : 24 Dec 2024 11:21
Operator : RC/JU
Sample : P5376-02
Misc :
ALS Vial : 6 Sample Multiplier: 1

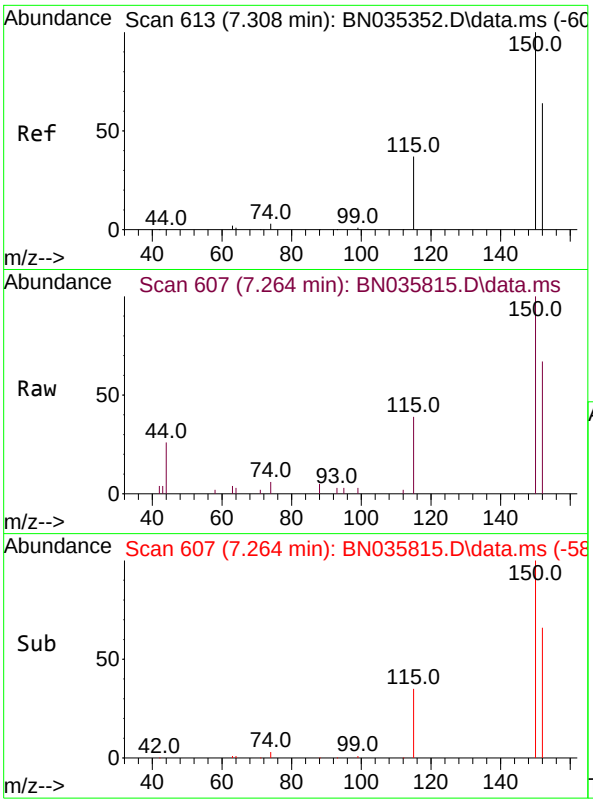
Quant Time: Dec 24 23:17:07 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

**Instrument :**
BNA_N
**ClientSampleId :**
TT150S1-20241218

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

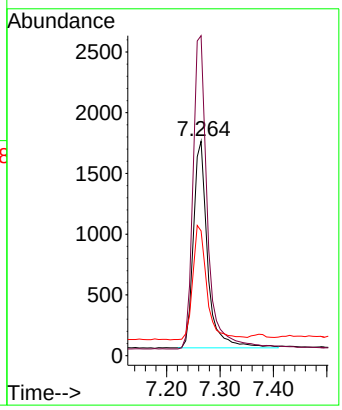





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.264 min Scan# 6(
Delta R.T. -0.008 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

Tgt Ion:152 Resp: 314(

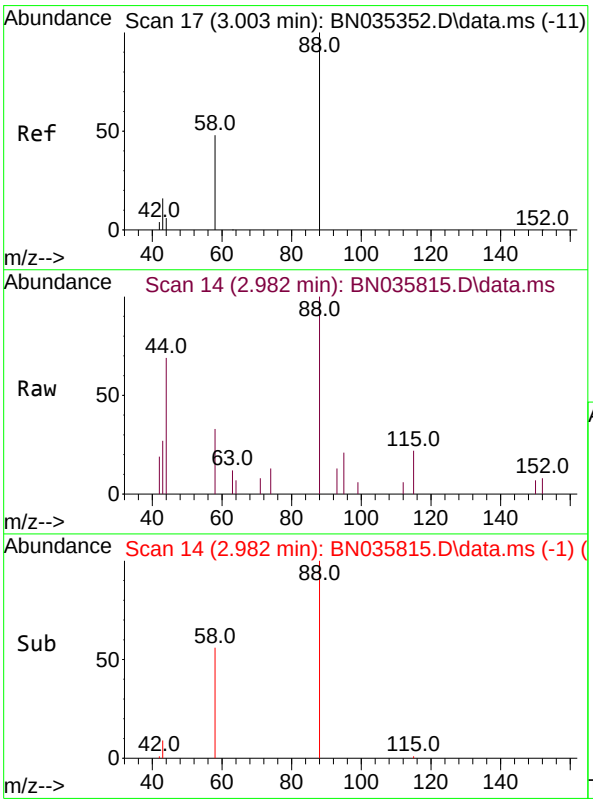
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 149.2 | 124.0 | 186.0 |
| 115 | 58.2 | 49.6 | 74.4 |




**Instrument :**
BNA_N
**ClientSampleId :**
TT150S1-20241218

**Manual Integrations**
**APPROVED**

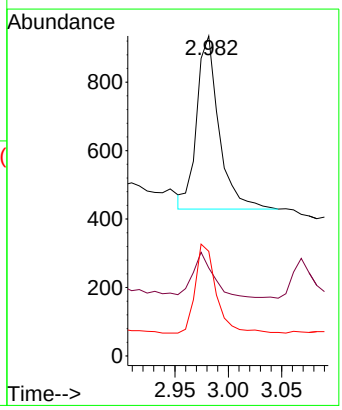
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

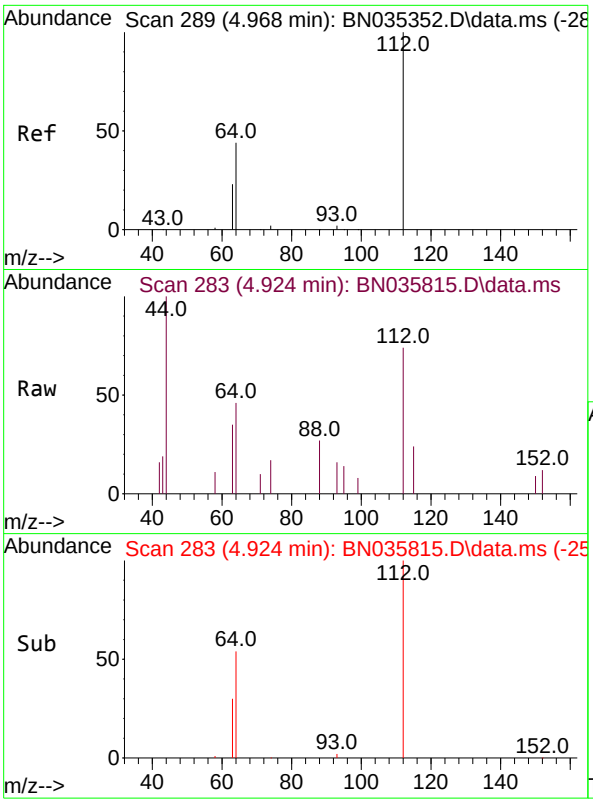



#2
1,4-Dioxane
Concen: 0.244 ng
RT: 2.982 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

Tgt Ion: 88 Resp: 735

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 23.5 | 17.2 | 25.8 |
| 58 | 48.2 | 44.5 | 66.7 |






#4
2-Fluorophenol
Concen: 0.099 ng
RT: 4.924 min Scan# 2
Delta R.T. -0.015 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

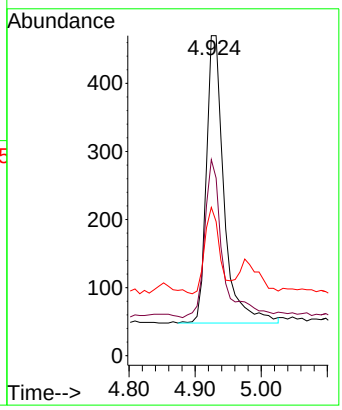
Tgt Ion:112 Resp: 78

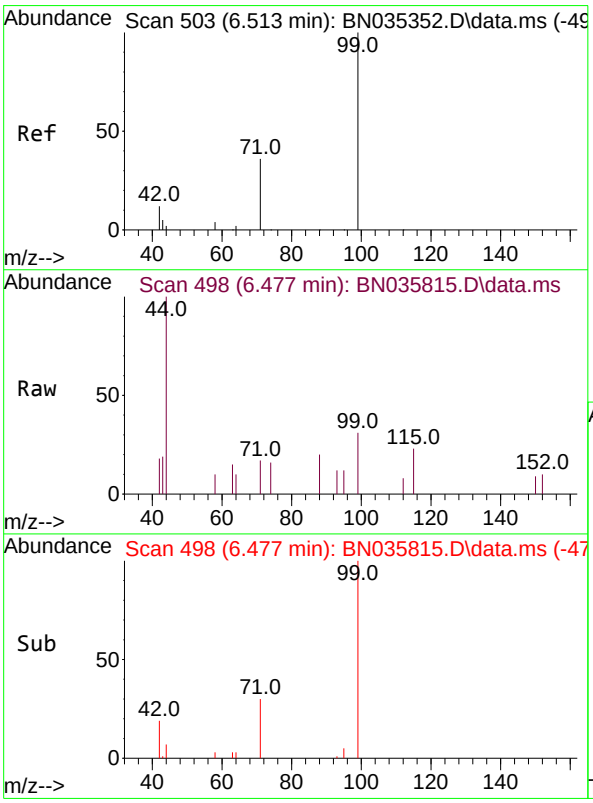
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 55.9 | 39.8 | 59.8 |
| 63 | 25.3 | 21.0 | 31.6 |

**Instrument :**
BNA_N
**ClientSampleId :**
TT150S1-20241218

**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

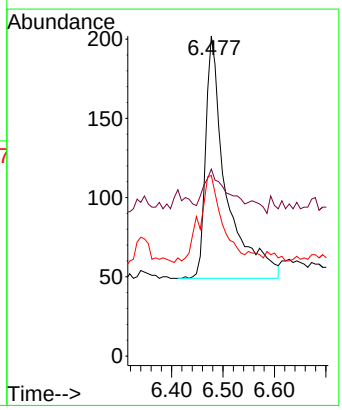


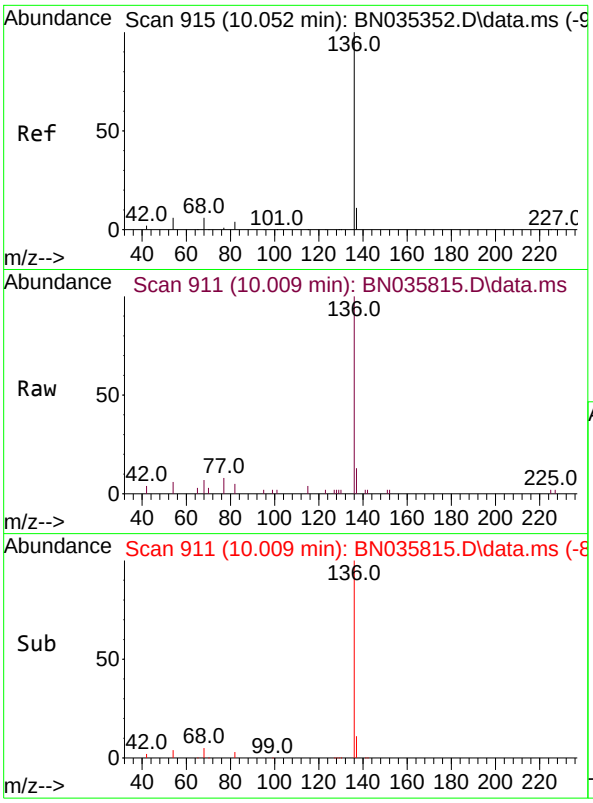




#5
Phenol-d6
Concen: 0.045 ng
RT: 6.477 min Scan# 498
Delta R.T. -0.015 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

Tgt Ion: 99 Resp: 425

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 14.4 | 11.4 | 17.2 |
| 71 | 40.0 | 29.3 | 43.9 |

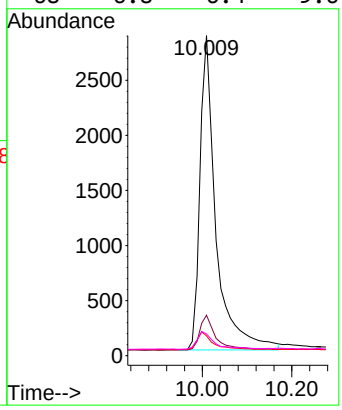





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

Tgt Ion:136 Resp: 708

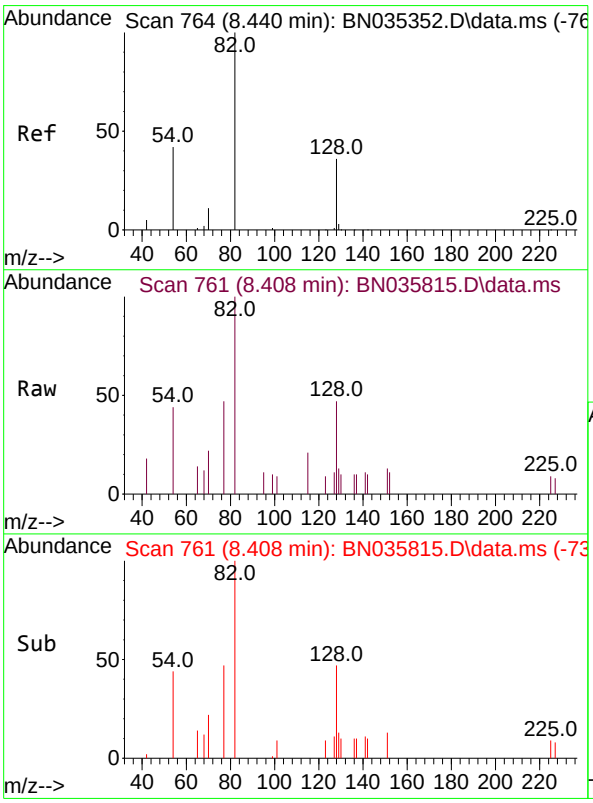
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 12.7 | 10.2 | 15.2 |
| 54 | 6.2 | 6.1 | 9.1 |
| 68 | 6.8 | 6.4 | 9.6 |




**Instrument :**
BNA_N
**ClientSampleId :**
TT150S1-20241218

**Manual Integrations**
**APPROVED**

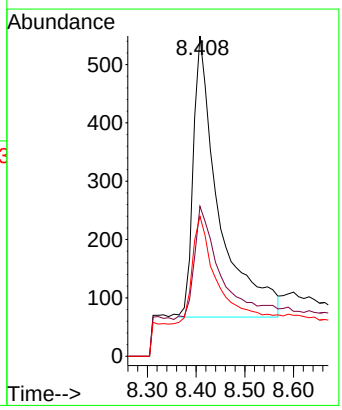
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

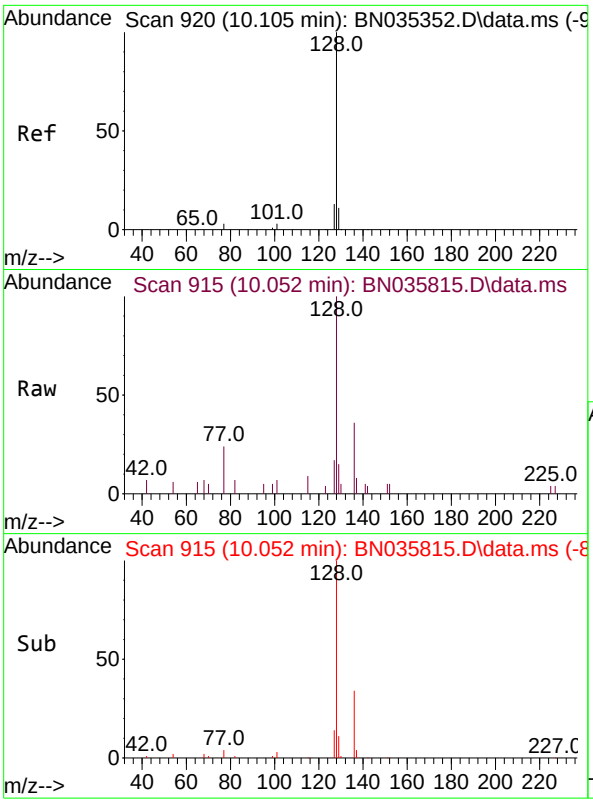



#8
Nitrobenzene-d5
Concen: 0.405 ng m
RT: 8.408 min Scan# 761
Delta R.T. -0.000 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

Tgt Ion: 82 Resp: 1751

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 46.8 | 33.4 | 50.0 |
| 54 | 43.7 | 36.7 | 55.1 |

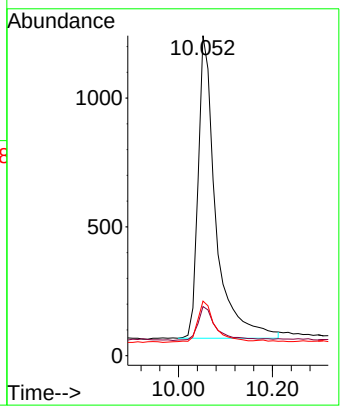





#9
Naphthalene
Concen: 0.164 ng
RT: 10.052 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

Tgt Ion:128 Resp: 306

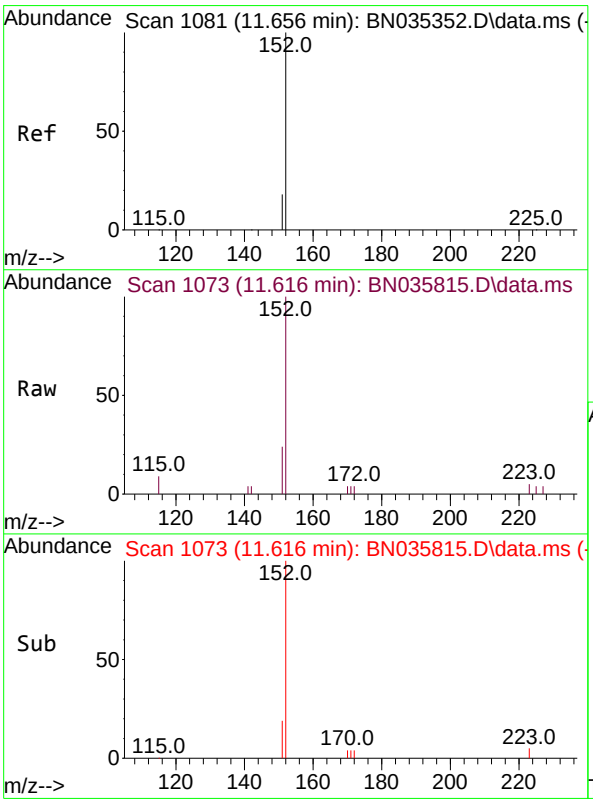
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 15.4 | 9.8 | 14.6 |
| 127 | 17.1 | 11.4 | 17.2 |




**Instrument :**
BNA_N
**ClientSampleId :**
TT150S1-20241218

**Manual Integrations**
**APPROVED**

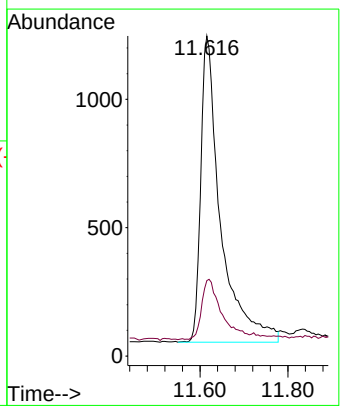
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

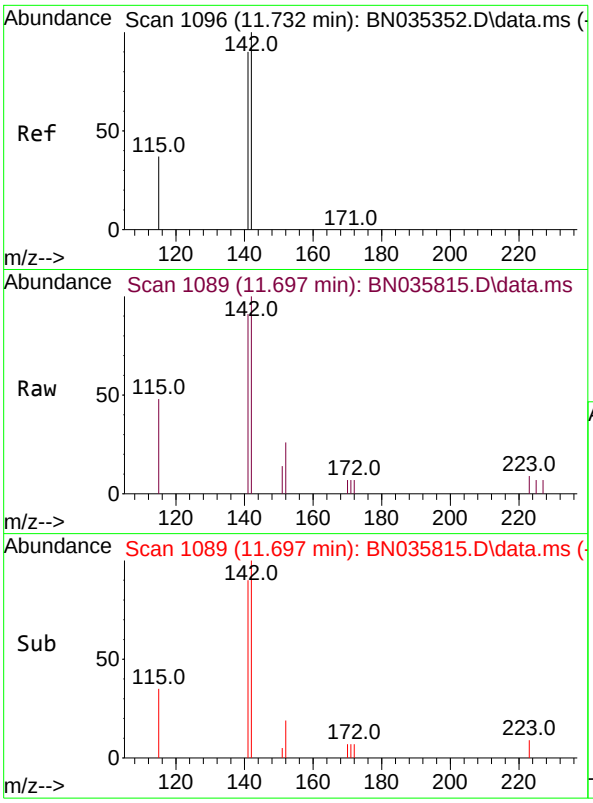



#11
2-Methylnaphthalene-d10
Concen: 0.337 ng
RT: 11.616 min Scan# 1073
Delta R.T. -0.005 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

Tgt Ion:152 Resp: 3733

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 19.6 | 16.6 | 25.0 |

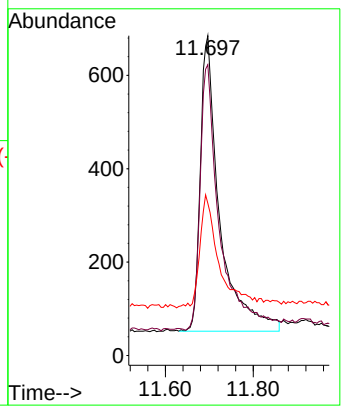





#12
2-Methylnaphthalene
Concen: 0.145 ng
RT: 11.697 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

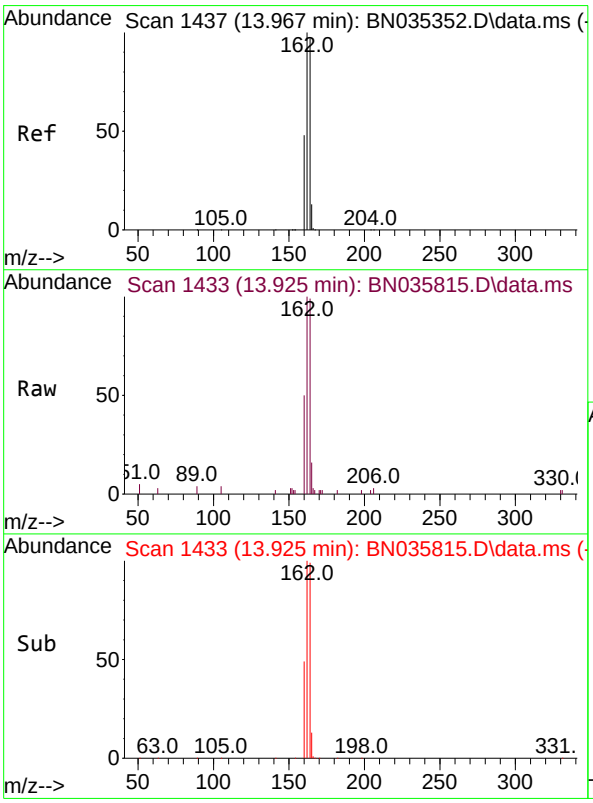
Tgt Ion:142 Resp: 193

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 90.9 | 72.2 | 108.4 |
| 115 | 47.6 | 31.4 | 47.0 |




**Instrument :**
BNA_N
**ClientSampleId :**
TT150S1-20241218

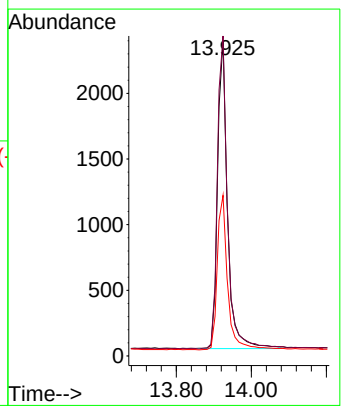
**Manual Integrations**
**APPROVED**
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

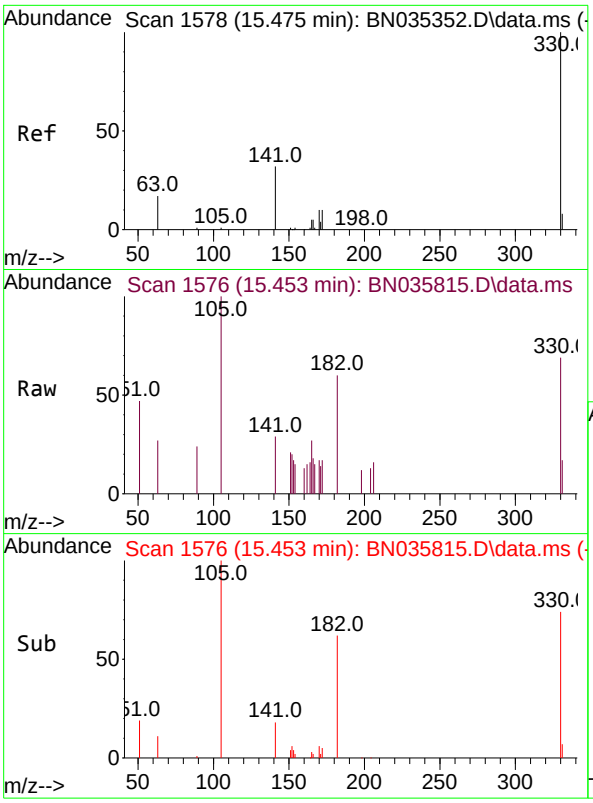



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.925 min Scan# 1433
Delta R.T. -0.011 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

Tgt Ion:164 Resp: 4334

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 101.3 | 82.2 | 123.2 |
| 160 | 50.9 | 40.1 | 60.1 |

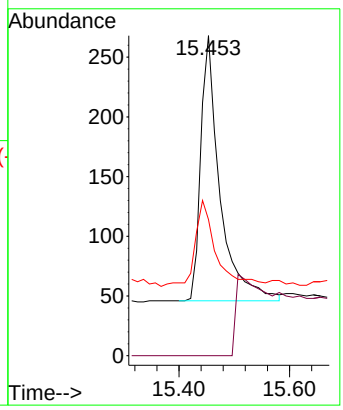





#14
2,4,6-Tribromophenol
Concen: 0.181 ng
RT: 15.453 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

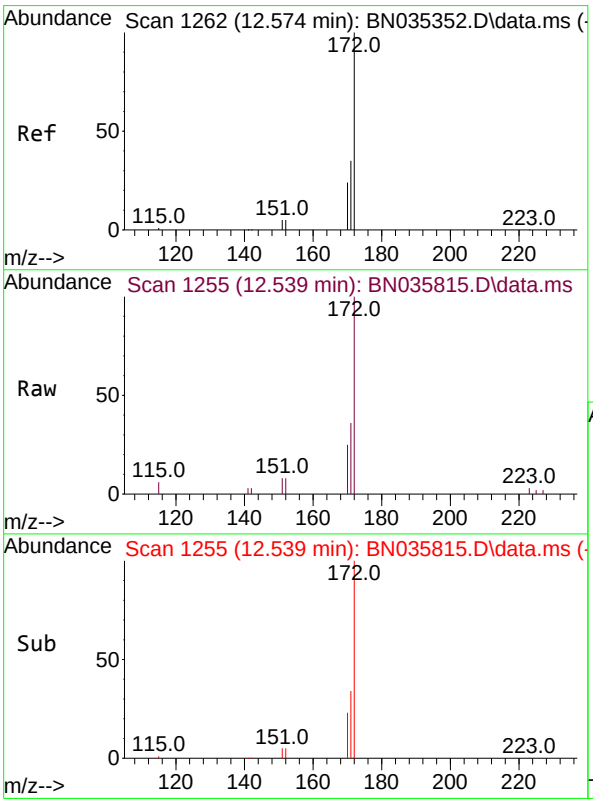
Tgt Ion:330 Resp: 55

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 0.0 | 0.0 | 0.0 |
| 141 | 35.7 | 26.6 | 40.0 |




**Instrument :**
BNA_N
**ClientSampleId :**
TT150S1-20241218

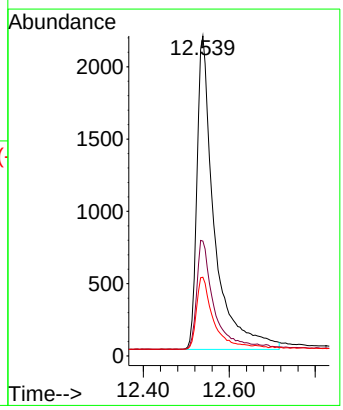
**Manual Integrations**
**APPROVED**
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

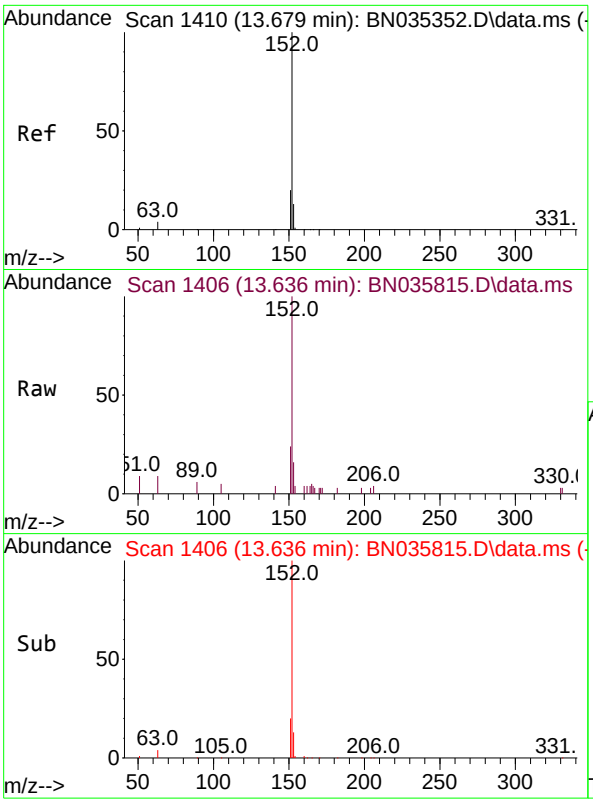



#15
2-Fluorobiphenyl
Concen: 0.371 ng
RT: 12.539 min Scan# 1255
Delta R.T. -0.005 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

Tgt Ion:172 Resp: 6086

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 35.9 | 29.0 | 43.4 |
| 170 | 24.6 | 19.8 | 29.8 |

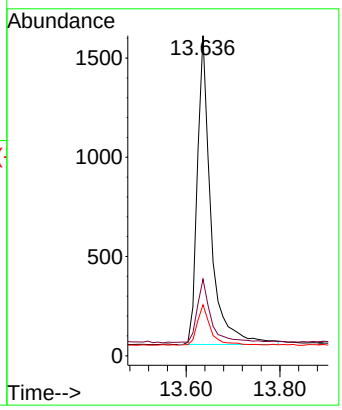





#16
Acenaphthylene
Concen: 0.172 ng
RT: 13.636 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

Tgt Ion:152 Resp: 313

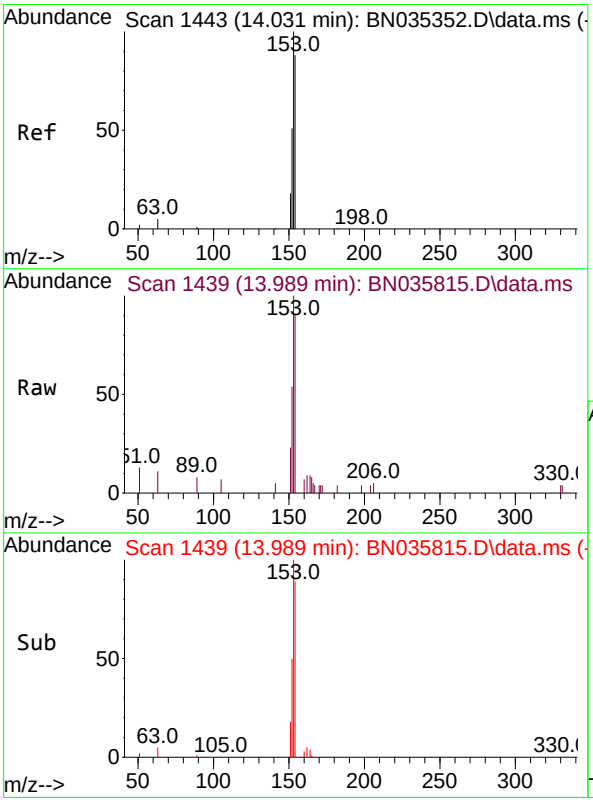
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 21.5 | 16.2 | 24.2 |
| 153 | 12.7 | 10.4 | 15.6 |




**Instrument :**
BNA_N
**ClientSampleId :**
TT150S1-20241218

**Manual Integrations**
**APPROVED**

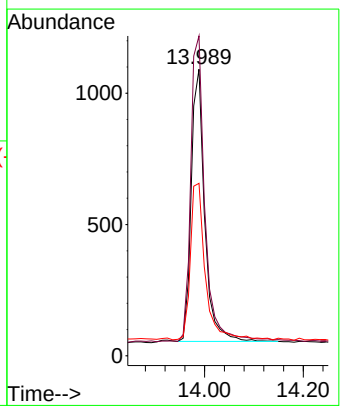
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

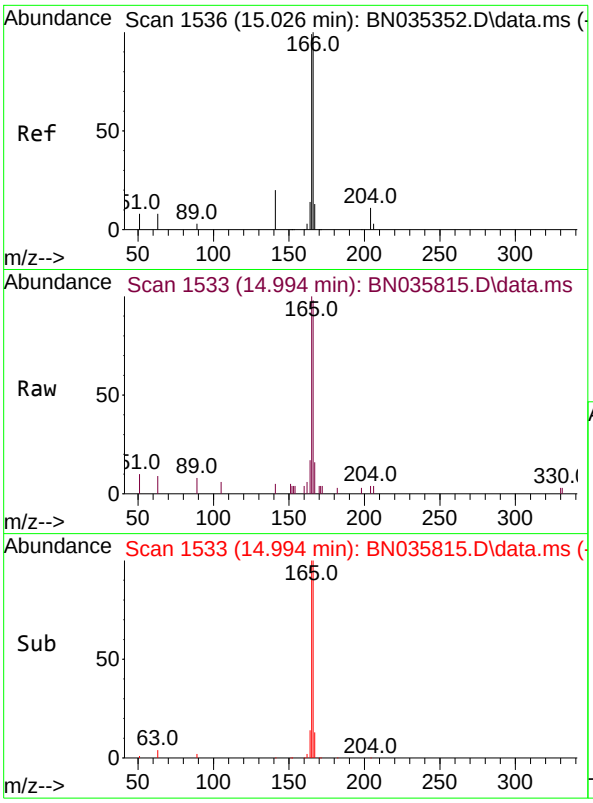



#17
Acenaphthene
Concen: 0.162 ng
RT: 13.989 min Scan# 1439
Delta R.T. -0.011 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

Tgt Ion:154 Resp: 1954

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 119.7 | 92.6 | 139.0 |
| 152 | 64.0 | 49.0 | 73.6 |

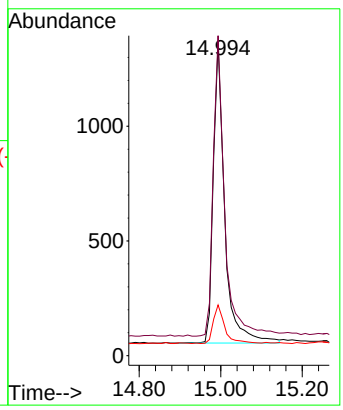





#18
Fluorene
Concen: 0.147 ng
RT: 14.994 min Scan# 1
Delta R.T. -0.011 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

Tgt Ion:166 Resp: 254

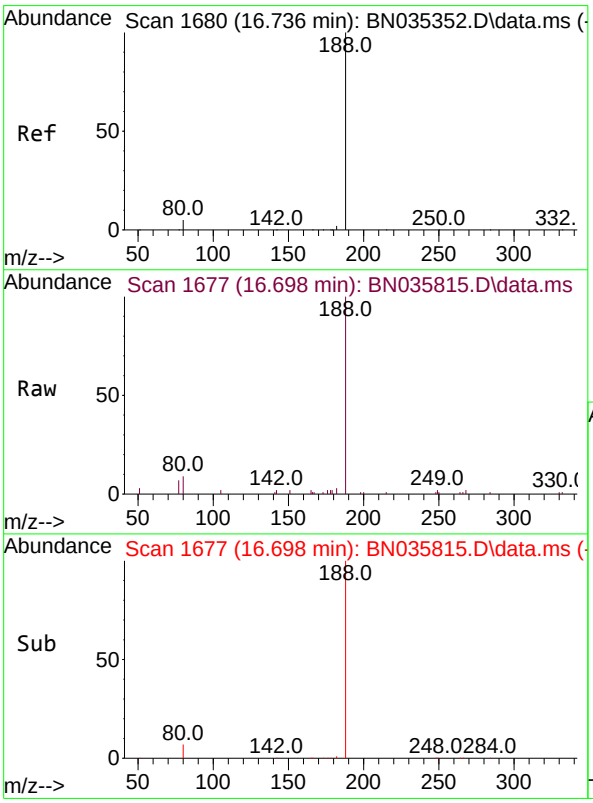
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 100.0 | 79.7 | 119.5 |
| 167 | 12.9 | 10.8 | 16.2 |




**Instrument :**
BNA_N
**ClientSampleId :**
TT150S1-20241218

**Manual Integrations**
**APPROVED**

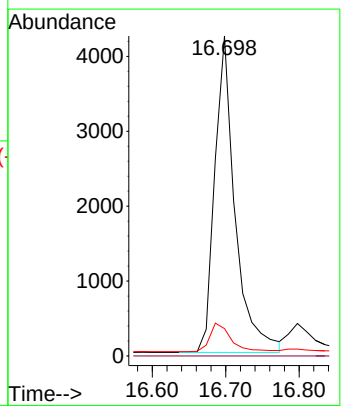
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

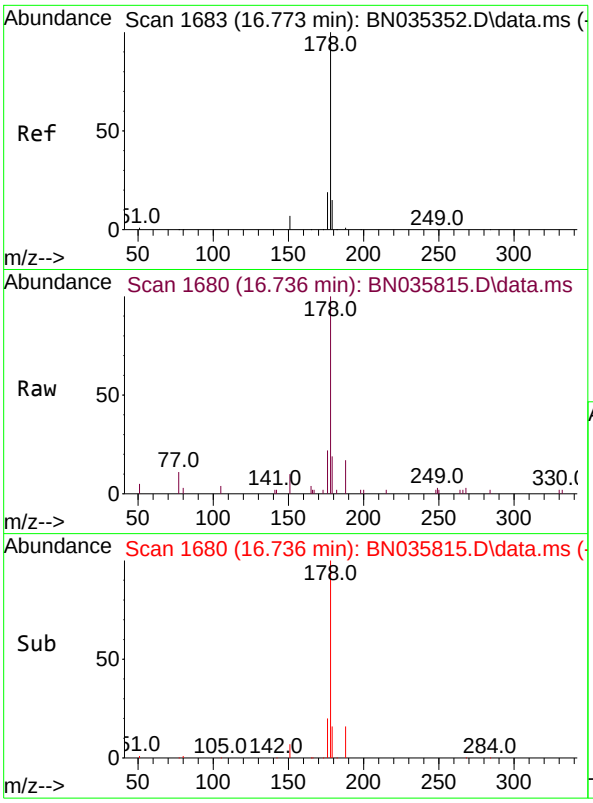



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1677
Delta R.T. -0.000 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

Tgt Ion:188 Resp: 8132

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 8.6 | 4.6 | 6.8# |

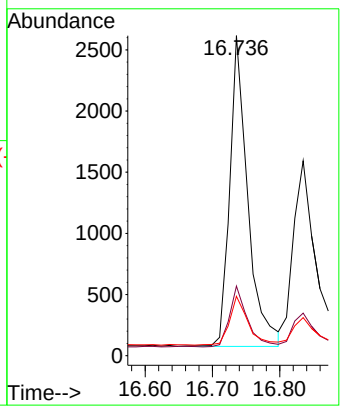





#25
Phenanthrene
Concen: 0.213 ng
RT: 16.736 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

Tgt Ion:178 Resp: 474

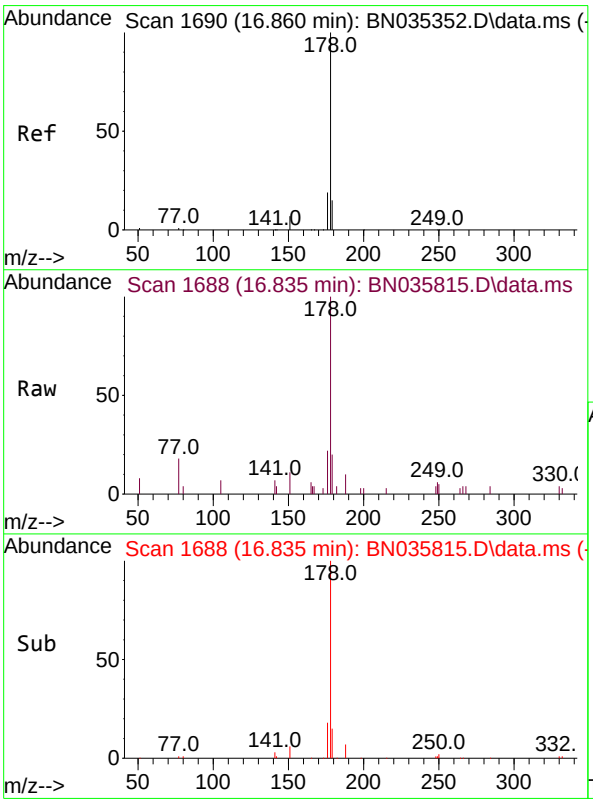
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.4 | 15.4 | 23.2 |
| 179 | 16.1 | 12.3 | 18.5 |




**Instrument :**
BNA_N
**ClientSampleId :**
TT150S1-20241218

**Manual Integrations**
**APPROVED**

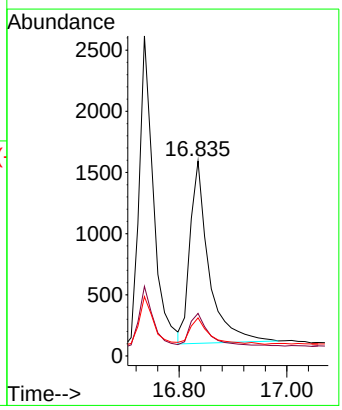
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

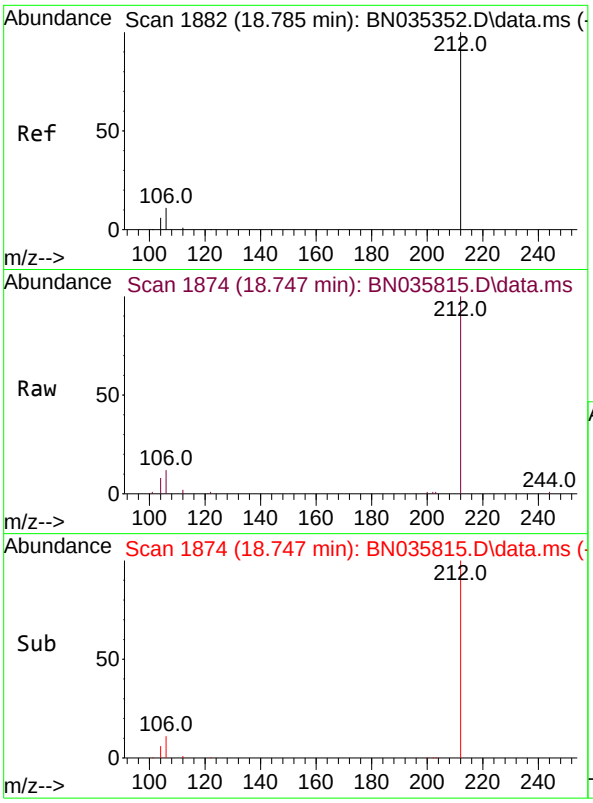



#26
Anthracene
Concen: 0.179 ng
RT: 16.835 min Scan# 1688
Delta R.T. -0.000 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

Tgt Ion:178 Resp: 3615

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.6 | 15.0 | 22.6 |
| 179 | 15.4 | 12.6 | 18.8 |

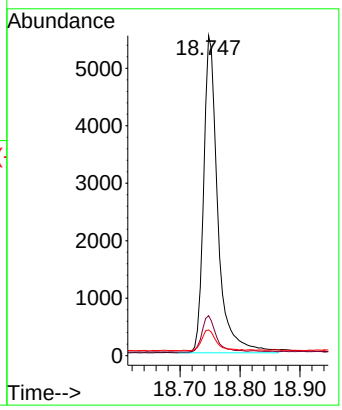





#27
Fluoranthene-d10
Concen: 0.394 ng
RT: 18.747 min Scan# 1
Delta R.T. -0.014 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

Tgt Ion:212 Resp: 908

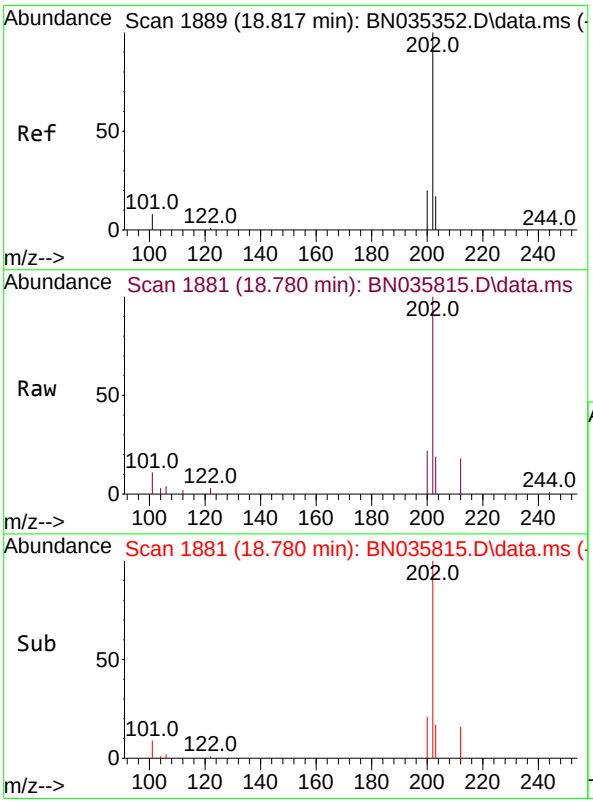
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 11.4 | 9.2 | 13.8 |
| 104 | 6.7 | 5.3 | 7.9 |




**Instrument :**
BNA_N
**ClientSampleId :**
TT150S1-20241218

**Manual Integrations**
**APPROVED**

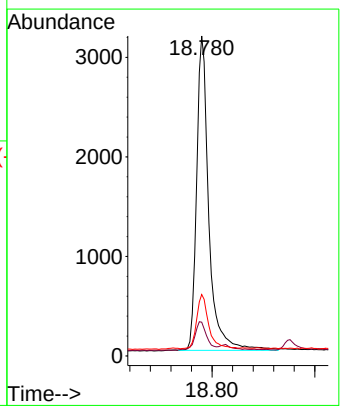
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

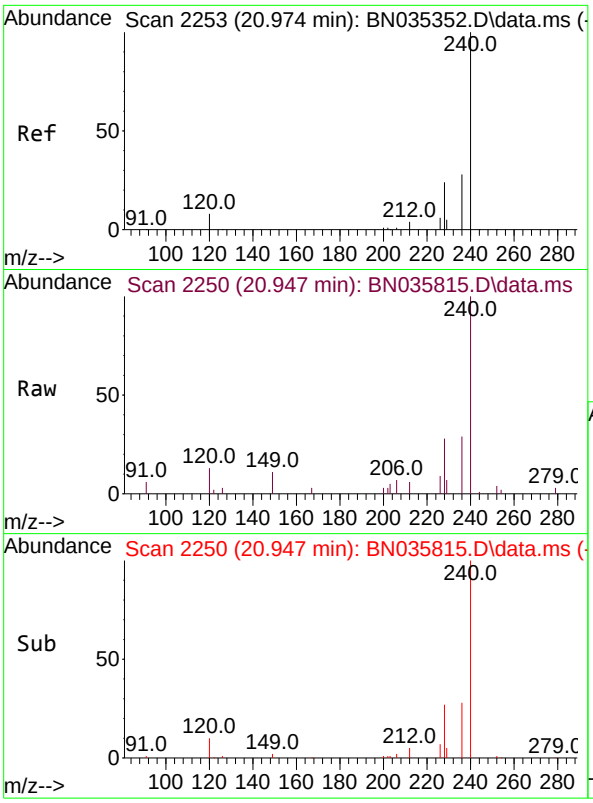



#28
Fluoranthene
Concen: 0.173 ng
RT: 18.780 min Scan# 1881
Delta R.T. -0.009 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

Tgt Ion:202 Resp: 5217

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 8.8 | 7.4 | 11.0 |
| 203 | 17.1 | 13.7 | 20.5 |

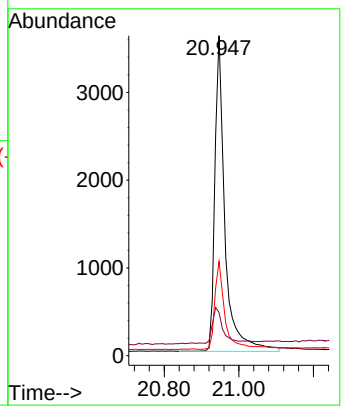





#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

Tgt Ion:240 Resp: 672

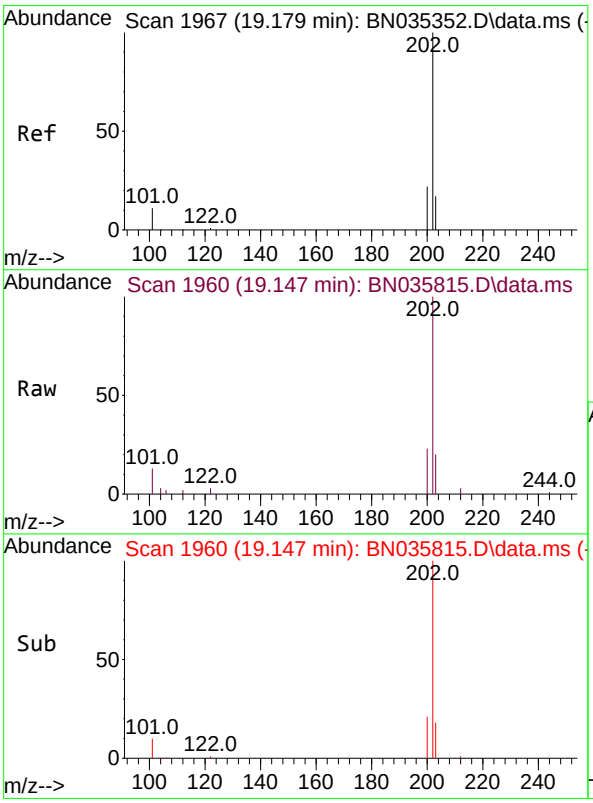
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 13.5 | 7.9 | 11.9 |
| 236 | 29.4 | 22.9 | 34.3 |




**Instrument :**
BNA_N
**ClientSampleId :**
TT150S1-20241218

**Manual Integrations APPROVED**

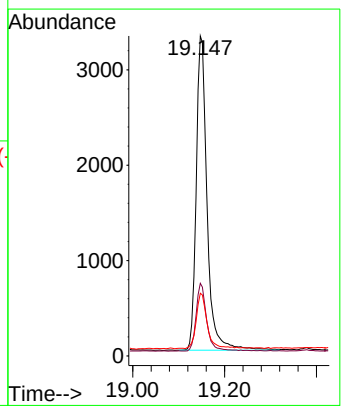
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

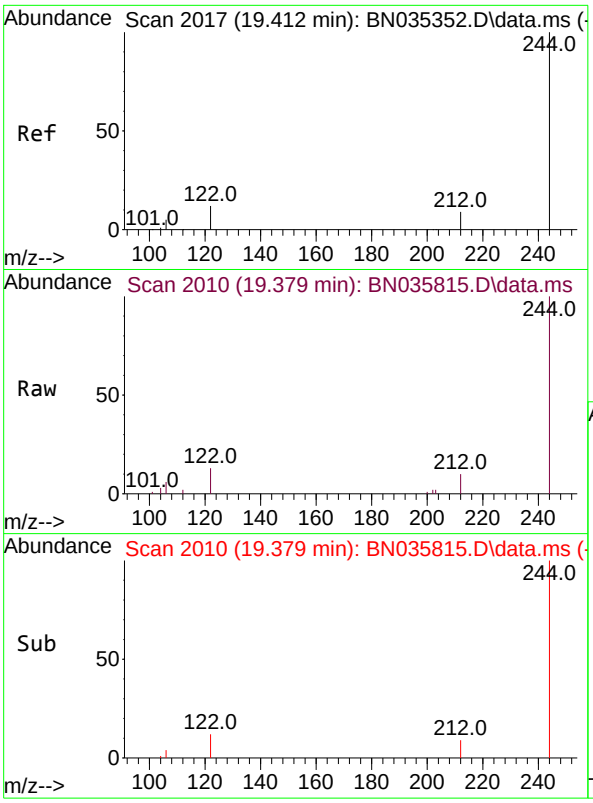



#30
Pyrene
Concen: 0.217 ng
RT: 19.147 min Scan# 1960
Delta R.T. -0.014 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

Tgt Ion:202 Resp: 5398

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 20.8 | 17.0 | 25.4 |
| 203 | 18.3 | 14.3 | 21.5 |

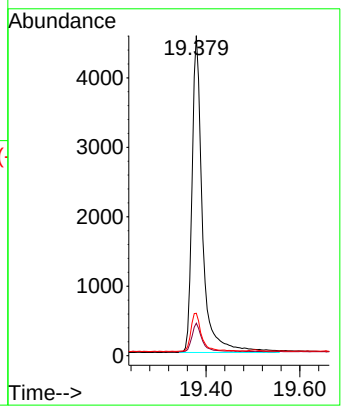





#31
Terphenyl-d14
Concen: 0.536 ng
RT: 19.379 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

Tgt Ion:244 Resp: 711

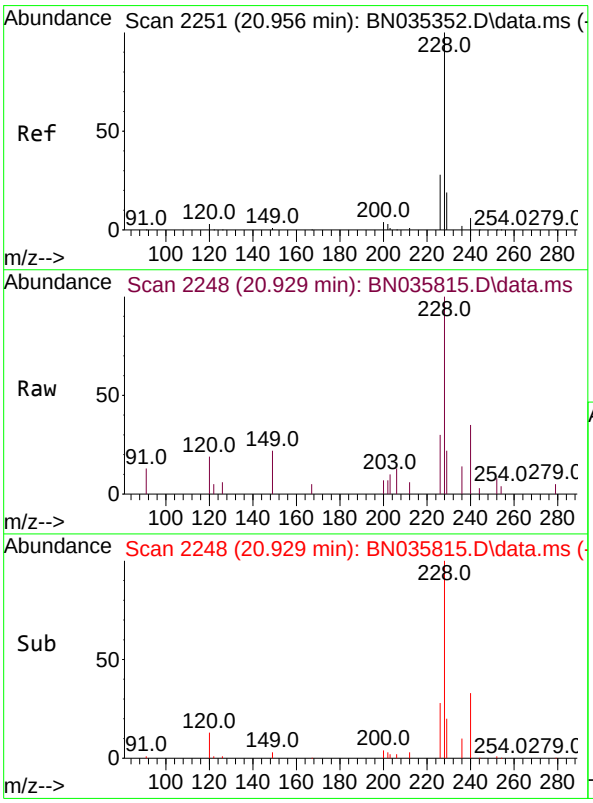
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 10.1 | 8.1 | 12.1 |
| 122 | 13.2 | 10.3 | 15.5 |




**Instrument :**
BNA_N
**ClientSampleId :**
TT150S1-20241218

**Manual Integrations APPROVED**

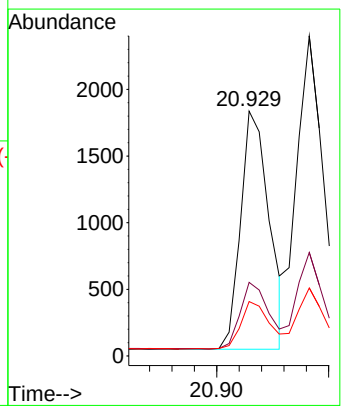
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

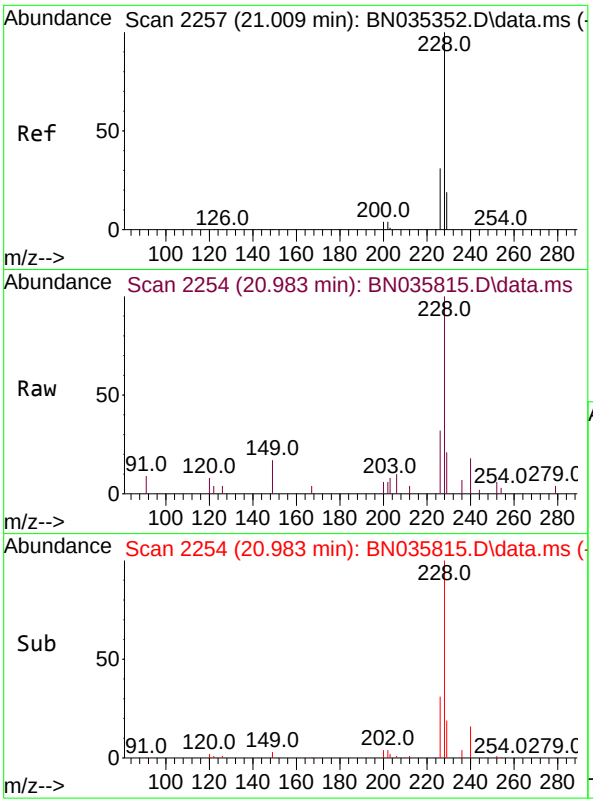



#32
Benzo(a)anthracene
Concen: 0.134 ng
RT: 20.929 min Scan# 2248
Delta R.T. -0.009 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

Tgt Ion:228 Resp: 3164

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 30.0 | 22.5 | 33.7 |
| 229 | 22.2 | 15.8 | 23.8 |

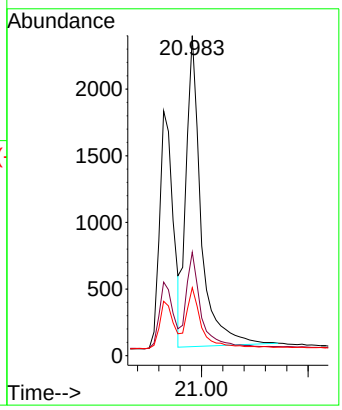





#33
Chrysene
Concen: 0.187 ng
RT: 20.983 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

Tgt Ion:228 Resp: 452

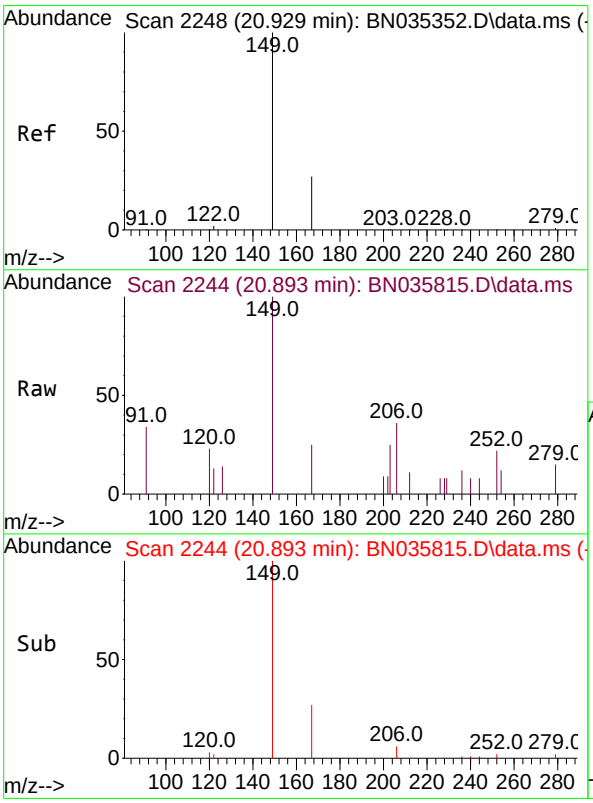
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 32.4 | 24.6 | 37.0 |
| 229 | 21.2 | 15.9 | 23.9 |




**Instrument :**
BNA_N
**ClientSampleId :**
TT150S1-20241218

**Manual Integrations**
**APPROVED**

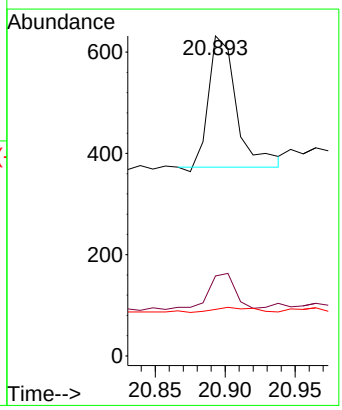
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

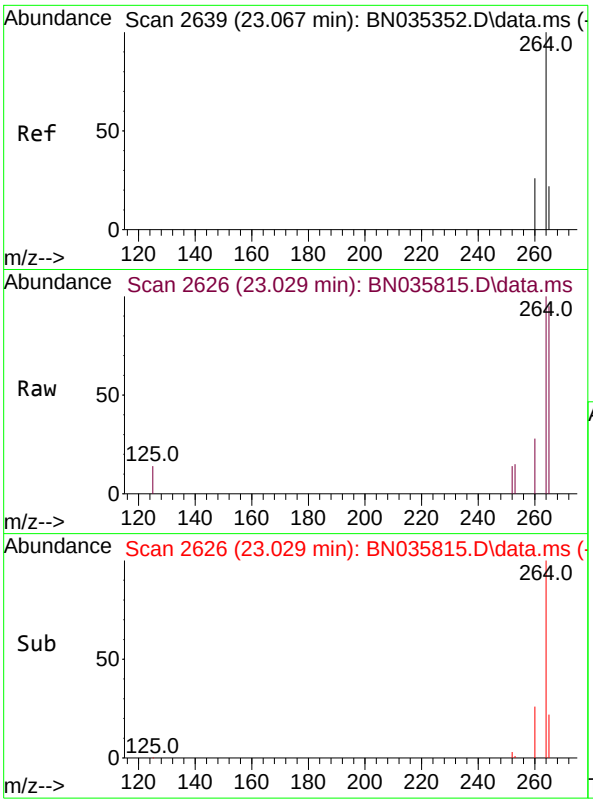



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.038 ng
RT: 20.893 min Scan# 2244
Delta R.T. -0.018 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

Tgt Ion:149 Resp: 357

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 26.9 | 22.2 | 33.4 |
| 279 | 4.5 | 2.7 | 4.1# |

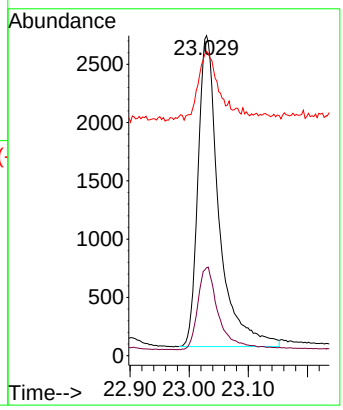





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.029 min Scan# 2
Delta R.T. -0.012 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

Tgt Ion:264 Resp: 658

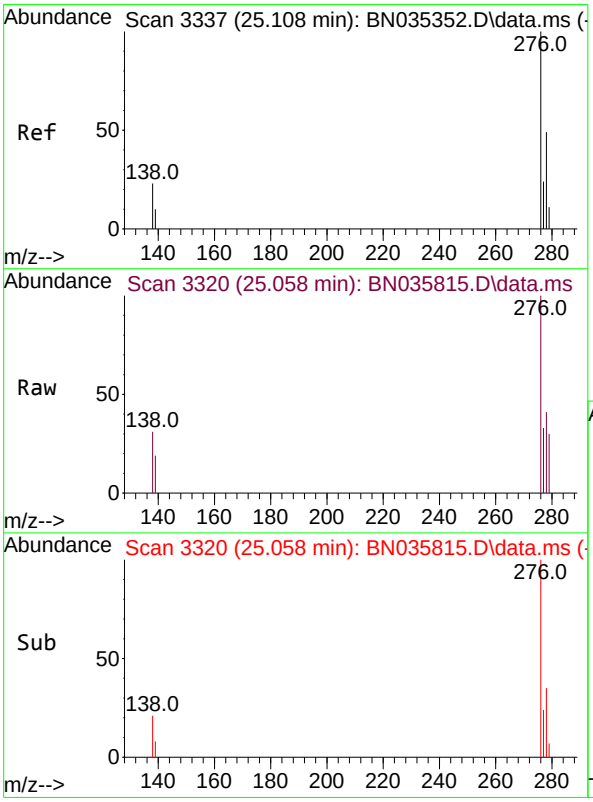
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 27.5 | 21.4 | 32.2 |
| 265 | 95.1 | 40.2 | 60.4 |




**Instrument :**
BNA_N
**ClientSampleId :**
TT150S1-20241218

**Manual Integrations**
**APPROVED**

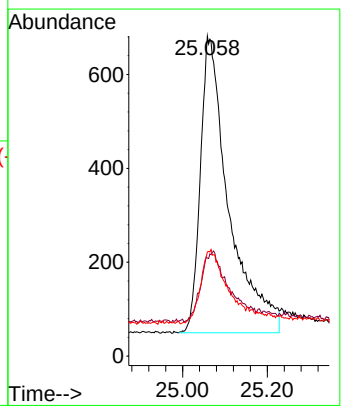
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

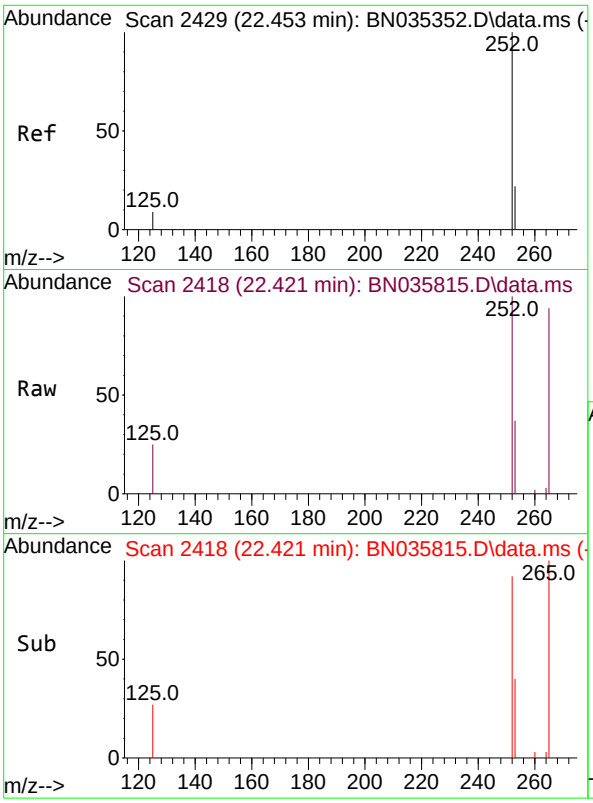



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.115 ng
RT: 25.058 min Scan# 3320
Delta R.T. -0.009 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

Tgt Ion:276 Resp: 2949

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 22.4 | 19.4 | 29.0 |
| 277 | 22.2 | 19.8 | 29.6 |

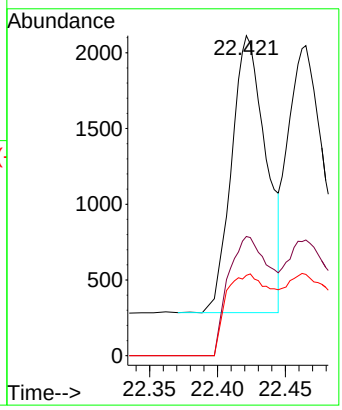





#37
Benzo(b)fluoranthene
Concen: 0.189 ng
RT: 22.421 min Scan# 24
Delta R.T. -0.009 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

Tgt Ion:252 Resp: 454

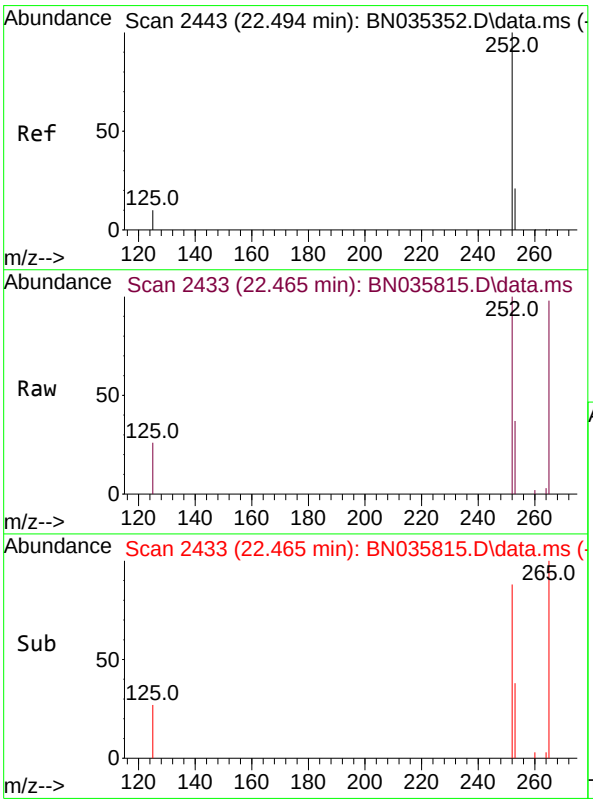
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 37.2 | 19.6 | 29.4# |
| 125 | 25.1 | 9.6 | 14.4# |




**Instrument :**
BNA_N
**ClientSampleId :**
TT150S1-20241218

**Manual Integrations**
**APPROVED**

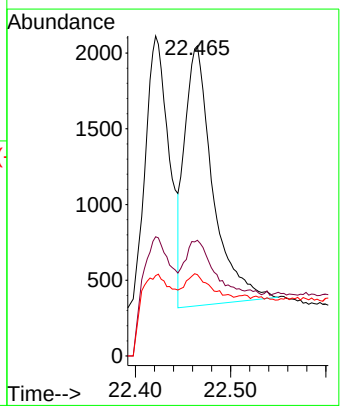
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

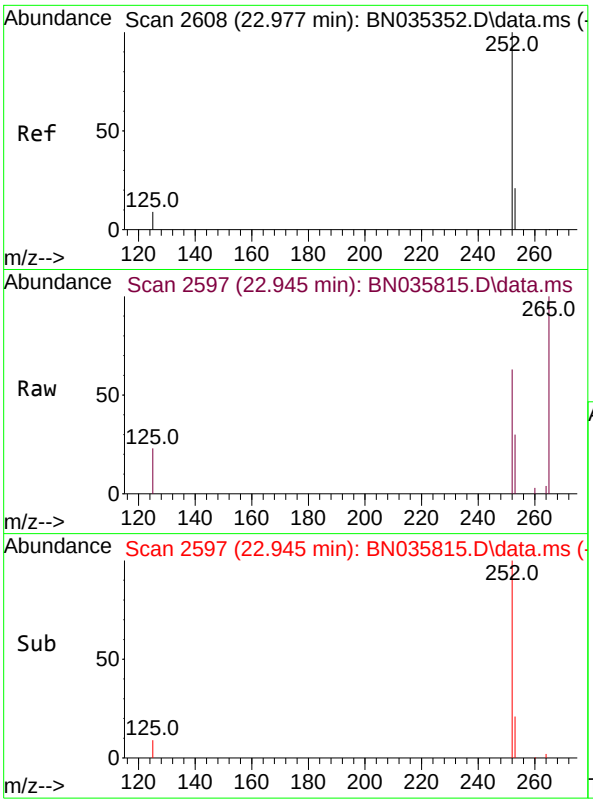



#38
Benzo(k)fluoranthene
Concen: 0.149 ng
RT: 22.465 min Scan# 2433
Delta R.T. -0.006 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

Tgt Ion:252 Resp: 3529

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 37.3 | 19.5 | 29.3# |
| 125 | 26.2 | 10.2 | 15.4# |

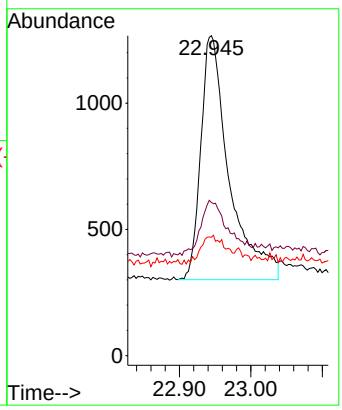





#39
Benzo(a)pyrene
Concen: 0.135 ng
RT: 22.945 min Scan# 2
Delta R.T. -0.006 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

Tgt Ion:252 Resp: 267

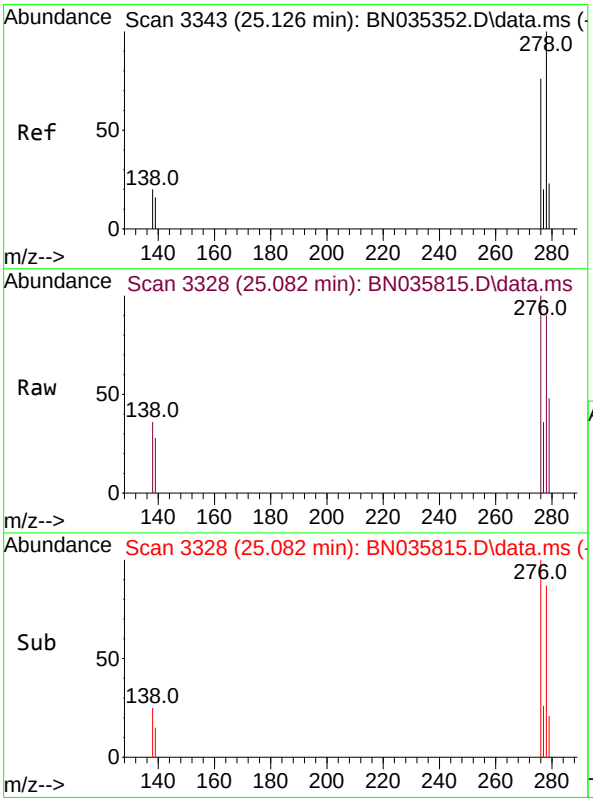
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 47.9 | 20.2 | 30.4# |
| 125 | 37.0 | 10.9 | 16.3# |




**Instrument :**
BNA_N
**ClientSampleId :**
TT150S1-20241218

**Manual Integrations**
**APPROVED**

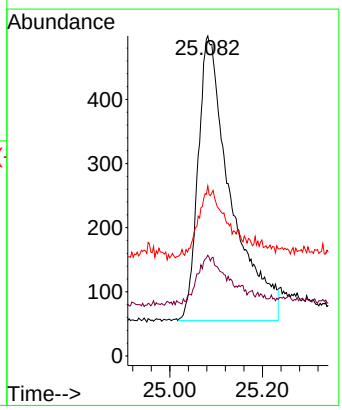
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

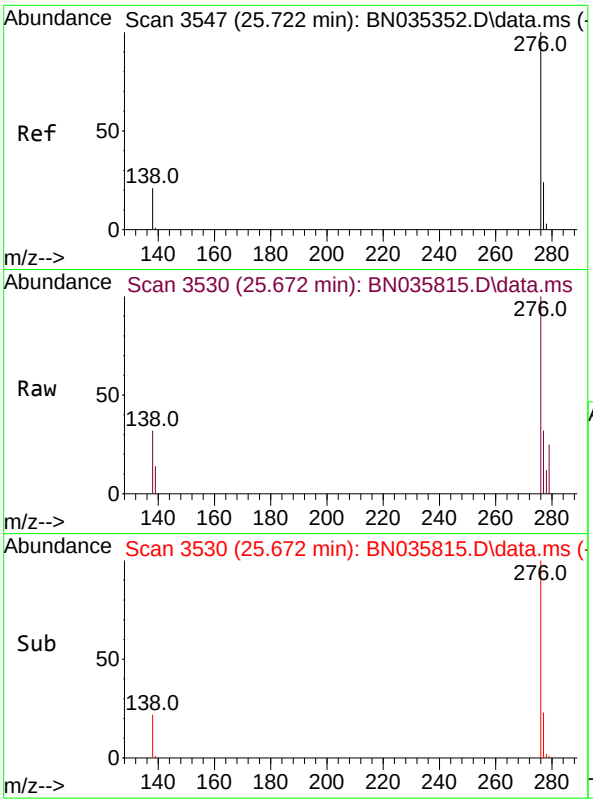



#40
Dibenzo(a,h)anthracene
Concen: 0.107 ng
RT: 25.082 min Scan# 3328
Delta R.T. -0.000 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

Tgt Ion:278 Resp: 2170

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 31.5 | 14.2 | 21.4# |
| 279 | 53.1 | 20.5 | 30.7# |

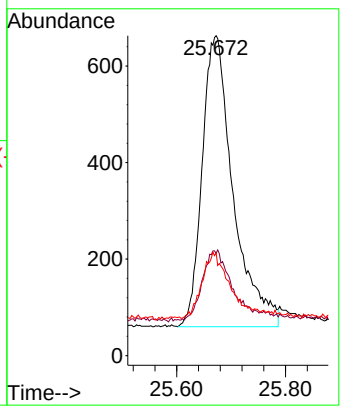





#41
Benzo(g,h,i)perylene
Concen: 0.113 ng
RT: 25.672 min Scan# 3
Delta R.T. -0.006 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

Tgt Ion:276 Resp: 239

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 32.0 | 19.9 | 29.9# |
| 138 | 32.1 | 17.8 | 26.8# |




**Instrument :**
BNA_N
**ClientSampleId :**
TT150S1-20241218

**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | AECOM Technical Services, Inc. | Date Collected: | 12/18/24 |
| Project: | NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258 | Date Received: | 12/20/24 |
| Client Sample ID: | RE115D2-20241218 | SDG No.: | P5376 |
| Lab Sample ID: | P5376-03 | Matrix: | Water |
| Analytical Method: | SW8270ESIM | % Solid: | 0 |
| Sample Wt/Vol: | 970 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-SIMGroup1 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BN035816.D | 1 | 12/23/24 13:29 | 12/24/24 11:57 | PB165828 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 123-91-1 | 1,4-Dioxane | 7.60 | E | 0.070 | 0.21 | 0.21 | ug/L |
| **SURROGATES** | | | | | | | |
| 7297-45-2 | 2-Methylnaphthalene-d10 | 0.29 | | 30 - 150 | | 73% | SPK: 0.4 |
| 93951-69-0 | Fluoranthene-d10 | 0.36 | | 30 - 150 | | 91% | SPK: 0.4 |
| 4165-60-0 | Nitrobenzene-d5 | 0.33 | | 55 - 111 | | 83% | SPK: 0.4 |
| 321-60-8 | 2-Fluorobiphenyl | 0.33 | | 53 - 106 | | 81% | SPK: 0.4 |
| 1718-51-0 | Terphenyl-d14 | 0.46 | | 58 - 132 | | 115% | SPK: 0.4 |
| **INTERNAL STANDARDS** | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 3280 | 7.264 | | | | |
| 1146-65-2 | Naphthalene-d8 | 7770 | 10.009 | | | | |
| 15067-26-2 | Acenaphthene-d10 | 4980 | 13.925 | | | | |
| 1517-22-2 | Phenanthrene-d10 | 10100 | 16.698 | | | | |
| 1719-03-5 | Chrysene-d12 | 8870 | 20.947 | | | | |
| 1520-96-3 | Perylene-d12 | 8760 | 23.032 | | | | |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035816.D
Acq On : 24 Dec 2024 11:57
Operator : RC/JU
Sample : P5376-03
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 24 23:17:25 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

**Instrument :**
BNA_N
**ClientSampleId :**
RE115D2-20241218

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.264 | 152 | 3275 | 0.400 | ng | 0.00 |
| 7) Naphthalene-d8 | 10.009 | 136 | 7772 | 0.400 | ng | -0.01 |
| 13) Acenaphthene-d10 | 13.925 | 164 | 4979 | 0.400 | ng | -0.01 |
| 19) Phenanthrene-d10 | 16.698 | 188 | 10106 | 0.400 | ng | # 0.00 |
| 29) Chrysene-d12 | 20.947 | 240 | 8871 | 0.400 | ng | 0.00 |
| 35) Perylene-d12 | 23.032 | 264 | 8758 | 0.400 | ng | # 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 4) 2-Fluorophenol | 4.924 | 112 | 753 | 0.092 | ng | -0.01 |
| 5) Phenol-d6 | 6.477 | 99 | 383 | 0.039 | ng | -0.01 |
| 8) Nitrobenzene-d5 | 8.408 | 82 | 1575m | 0.332 | ng | 0.00 |
| 11) 2-Methylnaphthalene-d10 | 11.621 | 152 | 3538 | 0.291 | ng | 0.00 |
| 14) 2,4,6-Tribromophenol | 15.453 | 330 | 586 | 0.166 | ng | 0.00 |
| 15) 2-Fluorobiphenyl | 12.539 | 172 | 6110 | 0.325 | ng | 0.00 |
| 27) Fluoranthene-d10 | 18.752 | 212 | 10407 | 0.363 | ng | 0.00 |
| 31) Terphenyl-d14 | 19.379 | 244 | 8030 | 0.459 | ng | 0.00 |
| **Target Compounds** | | | | | | Qvalue |
| 2) 1,4-Dioxane | 2.974 | 88 | 23179 | 7.403 | ng | 99 |
| 6) bis(2-Chloroethyl)ether | 6.723 | 93 | 310 | 0.037 | ng | 93 |
| 9) Naphthalene | 10.052 | 128 | 1561 | 0.076 | ng | # 80 |
| 12) 2-Methylnaphthalene | 11.697 | 142 | 932 | 0.064 | ng | # 87 |
| 16) Acenaphthylene | 13.636 | 152 | 1554 | 0.074 | ng | 99 |
| 17) Acenaphthene | 13.989 | 154 | 972 | 0.070 | ng | 97 |
| 18) Fluorene | 14.994 | 166 | 1321 | 0.066 | ng | 98 |
| 25) Phenanthrene | 16.736 | 178 | 2623 | 0.094 | ng | 99 |
| 26) Anthracene | 16.835 | 178 | 1938 | 0.077 | ng | 98 |
| 28) Fluoranthene | 18.780 | 202 | 3054 | 0.082 | ng | 99 |
| 30) Pyrene | 19.152 | 202 | 3188 | 0.097 | ng | 99 |
| 32) Benzo(a)anthracene | 20.929 | 228 | 1910 | 0.062 | ng | 93 |
| 33) Chrysene | 20.983 | 228 | 2737 | 0.086 | ng | 94 |
| 34) Bis(2-ethylhexyl)phtha... | 20.893 | 149 | 623 | 0.051 | ng | # 94 |
| 36) Indeno(1,2,3-cd)pyrene | 25.073 | 276 | 1728 | 0.050 | ng | # 68 |
| 37) Benzo(b)fluoranthene | 22.424 | 252 | 2429 | 0.076 | ng | # 52 |
| 38) Benzo(k)fluoranthene | 22.465 | 252 | 1987 | 0.063 | ng | # 51 |
| 39) Benzo(a)pyrene | 22.948 | 252 | 1503 | 0.057 | ng | # 21 |
| 40) Dibenzo(a,h)anthracene | 25.088 | 278 | 1220 | 0.045 | ng | # 30 |
| 41) Benzo(g,h,i)perylene | 25.678 | 276 | 1434 | 0.051 | ng | # 72 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

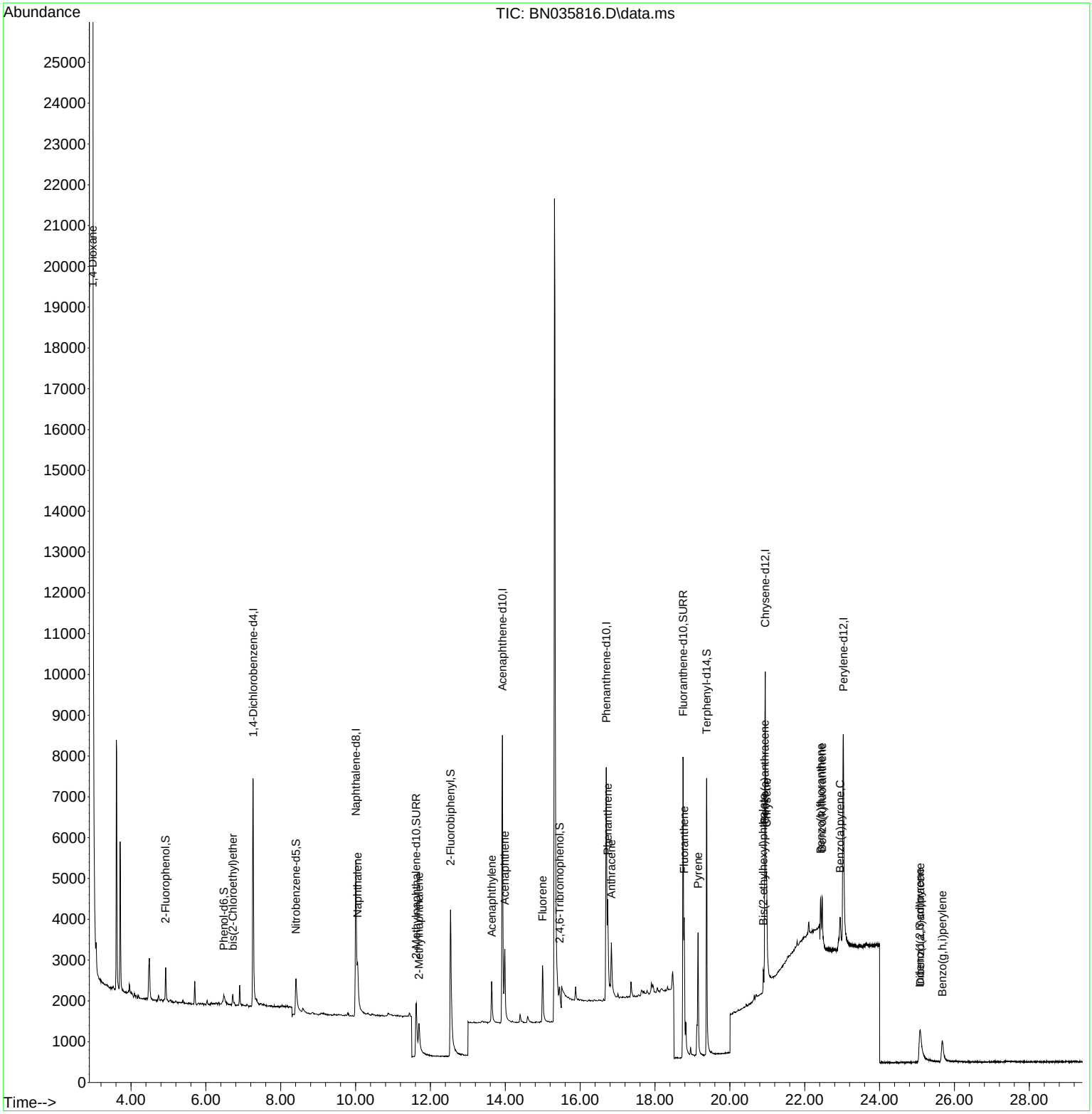
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035816.D
Acq On : 24 Dec 2024 11:57
Operator : RC/JU
Sample : P5376-03
Misc :
ALS Vial : 7 Sample Multiplier: 1

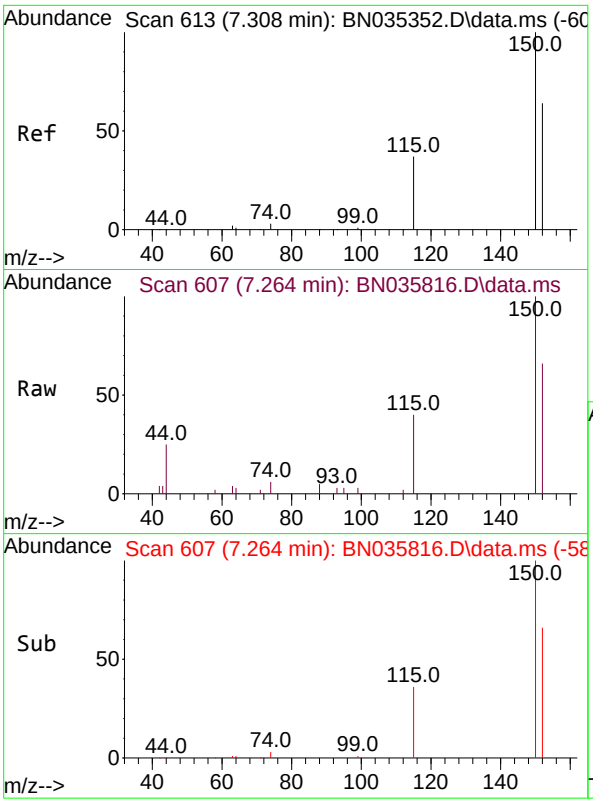
Quant Time: Dec 24 23:17:25 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

**Instrument :**
BNA_N
**ClientSampleId :**
RE115D2-20241218

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

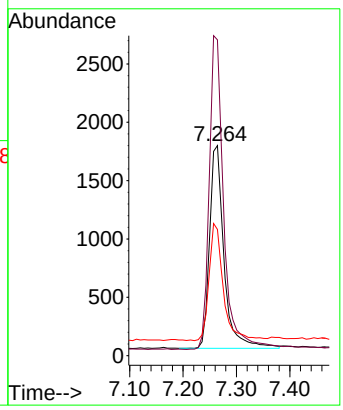





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.264 min Scan# 6(
Delta R.T. -0.008 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Tgt Ion:152 Resp: 327

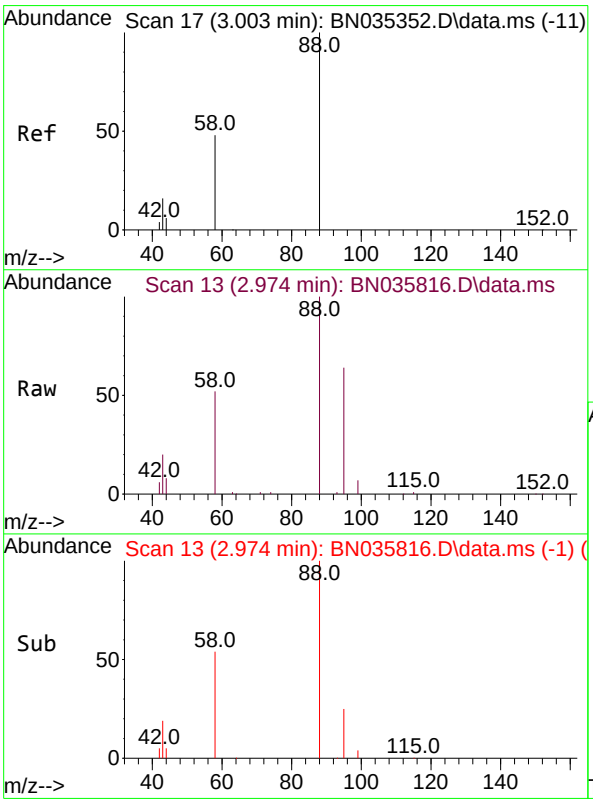
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 150.4 | 124.0 | 186.0 |
| 115 | 60.1 | 49.6 | 74.4 |




**Instrument :**
BNA_N
**ClientSampleId :**
RE115D2-20241218

**Manual Integrations**
**APPROVED**

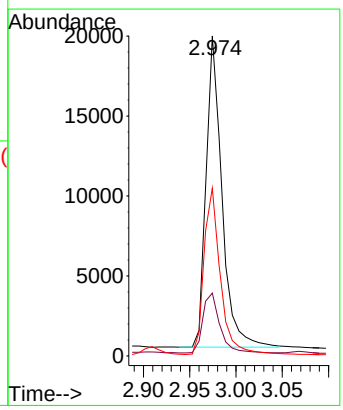
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

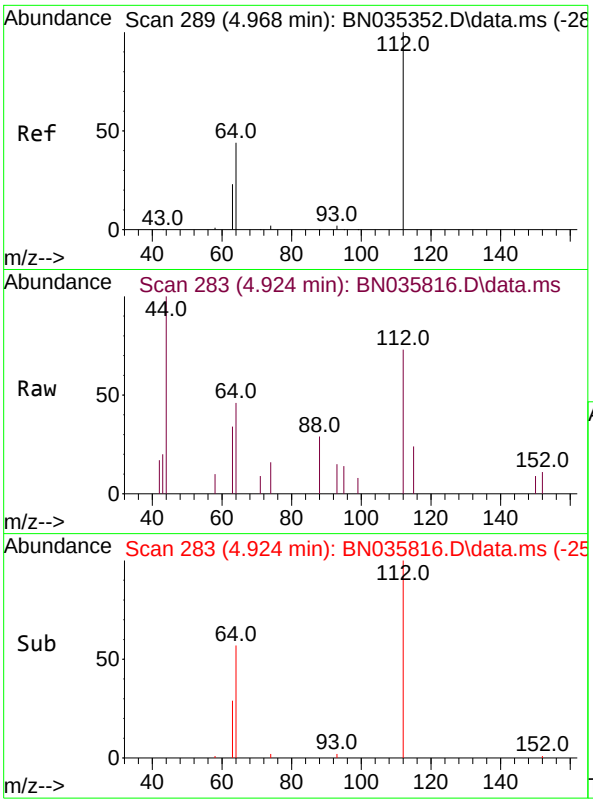



#2
1,4-Dioxane
Concen: 7.403 ng
RT: 2.974 min Scan# 13
Delta R.T. -0.007 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Tgt Ion: 88 Resp: 23179

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 20.6 | 17.2 | 25.8 |
| 58 | 55.1 | 44.5 | 66.7 |






#4
2-Fluorophenol
Concen: 0.092 ng
RT: 4.924 min Scan# 2
Delta R.T. -0.015 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

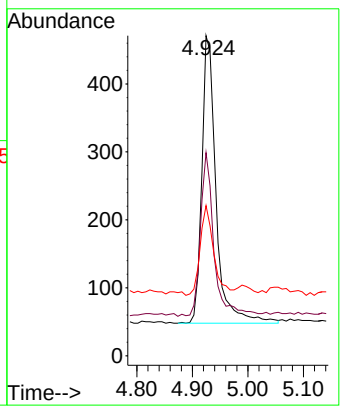
Tgt Ion:112 Resp: 75

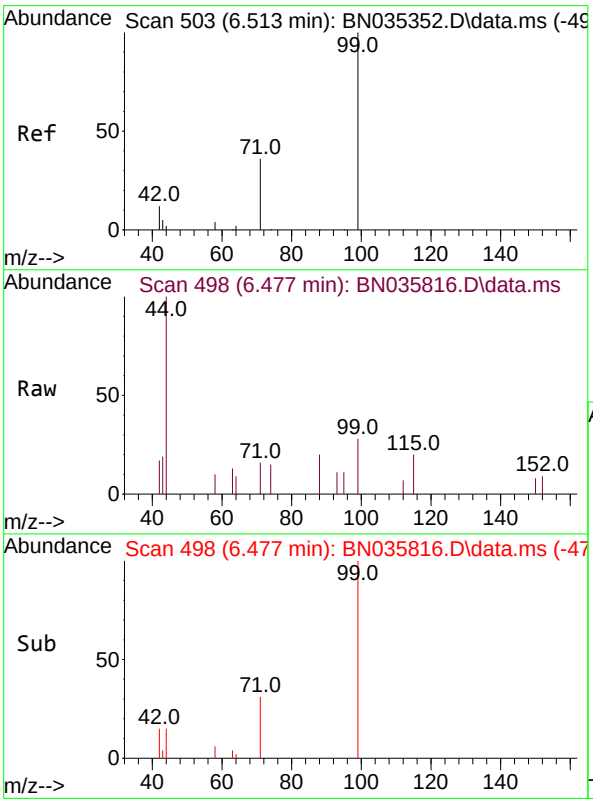
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 53.0 | 39.8 | 59.8 |
| 63 | 29.3 | 21.0 | 31.6 |

**Instrument :**
BNA_N
**ClientSampleId :**
RE115D2-20241218

**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

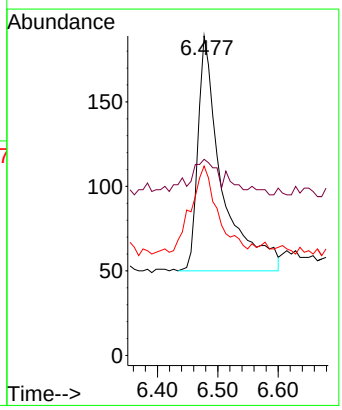


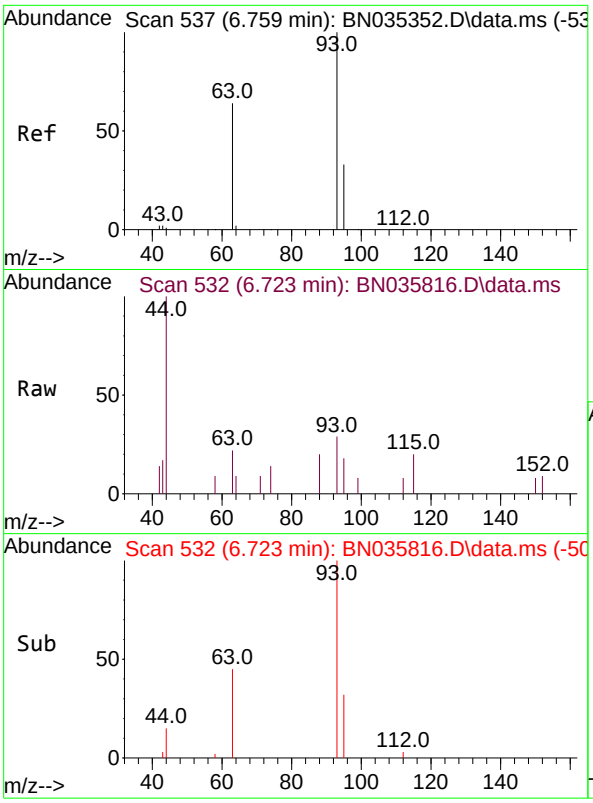




#5
Phenol-d6
Concen: 0.039 ng
RT: 6.477 min Scan# 498
Delta R.T. -0.015 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Tgt Ion: 99 Resp: 383

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 13.8 | 11.4 | 17.2 |
| 71 | 44.4 | 29.3 | 43.9# |

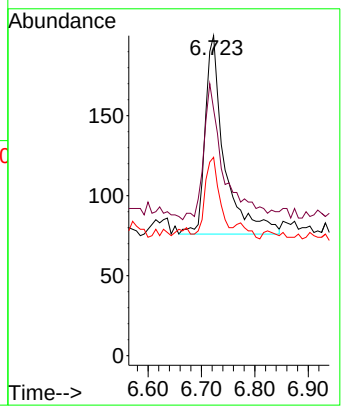





#6
bis(2-Chloroethyl)ether
Concen: 0.037 ng
RT: 6.723 min Scan# 5
Delta R.T. -0.007 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Tgt Ion: 93 Resp: 31

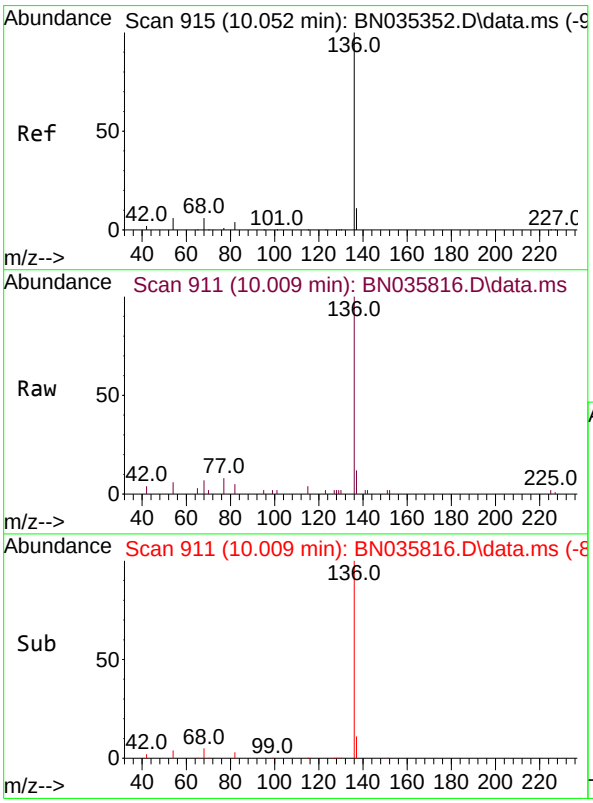
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 70.6 | 50.4 | 75.6 |
| 95 | 31.3 | 25.7 | 38.5 |




**Instrument :**
BNA_N
**ClientSampleId :**
RE115D2-20241218

**Manual Integrations**
**APPROVED**

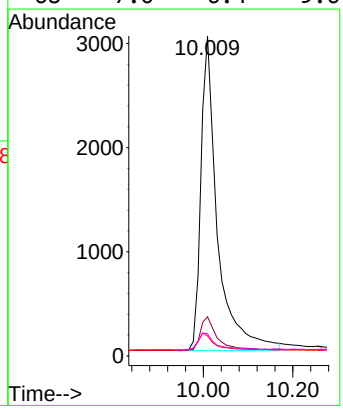
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

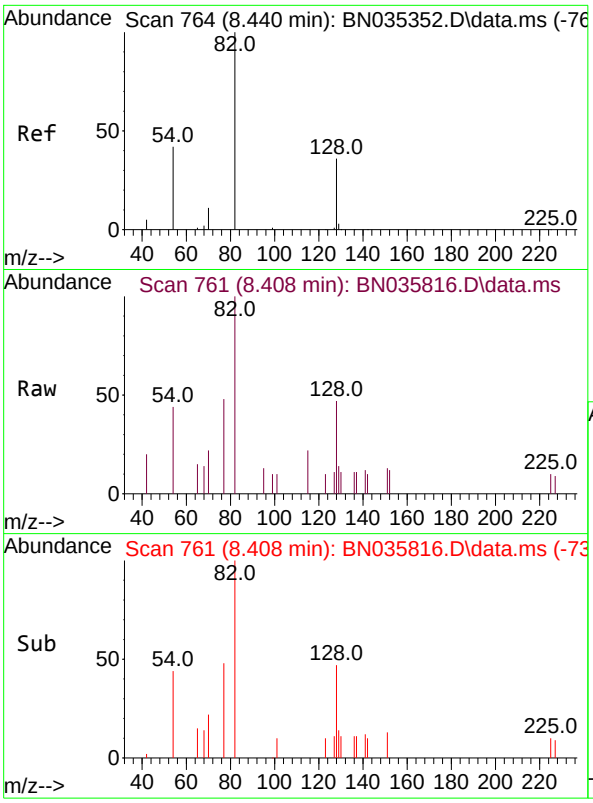



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 911
Delta R.T. -0.011 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Tgt Ion:136 Resp: 7772

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 12.2 | 10.2 | 15.2 |
| 54 | 6.3 | 6.1 | 9.1 |
| 68 | 7.0 | 6.4 | 9.6 |

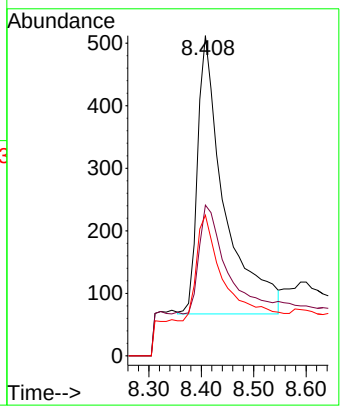





#8
Nitrobenzene-d5
Concen: 0.332 ng m
RT: 8.408 min Scan# 7
Delta R.T. -0.000 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Tgt Ion: 82 Resp: 157

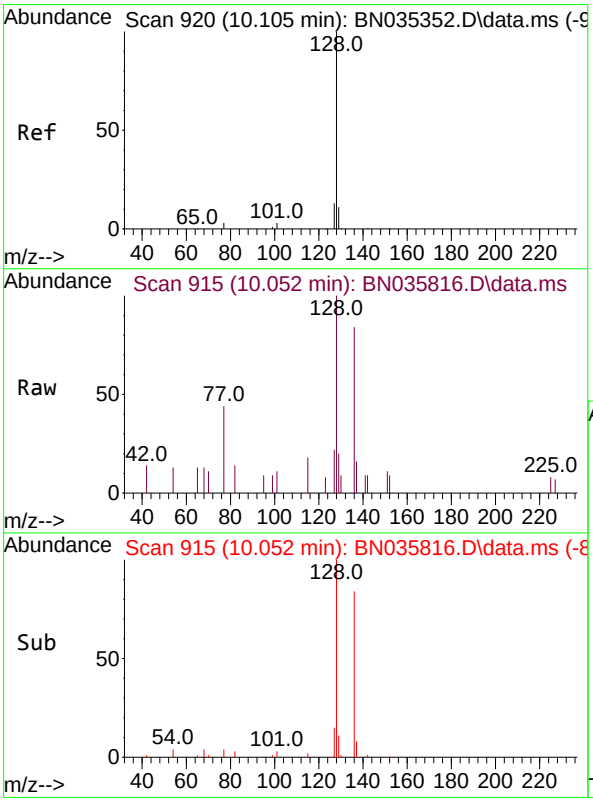
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 47.1 | 33.4 | 50.0 |
| 54 | 43.9 | 36.7 | 55.1 |




**Instrument :**
BNA_N
**ClientSampleId :**
RE115D2-20241218

**Manual Integrations**
**APPROVED**

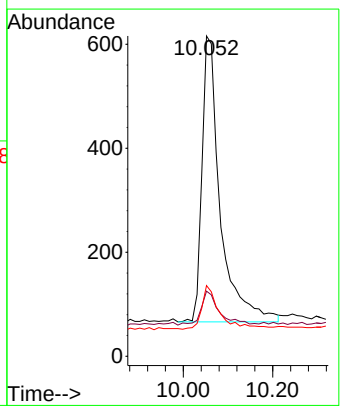
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

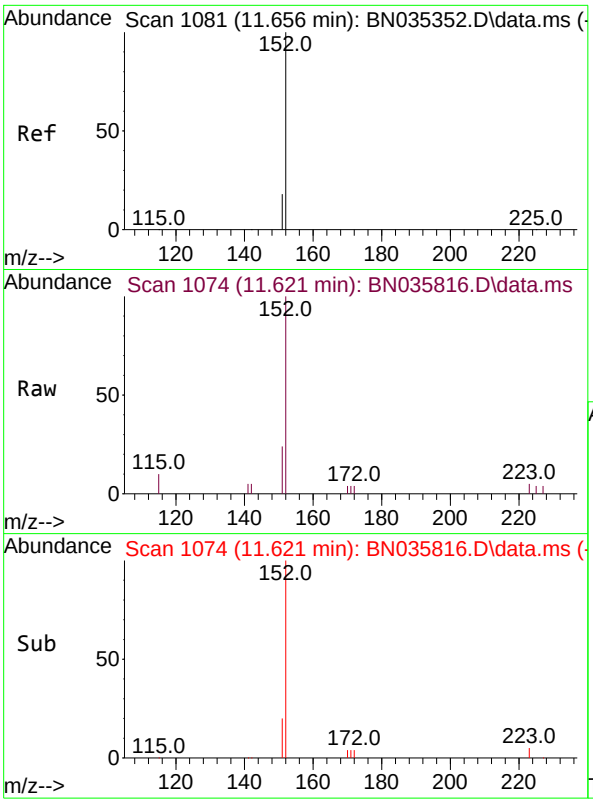



#9
Naphthalene
Concen: 0.076 ng
RT: 10.052 min Scan# 915
Delta R.T. -0.011 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Tgt Ion:128 Resp: 1561

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 20.3 | 9.8 | 14.6# |
| 127 | 22.1 | 11.4 | 17.2# |

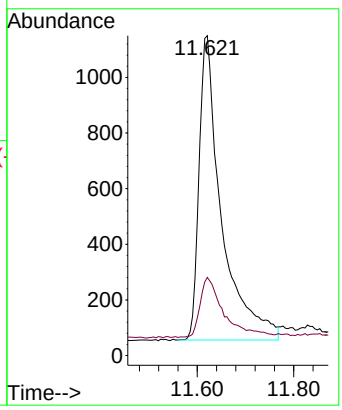





#11
2-Methylnaphthalene-d10
Concen: 0.291 ng
RT: 11.621 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Tgt Ion:152 Resp: 353

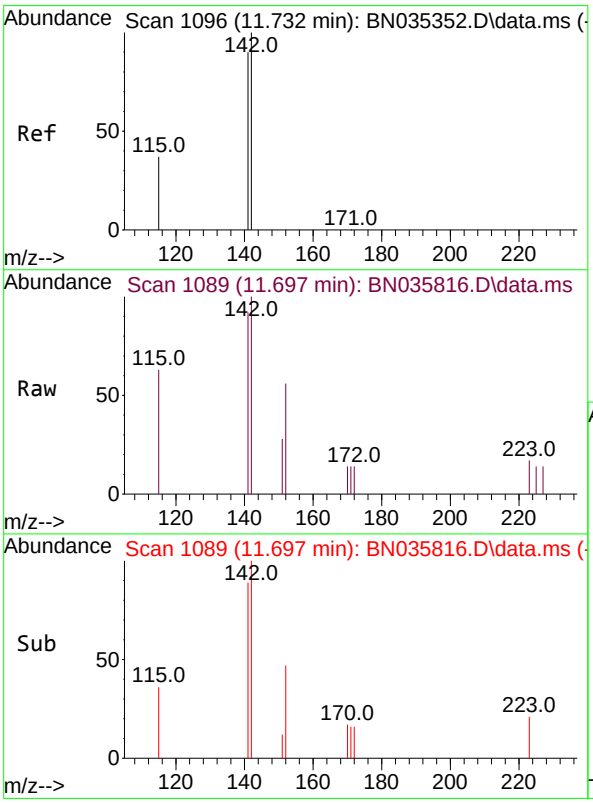
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 21.1 | 16.6 | 25.0 |




**Instrument :**
BNA_N
**ClientSampleId :**
RE115D2-20241218

**Manual Integrations**
**APPROVED**

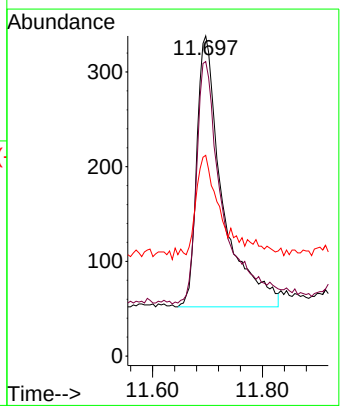
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

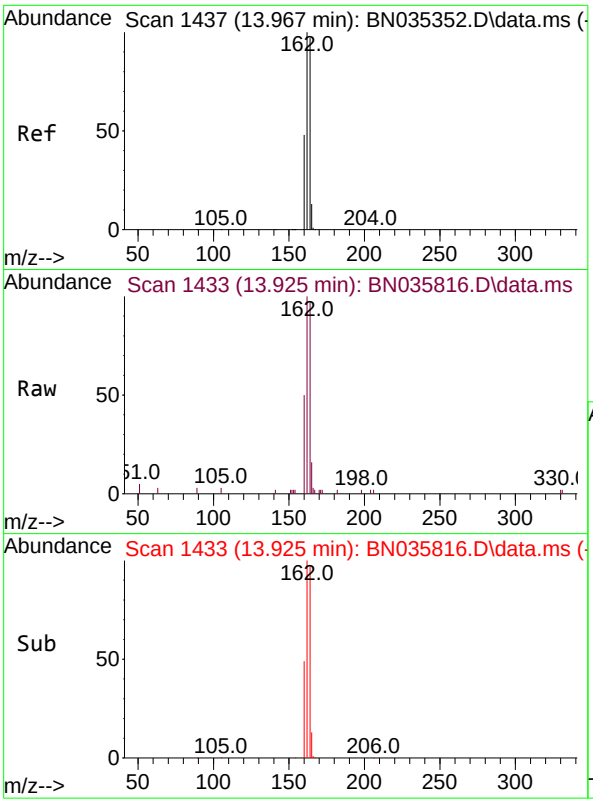



#12
2-Methylnaphthalene
Concen: 0.064 ng
RT: 11.697 min Scan# 1089
Delta R.T. -0.000 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Tgt Ion:142 Resp: 932

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 92.0 | 72.2 | 108.4 |
| 115 | 62.7 | 31.4 | 47.0# |

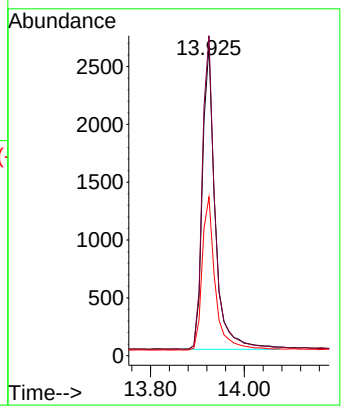





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.925 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Tgt Ion:164 Resp: 497

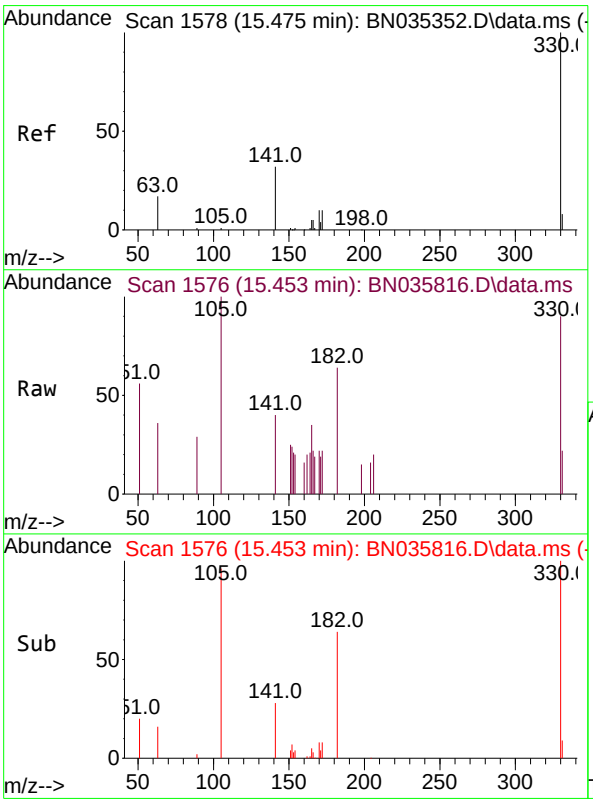
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 103.3 | 82.2 | 123.2 |
| 160 | 51.2 | 40.1 | 60.1 |




**Instrument :**
BNA_N
**ClientSampleId :**
RE115D2-20241218

**Manual Integrations**
**APPROVED**

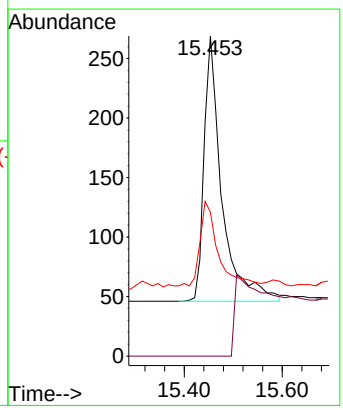
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

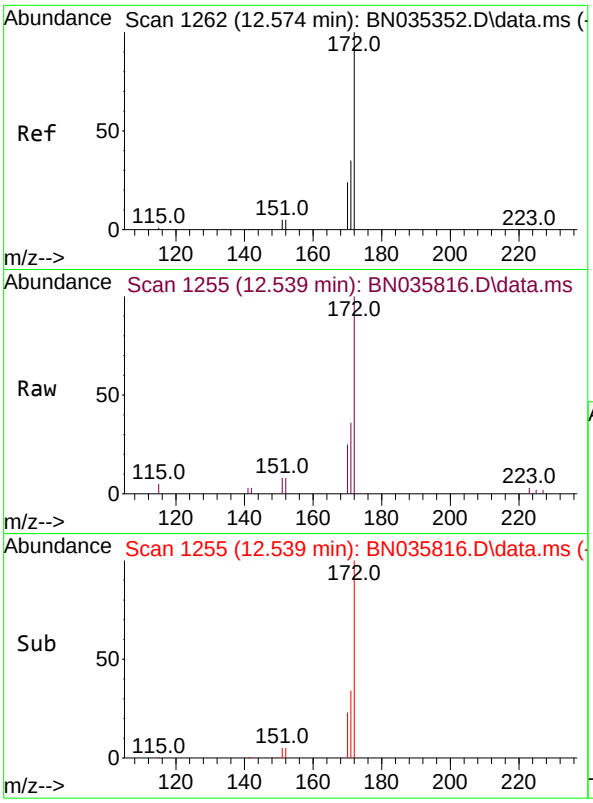



#14
2,4,6-Tribromophenol
Concen: 0.166 ng
RT: 15.453 min Scan# 1576
Delta R.T. -0.000 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Tgt Ion:330 Resp: 586

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 0.0 | 0.0 | 0.0 |
| 141 | 31.6 | 26.6 | 40.0 |

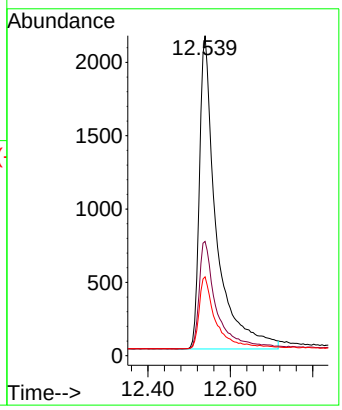





#15
2-Fluorobiphenyl
Concen: 0.325 ng
RT: 12.539 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Tgt Ion:172 Resp: 611

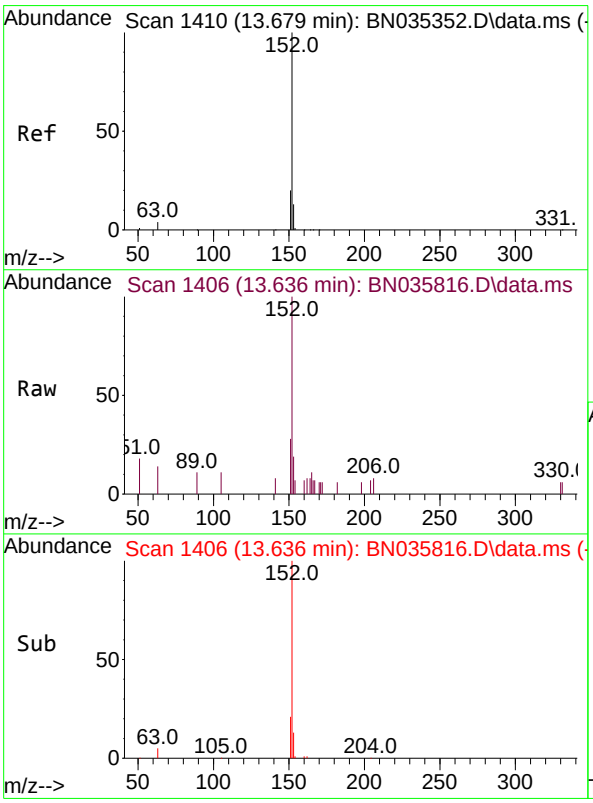
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 35.7 | 29.0 | 43.4 |
| 170 | 24.7 | 19.8 | 29.8 |




**Instrument :**
BNA_N
**ClientSampleId :**
RE115D2-20241218

**Manual Integrations**
**APPROVED**

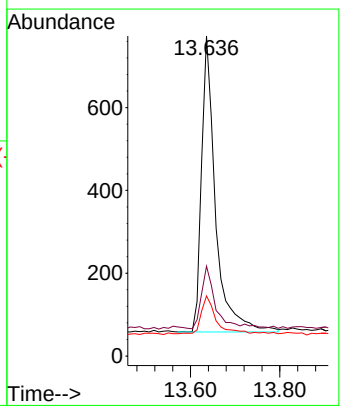
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

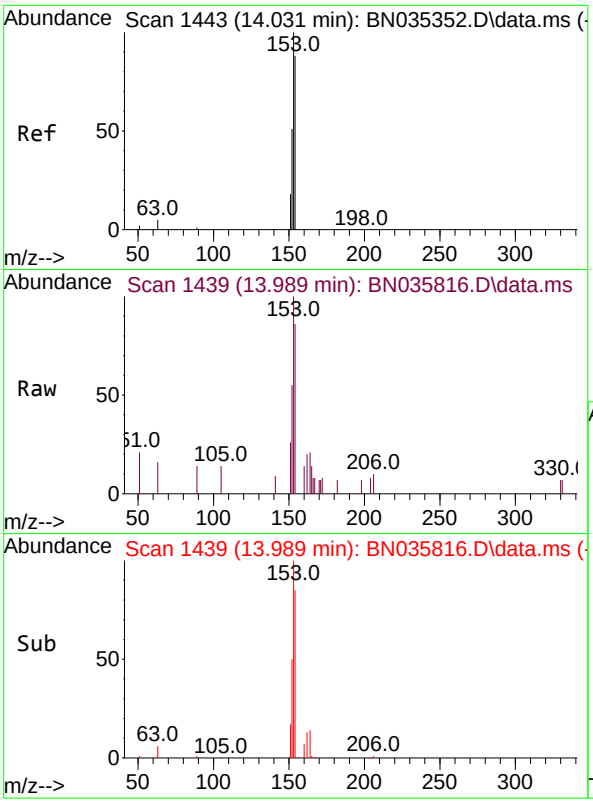



#16
Acenaphthylene
Concen: 0.074 ng
RT: 13.636 min Scan# 1406
Delta R.T. -0.011 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Tgt Ion:152 Resp: 1554

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 21.0 | 16.2 | 24.2 |
| 153 | 13.4 | 10.4 | 15.6 |

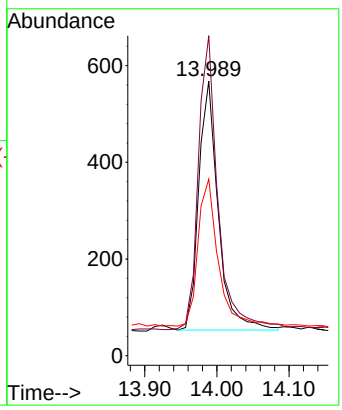





#17
Acenaphthene
Concen: 0.070 ng
RT: 13.989 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

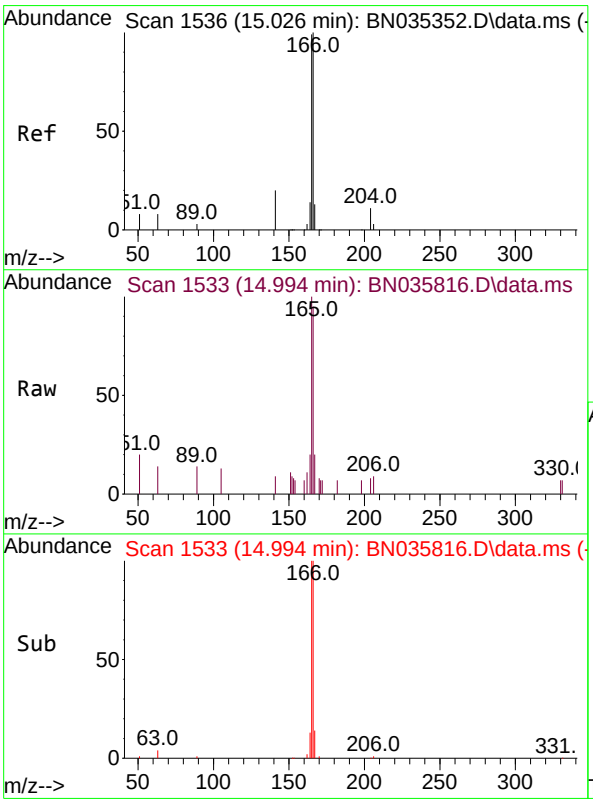
Tgt Ion:154 Resp: 97

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 119.9 | 92.6 | 139.0 |
| 152 | 61.5 | 49.0 | 73.6 |




**Instrument :**
BNA_N
**ClientSampleId :**
RE115D2-20241218

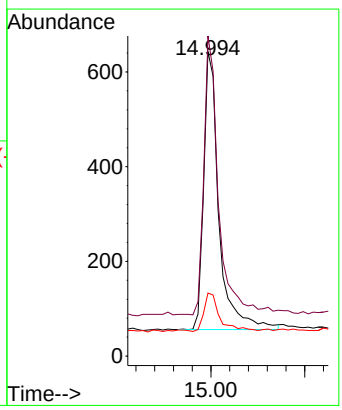
**Manual Integrations**
**APPROVED**
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

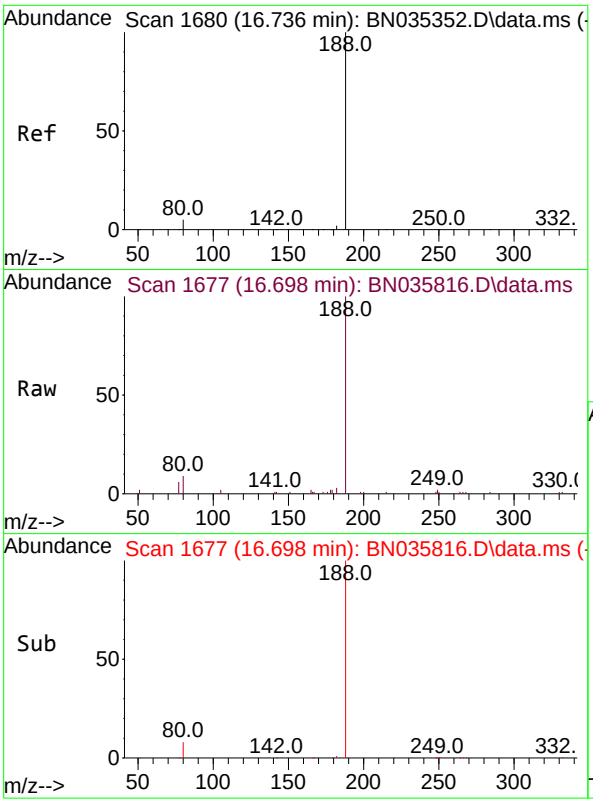



#18
Fluorene
Concen: 0.066 ng
RT: 14.994 min Scan# 1533
Delta R.T. -0.011 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Tgt Ion:166 Resp: 1321

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 97.3 | 79.7 | 119.5 |
| 167 | 14.5 | 10.8 | 16.2 |

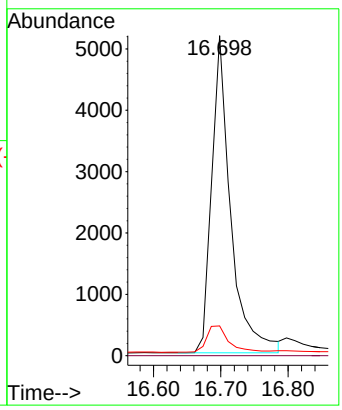





#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Tgt Ion:188 Resp: 1010(

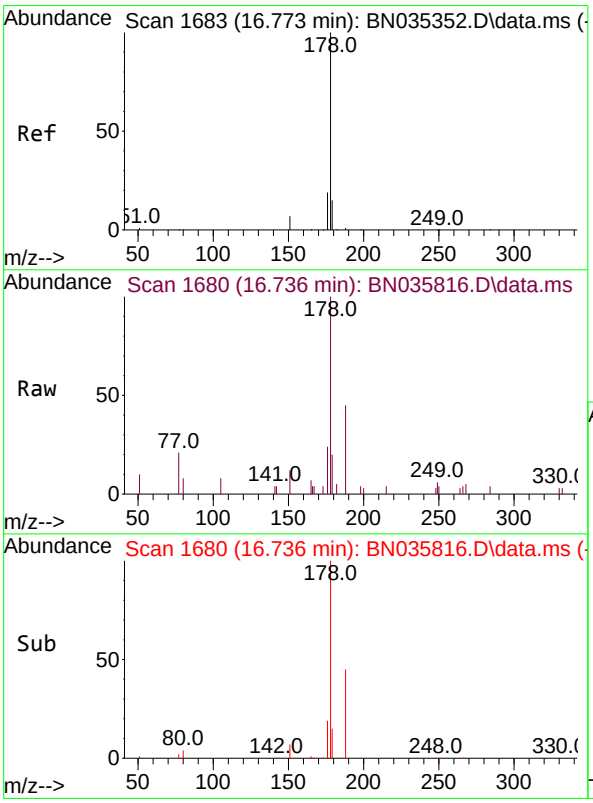
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 9.3 | 4.6 | 6.8# |




**Instrument :**
BNA_N
**ClientSampleId :**
RE115D2-20241218

**Manual Integrations**
**APPROVED**

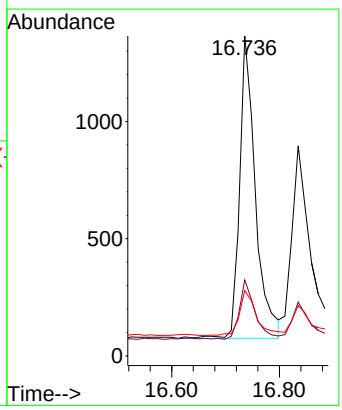
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

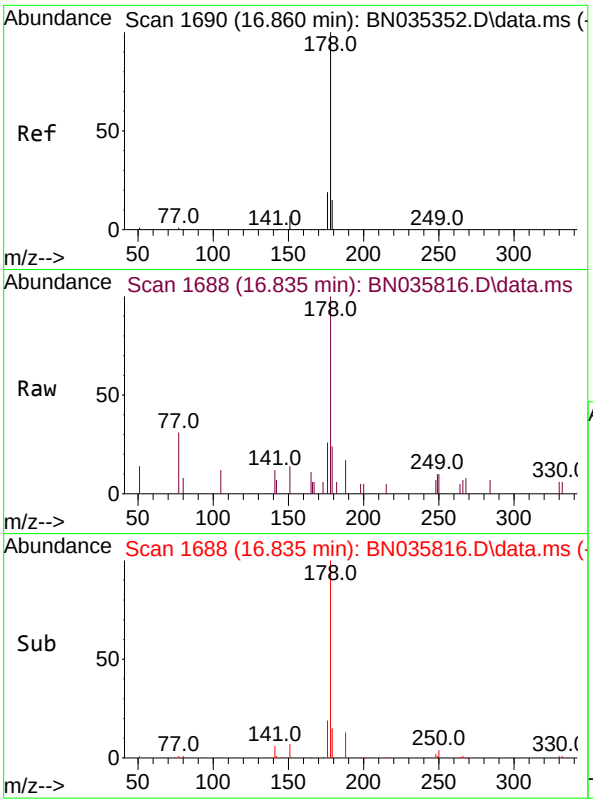



#25
Phenanthrene
Concen: 0.094 ng
RT: 16.736 min Scan# 1680
Delta R.T. -0.013 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Tgt Ion:178 Resp: 2623

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.8 | 15.4 | 23.2 |
| 179 | 15.7 | 12.3 | 18.5 |

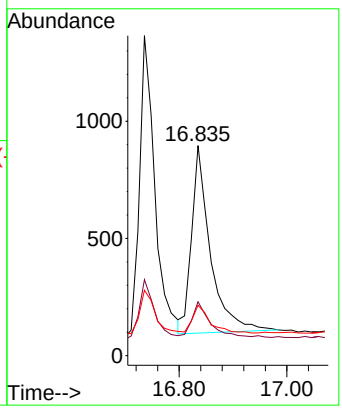





#26
Anthracene
Concen: 0.077 ng
RT: 16.835 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Tgt Ion:178 Resp: 193

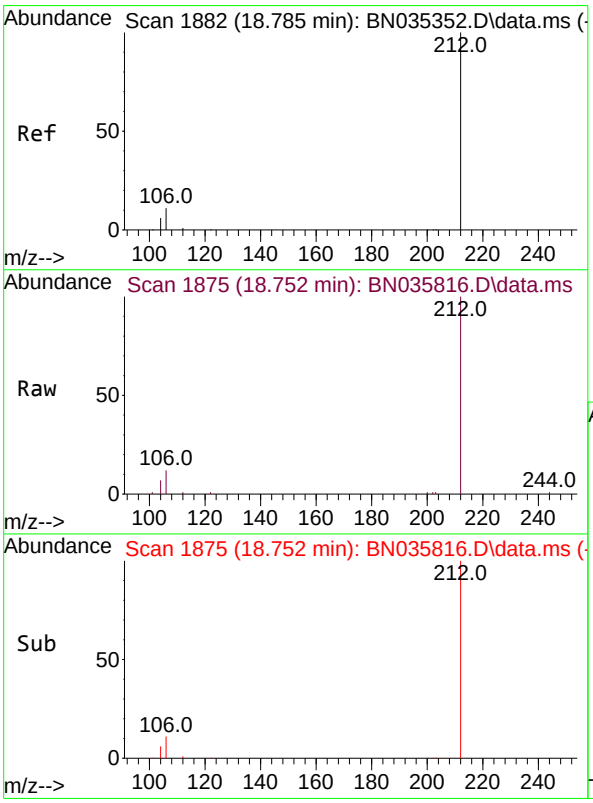
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.3 | 15.0 | 22.6 |
| 179 | 14.3 | 12.6 | 18.8 |




**Instrument :**
BNA_N
**ClientSampleId :**
RE115D2-20241218

**Manual Integrations**
**APPROVED**

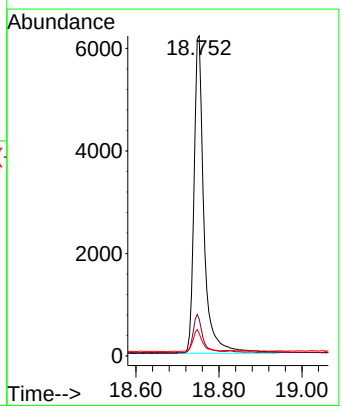
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

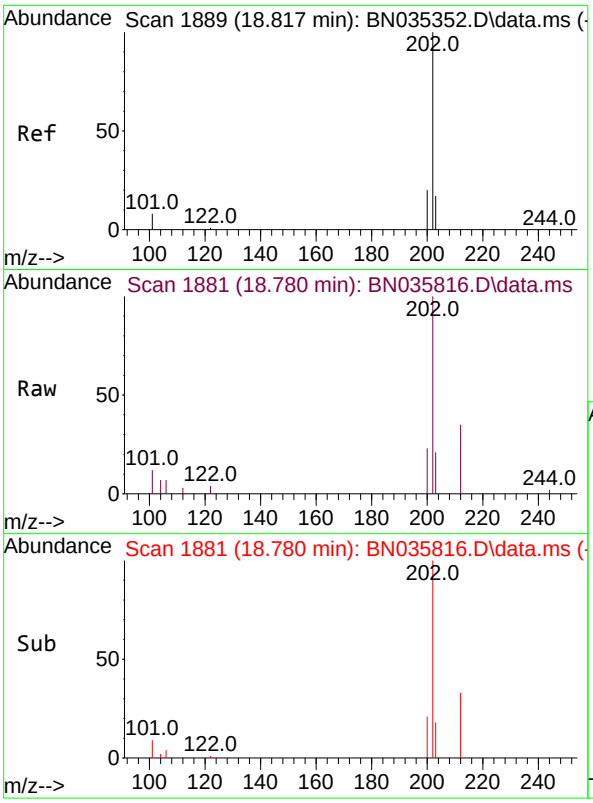



#27
Fluoranthene-d10
Concen: 0.363 ng
RT: 18.752 min Scan# 1875
Delta R.T. -0.009 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Tgt Ion:212 Resp: 10407

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 11.4 | 9.2 | 13.8 |
| 104 | 6.4 | 5.3 | 7.9 |

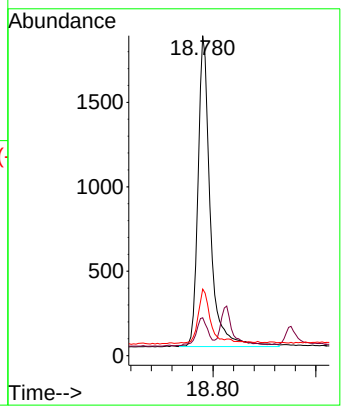





#28
Fluoranthene
Concen: 0.082 ng
RT: 18.780 min Scan# 1
Delta R.T. -0.009 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Tgt Ion:202 Resp: 305

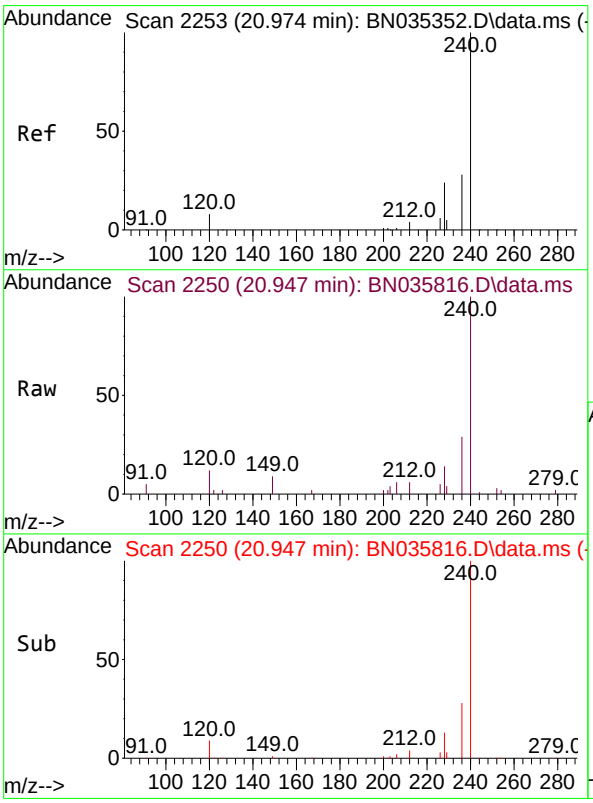
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 8.8 | 7.4 | 11.0 |
| 203 | 16.4 | 13.7 | 20.5 |




**Instrument :**
BNA_N
**ClientSampleId :**
RE115D2-20241218

**Manual Integrations**
**APPROVED**

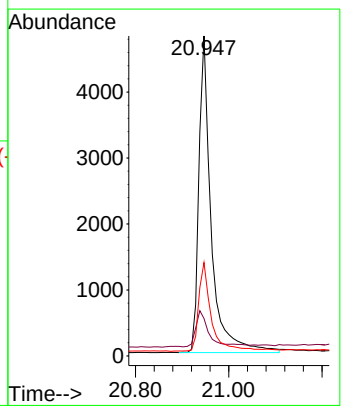
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

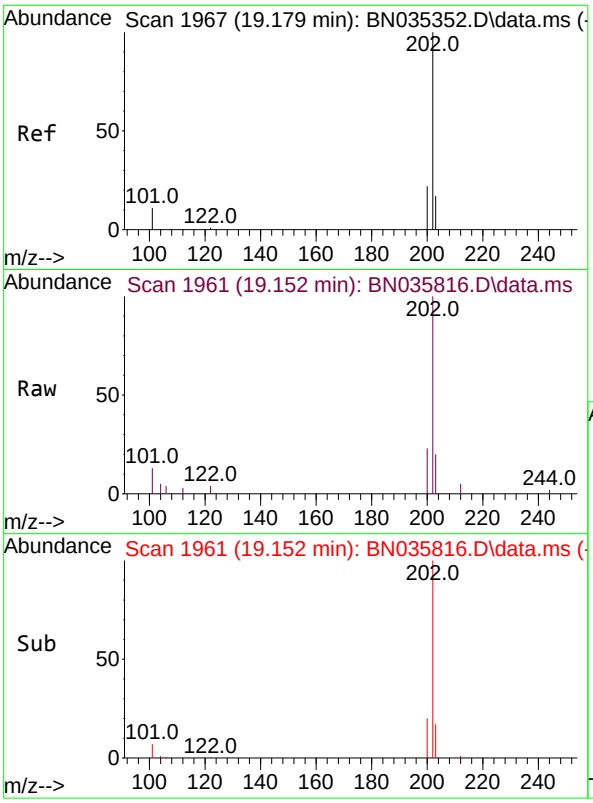



#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2250
Delta R.T. -0.009 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Tgt Ion:240 Resp: 8871

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 11.7 | 7.9 | 11.9 |
| 236 | 29.2 | 22.9 | 34.3 |

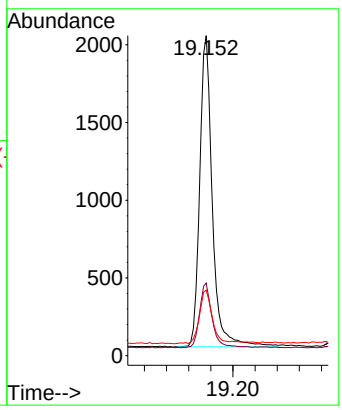





#30
Pyrene
Concen: 0.097 ng
RT: 19.152 min Scan# 1
Delta R.T. -0.009 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

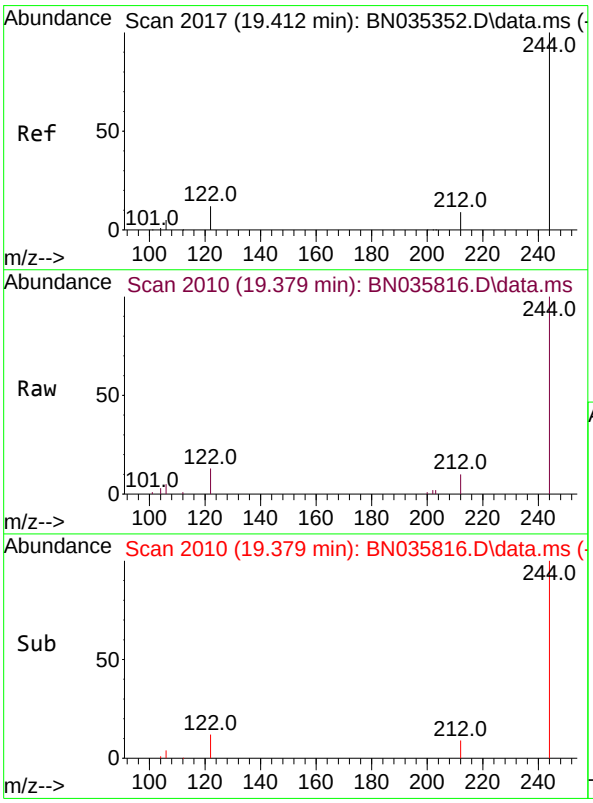
Tgt Ion:202 Resp: 318

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 20.5 | 17.0 | 25.4 |
| 203 | 17.3 | 14.3 | 21.5 |




**Instrument :**
BNA_N
**ClientSampleId :**
RE115D2-20241218

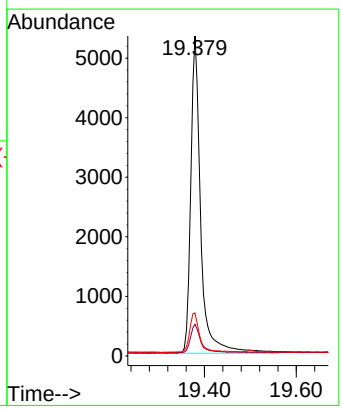
**Manual Integrations**
**APPROVED**
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

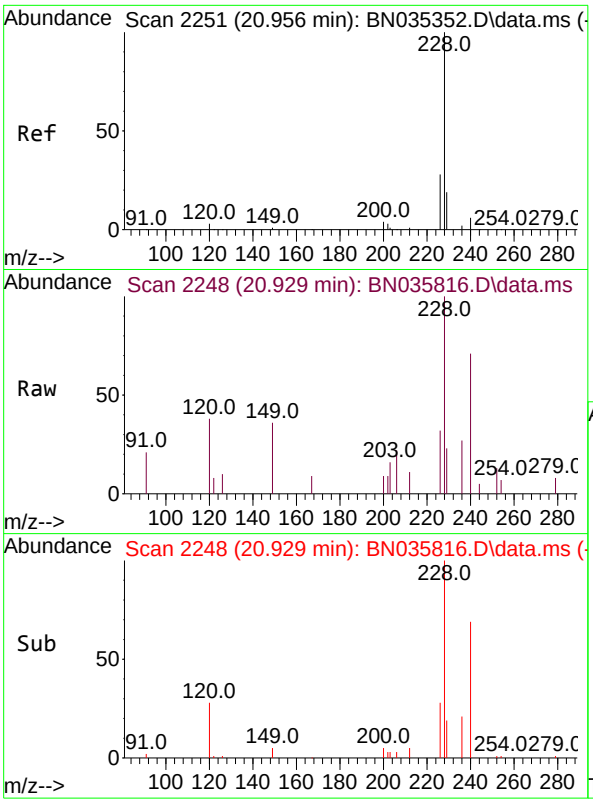



#31
Terphenyl-d14
Concen: 0.459 ng
RT: 19.379 min Scan# 2010
Delta R.T. -0.009 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Tgt Ion:244 Resp: 8030

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 9.9 | 8.1 | 12.1 |
| 122 | 13.5 | 10.3 | 15.5 |

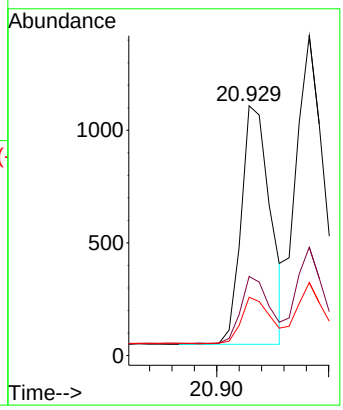





#32
Benzo(a)anthracene
Concen: 0.062 ng
RT: 20.929 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Tgt Ion:228 Resp: 191

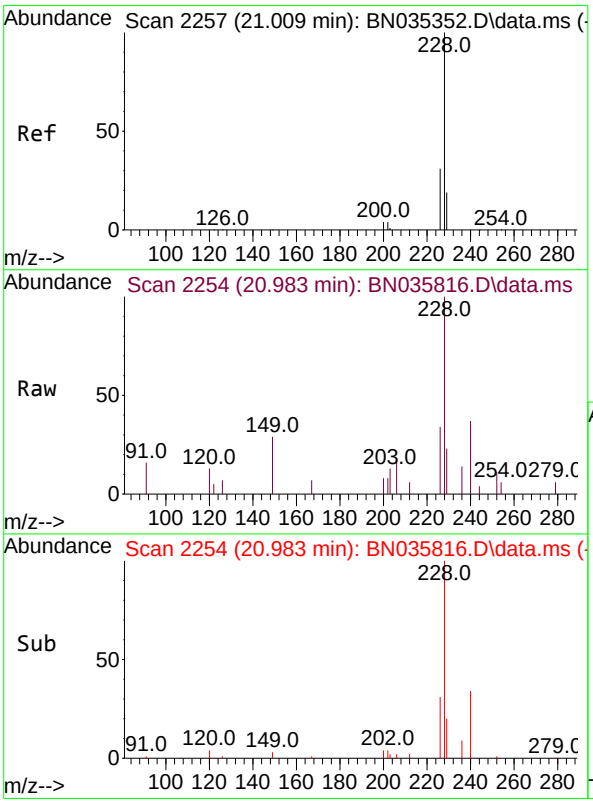
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 31.7 | 22.5 | 33.7 |
| 229 | 23.4 | 15.8 | 23.8 |




**Instrument :**
BNA_N
**ClientSampleId :**
RE115D2-20241218

**Manual Integrations**
**APPROVED**

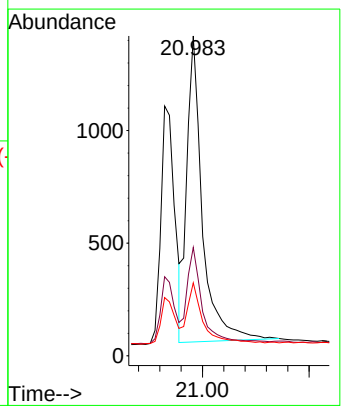
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

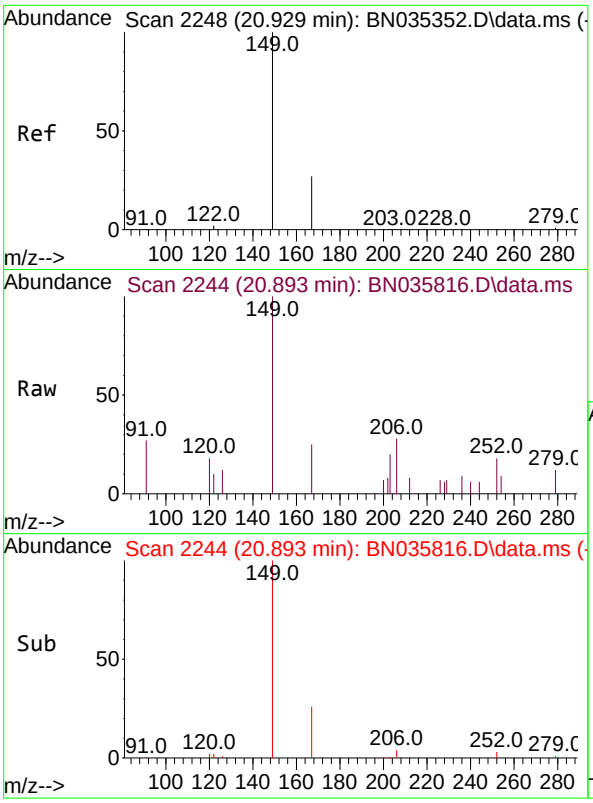



#33
Chrysene
Concen: 0.086 ng
RT: 20.983 min Scan# 2254
Delta R.T. -0.009 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Tgt Ion:228 Resp: 2737

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 33.9 | 24.6 | 37.0 |
| 229 | 22.8 | 15.9 | 23.9 |






#34
Bis(2-ethylhexyl)phthalate
Concen: 0.051 ng
RT: 20.893 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

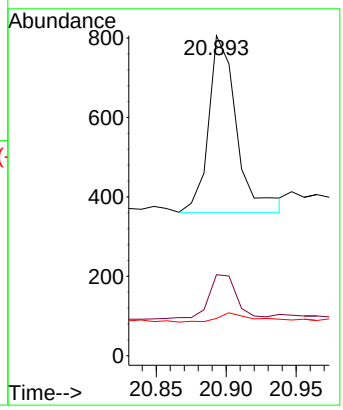
Tgt Ion:149 Resp: 62

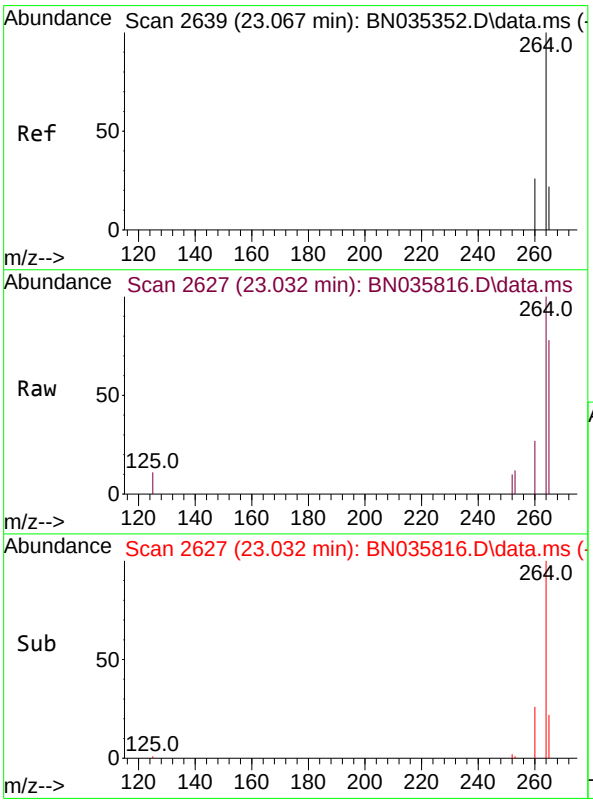
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 24.7 | 22.2 | 33.4 |
| 279 | 6.7 | 2.7 | 4.1# |

**Instrument :**
BNA_N
**ClientSampleId :**
RE115D2-20241218

**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

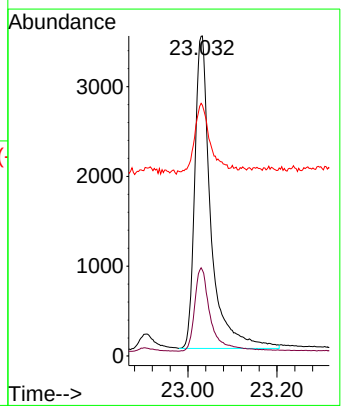


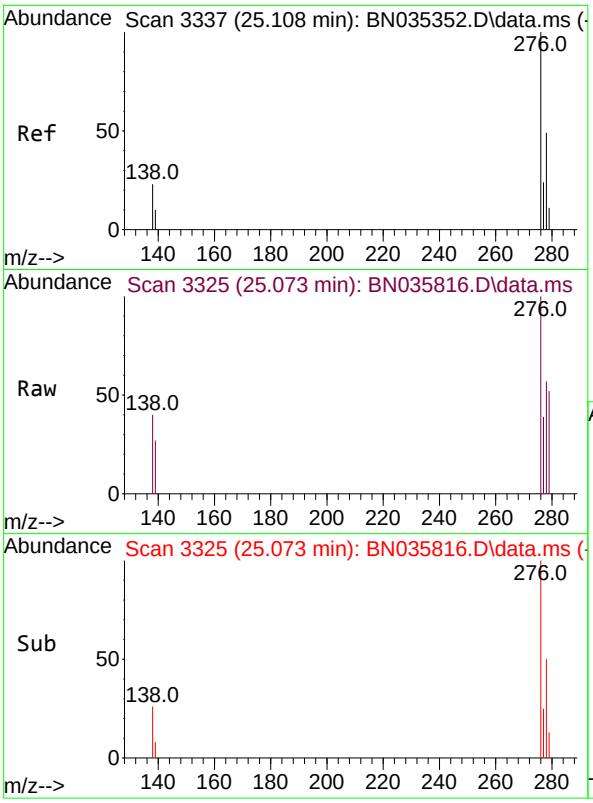




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.032 min Scan# 2627
Delta R.T. -0.009 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Tgt Ion:264 Resp: 8758

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 26.8 | 21.4 | 32.2 |
| 265 | 78.4 | 40.2 | 60.4# |

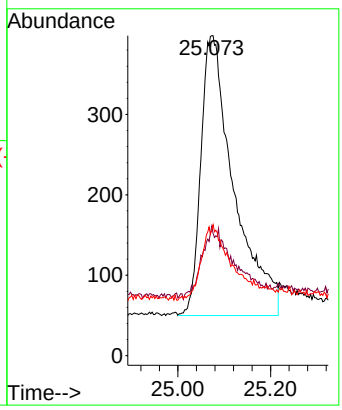





#36
Indeno(1,2,3-cd)pyrene
Concen: 0.050 ng
RT: 25.073 min Scan# 3
Delta R.T. 0.006 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Tgt Ion:276 Resp: 172

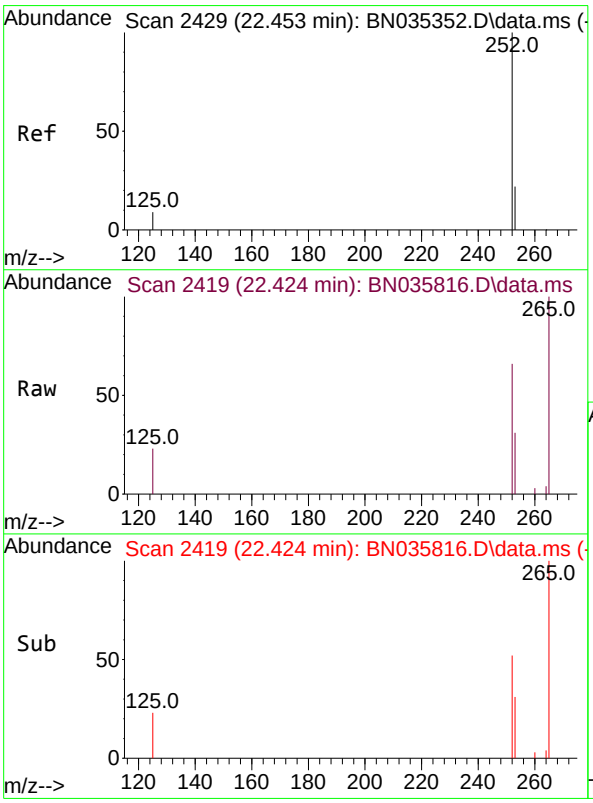
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 10.1 | 19.4 | 29.0# |
| 277 | 7.3 | 19.8 | 29.6# |




**Instrument :**
BNA_N
**ClientSampleId :**
RE115D2-20241218

**Manual Integrations**
**APPROVED**

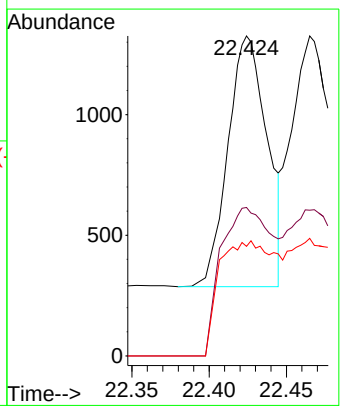
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

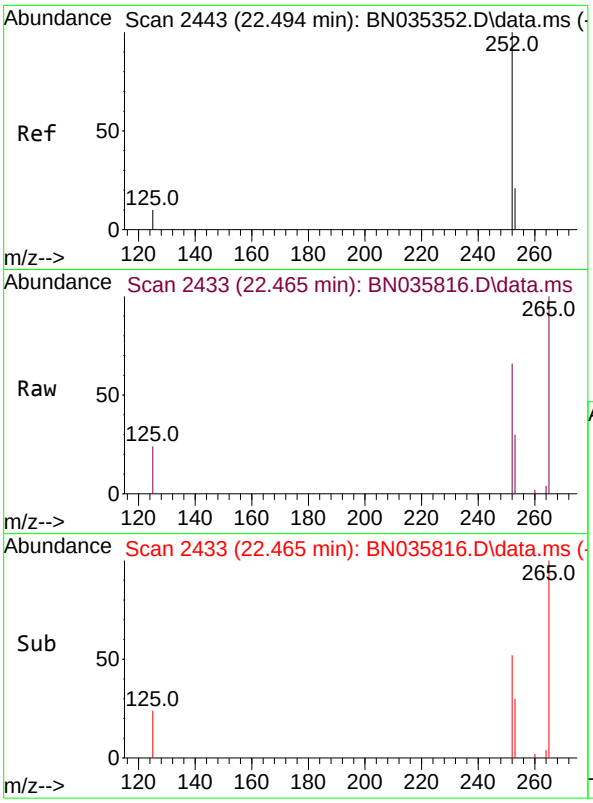



#37
Benzo(b)fluoranthene
Concen: 0.076 ng
RT: 22.424 min Scan# 2419
Delta R.T. -0.006 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Tgt Ion:252 Resp: 2429

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 46.4 | 19.6 | 29.4# |
| 125 | 34.2 | 9.6 | 14.4# |

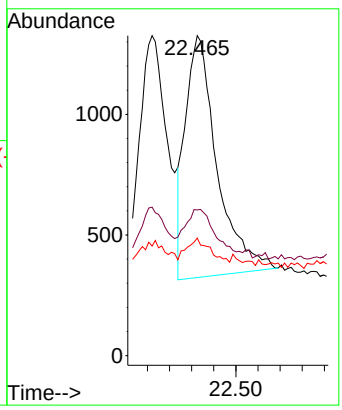





#38
Benzo(k)fluoranthene
Concen: 0.063 ng
RT: 22.465 min Scan# 24
Delta R.T. -0.006 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Tgt Ion:252 Resp: 198

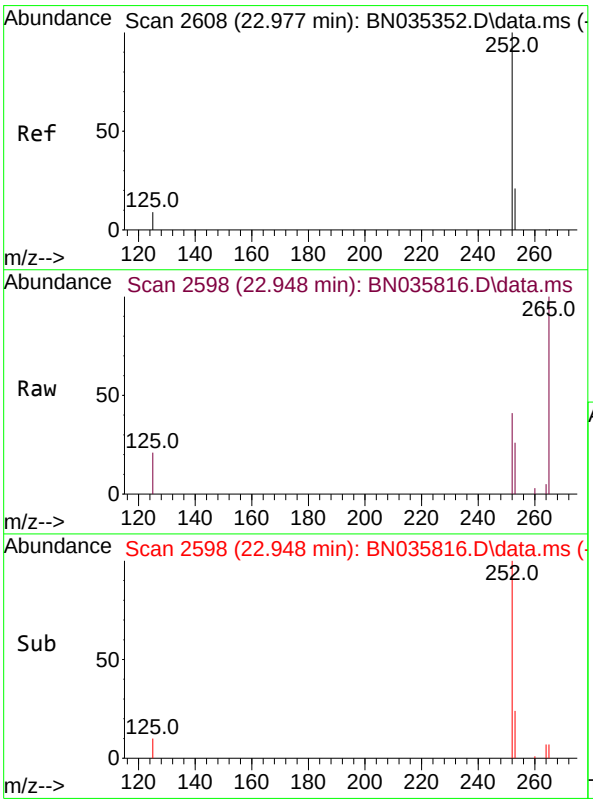
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 45.6 | 19.5 | 29.3# |
| 125 | 36.7 | 10.2 | 15.4# |




**Instrument :**
BNA_N
**ClientSampleId :**
RE115D2-20241218

**Manual Integrations APPROVED**

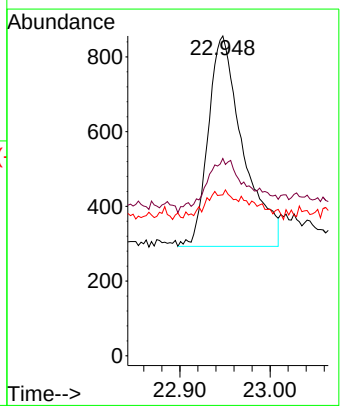
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

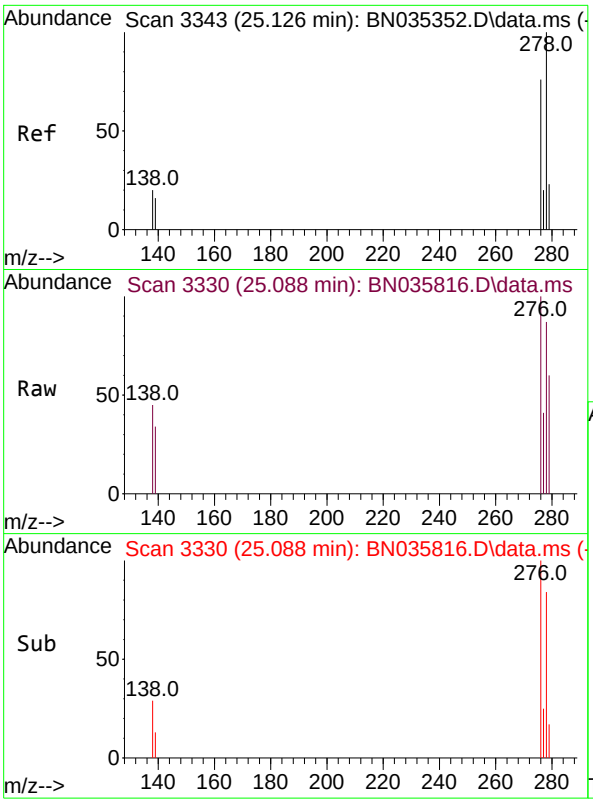



#39
Benzo(a)pyrene
Concen: 0.057 ng
RT: 22.948 min Scan# 2598
Delta R.T. -0.003 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Tgt Ion:252 Resp: 1503

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 61.7 | 20.2 | 30.4# |
| 125 | 50.4 | 10.9 | 16.3# |

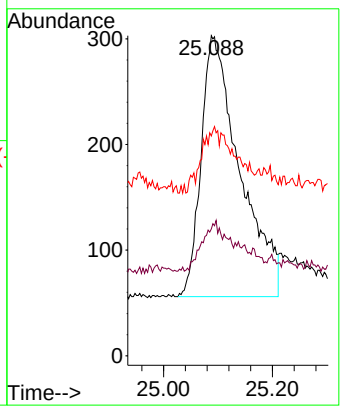





#40
Dibenzo(a,h)anthracene
Concen: 0.045 ng
RT: 25.088 min Scan# 3
Delta R.T. 0.006 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Tgt Ion:278 Resp: 122

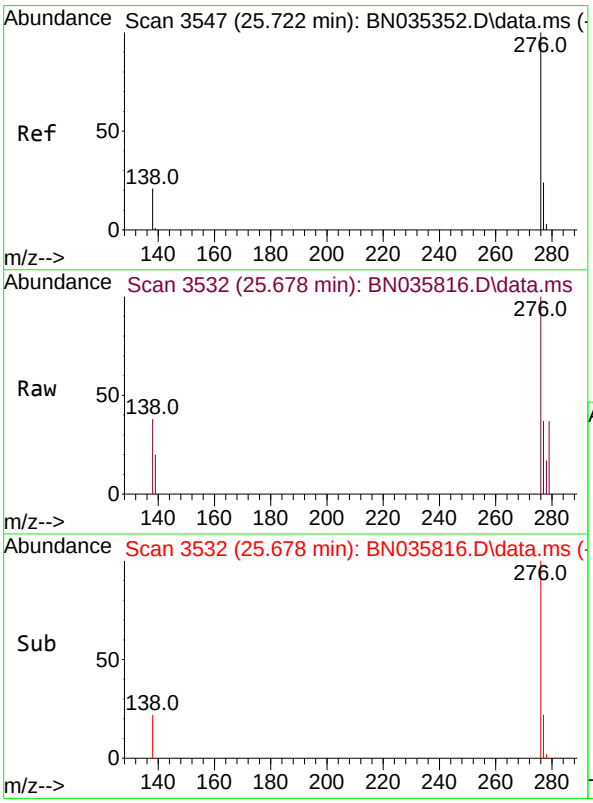
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 39.6 | 14.2 | 21.4# |
| 279 | 68.6 | 20.5 | 30.7# |




**Instrument :**
BNA_N
**ClientSampleId :**
RE115D2-20241218

**Manual Integrations**
**APPROVED**

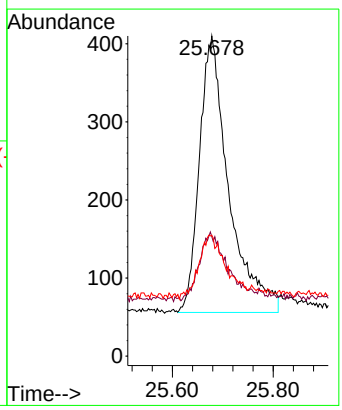
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024




#41
Benzo(g,h,i)perylene
Concen: 0.051 ng
RT: 25.678 min Scan# 3532
Delta R.T. -0.000 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Tgt Ion:276 Resp: 1434

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 37.3 | 19.9 | 29.9# |
| 138 | 37.8 | 17.8 | 26.8# |



Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | AECOM Technical Services, Inc. | Date Collected: | 12/18/24 |
| Project: | NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258 | Date Received: | 12/20/24 |
| Client Sample ID: | RE115D2-20241218DL | SDG No.: | P5376 |
| Lab Sample ID: | P5376-03DL | Matrix: | Water |
| Analytical Method: | SW8270ESIM | % Solid: | 0 |
| Sample Wt/Vol: | 970 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-SIMGroup1 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BN035854.D | 5 | 12/23/24 13:29 | 12/26/24 15:30 | PB165828 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 123-91-1 | 1,4-Dioxane | 10.3 | D | 0.35 | 1.00 | 1.00 | ug/L |
| **SURROGATES** | | | | | | | |
| 7297-45-2 | 2-Methylnaphthalene-d10 | 0.40 | | 30 - 150 | | 100% | SPK: 0.4 |
| 93951-69-0 | Fluoranthene-d10 | 0.48 | | 30 - 150 | | 120% | SPK: 0.4 |
| 4165-60-0 | Nitrobenzene-d5 | 0.53 | * | 55 - 111 | | 131% | SPK: 0.4 |
| 321-60-8 | 2-Fluorobiphenyl | 0.42 | | 53 - 106 | | 104% | SPK: 0.4 |
| 1718-51-0 | Terphenyl-d14 | 0.66 | * | 58 - 132 | | 164% | SPK: 0.4 |
| **INTERNAL STANDARDS** | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 2750 | 7.257 | | | | |
| 1146-65-2 | Naphthalene-d8 | 6130 | 10.009 | | | | |
| 15067-26-2 | Acenaphthene-d10 | 4190 | 13.924 | | | | |
| 1517-22-2 | Phenanthrene-d10 | 9270 | 16.698 | | | | |
| 1719-03-5 | Chrysene-d12 | 7350 | 20.947 | | | | |
| 1520-96-3 | Perylene-d12 | 6900 | 23.029 | | | | |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
Data File : BN035854.D
Acq On : 26 Dec 2024 15:30
Operator : RC/JU
Sample : P5376-03DL 5X
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
RE115D2-20241218DL

**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

Quant Time: Dec 27 00:41:35 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.257 | 152 | 2752 | 0.400 | ng | -0.01 |
| 7) Naphthalene-d8 | 10.009 | 136 | 6133 | 0.400 | ng | -0.01 |
| 13) Acenaphthene-d10 | 13.924 | 164 | 4189 | 0.400 | ng | -0.01 |
| 19) Phenanthrene-d10 | 16.698 | 188 | 9267 | 0.400 | ng | # 0.00 |
| 29) Chrysene-d12 | 20.947 | 240 | 7345 | 0.400 | ng | # 0.00 |
| 35) Perylene-d12 | 23.029 | 264 | 6900 | 0.400 | ng | #-0.01 |
| System Monitoring Compounds | | | | | | |
| 4) 2-Fluorophenol | 4.924 | 112 | 170 | 0.025 | ng | -0.01 |
| 5) Phenol-d6 | 6.477 | 99 | 80 | 0.010 | ng | -0.01 |
| 8) Nitrobenzene-d5 | 8.418 | 82 | 392m | 0.105 | ng | 0.01 |
| 11) 2-Methylnaphthalene-d10 | 11.641 | 152 | 768 | 0.080 | ng | 0.02 |
| 14) 2,4,6-Tribromophenol | 15.464 | 330 | 143 | 0.048 | ng | 0.01 |
| 15) 2-Fluorobiphenyl | 12.559 | 172 | 1316 | 0.083 | ng | 0.01 |
| 27) Fluoranthene-d10 | 18.757 | 212 | 2532 | 0.096 | ng | 0.00 |
| 31) Terphenyl-d14 | 19.379 | 244 | 1897 | 0.131 | ng | 0.00 |
| Target Compounds | | | | | | Qvalue |
| 2) 1,4-Dioxane | 2.974 | 88 | 5250 | 1.996 | ng | 99 |
| 9) Naphthalene | 10.052 | 128 | 468 | 0.029 | ng | # 41 |
| 16) Acenaphthylene | 13.636 | 152 | 389 | 0.022 | ng | 95 |
| 17) Acenaphthene | 13.989 | 154 | 244 | 0.021 | ng | 96 |
| 25) Phenanthrene | 16.748 | 178 | 675m | 0.027 | ng | |
| 26) Anthracene | 16.847 | 178 | 538m | 0.023 | ng | |
| 28) Fluoranthene | 18.784 | 202 | 749 | 0.022 | ng | 99 |
| 30) Pyrene | 19.151 | 202 | 773 | 0.029 | ng | 98 |
| 33) Chrysene | 20.982 | 228 | 652 | 0.025 | ng | # 79 |
| 34) Bis(2-ethylhexyl)phtha... | 20.893 | 149 | 272 | 0.027 | ng | # 91 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

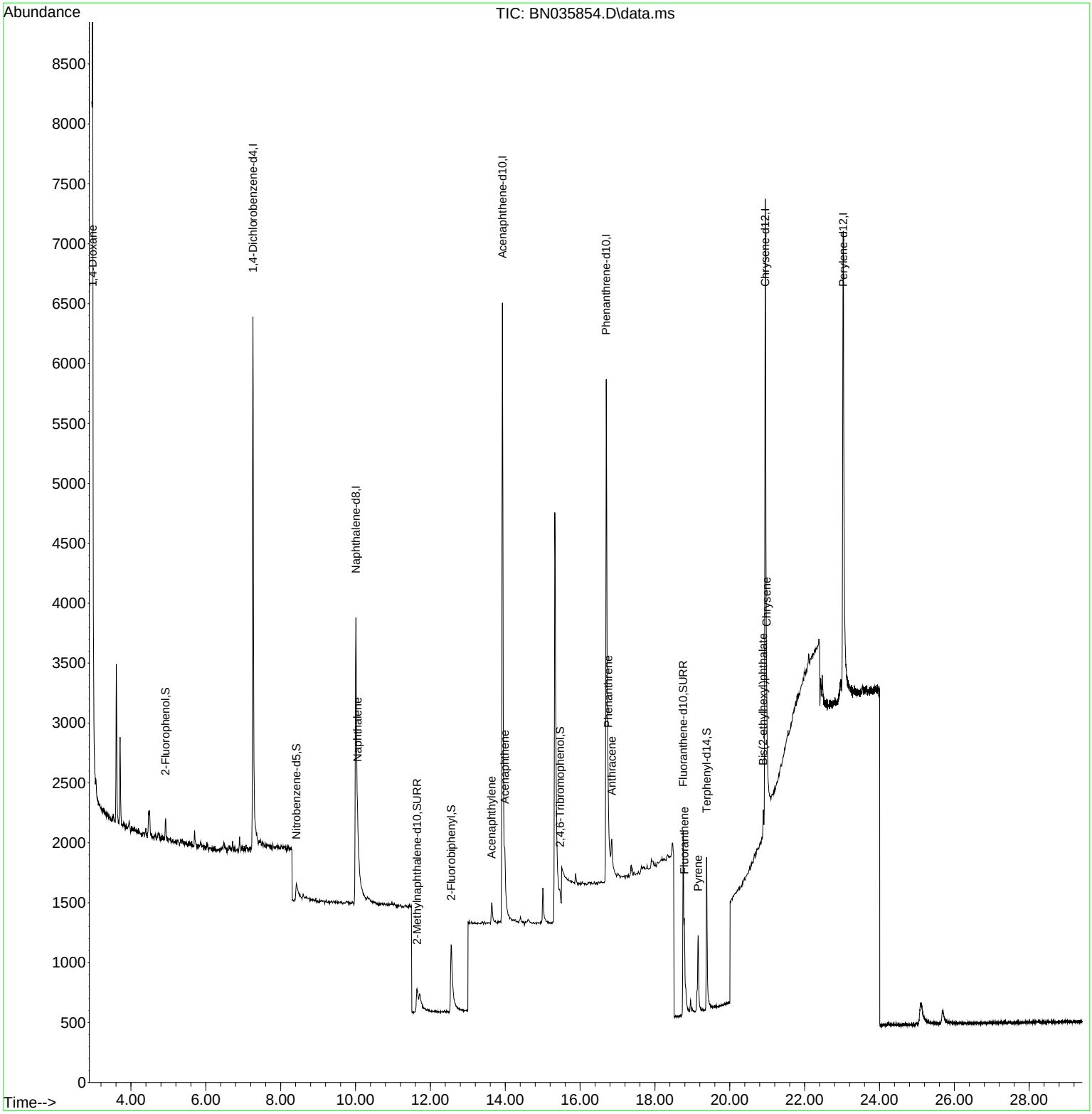
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
Data File : BN035854.D
Acq On : 26 Dec 2024 15:30
Operator : RC/JU
Sample : P5376-03DL 5X
Misc :
ALS Vial : 11 Sample Multiplier: 1

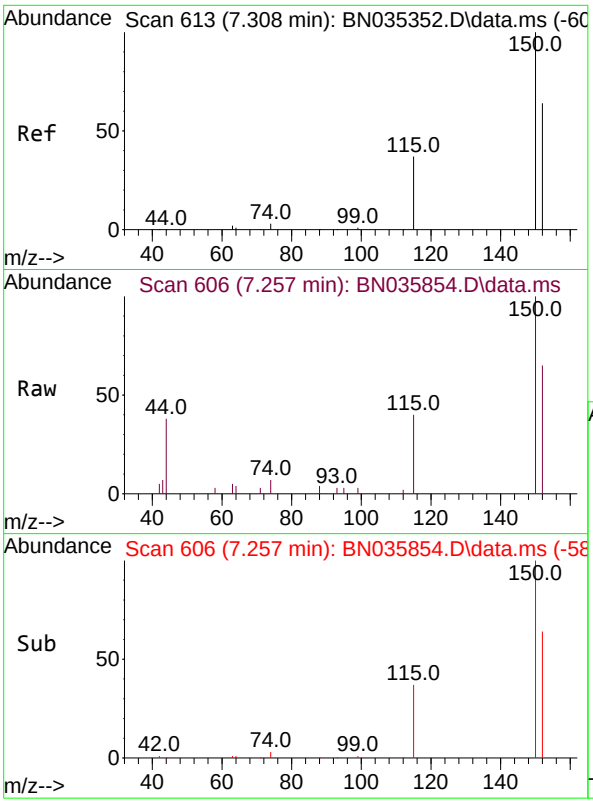
Quant Time: Dec 27 00:41:35 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

**Instrument :**
BNA_N
**ClientSampleId :**
RE115D2-20241218DL

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

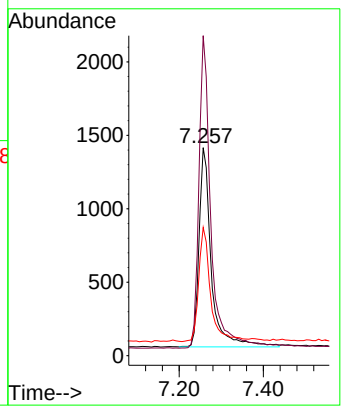





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 6
Delta R.T. -0.015 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

Tgt Ion:152 Resp: 275

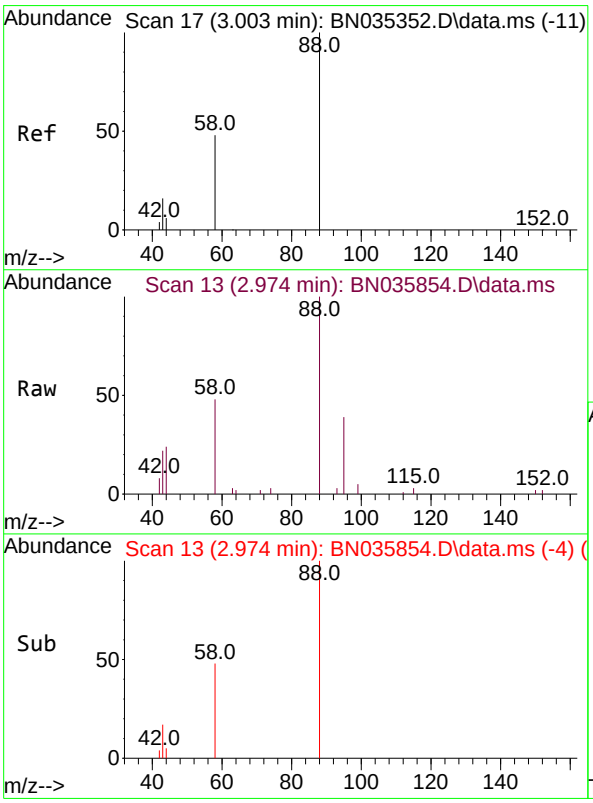
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 153.8 | 124.0 | 186.0 |
| 115 | 61.7 | 49.6 | 74.4 |




**Instrument :**
BNA_N
**ClientSampleId :**
RE115D2-20241218DL

**Manual Integrations**
**APPROVED**

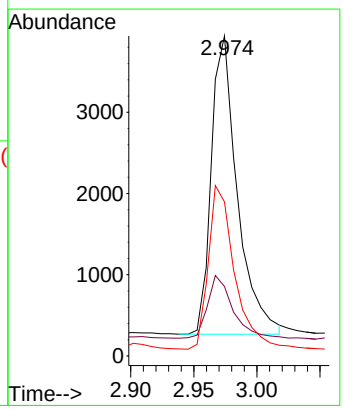
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

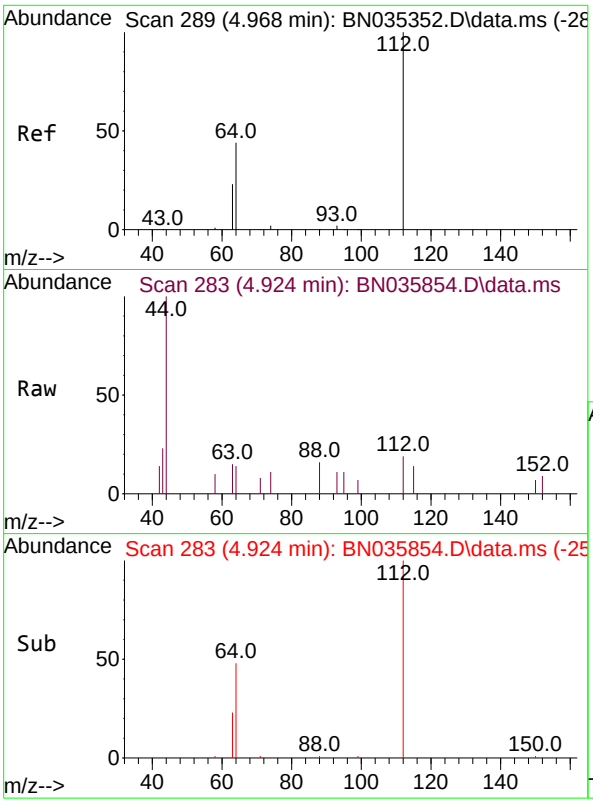



#2
1,4-Dioxane
Concen: 1.996 ng
RT: 2.974 min Scan# 13
Delta R.T. -0.008 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

Tgt Ion: 88 Resp: 5250

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 20.5 | 17.2 | 25.8 |
| 58 | 54.9 | 44.5 | 66.7 |






#4
2-Fluorophenol
Concen: 0.025 ng
RT: 4.924 min Scan# 2
Delta R.T. -0.015 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

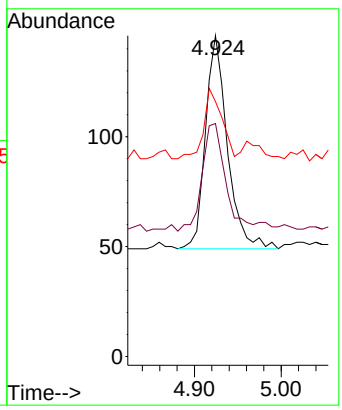
Tgt Ion:112 Resp: 17

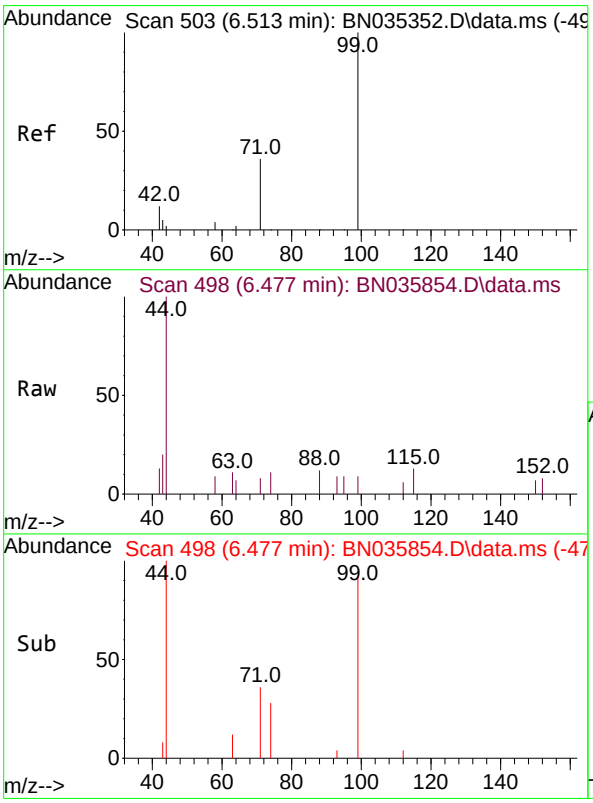
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 53.5 | 39.8 | 59.8 |
| 63 | 31.8 | 21.0 | 31.6# |

**Instrument :**
BNA_N
**ClientSampleId :**
RE115D2-20241218DL

**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

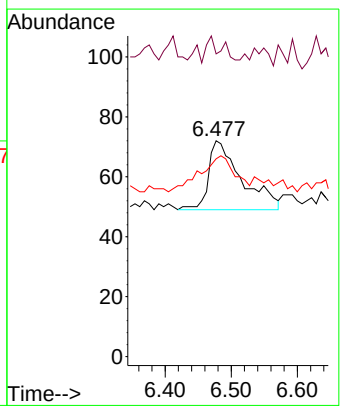


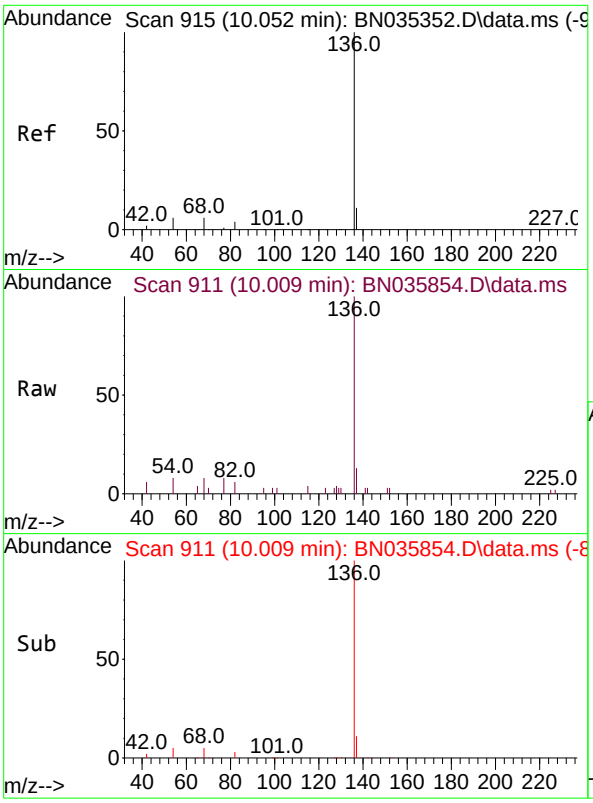




#5
Phenol-d6
Concen: 0.010 ng
RT: 6.477 min Scan# 498
Delta R.T. -0.015 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

Tgt Ion: 99 Resp: 80

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 12.5 | 11.4 | 17.2 |
| 71 | 53.8 | 29.3 | 43.9# |

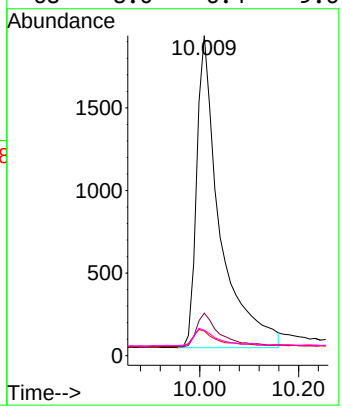





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

Tgt Ion:136 Resp: 613

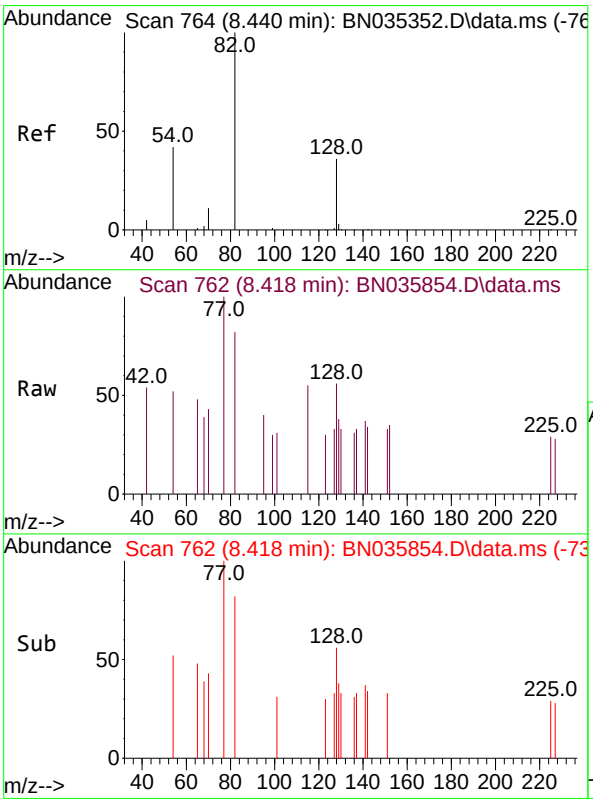
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 13.3 | 10.2 | 15.2 |
| 54 | 7.7 | 6.1 | 9.1 |
| 68 | 8.0 | 6.4 | 9.6 |




**Instrument :**
BNA_N
**ClientSampleId :**
RE115D2-20241218DL

**Manual Integrations**
**APPROVED**

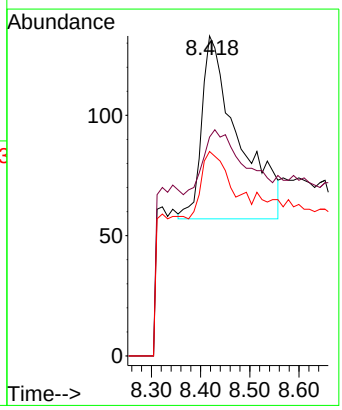
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

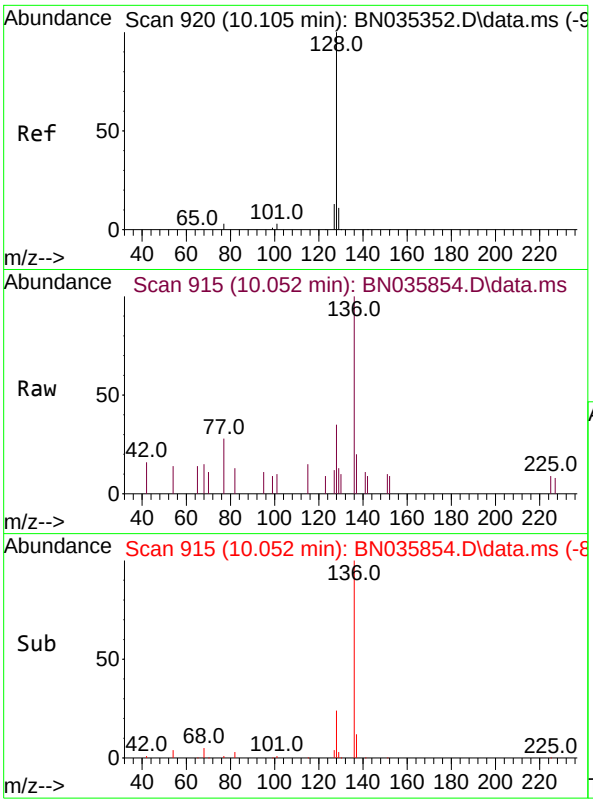



#8
Nitrobenzene-d5
Concen: 0.105 ng m
RT: 8.418 min Scan# 762
Delta R.T. 0.010 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

Tgt Ion: 82 Resp: 392

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 68.4 | 33.4 | 50.0# |
| 54 | 63.9 | 36.7 | 55.1# |

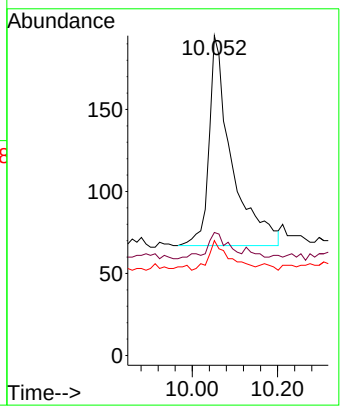





#9
Naphthalene
Concen: 0.029 ng
RT: 10.052 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

Tgt Ion:128 Resp: 46

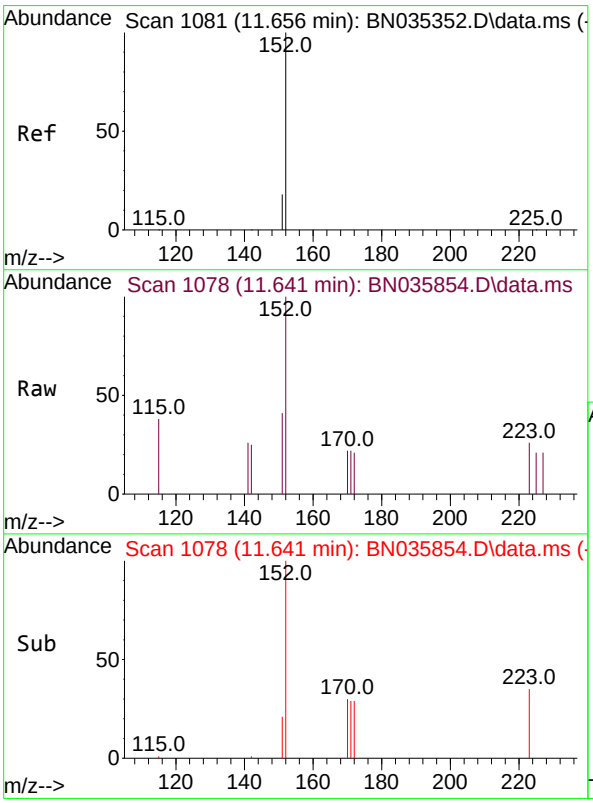
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 38.5 | 9.8 | 14.6# |
| 127 | 35.9 | 11.4 | 17.2# |




**Instrument :**
BNA_N
**ClientSampleId :**
RE115D2-20241218DL

**Manual Integrations**
**APPROVED**

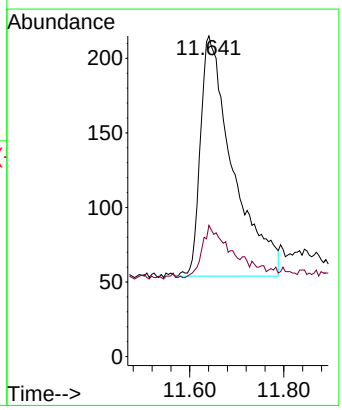
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

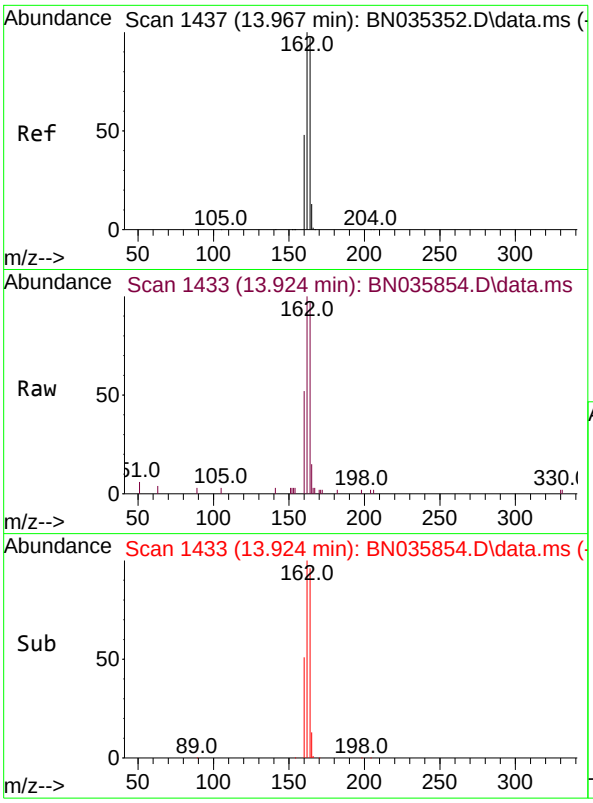



#11
2-Methylnaphthalene-d10
Concen: 0.080 ng
RT: 11.641 min Scan# 1078
Delta R.T. 0.020 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

Tgt Ion:152 Resp: 768

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 16.5 | 16.6 | 25.0# |

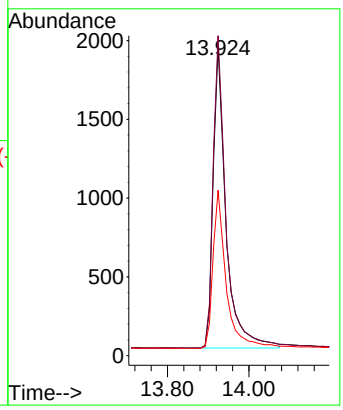





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.924 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

Tgt Ion:164 Resp: 418

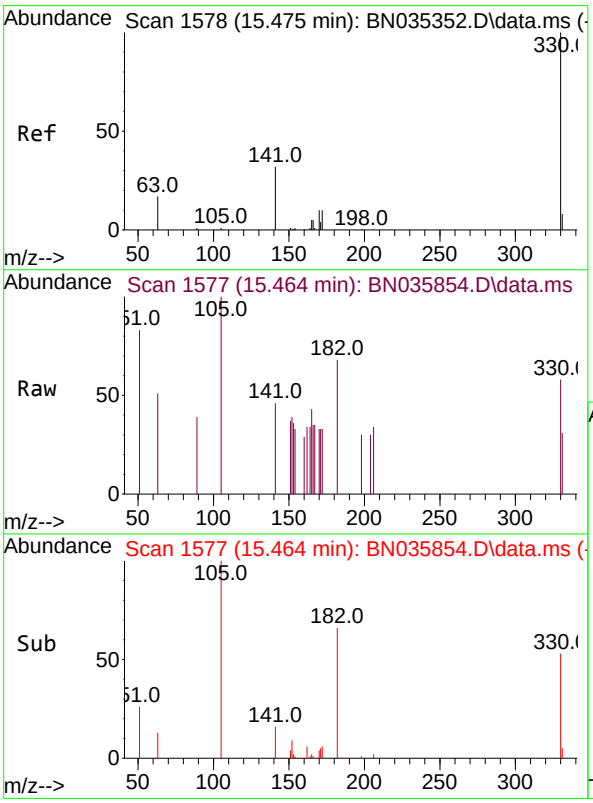
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 103.5 | 82.2 | 123.2 |
| 160 | 53.5 | 40.1 | 60.1 |




**Instrument :**
BNA_N
**ClientSampleId :**
RE115D2-20241218DL

**Manual Integrations**
**APPROVED**

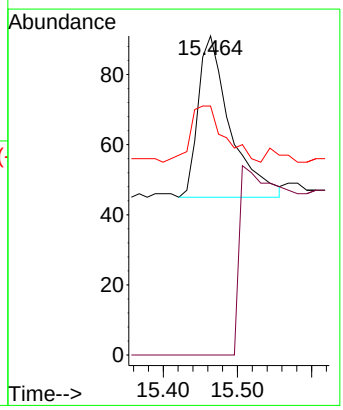
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

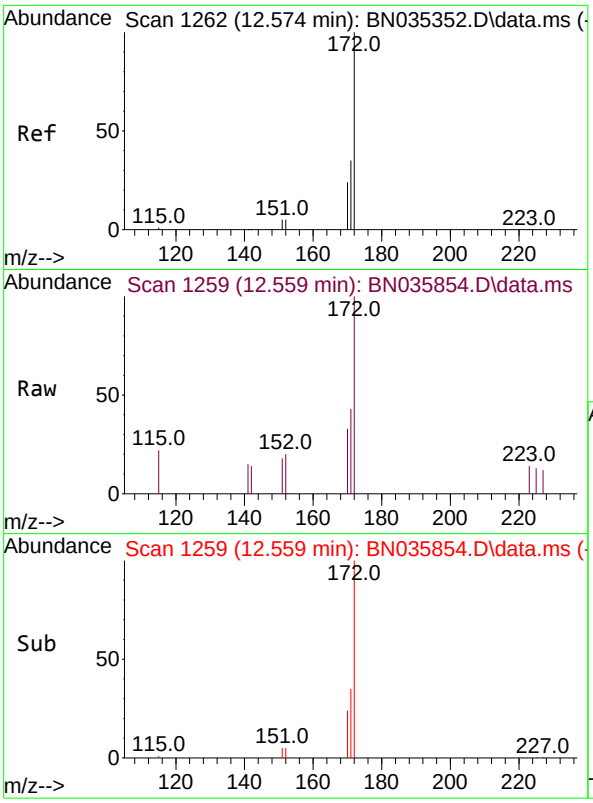



#14
2,4,6-Tribromophenol
Concen: 0.048 ng
RT: 15.464 min Scan# 1577
Delta R.T. 0.010 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

Tgt Ion:330 Resp: 143

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 0.0 | 0.0 | 0.0 |
| 141 | 38.5 | 26.6 | 40.0 |

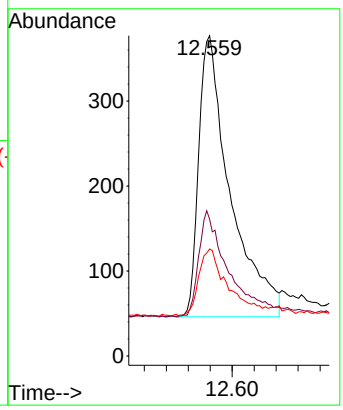





#15
2-Fluorobiphenyl
Concen: 0.083 ng
RT: 12.559 min Scan# 1
Delta R.T. 0.015 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

Tgt Ion:172 Resp: 131

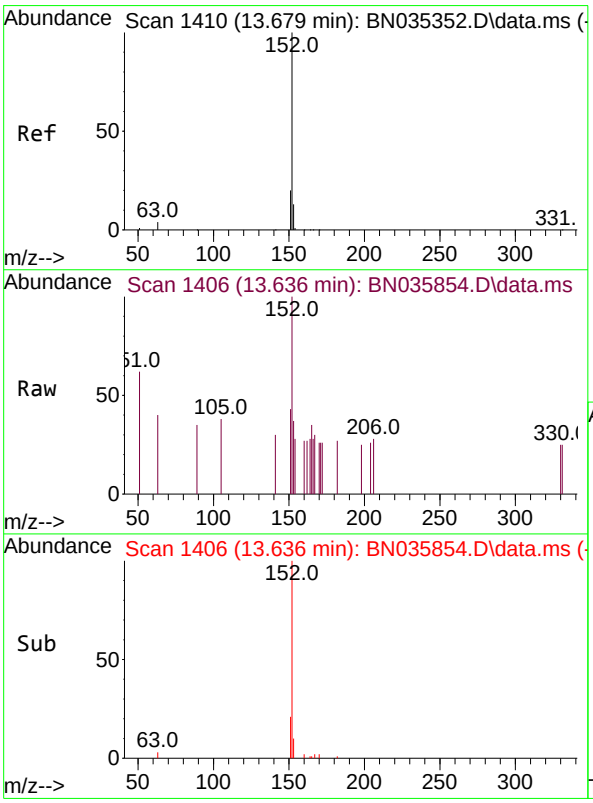
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 42.7 | 29.0 | 43.4 |
| 170 | 33.4 | 19.8 | 29.8 |




**Instrument :**
BNA_N
**ClientSampleId :**
RE115D2-20241218DL

**Manual Integrations**
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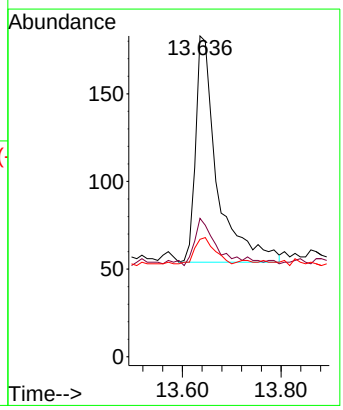
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

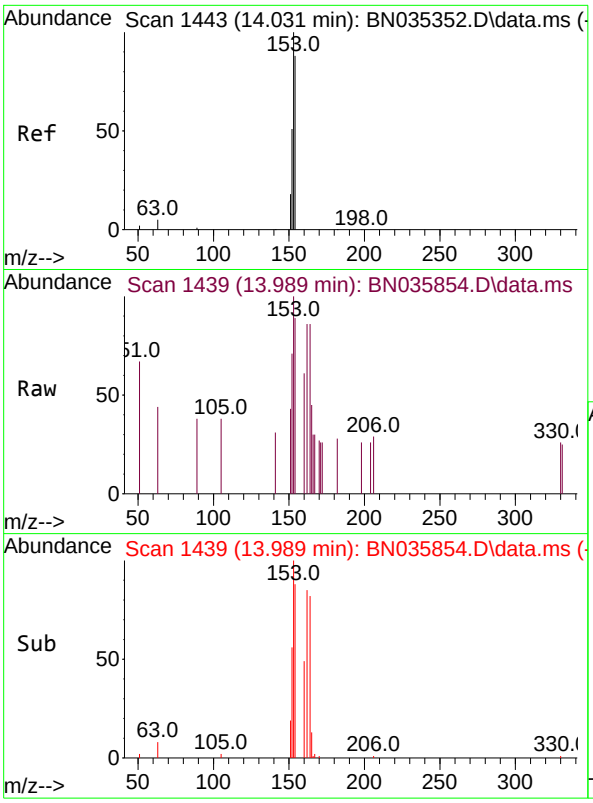



#16
Acenaphthylene
Concen: 0.022 ng
RT: 13.636 min Scan# 1406
Delta R.T. -0.011 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

Tgt Ion:152 Resp: 389

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 22.4 | 16.2 | 24.2 |
| 153 | 10.5 | 10.4 | 15.6 |

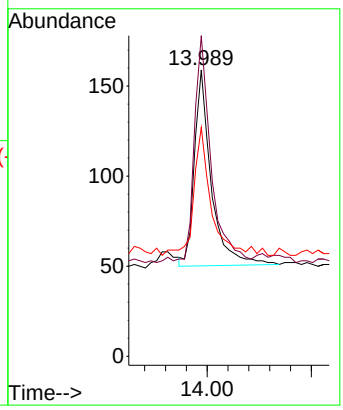





#17
Acenaphthene
Concen: 0.021 ng
RT: 13.989 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

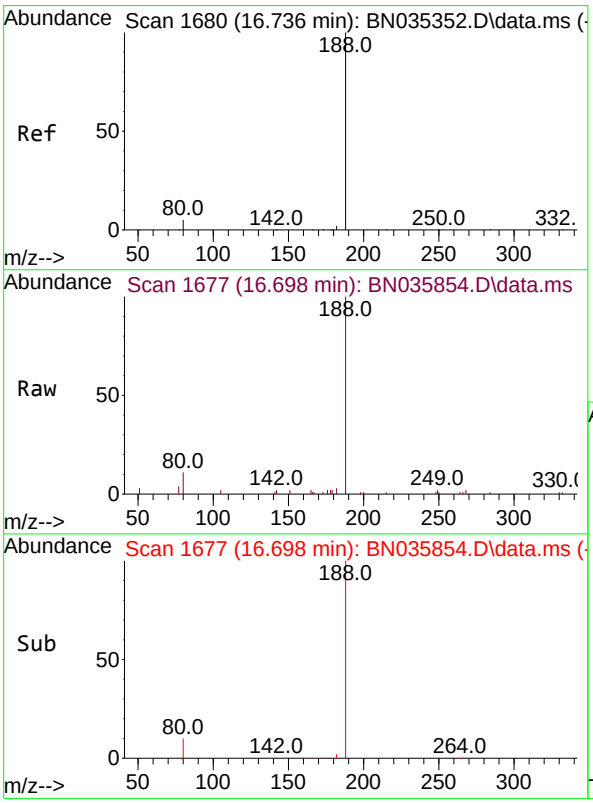
Tgt Ion:154 Resp: 244

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 111.9 | 92.6 | 139.0 |
| 152 | 65.2 | 49.0 | 73.6 |




**Instrument :**
BNA_N
**ClientSampleId :**
RE115D2-20241218DL

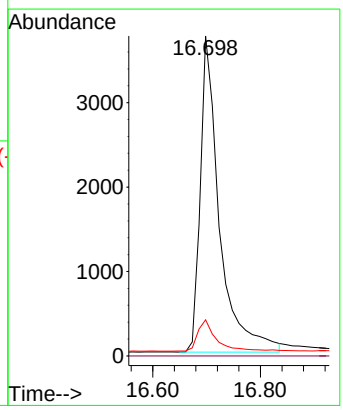
**Manual Integrations**
**APPROVED**
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

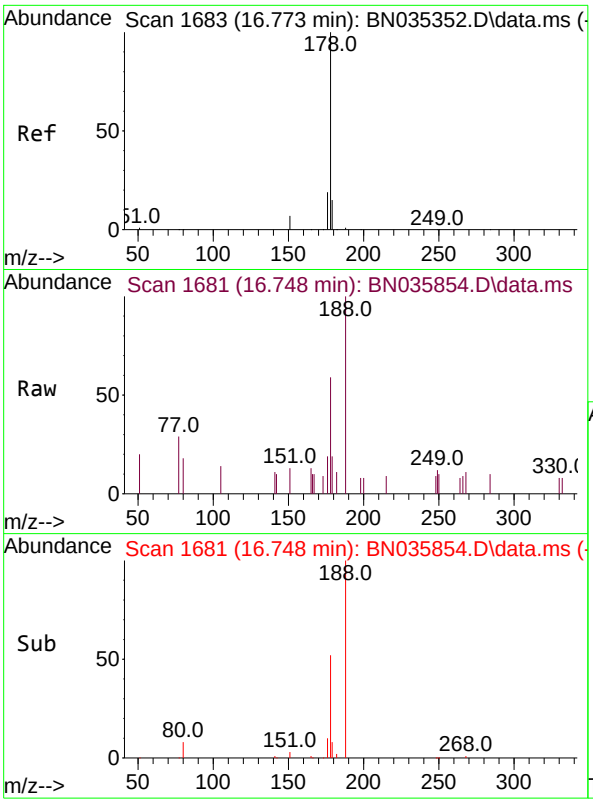



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1677
Delta R.T. -0.000 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

Tgt Ion:188 Resp: 9267

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 11.3 | 4.6 | 6.8# |






#25
Phenanthrene
Concen: 0.027 ng m
RT: 16.748 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

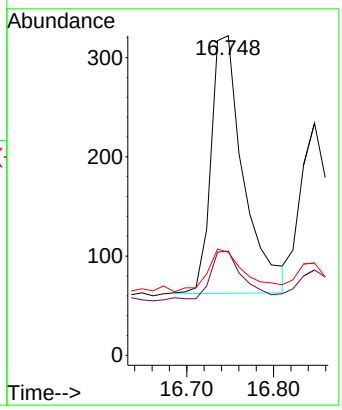
Tgt Ion:178 Resp: 67

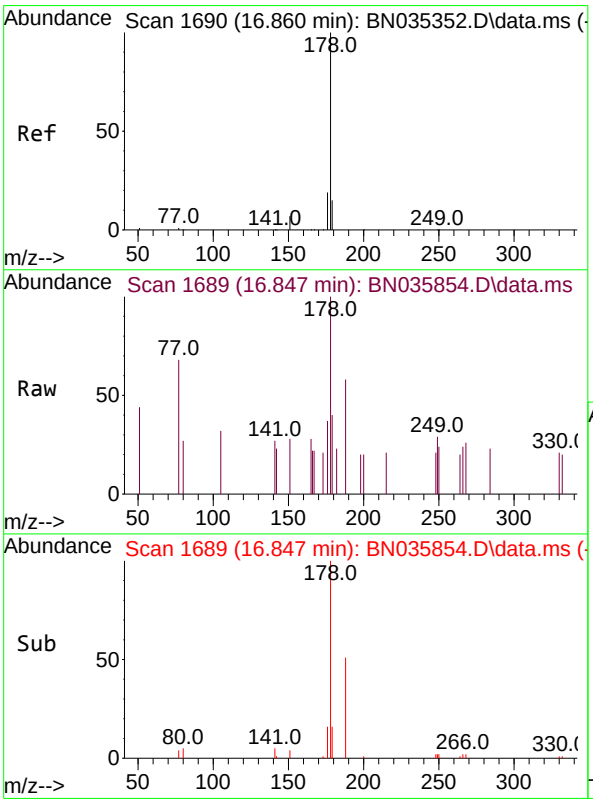
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 9.8 | 15.4 | 23.2# |
| 179 | 8.4 | 12.3 | 18.5# |

**Instrument :**
BNA_N
**ClientSampleId :**
RE115D2-20241218DL

**Manual Integrations**
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Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

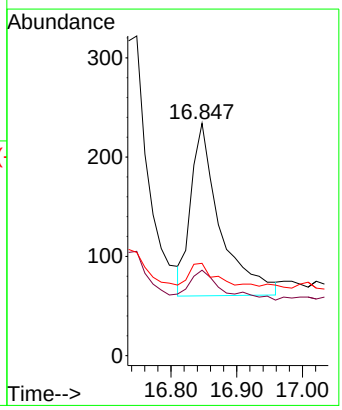


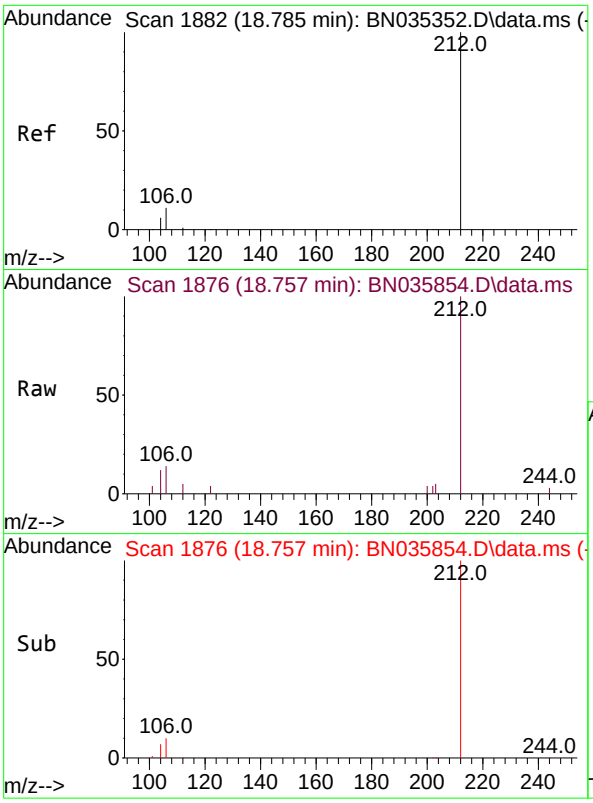




#26
Anthracene
Concen: 0.023 ng m
RT: 16.847 min Scan# 1689
Delta R.T. 0.012 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

Tgt Ion:178 Resp: 538

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 25.5 | 15.0 | 22.6# |
| 179 | 24.2 | 12.6 | 18.8# |

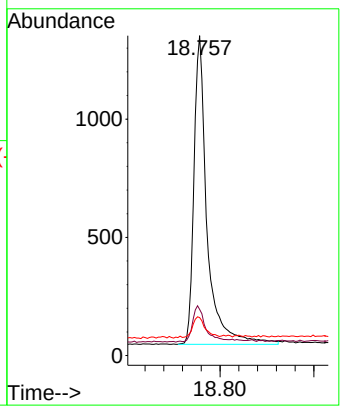





#27
Fluoranthene-d10
Concen: 0.096 ng
RT: 18.757 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

Tgt Ion:212 Resp: 253

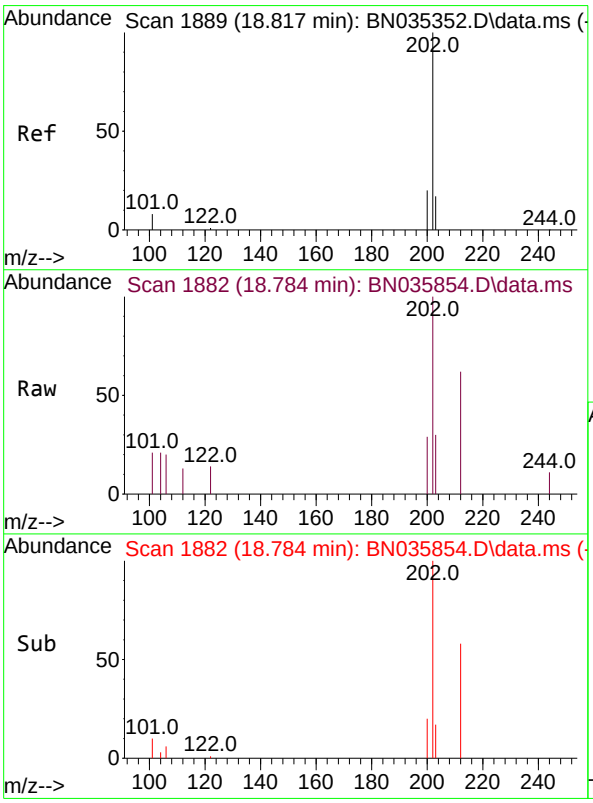
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 11.8 | 9.2 | 13.8 |
| 104 | 6.4 | 5.3 | 7.9 |




**Instrument :**
BNA_N
**ClientSampleId :**
RE115D2-20241218DL

**Manual Integrations**
**APPROVED**

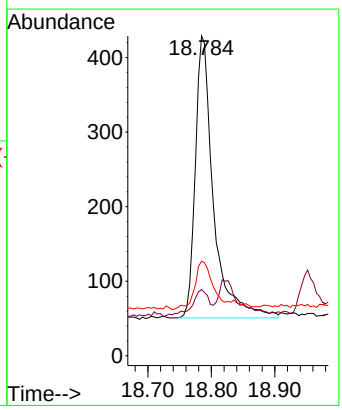
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

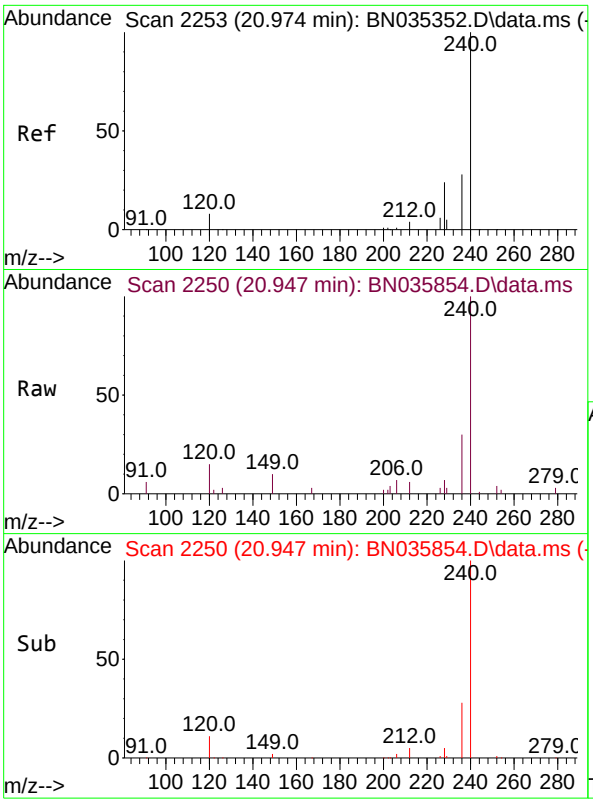



#28
Fluoranthene
Concen: 0.022 ng
RT: 18.784 min Scan# 1882
Delta R.T. -0.005 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

Tgt Ion:202 Resp: 749

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 8.4 | 7.4 | 11.0 |
| 203 | 17.1 | 13.7 | 20.5 |

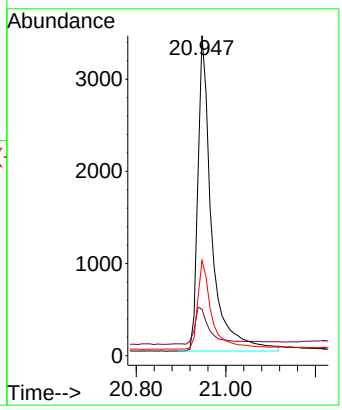





#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

Tgt Ion:240 Resp: 734

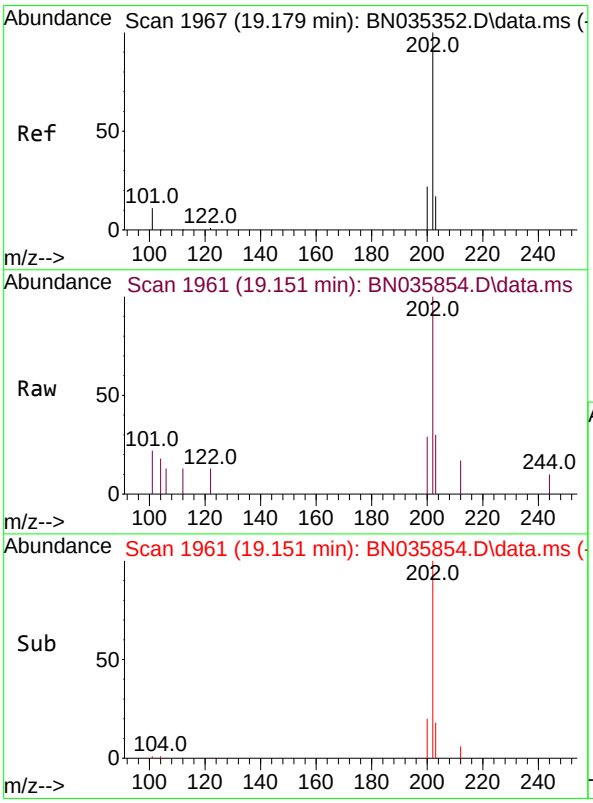
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 14.5 | 7.9 | 11.9 |
| 236 | 29.8 | 22.9 | 34.3 |




**Instrument :**
BNA_N
**ClientSampleId :**
RE115D2-20241218DL

**Manual Integrations**
**APPROVED**

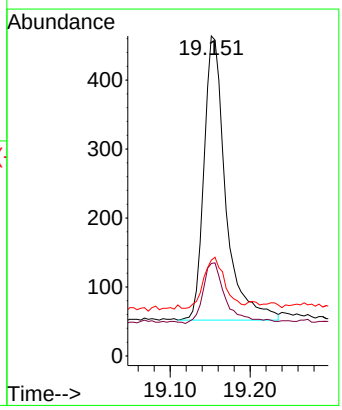
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

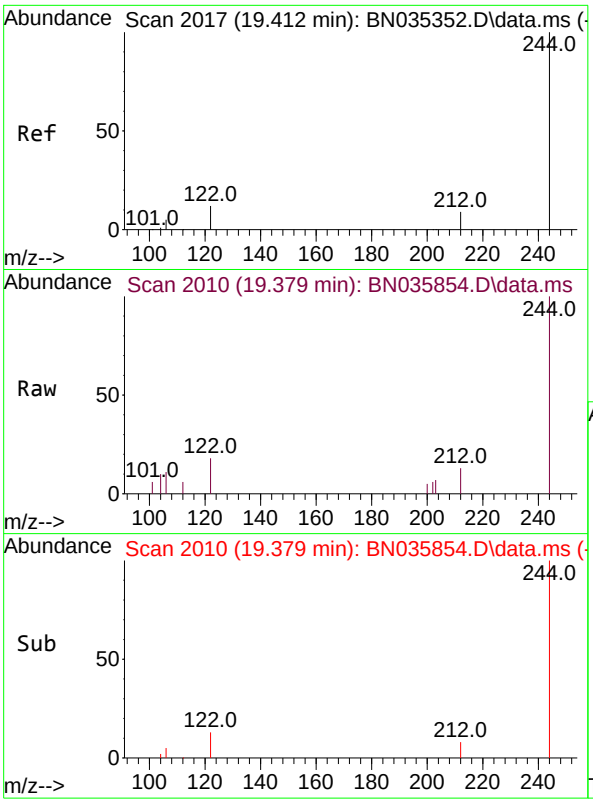



#30
Pyrene
Concen: 0.029 ng
RT: 19.151 min Scan# 1961
Delta R.T. -0.010 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

Tgt Ion:202 Resp: 773

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 22.8 | 17.0 | 25.4 |
| 203 | 17.5 | 14.3 | 21.5 |

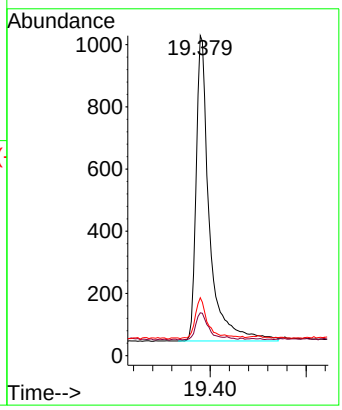





#31
Terphenyl-d14
Concen: 0.131 ng
RT: 19.379 min Scan# 2
Delta R.T. -0.010 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

Tgt Ion:244 Resp: 189

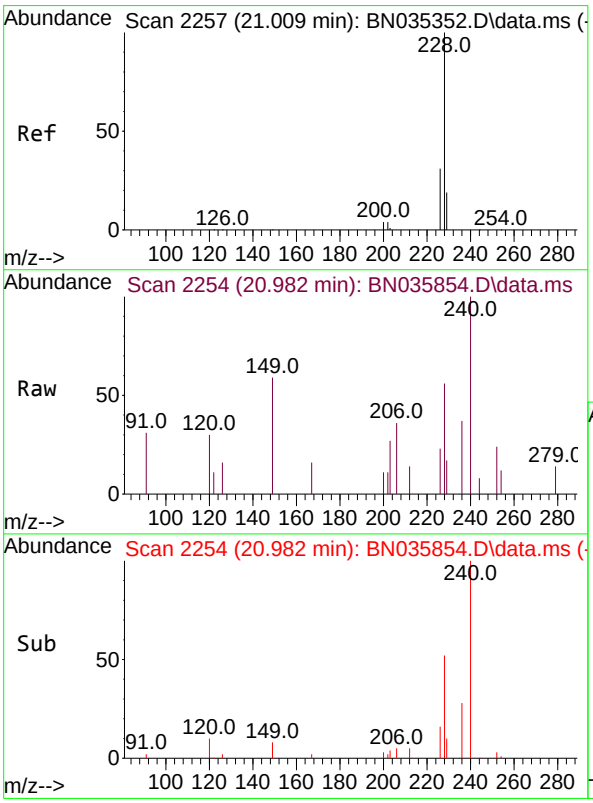
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 13.4 | 8.1 | 12.1# |
| 122 | 18.1 | 10.3 | 15.5# |




**Instrument :**
BNA_N
**ClientSampleId :**
RE115D2-20241218DL

**Manual Integrations APPROVED**

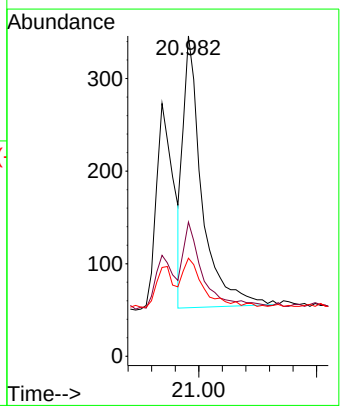
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

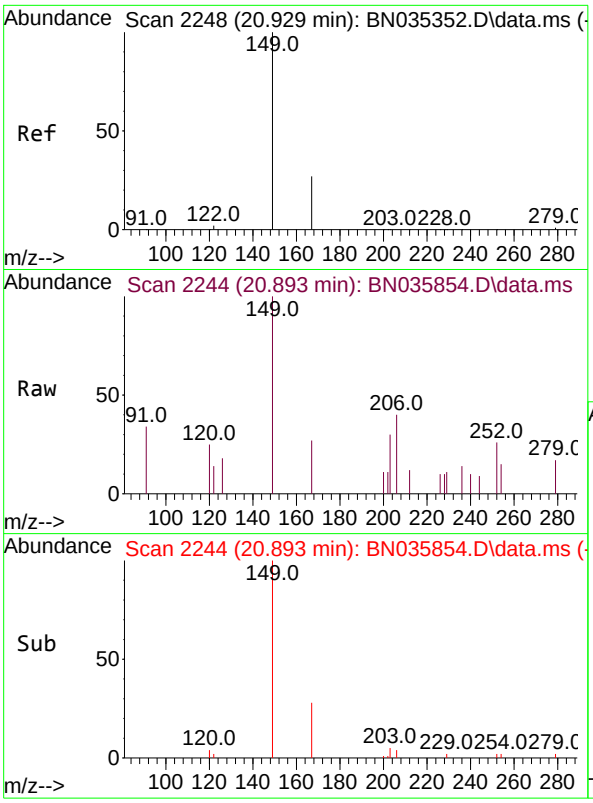



#33
Chrysene
Concen: 0.025 ng
RT: 20.982 min Scan# 2254
Delta R.T. -0.009 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

Tgt Ion:228 Resp: 652

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 41.9 | 24.6 | 37.0# |
| 229 | 30.6 | 15.9 | 23.9# |






#34
Bis(2-ethylhexyl)phthalate
Concen: 0.027 ng
RT: 20.893 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

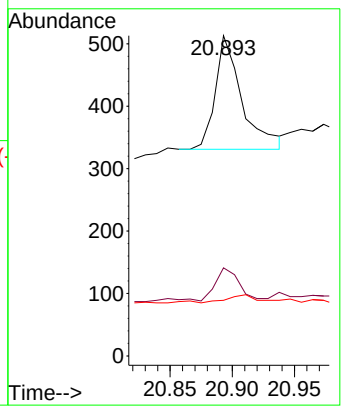
Tgt Ion:149 Resp: 27

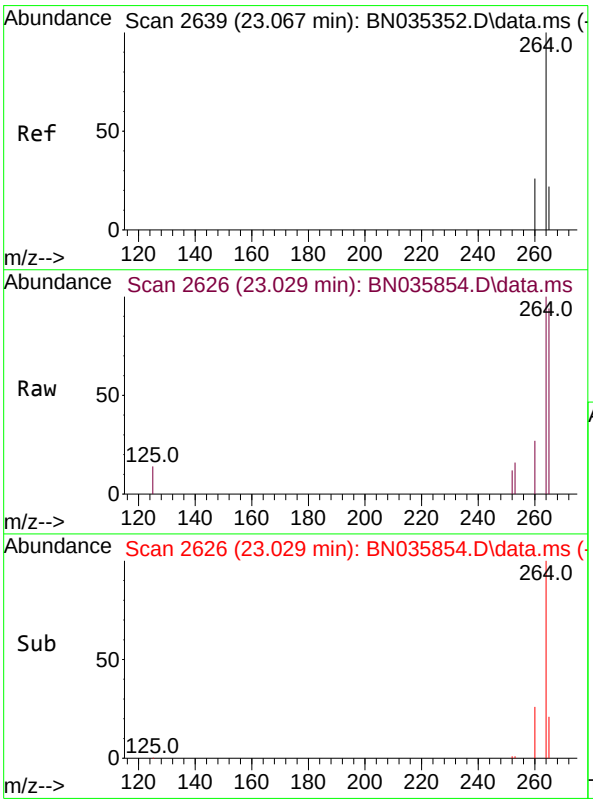
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 23.2 | 22.2 | 33.4 |
| 279 | 7.4 | 2.7 | 4.1# |

**Instrument :**
BNA_N
**ClientSampleId :**
RE115D2-20241218DL

**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

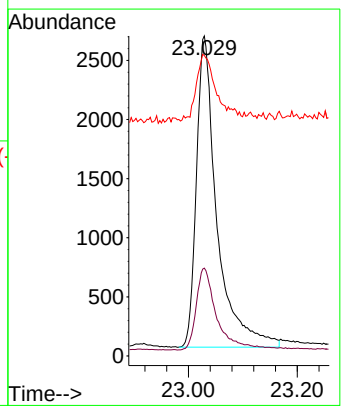



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.029 min Scan# 2626
Delta R.T. -0.012 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

Tgt Ion:264 Resp: 6900

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 27.4 | 21.4 | 32.2 |
| 265 | 93.9 | 40.2 | 60.4# |



Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | AECOM Technical Services, Inc. | Date Collected: | 12/18/24 |
| Project: | NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258 | Date Received: | 12/20/24 |
| Client Sample ID: | TT149S1-20241218 | SDG No.: | P5376 |
| Lab Sample ID: | P5376-04 | Matrix: | Water |
| Analytical Method: | SW8270ESIM | % Solid: | 0 |
| Sample Wt/Vol: | 970 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-SIMGroup1 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BN035817.D | 1 | 12/23/24 13:29 | 12/24/24 12:33 | PB165828 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 123-91-1 | 1,4-Dioxane | 0.28 | | 0.070 | 0.21 | 0.21 | ug/L |
| **SURROGATES** | | | | | | | |
| 7297-45-2 | 2-Methylnaphthalene-d10 | 0.33 | | 30 - 150 | | 82% | SPK: 0.4 |
| 93951-69-0 | Fluoranthene-d10 | 0.39 | | 30 - 150 | | 97% | SPK: 0.4 |
| 4165-60-0 | Nitrobenzene-d5 | 0.37 | | 55 - 111 | | 92% | SPK: 0.4 |
| 321-60-8 | 2-Fluorobiphenyl | 0.36 | | 53 - 106 | | 89% | SPK: 0.4 |
| 1718-51-0 | Terphenyl-d14 | 0.55 | * | 58 - 132 | | 138% | SPK: 0.4 |
| **INTERNAL STANDARDS** | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 2880 | 7.264 | | | | |
| 1146-65-2 | Naphthalene-d8 | 6880 | 10.009 | | | | |
| 15067-26-2 | Acenaphthene-d10 | 4350 | 13.925 | | | | |
| 1517-22-2 | Phenanthrene-d10 | 9250 | 16.698 | | | | |
| 1719-03-5 | Chrysene-d12 | 8130 | 20.947 | | | | |
| 1520-96-3 | Perylene-d12 | 8130 | 23.027 | | | | |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035817.D
Acq On : 24 Dec 2024 12:33
Operator : RC/JU
Sample : P5376-04
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 24 23:17:43 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

**Instrument :**
BNA_N
**ClientSampleId :**
TT149S1-20241218

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.264 | 152 | 2882 | 0.400 | ng | 0.00 |
| 7) Naphthalene-d8 | 10.009 | 136 | 6877 | 0.400 | ng | -0.01 |
| 13) Acenaphthene-d10 | 13.925 | 164 | 4352 | 0.400 | ng | -0.01 |
| 19) Phenanthrene-d10 | 16.698 | 188 | 9250 | 0.400 | ng | # 0.00 |
| 29) Chrysene-d12 | 20.947 | 240 | 8129 | 0.400 | ng | 0.00 |
| 35) Perylene-d12 | 23.027 | 264 | 8126 | 0.400 | ng | #-0.01 |
| **System Monitoring Compounds** | | | | | | |
| 4) 2-Fluorophenol | 4.924 | 112 | 816 | 0.113 | ng | -0.01 |
| 5) Phenol-d6 | 6.477 | 99 | 466 | 0.054 | ng | -0.01 |
| 8) Nitrobenzene-d5 | 8.408 | 82 | 1548m | 0.369 | ng | 0.00 |
| 11) 2-Methylnaphthalene-d10 | 11.616 | 152 | 3542 | 0.329 | ng | 0.00 |
| 14) 2,4,6-Tribromophenol | 15.443 | 330 | 609 | 0.197 | ng | -0.01 |
| 15) 2-Fluorobiphenyl | 12.534 | 172 | 5853 | 0.356 | ng | -0.01 |
| 27) Fluoranthene-d10 | 18.748 | 212 | 10238 | 0.390 | ng | -0.01 |
| 31) Terphenyl-d14 | 19.379 | 244 | 8867 | 0.553 | ng | 0.00 |
| **Target Compounds** | | | | | | Qvalue |
| 2) 1,4-Dioxane | 2.982 | 88 | 759 | 0.275 | ng | # 85 |
| 9) Naphthalene | 10.052 | 128 | 1895 | 0.104 | ng | # 86 |
| 12) 2-Methylnaphthalene | 11.692 | 142 | 1157 | 0.089 | ng | # 90 |
| 16) Acenaphthylene | 13.636 | 152 | 1924 | 0.105 | ng | 98 |
| 17) Acenaphthene | 13.989 | 154 | 1204 | 0.099 | ng | 99 |
| 18) Fluorene | 14.994 | 166 | 1680 | 0.097 | ng | 99 |
| 25) Phenanthrene | 16.736 | 178 | 3237 | 0.127 | ng | 100 |
| 26) Anthracene | 16.835 | 178 | 2442 | 0.106 | ng | 98 |
| 28) Fluoranthene | 18.780 | 202 | 3731 | 0.109 | ng | 99 |
| 30) Pyrene | 19.147 | 202 | 4005 | 0.133 | ng | 99 |
| 32) Benzo(a)anthracene | 20.929 | 228 | 2676 | 0.094 | ng | 95 |
| 33) Chrysene | 20.983 | 228 | 3497 | 0.119 | ng | 97 |
| 34) Bis(2-ethylhexyl)phtha... | 20.893 | 149 | 786 | 0.070 | ng | # 98 |
| 36) Indeno(1,2,3-cd)pyrene | 25.064 | 276 | 2211 | 0.070 | ng | 99 |
| 37) Benzo(b)fluoranthene | 22.421 | 252 | 3364 | 0.113 | ng | # 65 |
| 38) Benzo(k)fluoranthene | 22.462 | 252 | 2940 | 0.100 | ng | # 60 |
| 39) Benzo(a)pyrene | 22.942 | 252 | 2085 | 0.085 | ng | # 38 |
| 40) Dibenzo(a,h)anthracene | 25.079 | 278 | 1701 | 0.068 | ng | # 44 |
| 41) Benzo(g,h,i)perylene | 25.667 | 276 | 1967 | 0.075 | ng | # 84 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

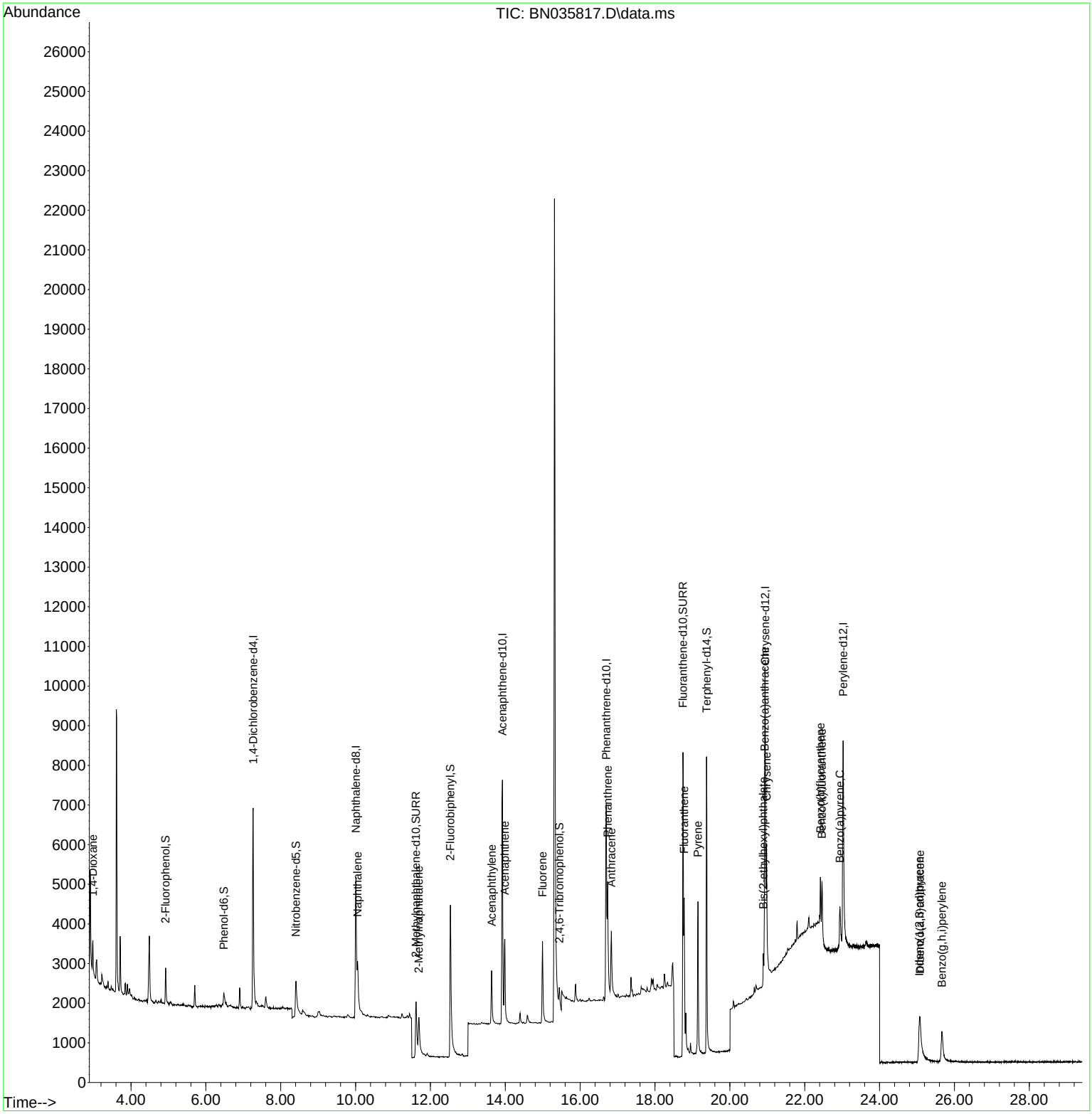
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Data File : BN035817.D
Acq On : 24 Dec 2024 12:33
Operator : RC/JU
Sample : P5376-04
Misc :
ALS Vial : 8 Sample Multiplier: 1

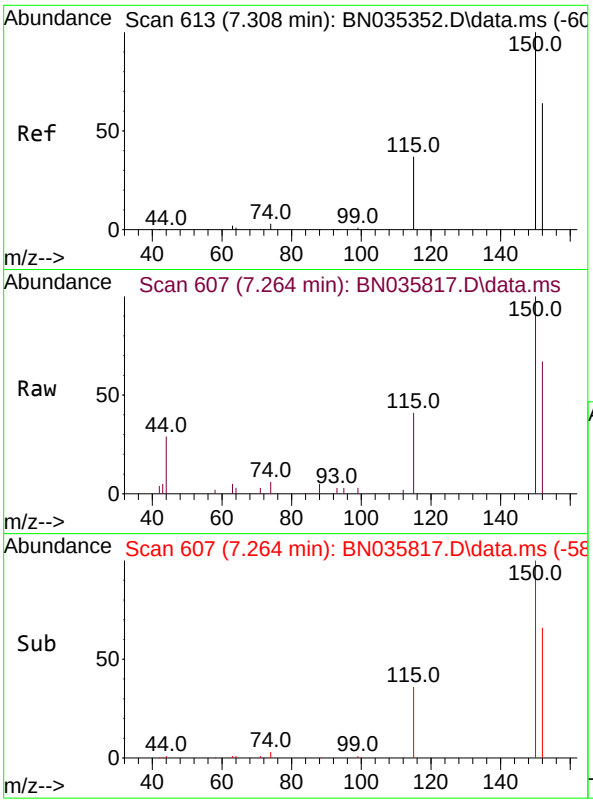
Quant Time: Dec 24 23:17:43 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

**Instrument :**
BNA_N
**ClientSampleId :**
TT149S1-20241218

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

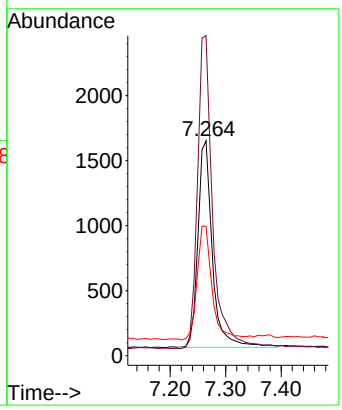





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.264 min Scan# 6
Delta R.T. -0.008 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

Tgt Ion:152 Resp: 288

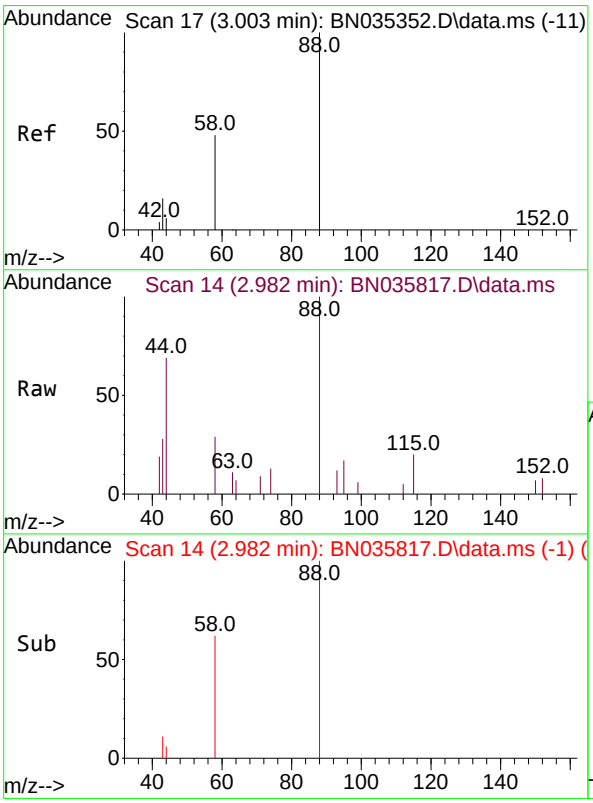
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 148.9 | 124.0 | 186.0 |
| 115 | 60.3 | 49.6 | 74.4 |




**Instrument :**
BNA_N
**ClientSampleId :**
TT149S1-20241218

**Manual Integrations**
**APPROVED**

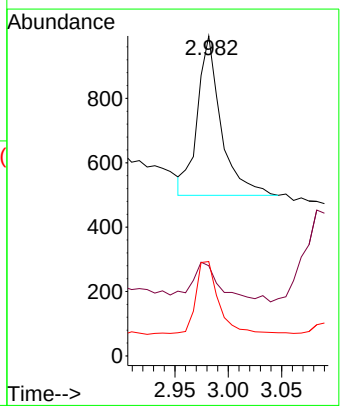
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

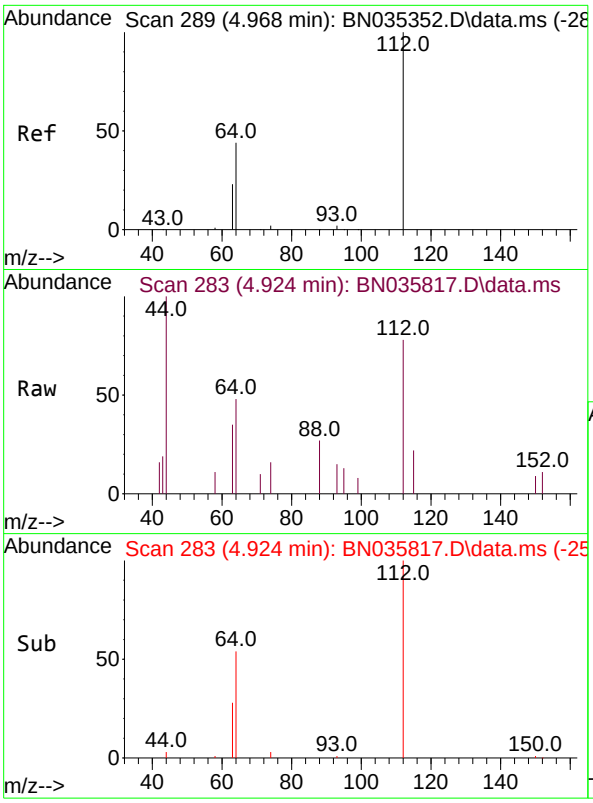



#2
1,4-Dioxane
Concen: 0.275 ng
RT: 2.982 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

Tgt Ion: 88 Resp: 759

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 31.1 | 17.2 | 25.8# |
| 58 | 45.8 | 44.5 | 66.7 |






#4
2-Fluorophenol
Concen: 0.113 ng
RT: 4.924 min Scan# 2
Delta R.T. -0.014 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

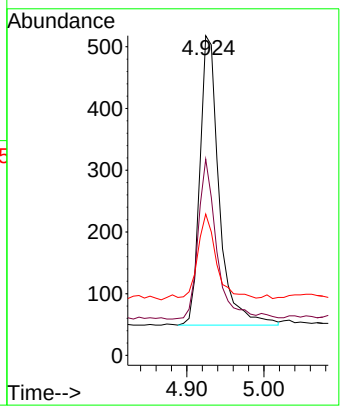
Tgt Ion:112 Resp: 81

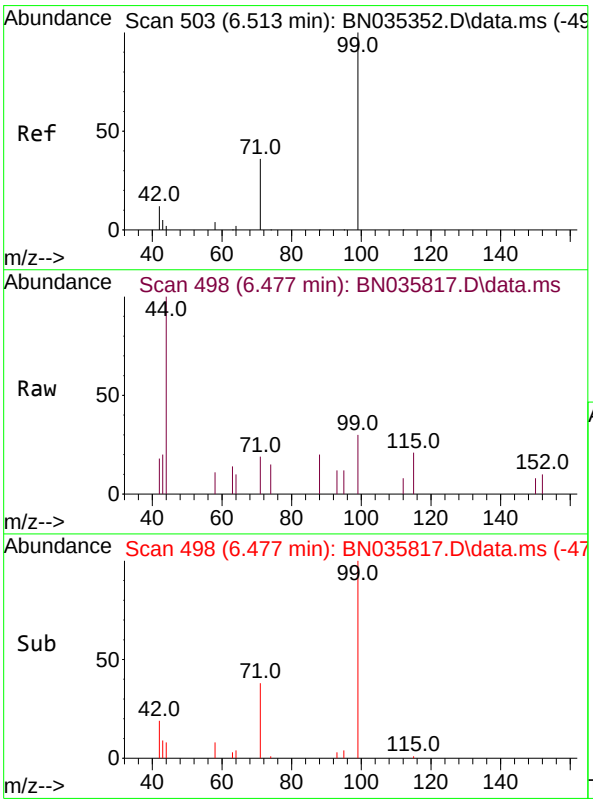
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 52.1 | 39.8 | 59.8 |
| 63 | 30.0 | 21.0 | 31.6 |

**Instrument :**
BNA_N
**ClientSampleId :**
TT149S1-20241218

**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

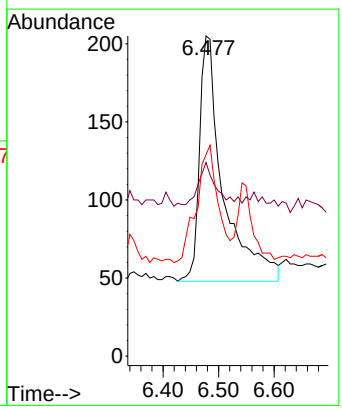


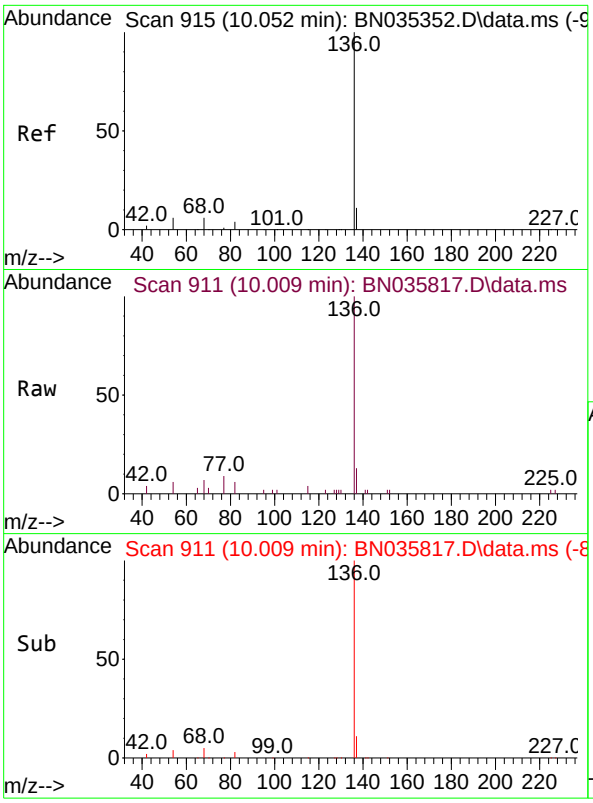




#5
Phenol-d6
Concen: 0.054 ng
RT: 6.477 min Scan# 498
Delta R.T. -0.014 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

Tgt Ion: 99 Resp: 466

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 12.9 | 11.4 | 17.2 |
| 71 | 43.6 | 29.3 | 43.9 |

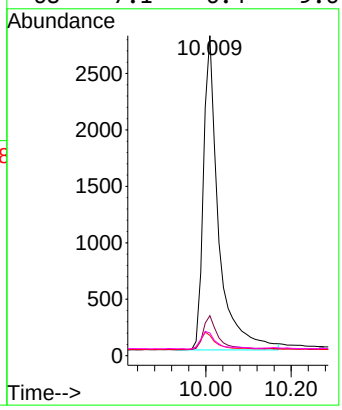





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

Tgt Ion:136 Resp: 687

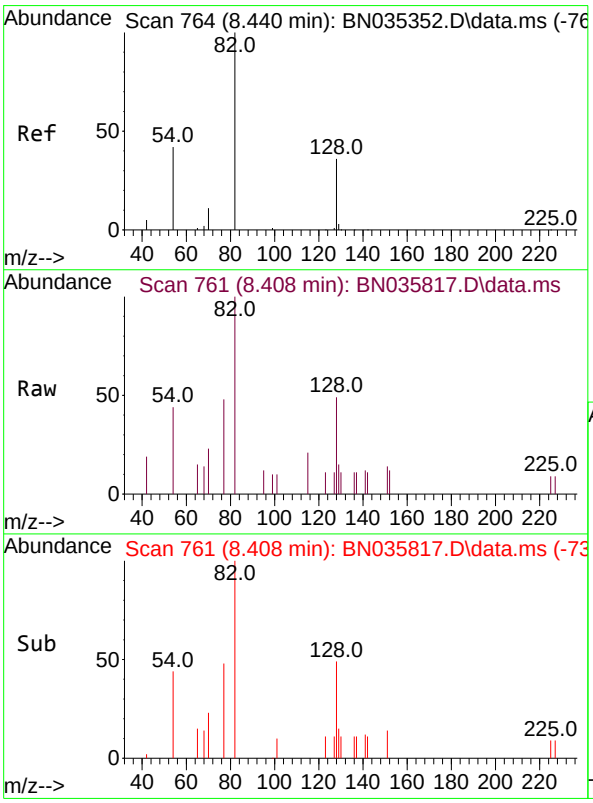
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 12.5 | 10.2 | 15.2 |
| 54 | 6.3 | 6.1 | 9.1 |
| 68 | 7.1 | 6.4 | 9.6 |




**Instrument :**
BNA_N
**ClientSampleId :**
TT149S1-20241218

**Manual Integrations**
**APPROVED**

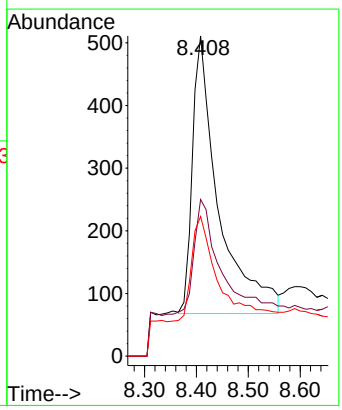
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

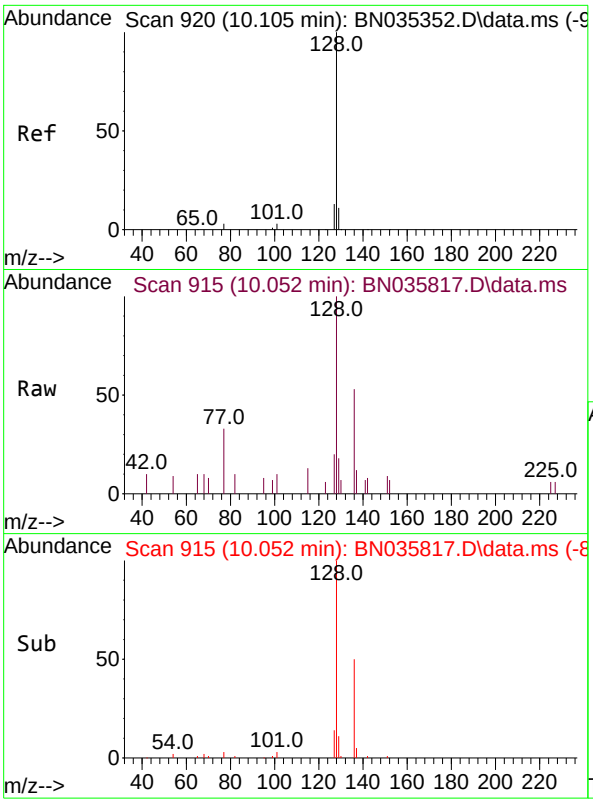



#8
Nitrobenzene-d5
Concen: 0.369 ng m
RT: 8.408 min Scan# 761
Delta R.T. -0.000 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

Tgt Ion: 82 Resp: 1548

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 48.9 | 33.4 | 50.0 |
| 54 | 43.6 | 36.7 | 55.1 |

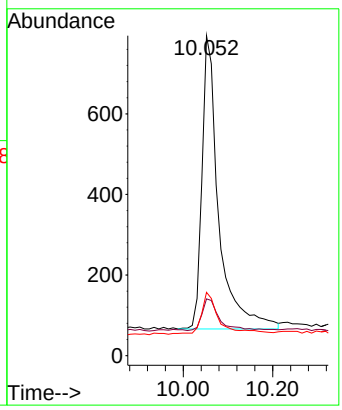





#9
Naphthalene
Concen: 0.104 ng
RT: 10.052 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

Tgt Ion:128 Resp: 189

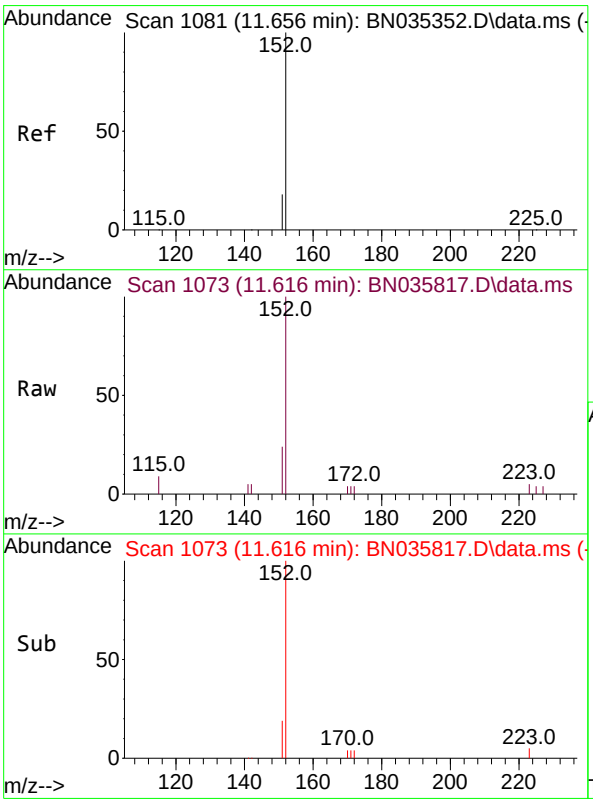
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 17.8 | 9.8 | 14.6# |
| 127 | 19.8 | 11.4 | 17.2# |




**Instrument :**
BNA_N
**ClientSampleId :**
TT149S1-20241218

**Manual Integrations**
**APPROVED**

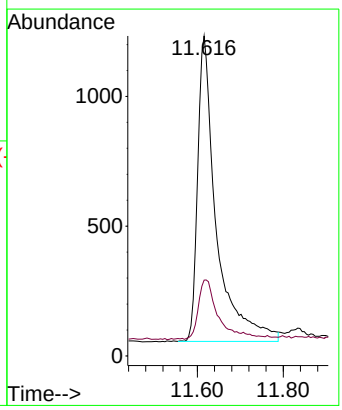
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

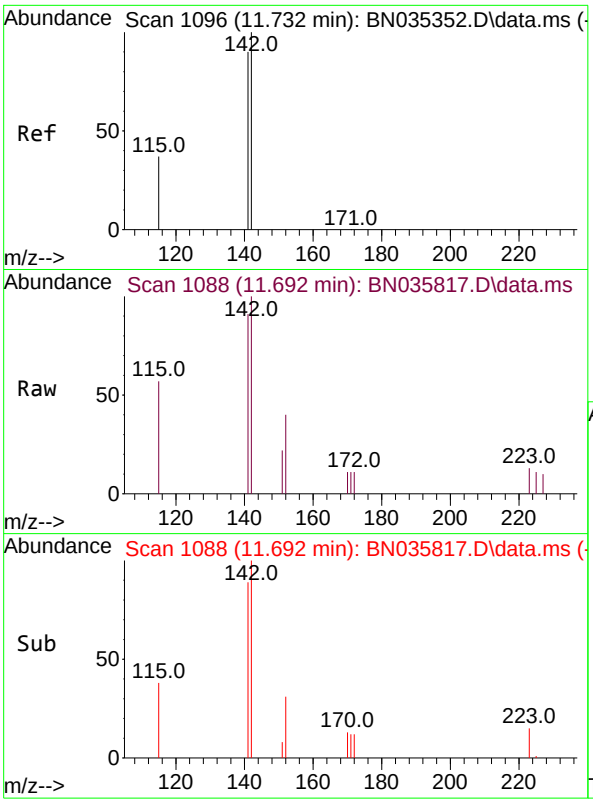



#11
2-Methylnaphthalene-d10
Concen: 0.329 ng
RT: 11.616 min Scan# 1073
Delta R.T. -0.005 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

Tgt Ion:152 Resp: 3542

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 21.1 | 16.6 | 25.0 |

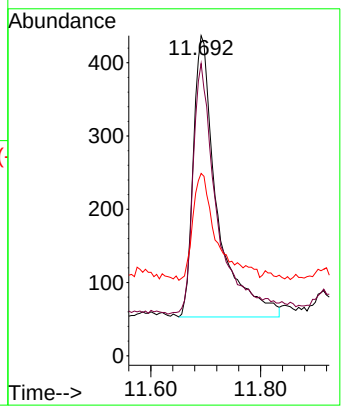





#12
2-Methylnaphthalene
Concen: 0.089 ng
RT: 11.692 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

Tgt Ion:142 Resp: 115

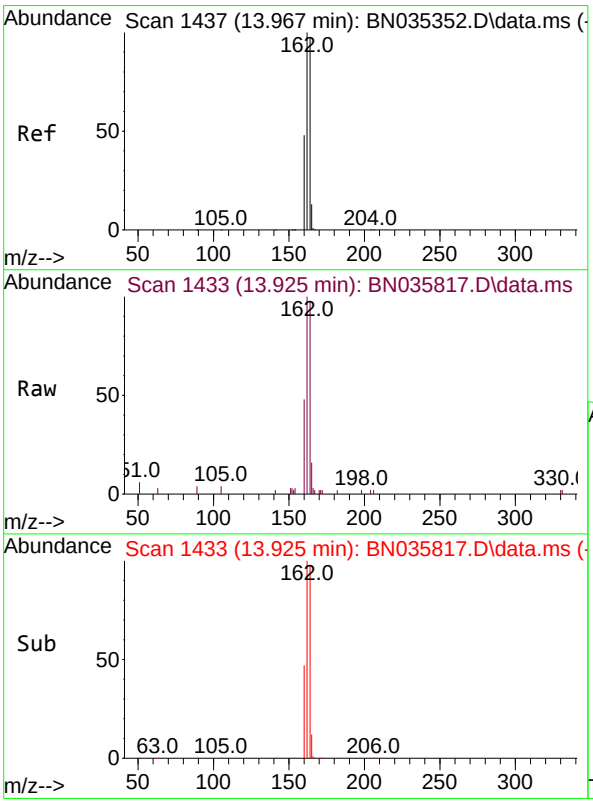
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 91.3 | 72.2 | 108.4 |
| 115 | 57.0 | 31.4 | 47.0# |




**Instrument :**
BNA_N
**ClientSampleId :**
TT149S1-20241218

**Manual Integrations**
**APPROVED**

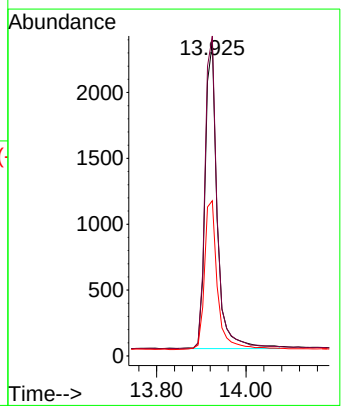
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

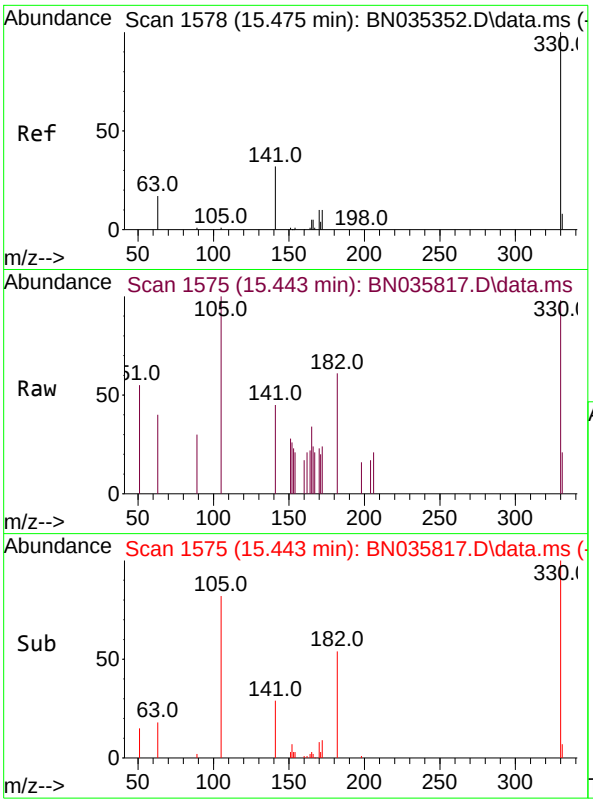



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.925 min Scan# 1433
Delta R.T. -0.011 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

Tgt Ion:164 Resp: 4352

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 102.2 | 82.2 | 123.2 |
| 160 | 49.6 | 40.1 | 60.1 |

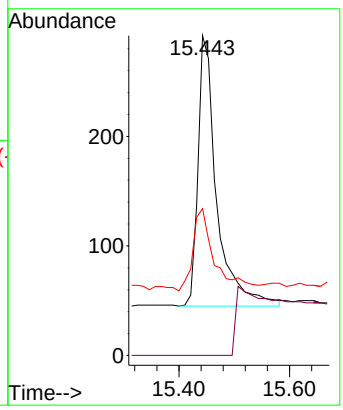





#14
2,4,6-Tribromophenol
Concen: 0.197 ng
RT: 15.443 min Scan# 1
Delta R.T. -0.011 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

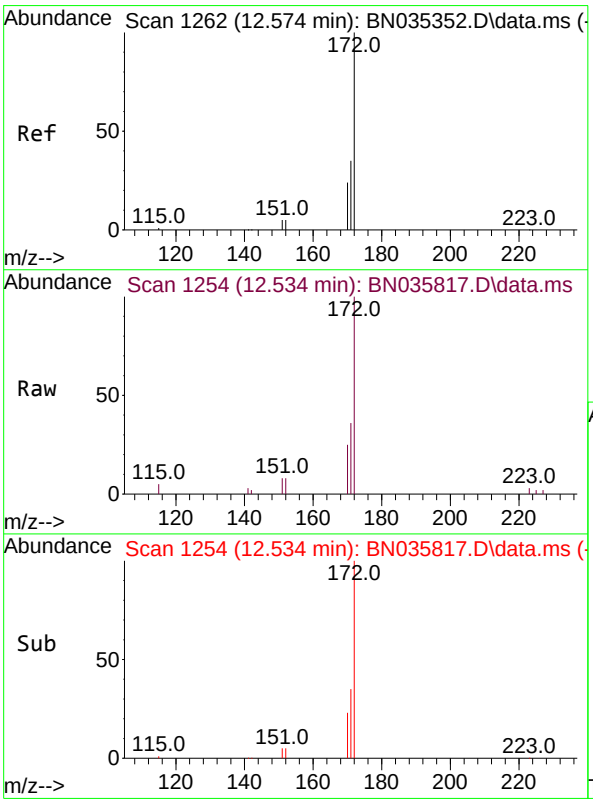
Tgt Ion:330 Resp: 60

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 0.0 | 0.0 | 0.0 |
| 141 | 34.3 | 26.6 | 40.0 |




**Instrument :**
BNA_N
**ClientSampleId :**
TT149S1-20241218

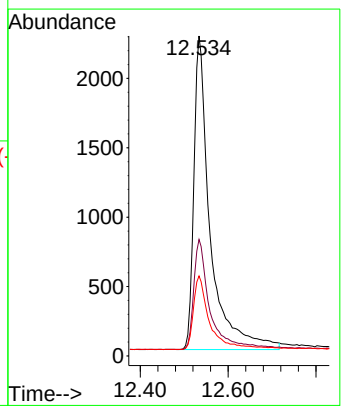
**Manual Integrations**
**APPROVED**
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

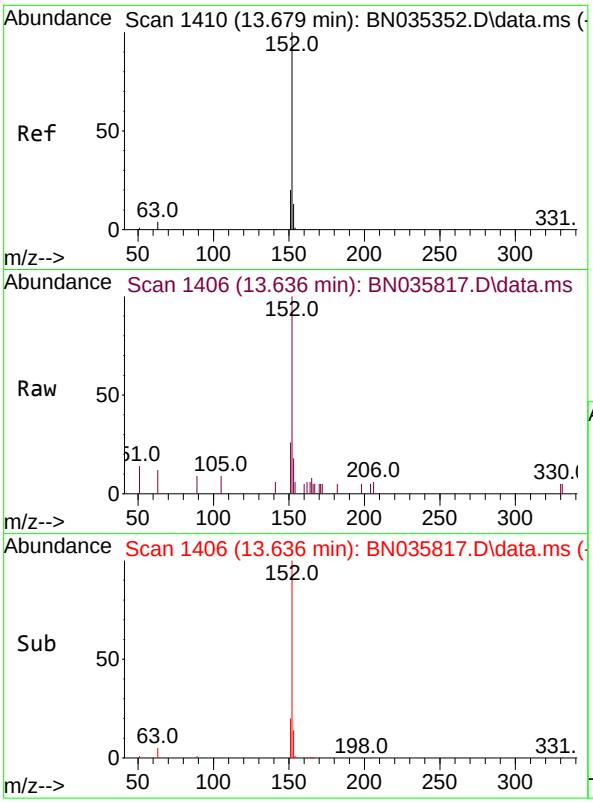



#15
2-Fluorobiphenyl
Concen: 0.356 ng
RT: 12.534 min Scan# 1254
Delta R.T. -0.010 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

Tgt Ion:172 Resp: 5853

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 36.4 | 29.0 | 43.4 |
| 170 | 25.0 | 19.8 | 29.8 |

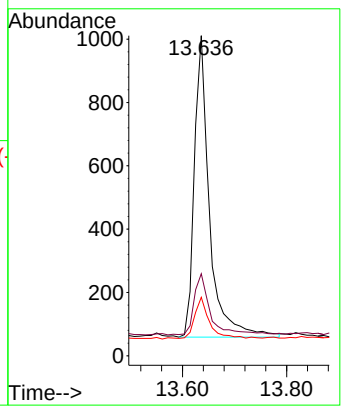





#16
Acenaphthylene
Concen: 0.105 ng
RT: 13.636 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

Tgt Ion:152 Resp: 192

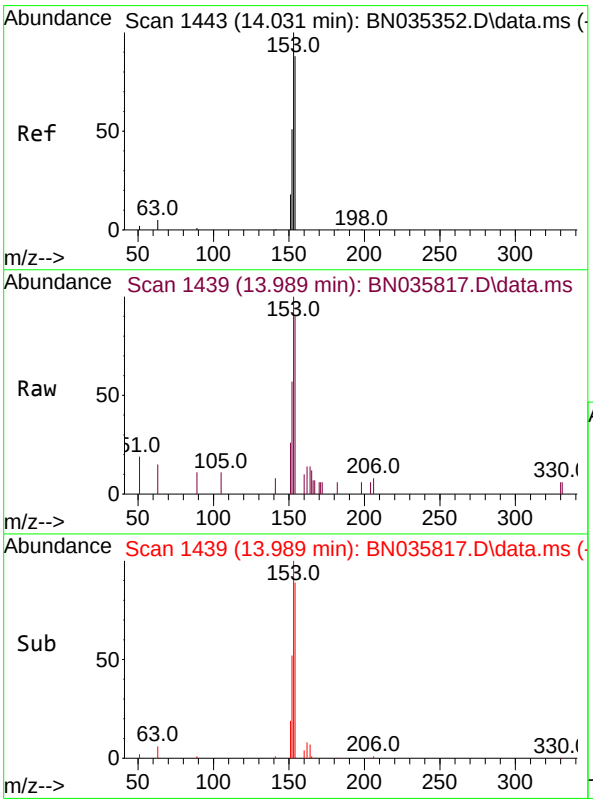
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.9 | 16.2 | 24.2 |
| 153 | 14.4 | 10.4 | 15.6 |




**Instrument :**
BNA_N
**ClientSampleId :**
TT149S1-20241218

**Manual Integrations**
**APPROVED**

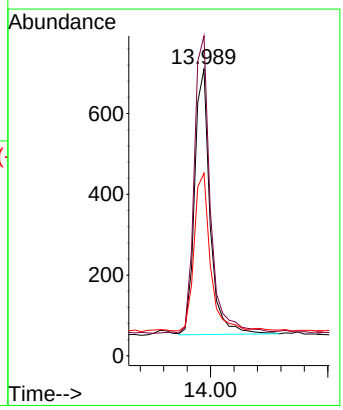
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

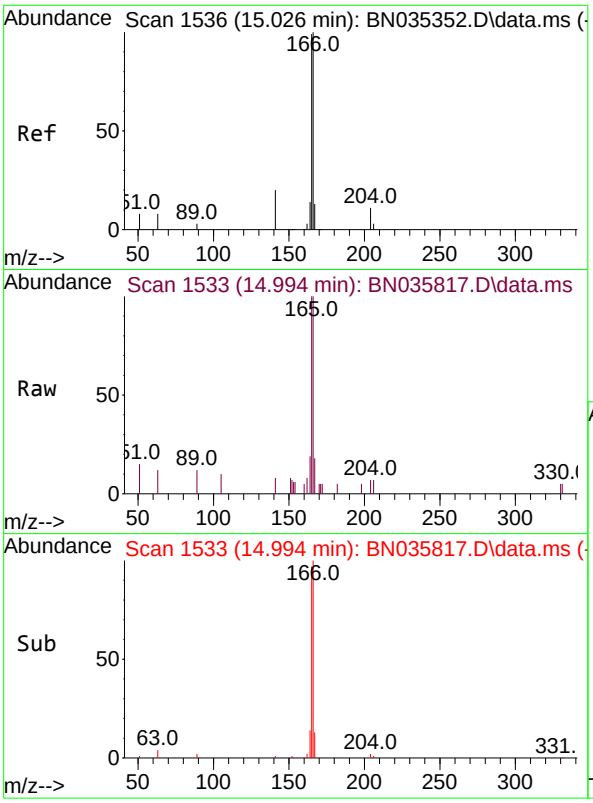



#17
Acenaphthene
Concen: 0.099 ng
RT: 13.989 min Scan# 1439
Delta R.T. -0.011 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

Tgt Ion:154 Resp: 1204

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 117.5 | 92.6 | 139.0 |
| 152 | 62.0 | 49.0 | 73.6 |

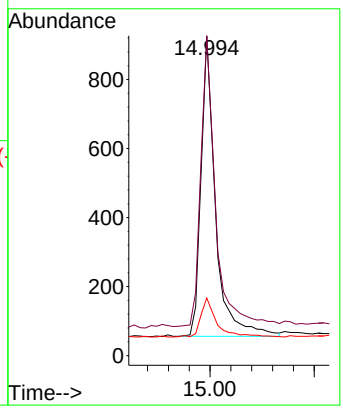





#18
Fluorene
Concen: 0.097 ng
RT: 14.994 min Scan# 1
Delta R.T. -0.011 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

Tgt Ion:166 Resp: 168

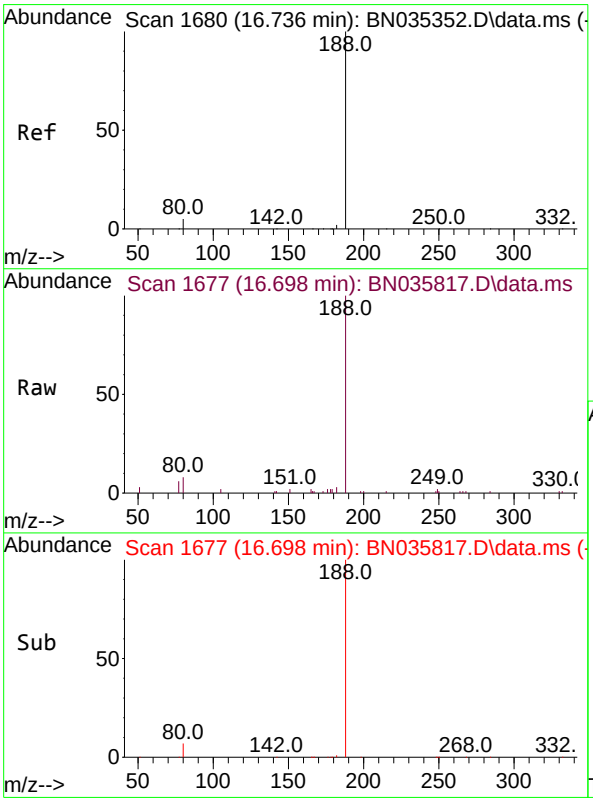
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 99.0 | 79.7 | 119.5 |
| 167 | 14.3 | 10.8 | 16.2 |




**Instrument :**
BNA_N
**ClientSampleId :**
TT149S1-20241218

**Manual Integrations**
**APPROVED**

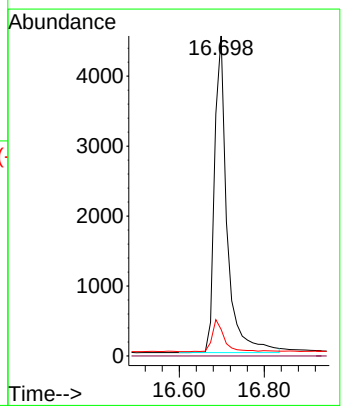
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

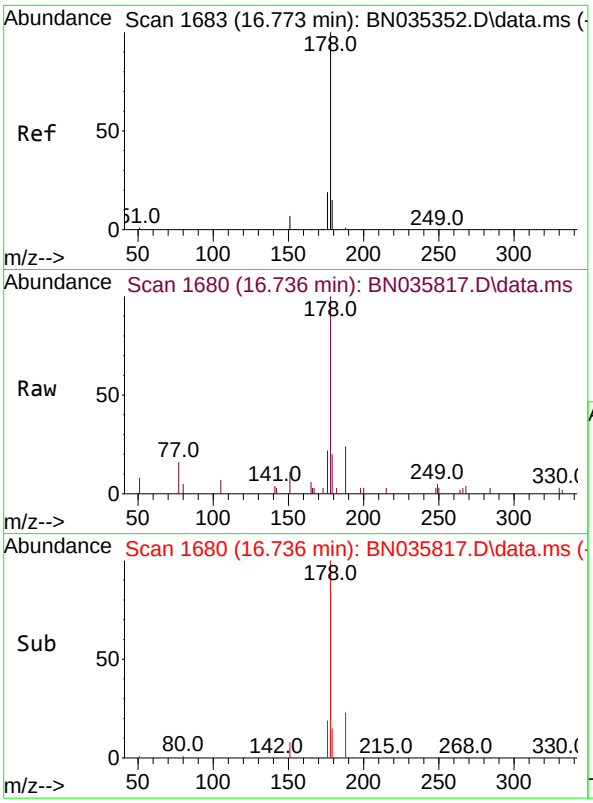



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1677
Delta R.T. -0.000 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

Tgt Ion:188 Resp: 9250

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 8.3 | 4.6 | 6.8# |

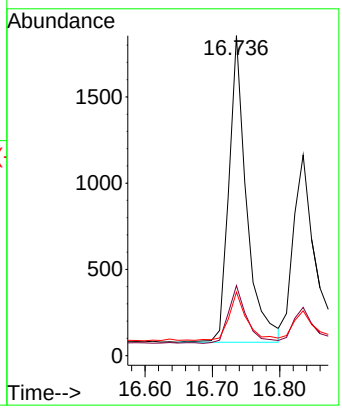





#25
Phenanthrene
Concen: 0.127 ng
RT: 16.736 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

Tgt Ion:178 Resp: 323

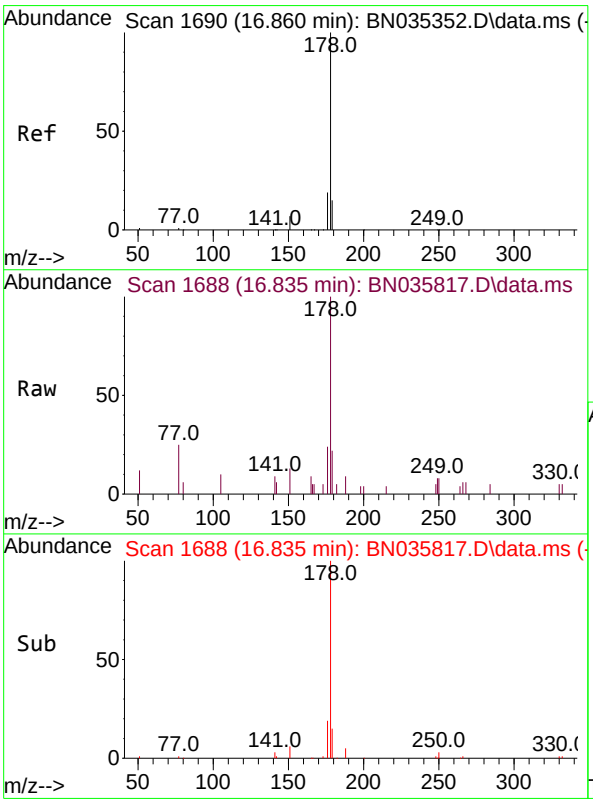
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.5 | 15.4 | 23.2 |
| 179 | 15.6 | 12.3 | 18.5 |




**Instrument :**
BNA_N
**ClientSampleId :**
TT149S1-20241218

**Manual Integrations**
**APPROVED**

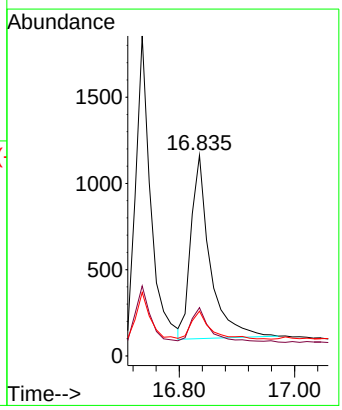
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

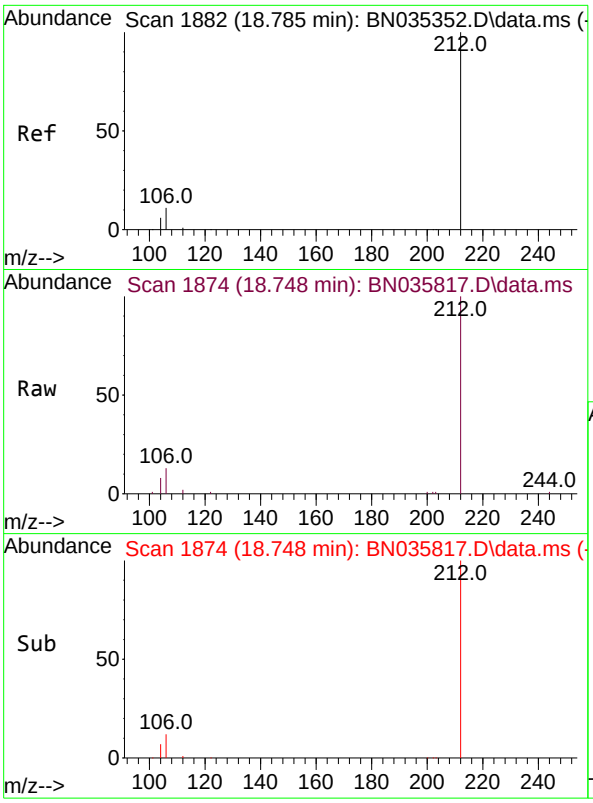



#26
Anthracene
Concen: 0.106 ng
RT: 16.835 min Scan# 1688
Delta R.T. -0.000 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

Tgt Ion:178 Resp: 2442

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 20.4 | 15.0 | 22.6 |
| 179 | 16.1 | 12.6 | 18.8 |

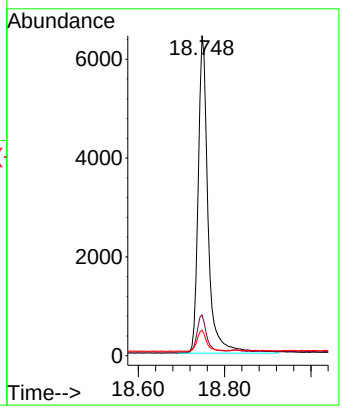





#27
Fluoranthene-d10
Concen: 0.390 ng
RT: 18.748 min Scan# 1
Delta R.T. -0.014 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

Tgt Ion:212 Resp: 1023

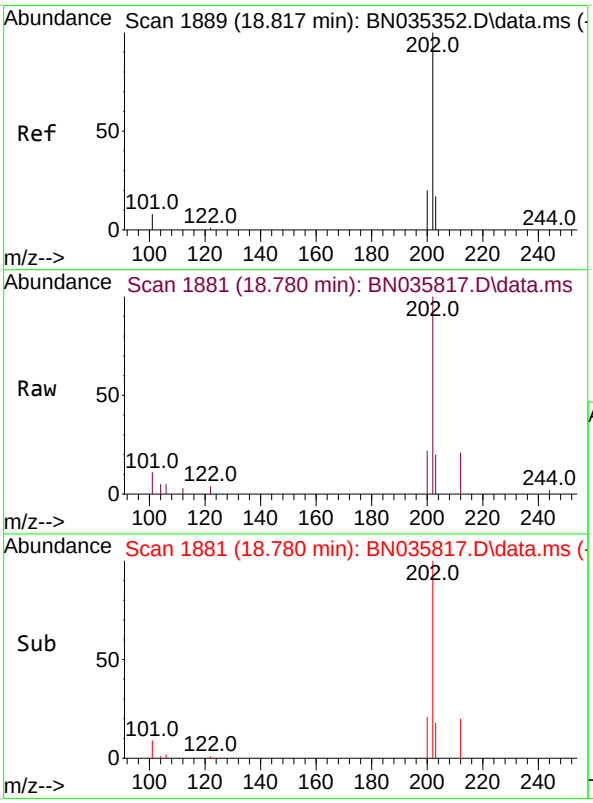
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 11.4 | 9.2 | 13.8 |
| 104 | 6.4 | 5.3 | 7.9 |




**Instrument :**
BNA_N
**ClientSampleId :**
TT149S1-20241218

**Manual Integrations**
**APPROVED**

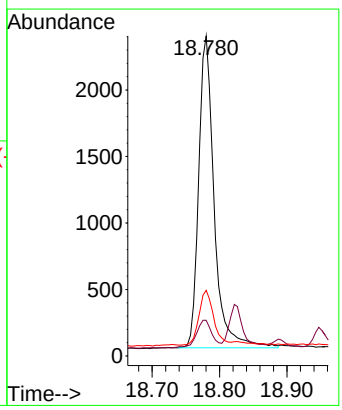
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

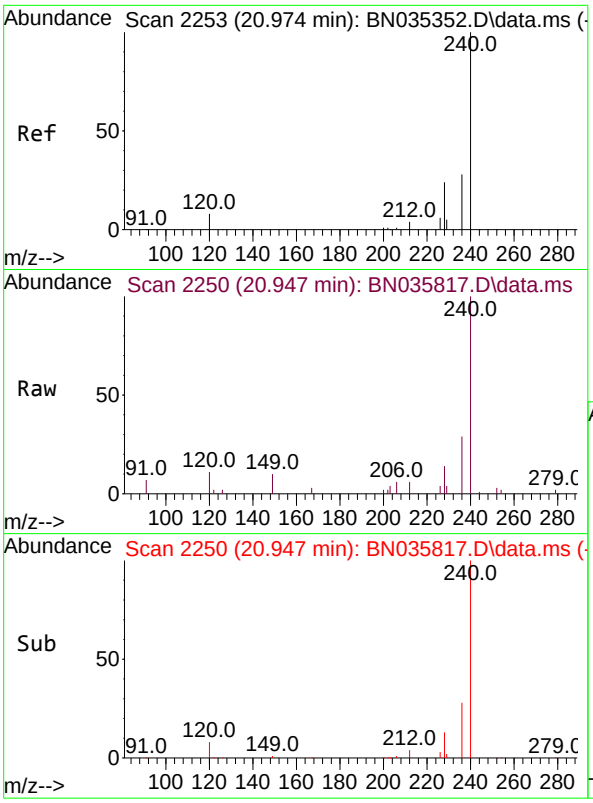



#28
Fluoranthene
Concen: 0.109 ng
RT: 18.780 min Scan# 1881
Delta R.T. -0.009 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

Tgt Ion:202 Resp: 3731

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 8.9 | 7.4 | 11.0 |
| 203 | 16.6 | 13.7 | 20.5 |

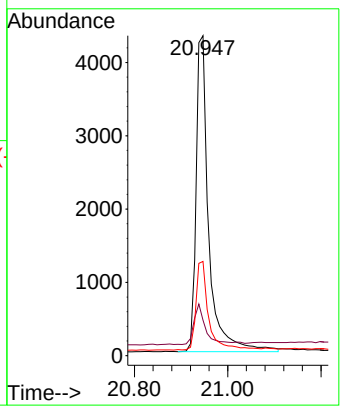





#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

Tgt Ion:240 Resp: 812

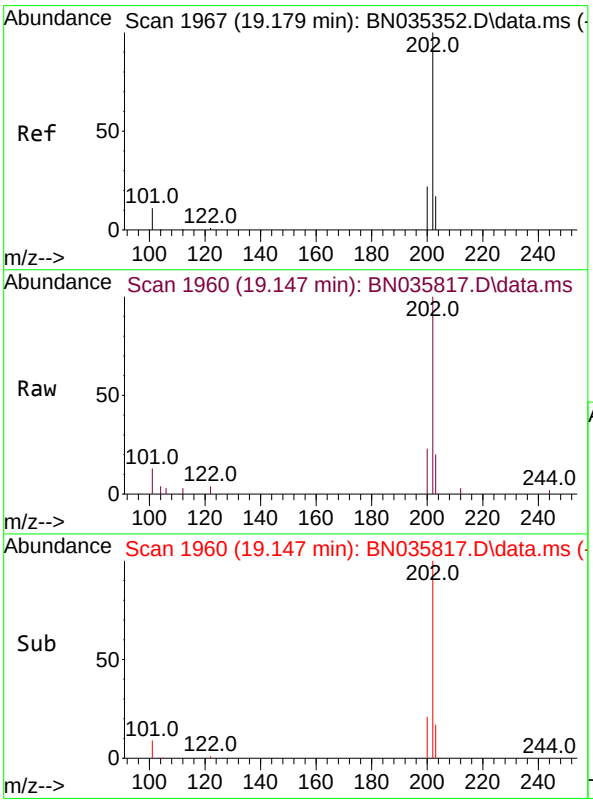
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 11.1 | 7.9 | 11.9 |
| 236 | 29.4 | 22.9 | 34.3 |




**Instrument :**
BNA_N
**ClientSampleId :**
TT149S1-20241218

**Manual Integrations**
**APPROVED**

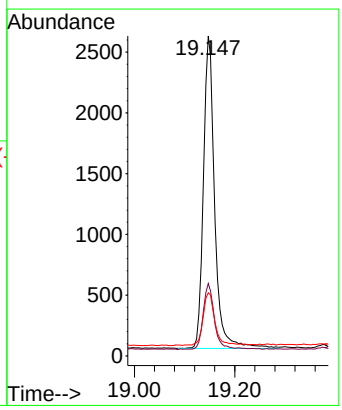
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

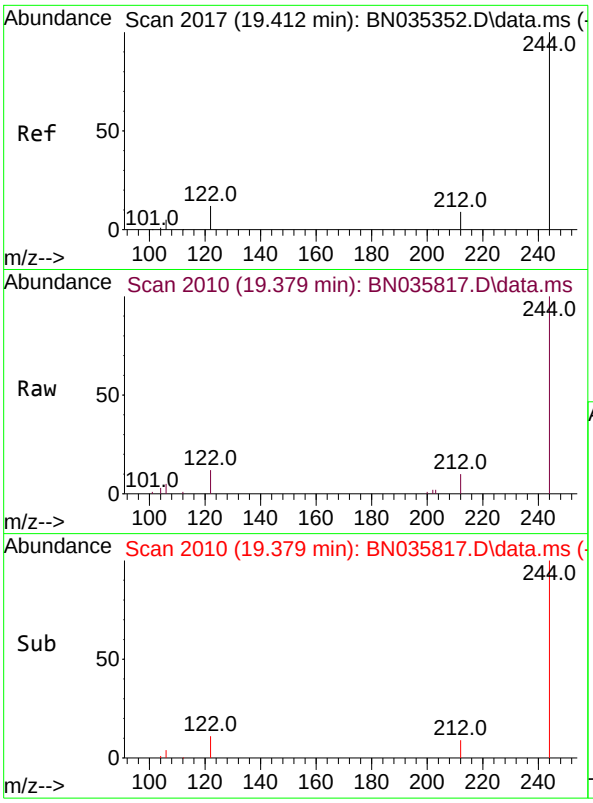



#30
Pyrene
Concen: 0.133 ng
RT: 19.147 min Scan# 1960
Delta R.T. -0.014 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

Tgt Ion:202 Resp: 4005

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 20.6 | 17.0 | 25.4 |
| 203 | 17.4 | 14.3 | 21.5 |

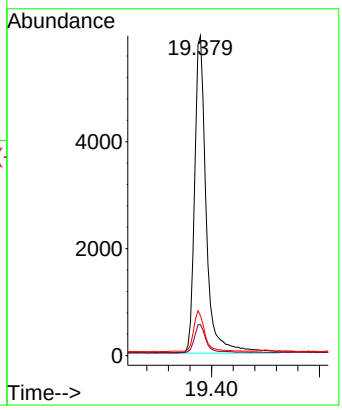





#31
Terphenyl-d14
Concen: 0.553 ng
RT: 19.379 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

Tgt Ion:244 Resp: 886

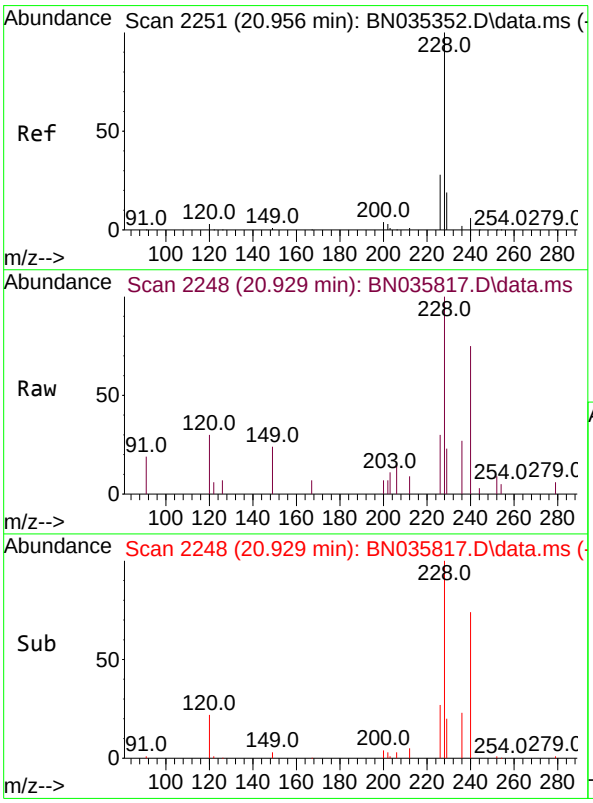
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 9.7 | 8.1 | 12.1 |
| 122 | 12.5 | 10.3 | 15.5 |




**Instrument :**
BNA_N
**ClientSampleId :**
TT149S1-20241218

**Manual Integrations**
**APPROVED**

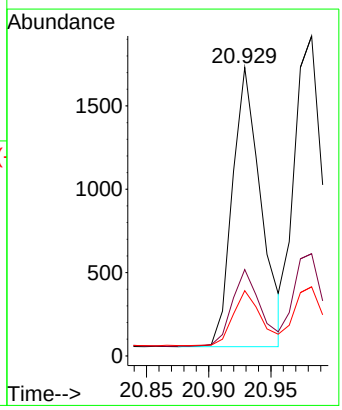
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

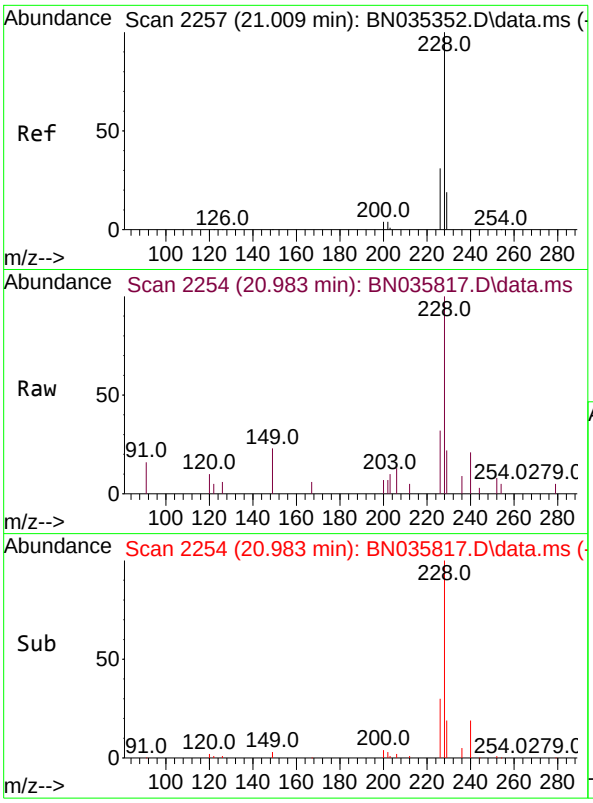



#32
Benzo(a)anthracene
Concen: 0.094 ng
RT: 20.929 min Scan# 2248
Delta R.T. -0.009 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

Tgt Ion:228 Resp: 2676

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 29.9 | 22.5 | 33.7 |
| 229 | 22.6 | 15.8 | 23.8 |

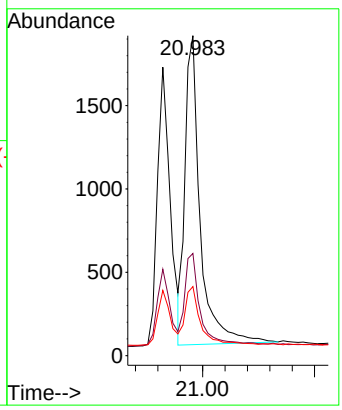





#33
Chrysene
Concen: 0.119 ng
RT: 20.983 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

Tgt Ion:228 Resp: 349

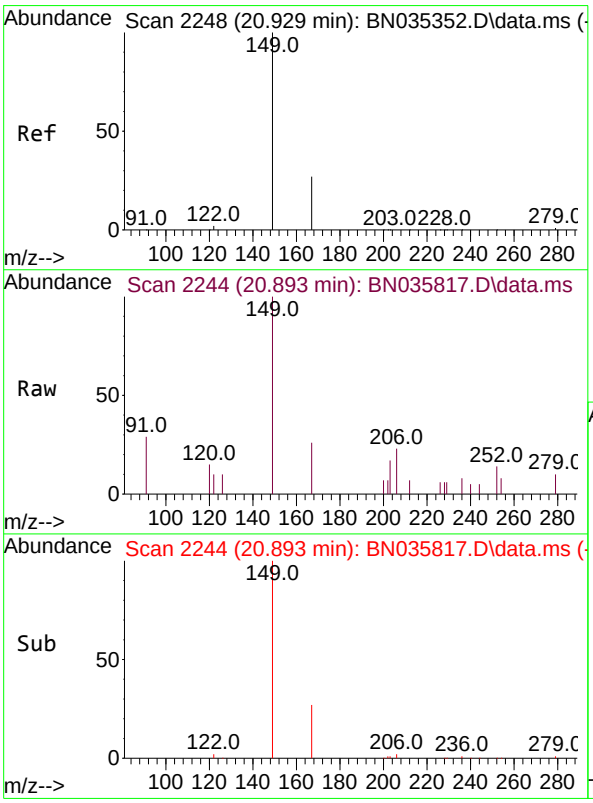
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 31.9 | 24.6 | 37.0 |
| 229 | 21.6 | 15.9 | 23.9 |




**Instrument :**
BNA_N
**ClientSampleId :**
TT149S1-20241218

**Manual Integrations**
**APPROVED**

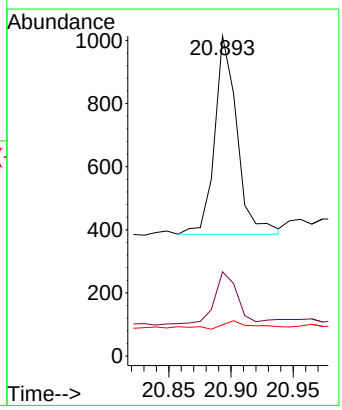
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

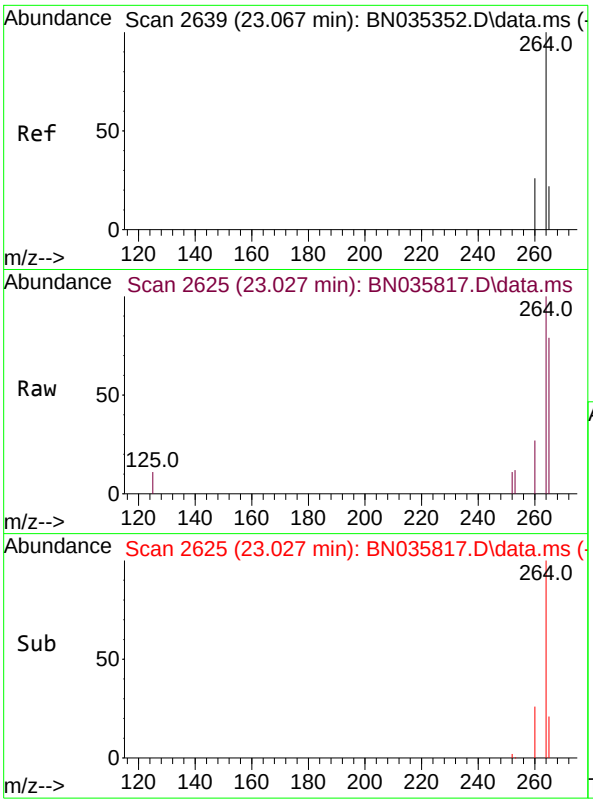



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.070 ng
RT: 20.893 min Scan# 2244
Delta R.T. -0.018 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

Tgt Ion:149 Resp: 786

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 27.0 | 22.2 | 33.4 |
| 279 | 6.1 | 2.7 | 4.1# |

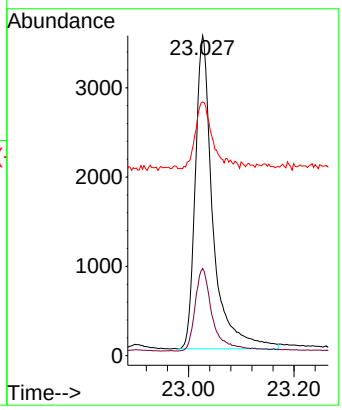





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.027 min Scan# 2
Delta R.T. -0.015 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

Tgt Ion:264 Resp: 812

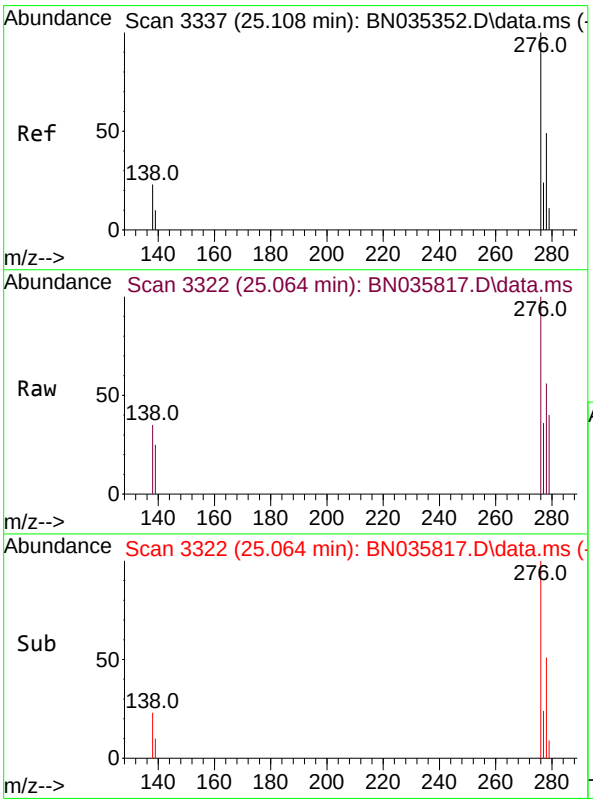
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 27.2 | 21.4 | 32.2 |
| 265 | 79.3 | 40.2 | 60.4 |




**Instrument :**
BNA_N
**ClientSampleId :**
TT149S1-20241218

**Manual Integrations**
**APPROVED**

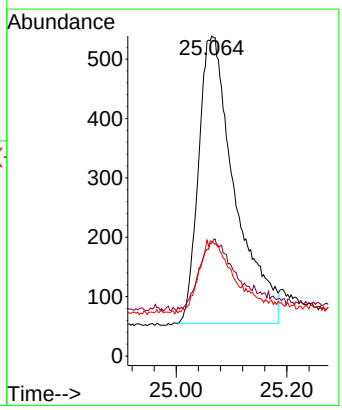
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

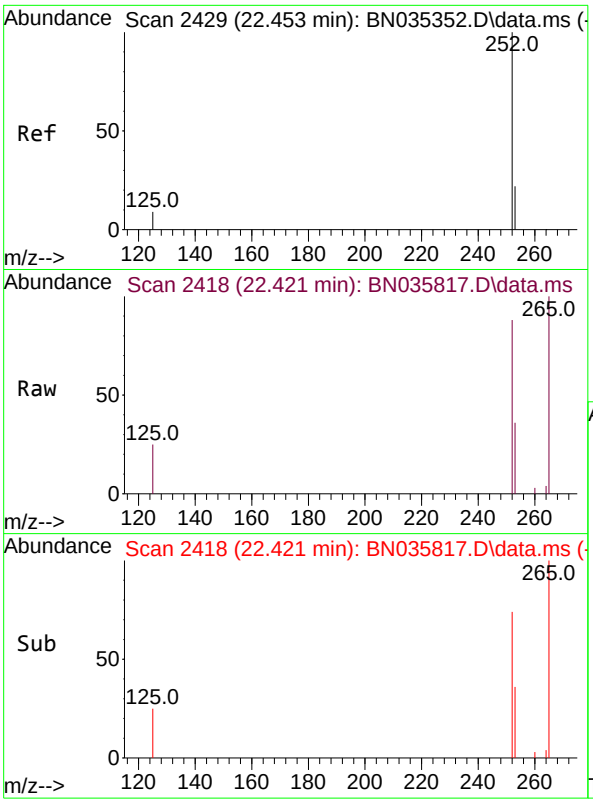



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.070 ng
RT: 25.064 min Scan# 3322
Delta R.T. -0.003 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

Tgt Ion:276 Resp: 2211

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 23.7 | 19.4 | 29.0 |
| 277 | 25.1 | 19.8 | 29.6 |

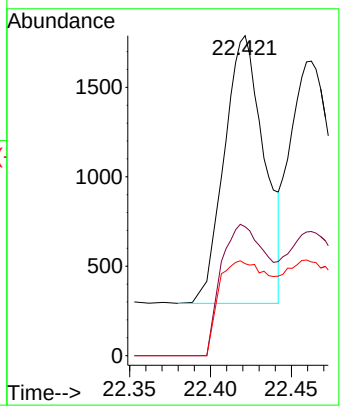





#37
Benzo(b)fluoranthene
Concen: 0.113 ng
RT: 22.421 min Scan# 24
Delta R.T. -0.009 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

Tgt Ion:252 Resp: 336

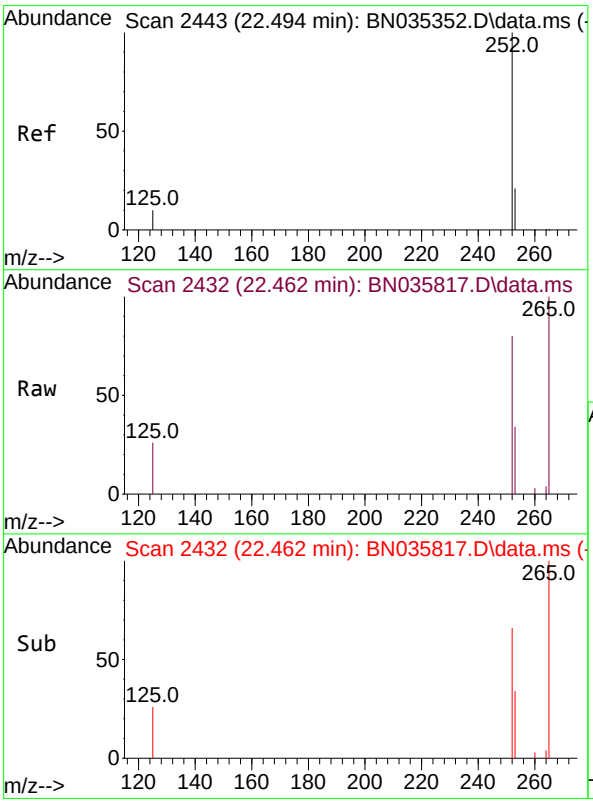
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 40.3 | 19.6 | 29.4# |
| 125 | 28.7 | 9.6 | 14.4# |




**Instrument :**
BNA_N
**ClientSampleId :**
TT149S1-20241218

**Manual Integrations**
**APPROVED**

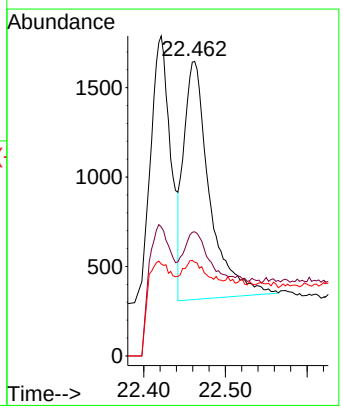
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

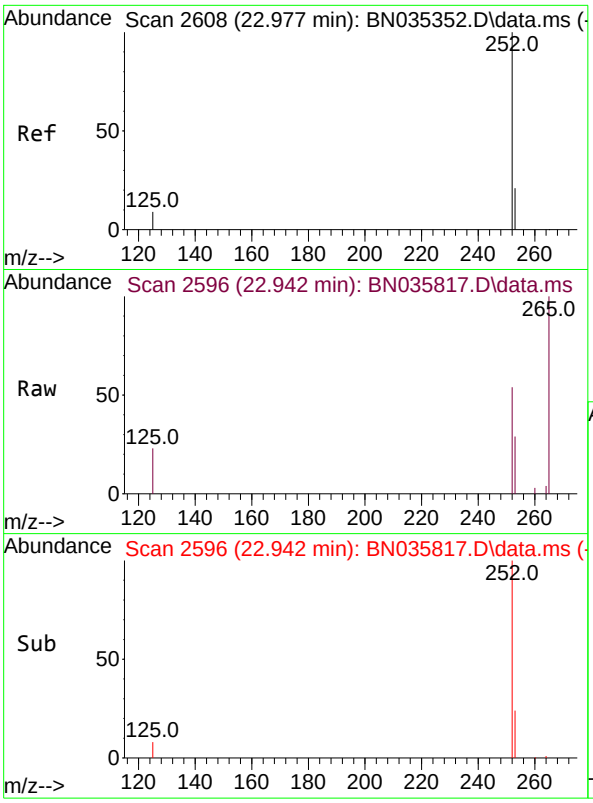



#38
Benzo(k)fluoranthene
Concen: 0.100 ng
RT: 22.462 min Scan# 2432
Delta R.T. -0.009 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

Tgt Ion:252 Resp: 2940

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 42.1 | 19.5 | 29.3# |
| 125 | 31.8 | 10.2 | 15.4# |

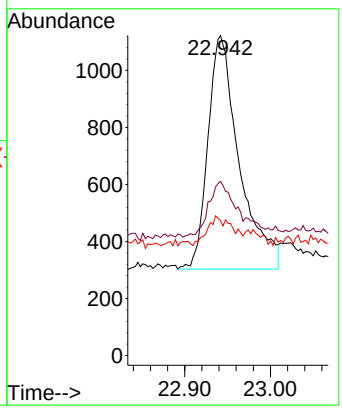





#39
Benzo(a)pyrene
Concen: 0.085 ng
RT: 22.942 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

Tgt Ion:252 Resp: 208

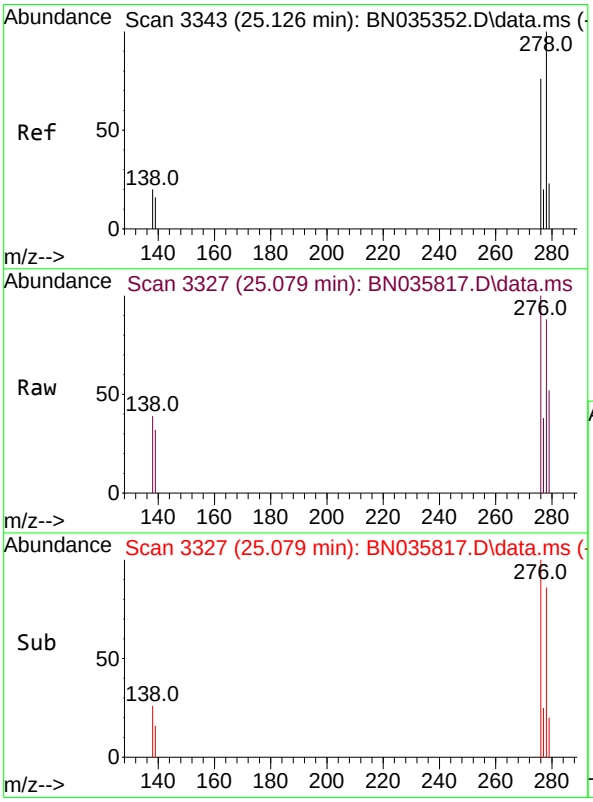
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 54.5 | 20.2 | 30.4# |
| 125 | 42.1 | 10.9 | 16.3# |




**Instrument :**
BNA_N
**ClientSampleId :**
TT149S1-20241218

**Manual Integrations**
**APPROVED**

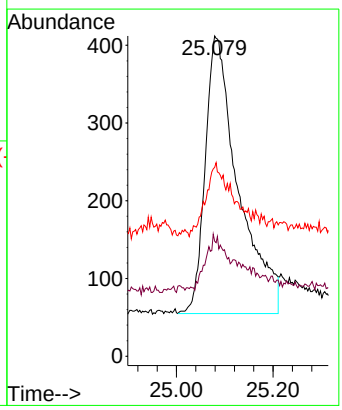
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

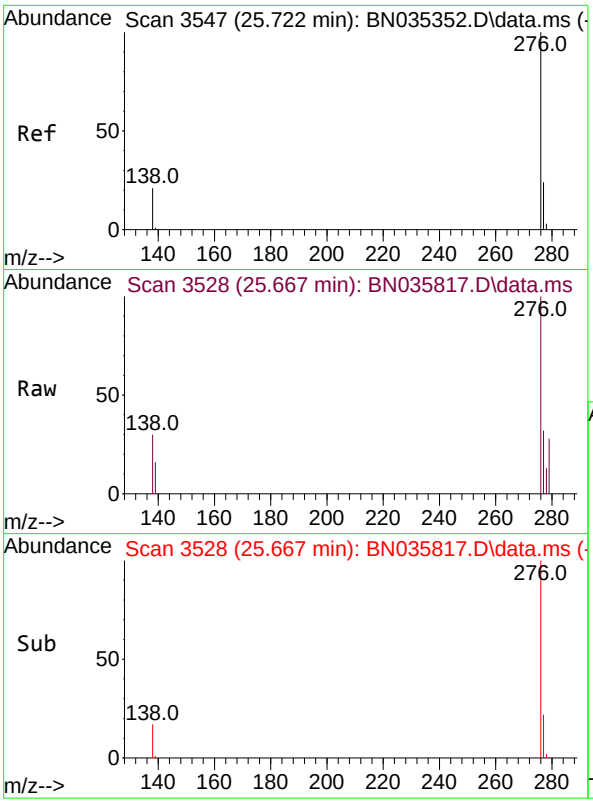



#40
Dibenzo(a,h)anthracene
Concen: 0.068 ng
RT: 25.079 min Scan# 3327
Delta R.T. -0.003 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

Tgt Ion:278 Resp: 1701

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 35.9 | 14.2 | 21.4# |
| 279 | 59.0 | 20.5 | 30.7# |

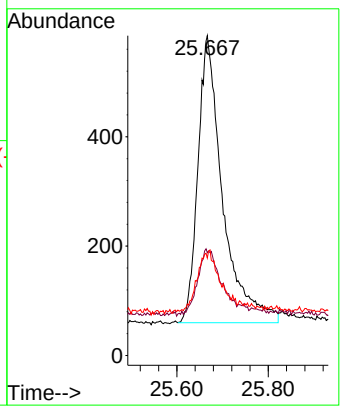





#41
Benzo(g,h,i)perylene
Concen: 0.075 ng
RT: 25.667 min Scan# 3
Delta R.T. -0.012 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

Tgt Ion:276 Resp: 196

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 32.1 | 19.9 | 29.9# |
| 138 | 30.4 | 17.8 | 26.8# |




**Instrument :**
BNA_N
**ClientSampleId :**
TT149S1-20241218

**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | AECOM Technical Services, Inc. | Date Collected: | 12/18/24 |
| Project: | NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258 | Date Received: | 12/20/24 |
| Client Sample ID: | DUP-07-20241218 | SDG No.: | P5376 |
| Lab Sample ID: | P5376-05 | Matrix: | Water |
| Analytical Method: | SW8270ESIM | % Solid: | 0 |
| Sample Wt/Vol: | 980 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-SIMGroup1 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BN035818.D | 1 | 12/23/24 13:29 | 12/24/24 13:08 | PB165828 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 123-91-1 | 1,4-Dioxane | 0.27 | | 0.070 | 0.20 | 0.20 | ug/L |
| **SURROGATES** | | | | | | | |
| 7297-45-2 | 2-Methylnaphthalene-d10 | 0.35 | | 30 - 150 | | 86% | SPK: 0.4 |
| 93951-69-0 | Fluoranthene-d10 | 0.41 | | 30 - 150 | | 103% | SPK: 0.4 |
| 4165-60-0 | Nitrobenzene-d5 | 0.38 | | 55 - 111 | | 95% | SPK: 0.4 |
| 321-60-8 | 2-Fluorobiphenyl | 0.38 | | 53 - 106 | | 95% | SPK: 0.4 |
| 1718-51-0 | Terphenyl-d14 | 0.58 | * | 58 - 132 | | 144% | SPK: 0.4 |
| **INTERNAL STANDARDS** | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 3050 | 7.257 | | | | |
| 1146-65-2 | Naphthalene-d8 | 7420 | 10.009 | | | | |
| 15067-26-2 | Acenaphthene-d10 | 4770 | 13.925 | | | | |
| 1517-22-2 | Phenanthrene-d10 | 10100 | 16.698 | | | | |
| 1719-03-5 | Chrysene-d12 | 8730 | 20.947 | | | | |
| 1520-96-3 | Perylene-d12 | 8950 | 23.026 | | | | |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035818.D
Acq On : 24 Dec 2024 13:08
Operator : RC/JU
Sample : P5376-05
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 24 23:18:00 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

**Instrument :**
BNA_N
**ClientSampleId :**
DUP-07-20241218

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.257 | 152 | 3045 | 0.400 | ng | | -0.01 |
| 7) Naphthalene-d8 | 10.009 | 136 | 7417 | 0.400 | ng | | #-0.01 |
| 13) Acenaphthene-d10 | 13.925 | 164 | 4769 | 0.400 | ng | | -0.01 |
| 19) Phenanthrene-d10 | 16.698 | 188 | 10054 | 0.400 | ng | | # 0.00 |
| 29) Chrysene-d12 | 20.947 | 240 | 8730 | 0.400 | ng | | 0.00 |
| 35) Perylene-d12 | 23.026 | 264 | 8948 | 0.400 | ng | | #-0.01 |
| **System Monitoring Compounds** | | | | | | | |
| 4) 2-Fluorophenol | 4.924 | 112 | 828 | 0.109 | ng | | -0.01 |
| 5) Phenol-d6 | 6.477 | 99 | 491 | 0.054 | ng | | -0.01 |
| 8) Nitrobenzene-d5 | 8.408 | 82 | 1728m | 0.381 | ng | | 0.00 |
| 11) 2-Methylnaphthalene-d10 | 11.611 | 152 | 4011 | 0.346 | ng | | -0.01 |
| 14) 2,4,6-Tribromophenol | 15.443 | 330 | 736 | 0.217 | ng | | -0.01 |
| 15) 2-Fluorobiphenyl | 12.534 | 172 | 6868 | 0.381 | ng | | -0.01 |
| 27) Fluoranthene-d10 | 18.747 | 212 | 11709 | 0.411 | ng | | -0.01 |
| 31) Terphenyl-d14 | 19.379 | 244 | 9932 | 0.577 | ng | | 0.00 |
| **Target Compounds** | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 2.982 | 88 | 761 | 0.261 | ng | | 89 |
| 9) Naphthalene | 10.052 | 128 | 2140 | 0.109 | ng | # | 90 |
| 12) 2-Methylnaphthalene | 11.687 | 142 | 1347 | 0.096 | ng | # | 92 |
| 16) Acenaphthylene | 13.636 | 152 | 2222 | 0.111 | ng | | 98 |
| 17) Acenaphthene | 13.978 | 154 | 1464 | 0.110 | ng | | 99 |
| 18) Fluorene | 14.994 | 166 | 2023 | 0.106 | ng | | 99 |
| 25) Phenanthrene | 16.736 | 178 | 3999 | 0.145 | ng | | 98 |
| 26) Anthracene | 16.835 | 178 | 3041 | 0.122 | ng | | 99 |
| 28) Fluoranthene | 18.780 | 202 | 4605 | 0.124 | ng | | 98 |
| 30) Pyrene | 19.147 | 202 | 4782 | 0.148 | ng | | 99 |
| 32) Benzo(a)anthracene | 20.929 | 228 | 3217 | 0.105 | ng | | 95 |
| 33) Chrysene | 20.983 | 228 | 4153 | 0.132 | ng | | 98 |
| 34) Bis(2-ethylhexyl)phtha... | 20.893 | 149 | 1111 | 0.092 | ng | | 99 |
| 36) Indeno(1,2,3-cd)pyrene | 25.064 | 276 | 2885 | 0.082 | ng | | 97 |
| 37) Benzo(b)fluoranthene | 22.418 | 252 | 5898 | 0.180 | ng | # | 67 |
| 38) Benzo(k)fluoranthene | 22.459 | 252 | 3531m | 0.110 | ng | | |
| 39) Benzo(a)pyrene | 22.942 | 252 | 2686 | 0.100 | ng | # | 49 |
| 40) Dibenzo(a,h)anthracene | 25.085 | 278 | 2103 | 0.076 | ng | # | 58 |
| 41) Benzo(g,h,i)perylene | 25.667 | 276 | 2516 | 0.087 | ng | # | 83 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

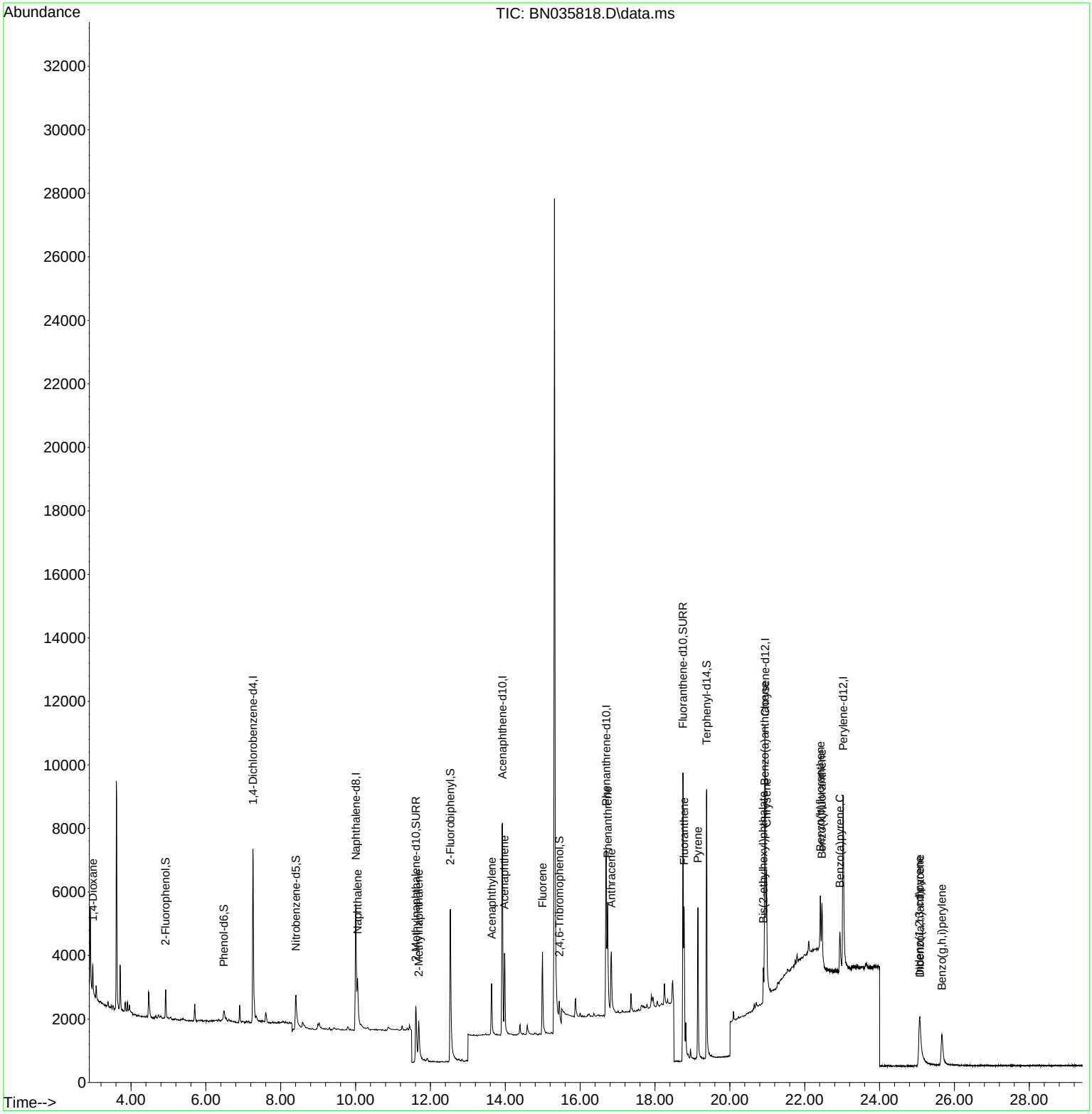
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035818.D
Acq On : 24 Dec 2024 13:08
Operator : RC/JU
Sample : P5376-05
Misc :
ALS Vial : 9 Sample Multiplier: 1

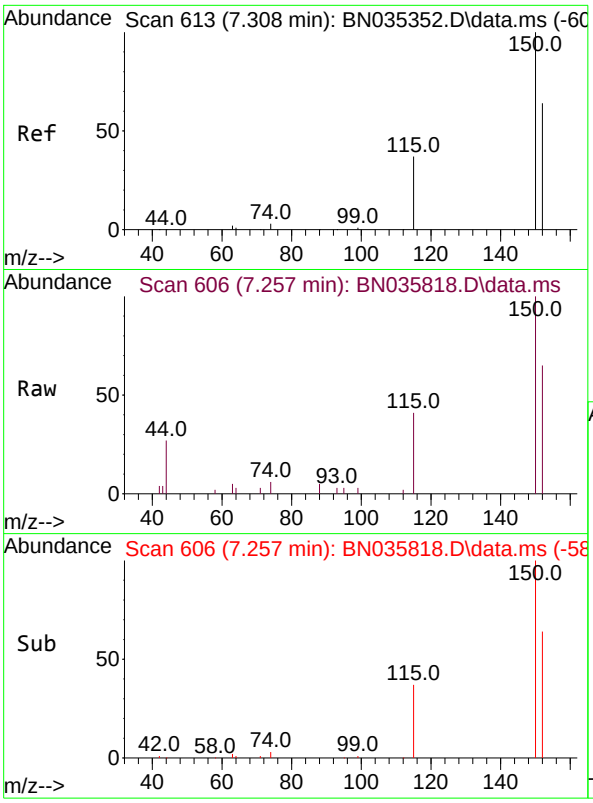
Quant Time: Dec 24 23:18:00 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

**Instrument :**
BNA_N
**ClientSampleId :**
DUP-07-20241218

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

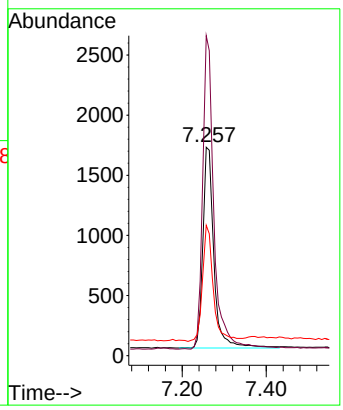





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 6(
Delta R.T. -0.015 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

Tgt Ion:152 Resp: 304

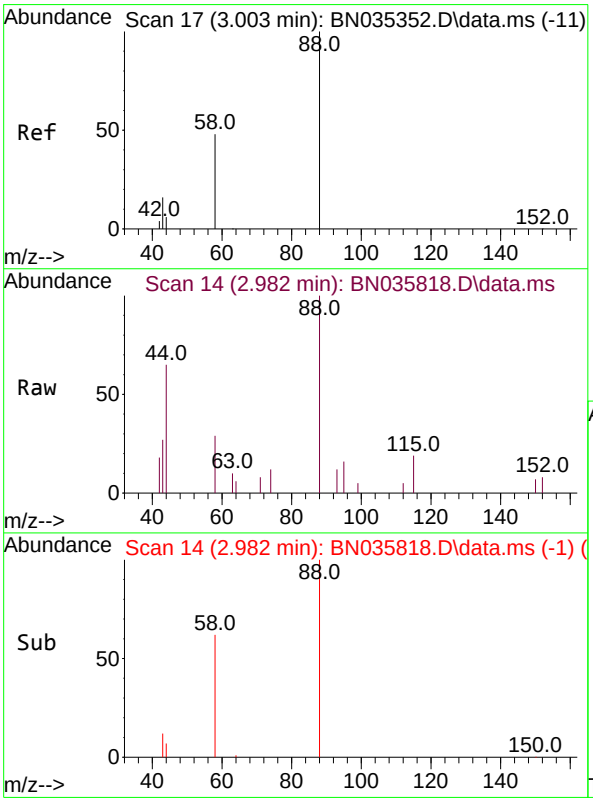
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 153.5 | 124.0 | 186.0 |
| 115 | 62.5 | 49.6 | 74.4 |




**Instrument :**
BNA_N
**ClientSampleId :**
DUP-07-20241218

**Manual Integrations**
**APPROVED**

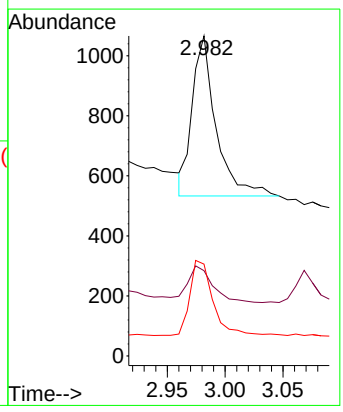
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

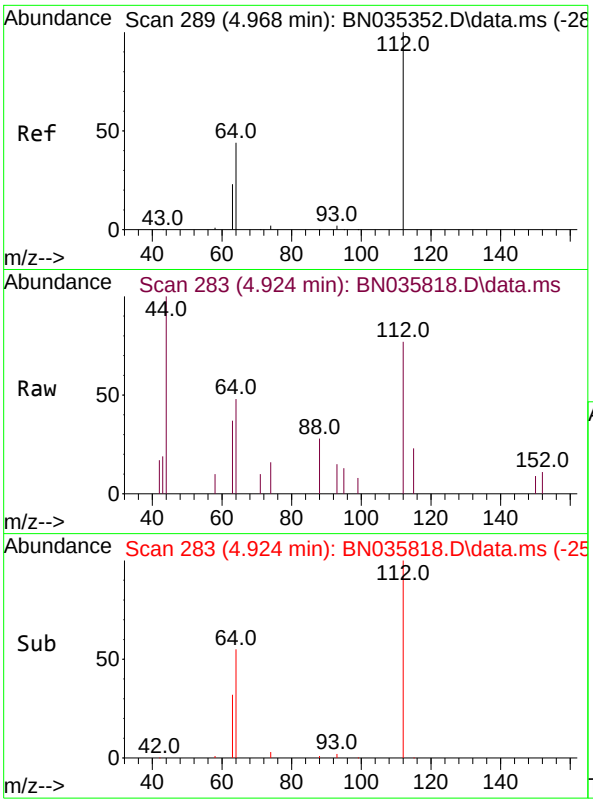



#2
1,4-Dioxane
Concen: 0.261 ng
RT: 2.982 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

Tgt Ion: 88 Resp: 761

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 24.3 | 17.2 | 25.8 |
| 58 | 45.9 | 44.5 | 66.7 |






#4
2-Fluorophenol
Concen: 0.109 ng
RT: 4.924 min Scan# 2
Delta R.T. -0.015 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

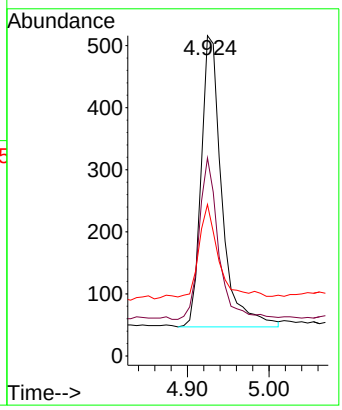
Tgt Ion:112 Resp: 82

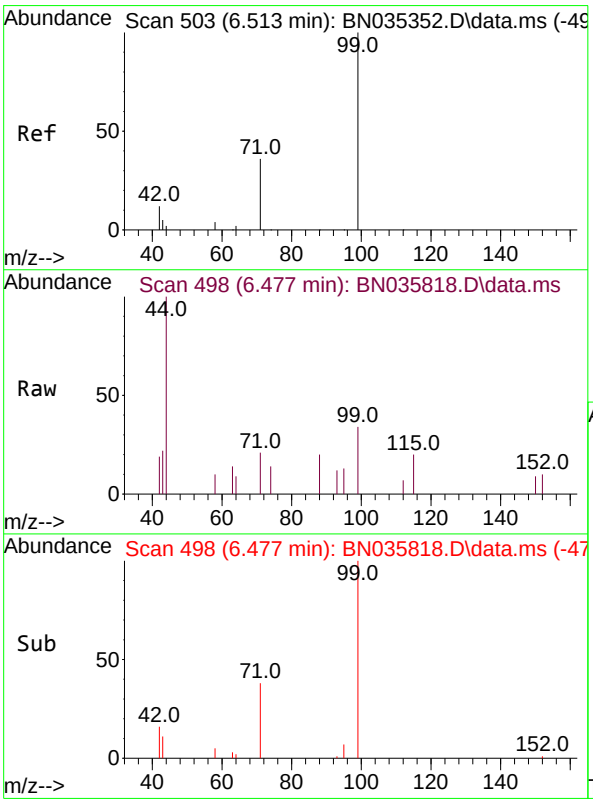
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 52.1 | 39.8 | 59.8 |
| 63 | 31.0 | 21.0 | 31.6 |

**Instrument :**
BNA_N
**ClientSampleId :**
DUP-07-20241218

**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

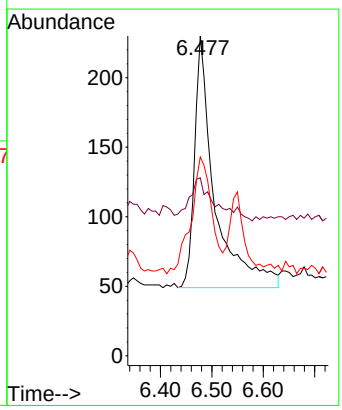


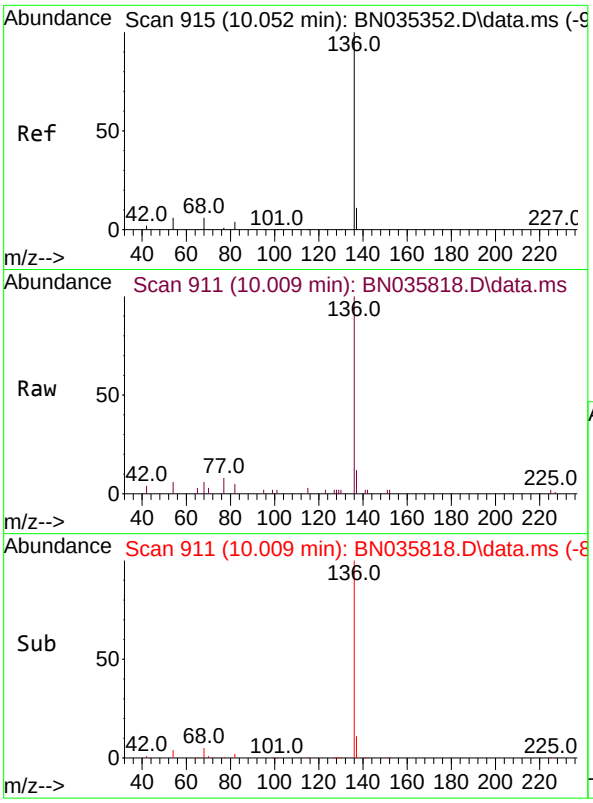




#5
Phenol-d6
Concen: 0.054 ng
RT: 6.477 min Scan# 498
Delta R.T. -0.014 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

Tgt Ion: 99 Resp: 491

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 23.8 | 11.4 | 17.2# |
| 71 | 47.9 | 29.3 | 43.9# |

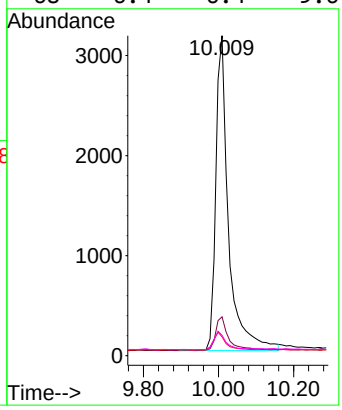





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

Tgt Ion:136 Resp: 741

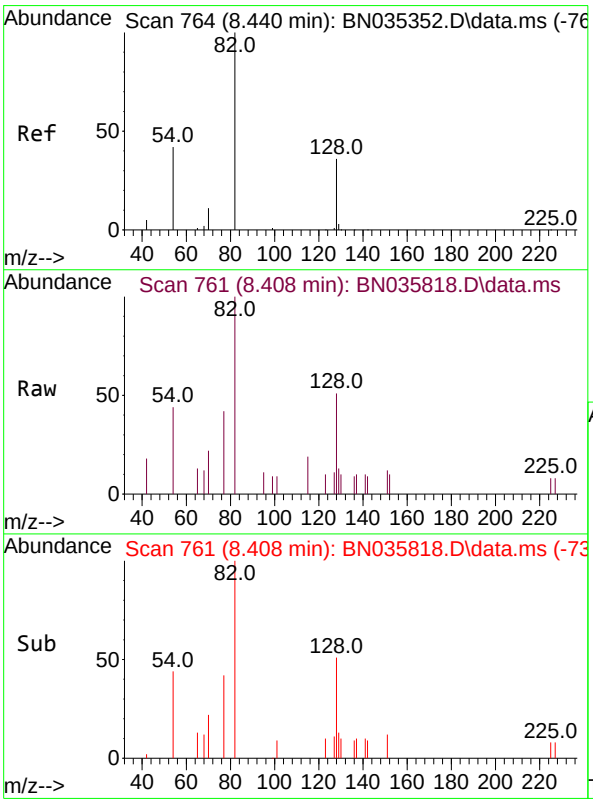
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 12.2 | 10.2 | 15.2 |
| 54 | 5.9 | 6.1 | 9.1# |
| 68 | 6.4 | 6.4 | 9.6 |




**Instrument :**
BNA_N
**ClientSampleId :**
DUP-07-20241218

**Manual Integrations**
**APPROVED**

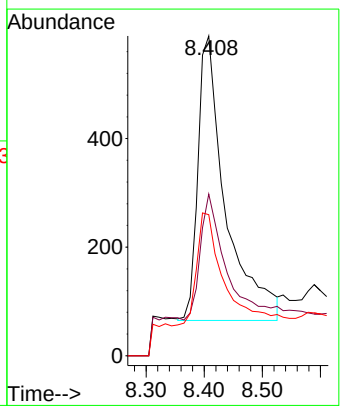
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

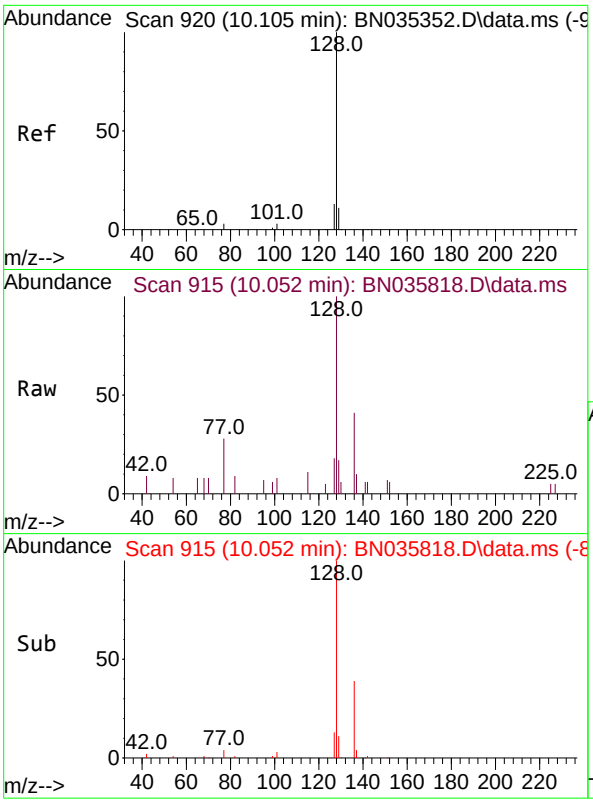



#8
Nitrobenzene-d5
Concen: 0.381 ng m
RT: 8.408 min Scan# 761
Delta R.T. -0.000 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

Tgt Ion: 82 Resp: 1728

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 50.6 | 33.4 | 50.0# |
| 54 | 44.1 | 36.7 | 55.1 |

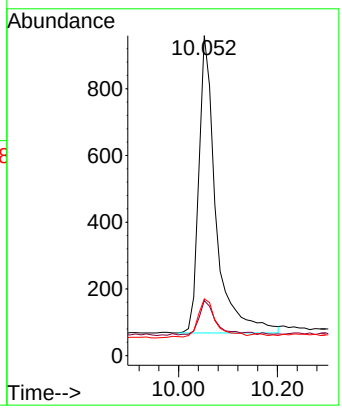





#9
Naphthalene
Concen: 0.109 ng
RT: 10.052 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

Tgt Ion:128 Resp: 214

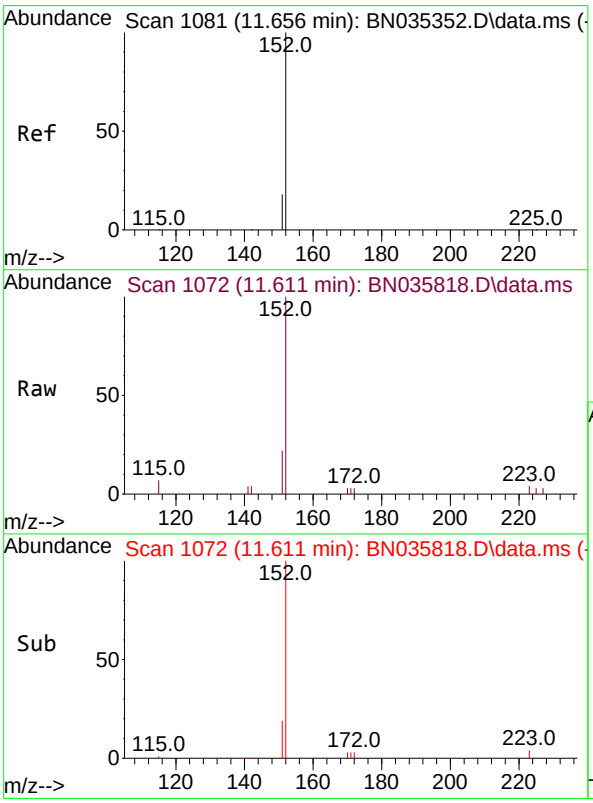
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 17.2 | 9.8 | 14.6# |
| 127 | 17.7 | 11.4 | 17.2# |




**Instrument :**
BNA_N
**ClientSampleId :**
DUP-07-20241218

**Manual Integrations**
**APPROVED**

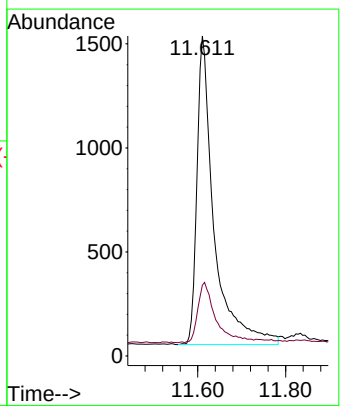
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

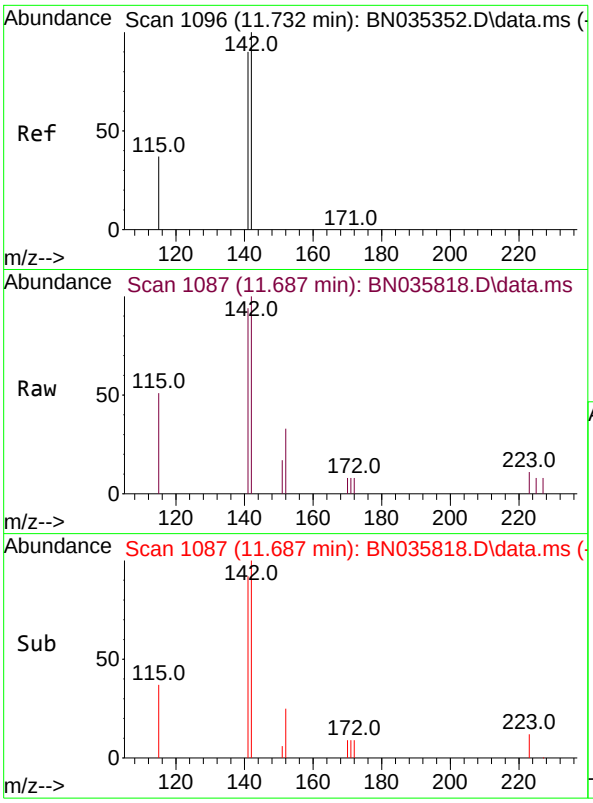



#11
2-Methylnaphthalene-d10
Concen: 0.346 ng
RT: 11.611 min Scan# 1072
Delta R.T. -0.010 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

Tgt Ion:152 Resp: 4011

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.3 | 16.6 | 25.0 |

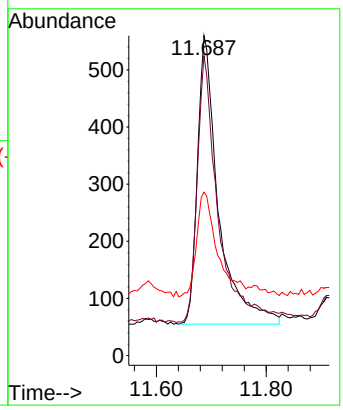





#12
2-Methylnaphthalene
Concen: 0.096 ng
RT: 11.687 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

Tgt Ion:142 Resp: 134

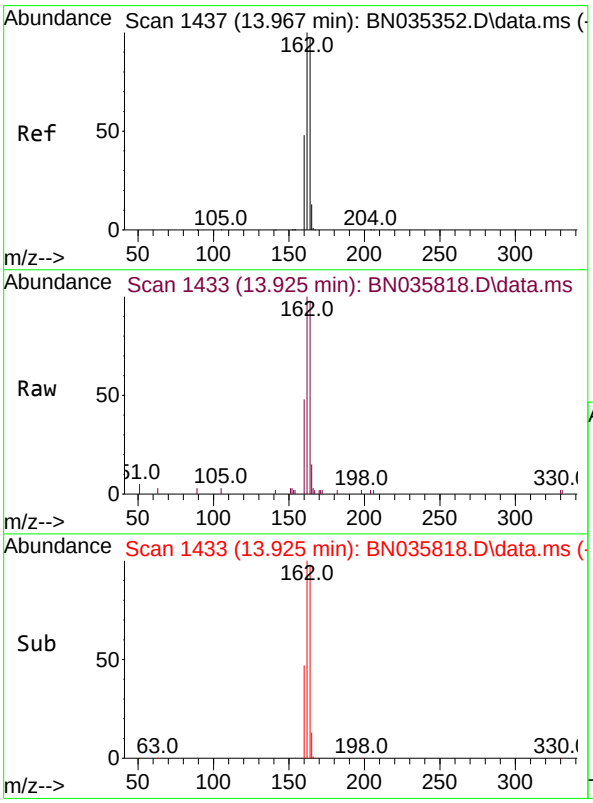
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 93.8 | 72.2 | 108.4 |
| 115 | 51.1 | 31.4 | 47.0 |




**Instrument :**
BNA_N
**ClientSampleId :**
DUP-07-20241218

**Manual Integrations**
**APPROVED**

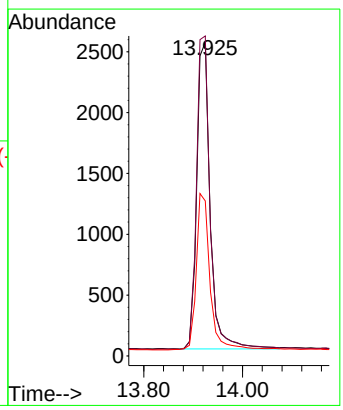
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

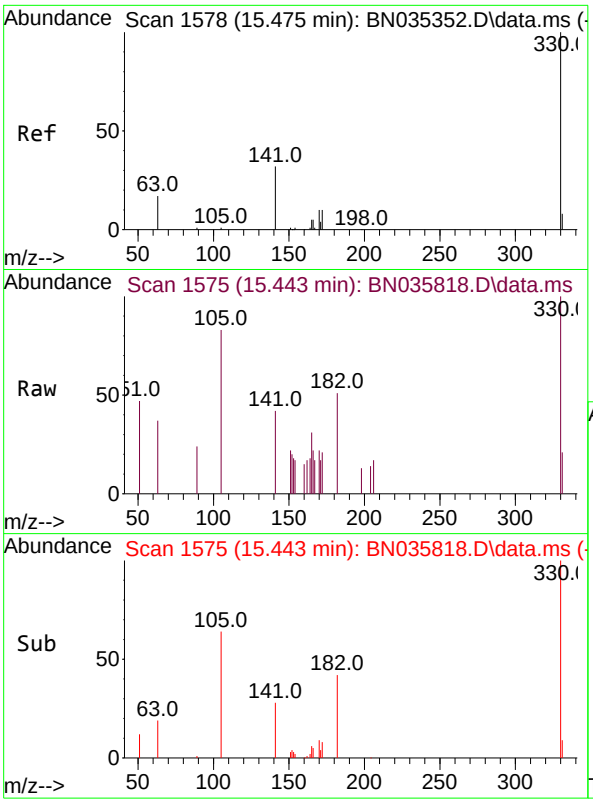



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.925 min Scan# 1433
Delta R.T. -0.011 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

Tgt Ion:164 Resp: 4769

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 102.0 | 82.2 | 123.2 |
| 160 | 49.4 | 40.1 | 60.1 |

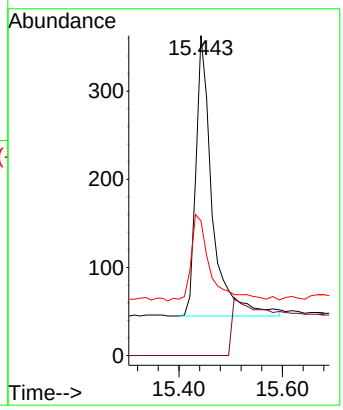





#14
2,4,6-Tribromophenol
Concen: 0.217 ng
RT: 15.443 min Scan# 1
Delta R.T. -0.011 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

Tgt Ion:330 Resp: 73

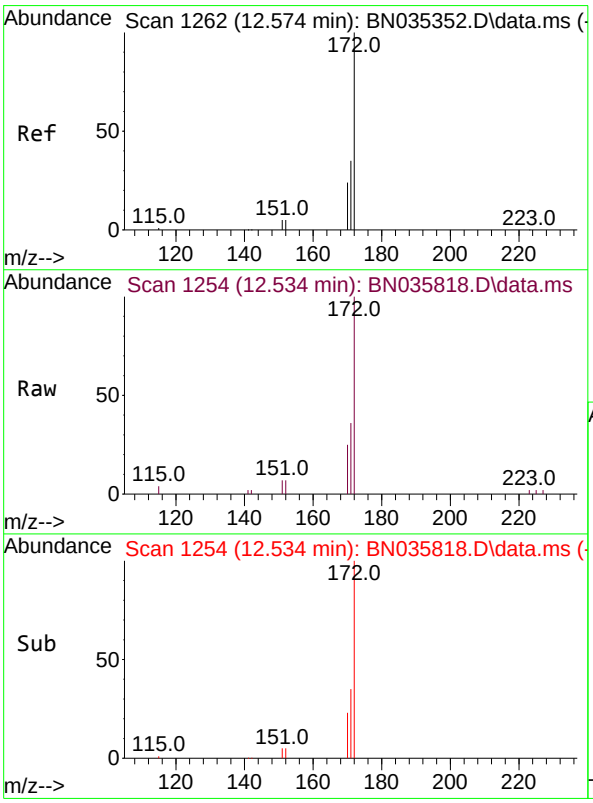
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 0.0 | 0.0 | 0.0 |
| 141 | 35.9 | 26.6 | 40.0 |




**Instrument :**
BNA_N
**ClientSampleId :**
DUP-07-20241218

**Manual Integrations**
**APPROVED**

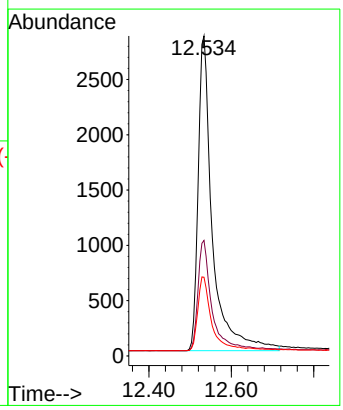
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

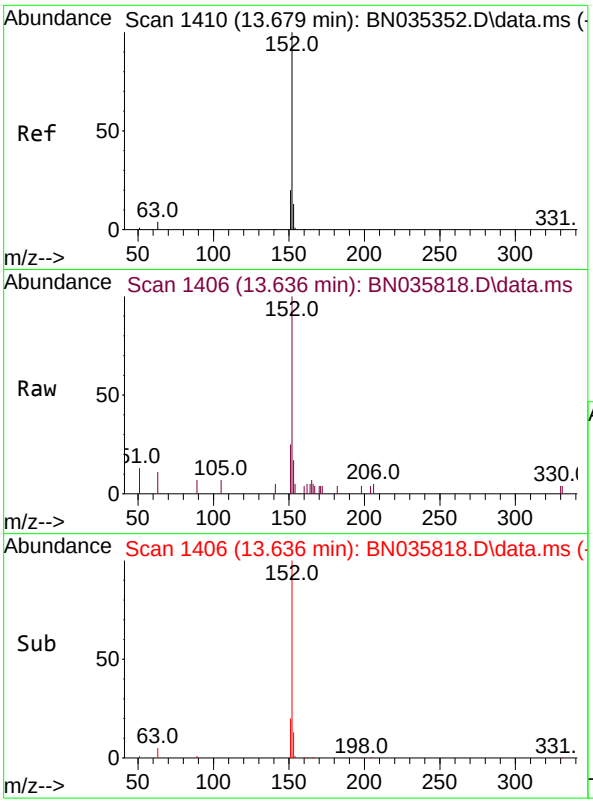



#15
2-Fluorobiphenyl
Concen: 0.381 ng
RT: 12.534 min Scan# 1254
Delta R.T. -0.010 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

Tgt Ion:172 Resp: 6868

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 36.1 | 29.0 | 43.4 |
| 170 | 24.6 | 19.8 | 29.8 |

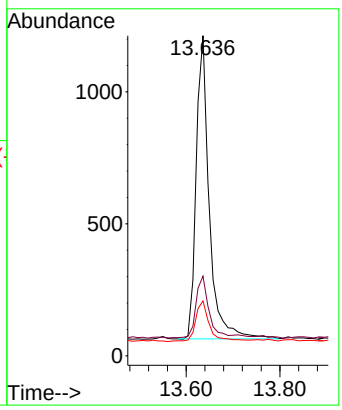





#16
Acenaphthylene
Concen: 0.111 ng
RT: 13.636 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

Tgt Ion:152 Resp: 222

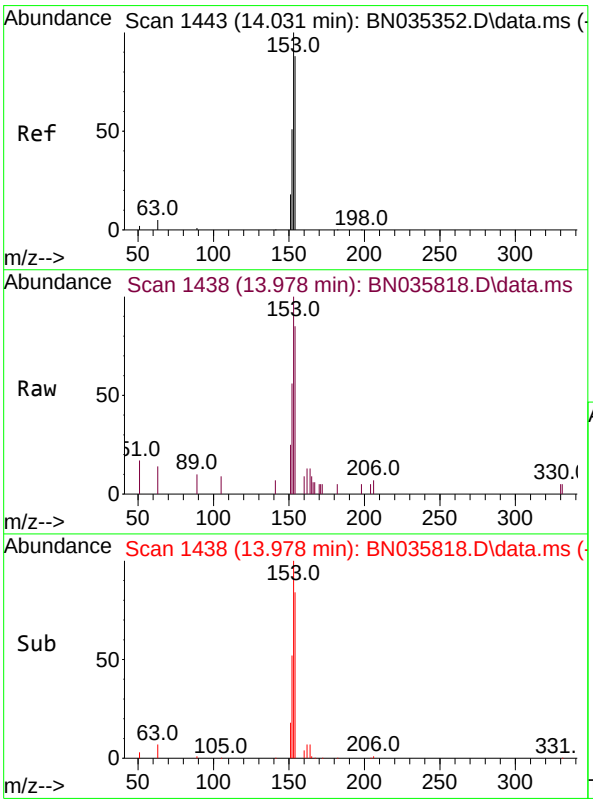
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.4 | 16.2 | 24.2 |
| 153 | 14.4 | 10.4 | 15.6 |




**Instrument :**
BNA_N
**ClientSampleId :**
DUP-07-20241218

**Manual Integrations APPROVED**

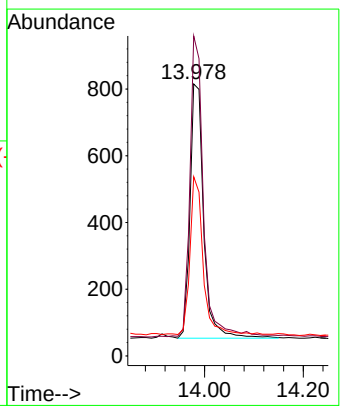
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

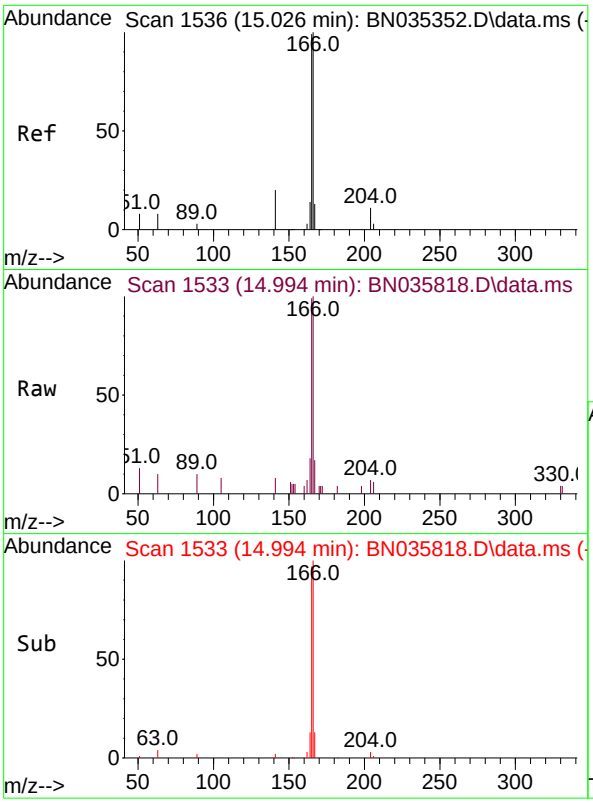



#17
Acenaphthene
Concen: 0.110 ng
RT: 13.978 min Scan# 1438
Delta R.T. -0.021 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

Tgt Ion:154 Resp: 1464

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 116.3 | 92.6 | 139.0 |
| 152 | 58.9 | 49.0 | 73.6 |

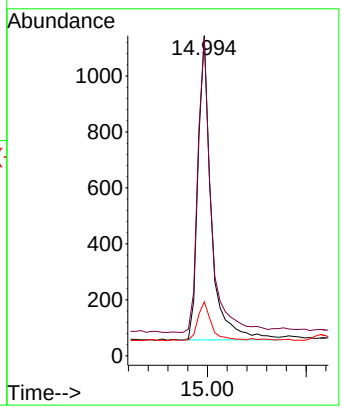





#18
Fluorene
Concen: 0.106 ng
RT: 14.994 min Scan# 1
Delta R.T. -0.011 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

Tgt Ion:166 Resp: 202

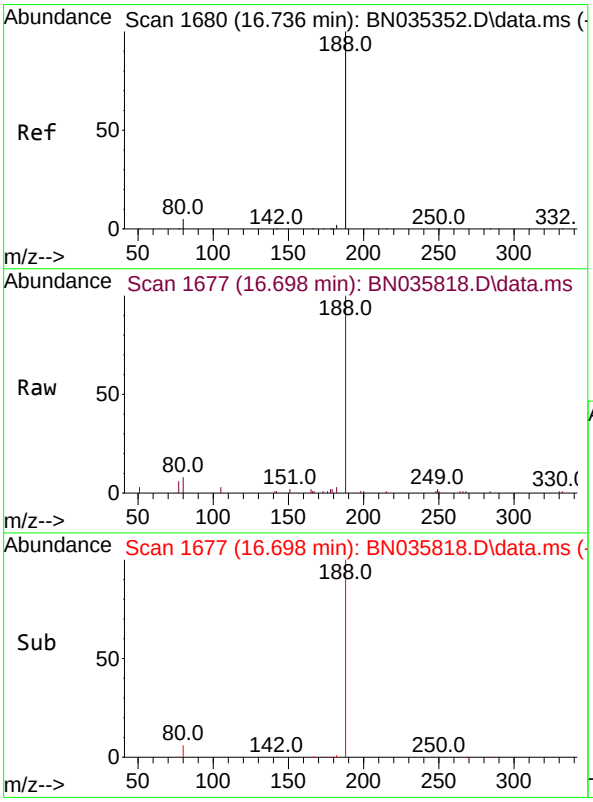
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 98.2 | 79.7 | 119.5 |
| 167 | 13.4 | 10.8 | 16.2 |




**Instrument :**
BNA_N
**ClientSampleId :**
DUP-07-20241218

**Manual Integrations**
**APPROVED**

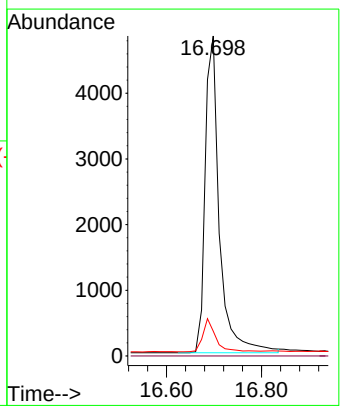
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

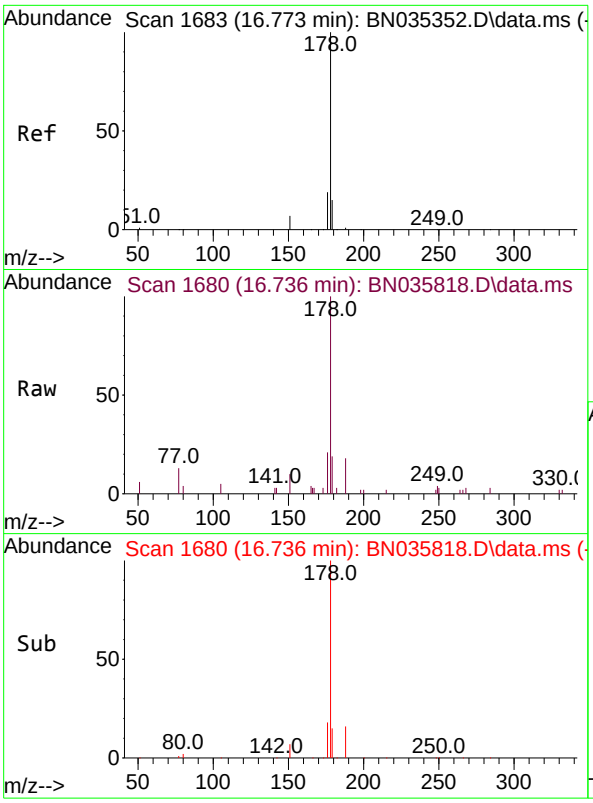



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1677
Delta R.T. -0.000 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

Tgt Ion:188 Resp: 10054

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 7.7 | 4.6 | 6.8# |

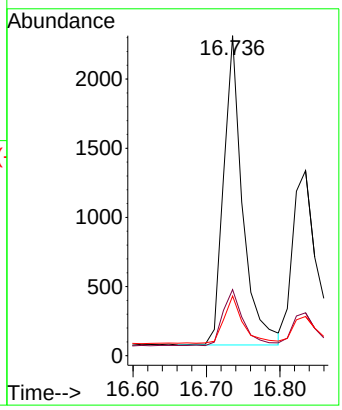





#25
Phenanthrene
Concen: 0.145 ng
RT: 16.736 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

Tgt Ion:178 Resp: 399

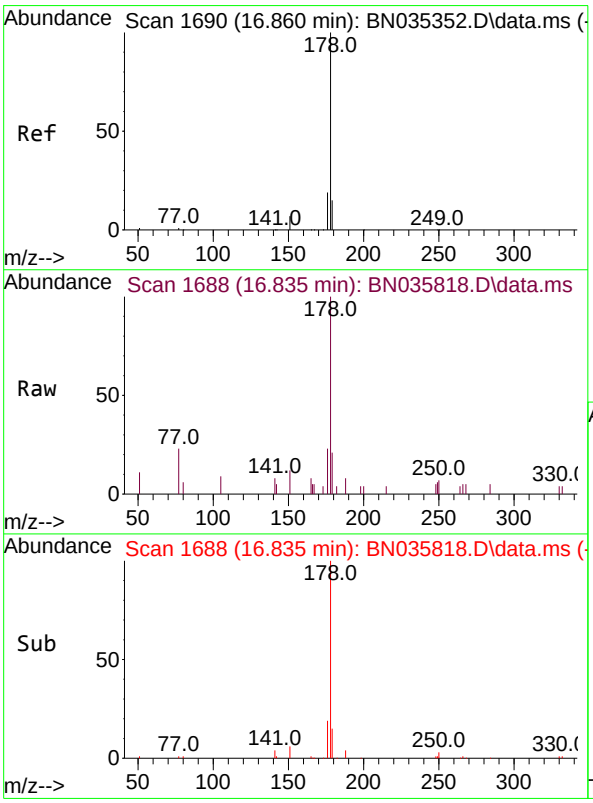
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 20.0 | 15.4 | 23.2 |
| 179 | 16.2 | 12.3 | 18.5 |




**Instrument :**
BNA_N
**ClientSampleId :**
DUP-07-20241218

**Manual Integrations**
**APPROVED**

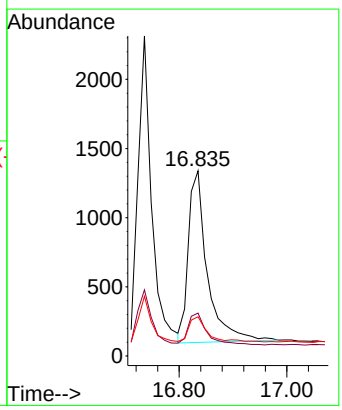
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

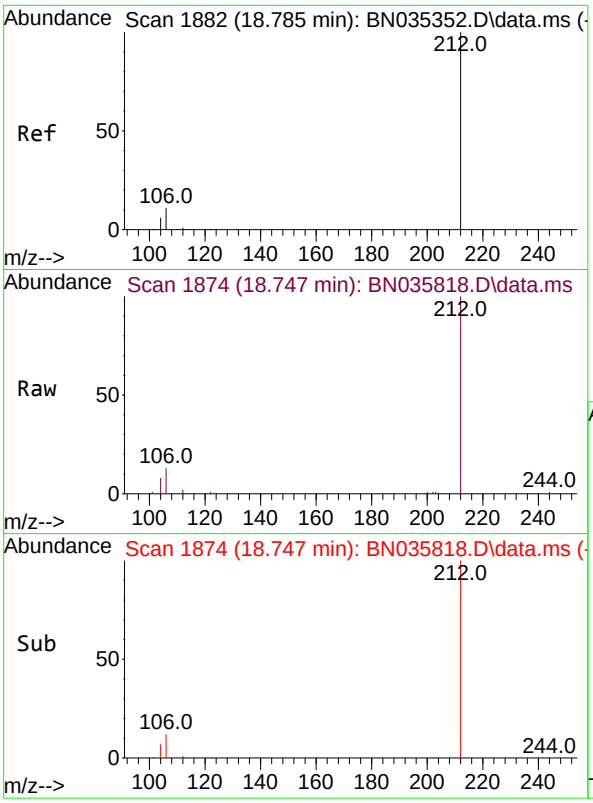



#26
Anthracene
Concen: 0.122 ng
RT: 16.835 min Scan# 1688
Delta R.T. -0.000 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

Tgt Ion:178 Resp: 3041

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.8 | 15.0 | 22.6 |
| 179 | 15.2 | 12.6 | 18.8 |

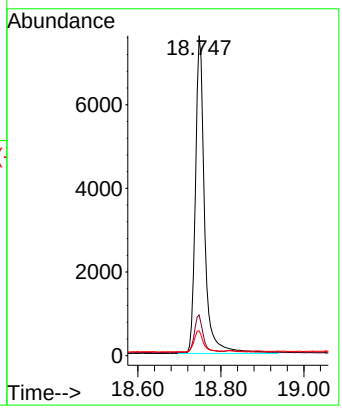





#27
Fluoranthene-d10
Concen: 0.411 ng
RT: 18.747 min Scan# 1
Delta R.T. -0.014 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

Tgt Ion:212 Resp: 1170

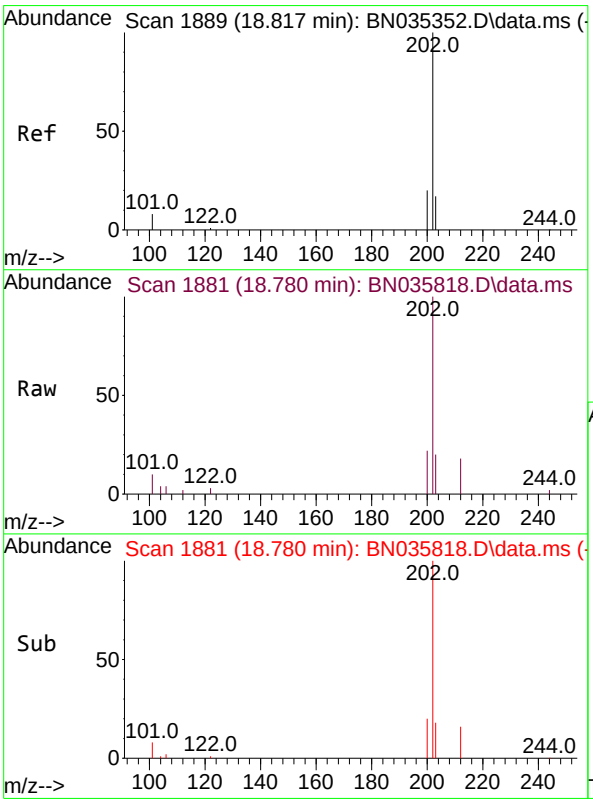
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 11.3 | 9.2 | 13.8 |
| 104 | 6.8 | 5.3 | 7.9 |




**Instrument :**
BNA_N
**ClientSampleId :**
DUP-07-20241218

**Manual Integrations APPROVED**

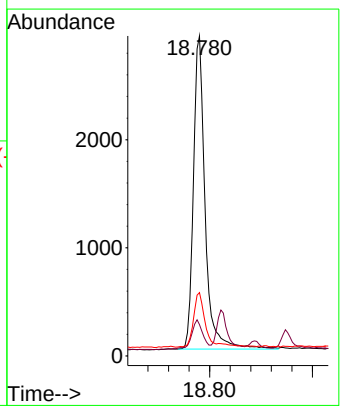
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

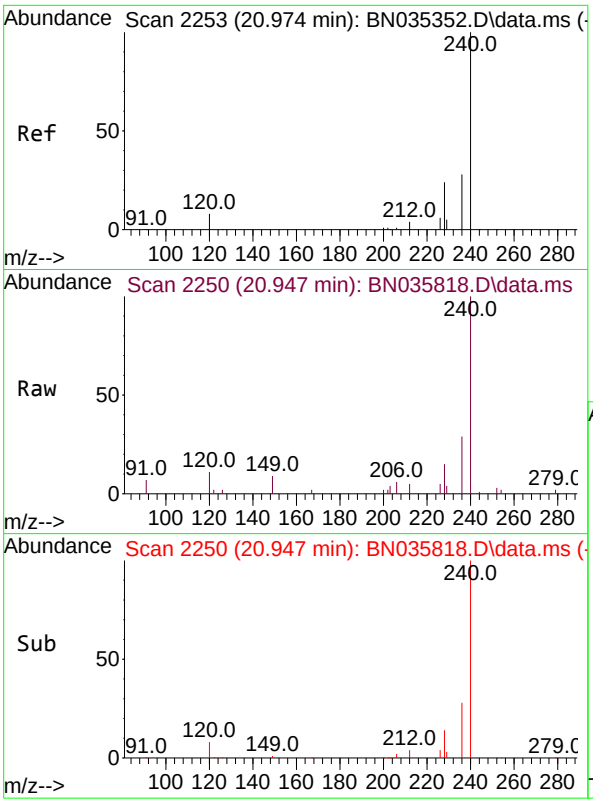



#28
Fluoranthene
Concen: 0.124 ng
RT: 18.780 min Scan# 1881
Delta R.T. -0.009 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

Tgt Ion:202 Resp: 4605

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 9.4 | 7.4 | 11.0 |
| 203 | 18.0 | 13.7 | 20.5 |






#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

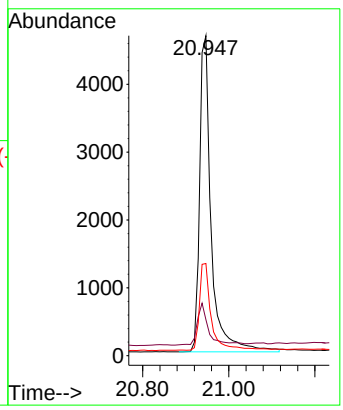
**Instrument :**
BNA_N
**ClientSampleId :**
DUP-07-20241218

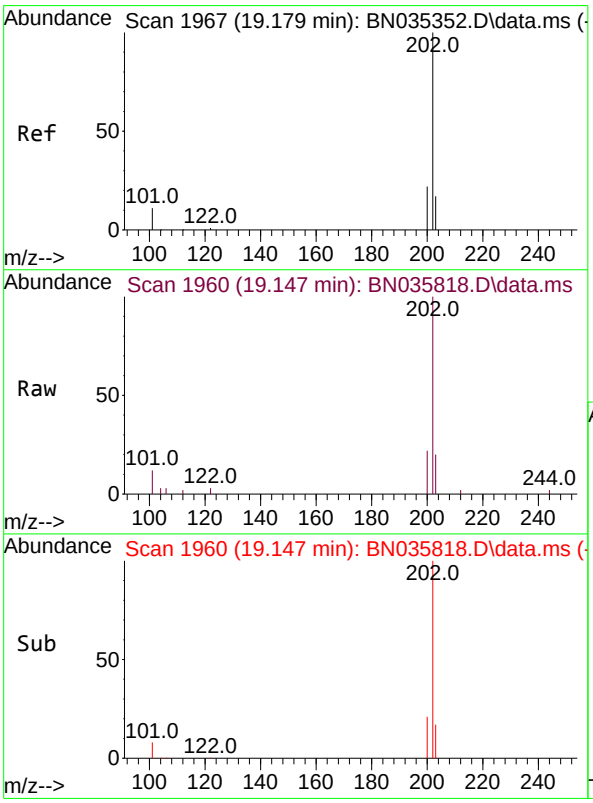
Tgt Ion:240 Resp: 873

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 11.3 | 7.9 | 11.9 |
| 236 | 28.8 | 22.9 | 34.3 |

**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

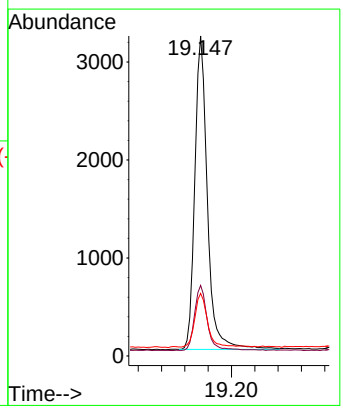


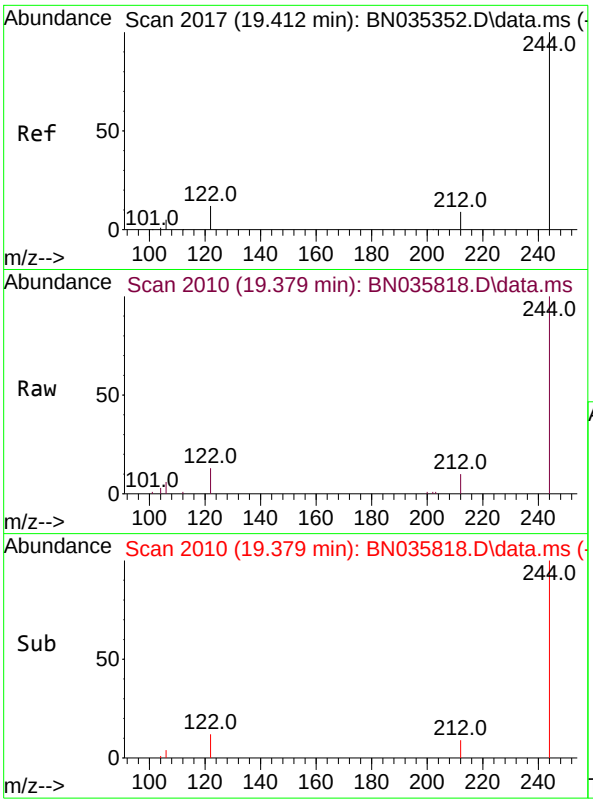




#30
Pyrene
Concen: 0.148 ng
RT: 19.147 min Scan# 1960
Delta R.T. -0.014 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

Tgt Ion:202 Resp: 4782

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.1 | 17.0 | 25.4 |
| 203 | 17.1 | 14.3 | 21.5 |

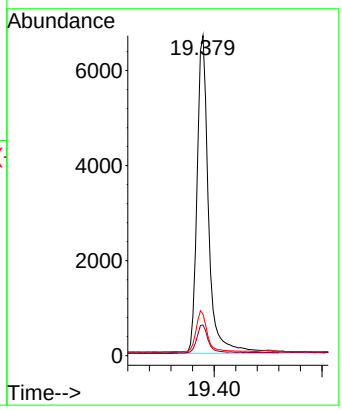





#31
Terphenyl-d14
Concen: 0.577 ng
RT: 19.379 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

Tgt Ion:244 Resp: 993

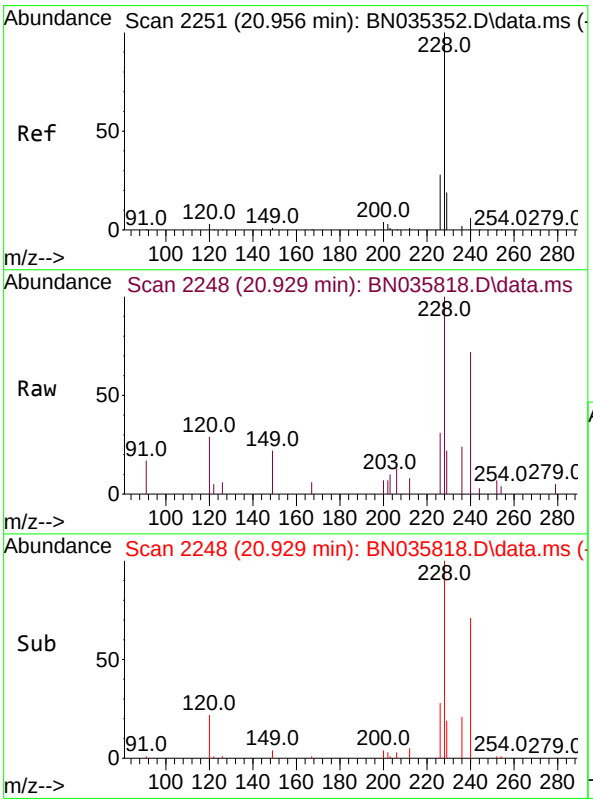
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 9.6 | 8.1 | 12.1 |
| 122 | 13.0 | 10.3 | 15.5 |




**Instrument :**
BNA_N
**ClientSampleId :**
DUP-07-20241218

**Manual Integrations APPROVED**

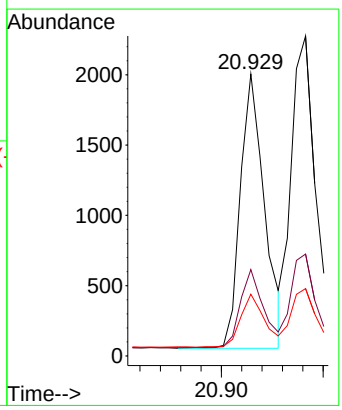
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

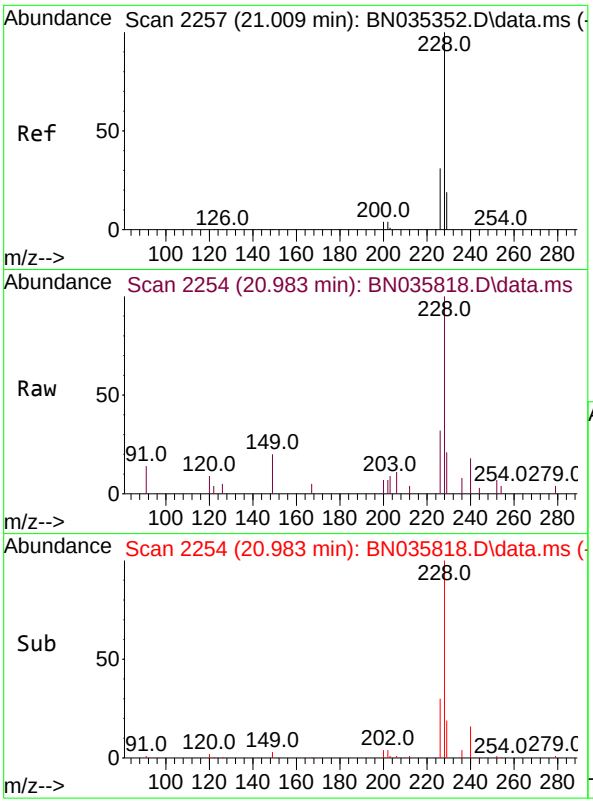



#32
Benzo(a)anthracene
Concen: 0.105 ng
RT: 20.929 min Scan# 2248
Delta R.T. -0.009 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

Tgt Ion:228 Resp: 3217

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 30.7 | 22.5 | 33.7 |
| 229 | 21.9 | 15.8 | 23.8 |

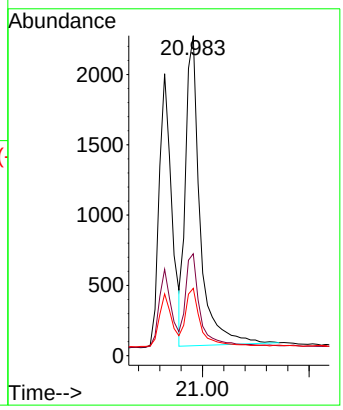





#33
Chrysene
Concen: 0.132 ng
RT: 20.983 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

Tgt Ion:228 Resp: 415

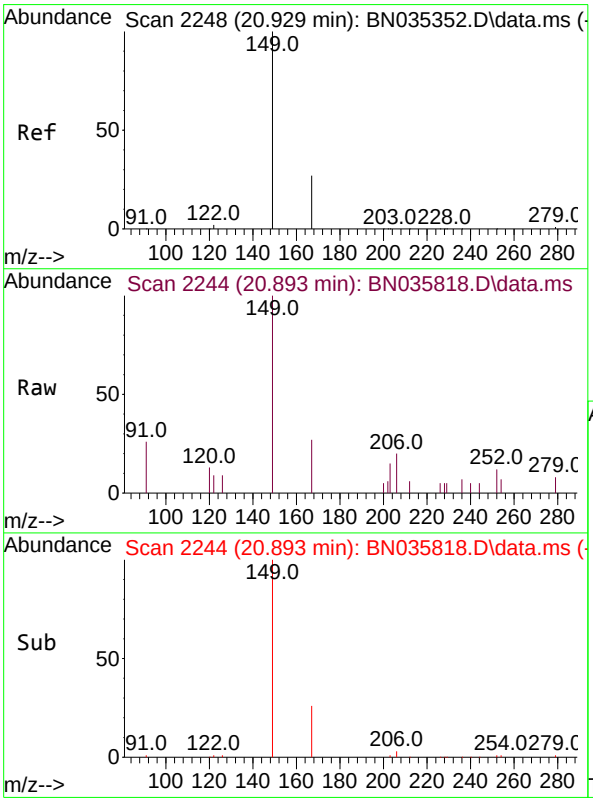
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 31.9 | 24.6 | 37.0 |
| 229 | 21.0 | 15.9 | 23.9 |




**Instrument :**
BNA_N
**ClientSampleId :**
DUP-07-20241218

**Manual Integrations**
**APPROVED**

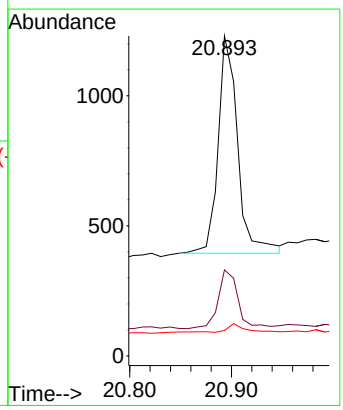
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

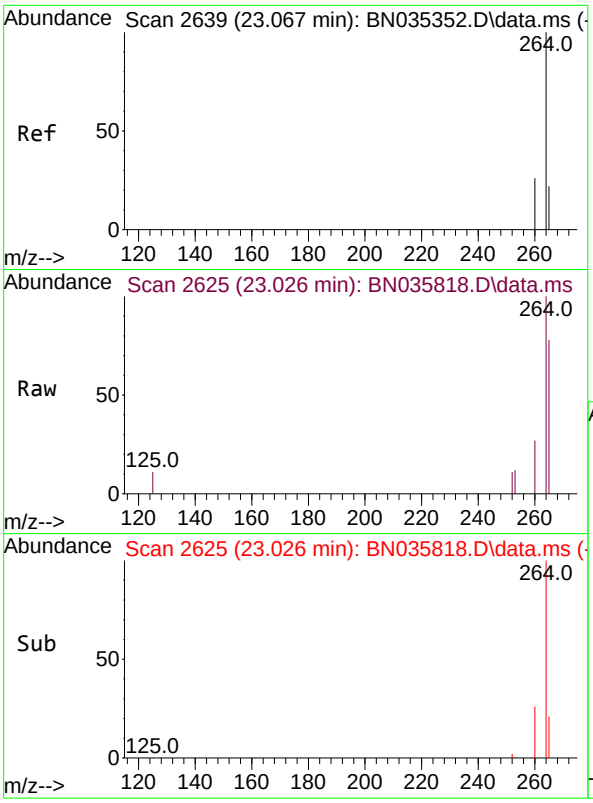



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.092 ng
RT: 20.893 min Scan# 2244
Delta R.T. -0.018 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

Tgt Ion:149 Resp: 1111

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 27.5 | 22.2 | 33.4 |
| 279 | 3.2 | 2.7 | 4.1 |

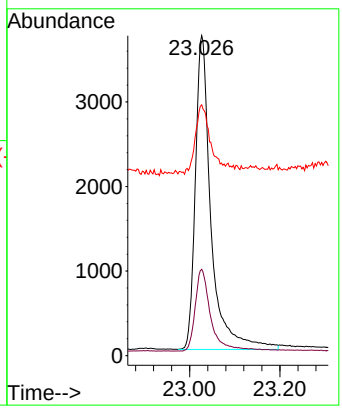





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.026 min Scan# 2
Delta R.T. -0.015 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

Tgt Ion:264 Resp: 894

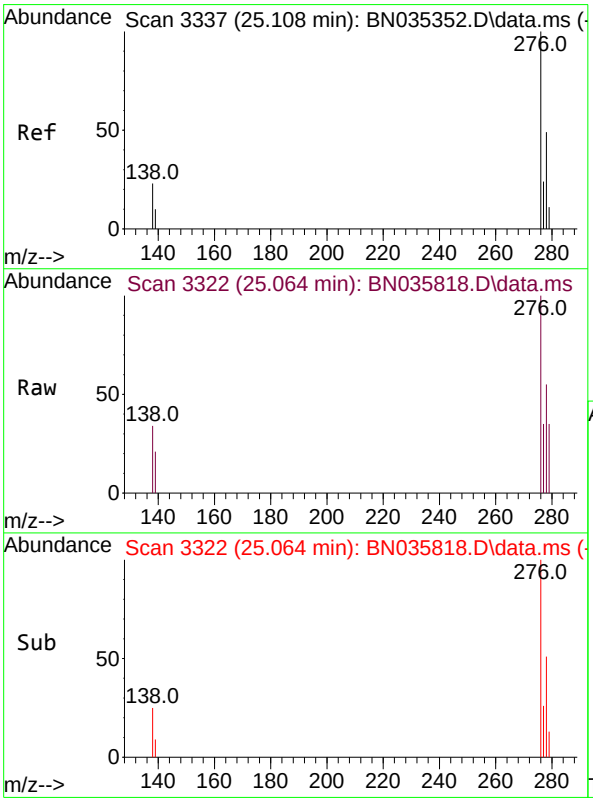
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 27.0 | 21.4 | 32.2 |
| 265 | 78.4 | 40.2 | 60.4 |




**Instrument :**
BNA_N
**ClientSampleId :**
DUP-07-20241218

**Manual Integrations**
**APPROVED**

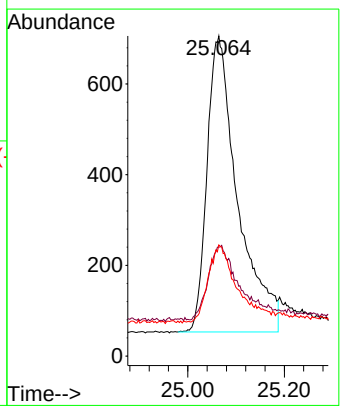
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

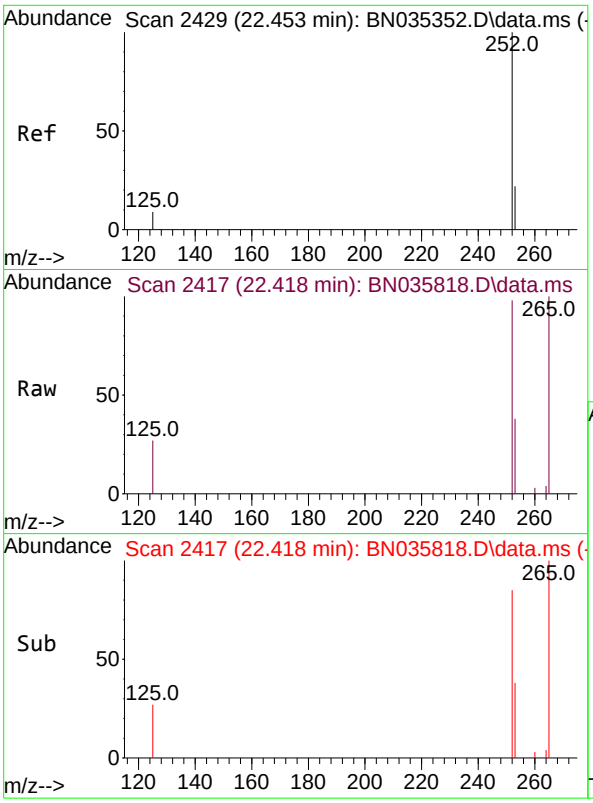



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.082 ng
RT: 25.064 min Scan# 3322
Delta R.T. -0.003 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

Tgt Ion:276 Resp: 2885

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 24.9 | 19.4 | 29.0 |
| 277 | 22.5 | 19.8 | 29.6 |

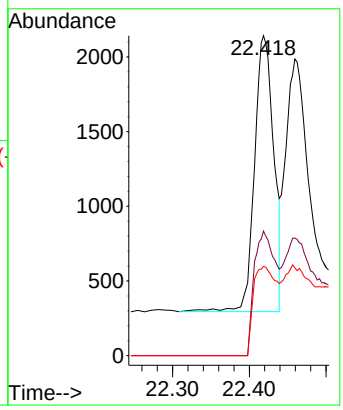





#37
Benzo(b)fluoranthene
Concen: 0.180 ng
RT: 22.418 min Scan# 24
Delta R.T. -0.012 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

Tgt Ion:252 Resp: 589

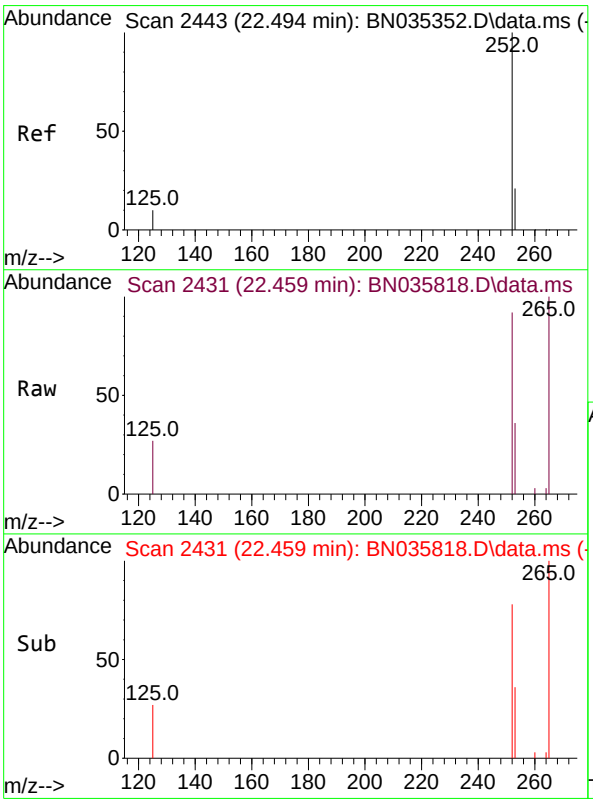
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 38.9 | 19.6 | 29.4# |
| 125 | 27.9 | 9.6 | 14.4# |




**Instrument :**
BNA_N
**ClientSampleId :**
DUP-07-20241218

**Manual Integrations**
**APPROVED**

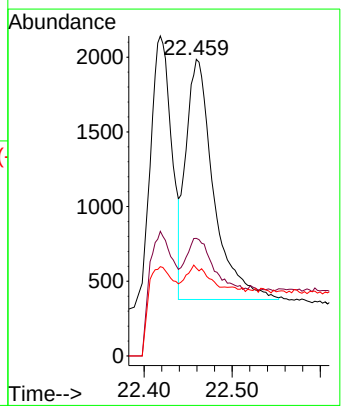
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

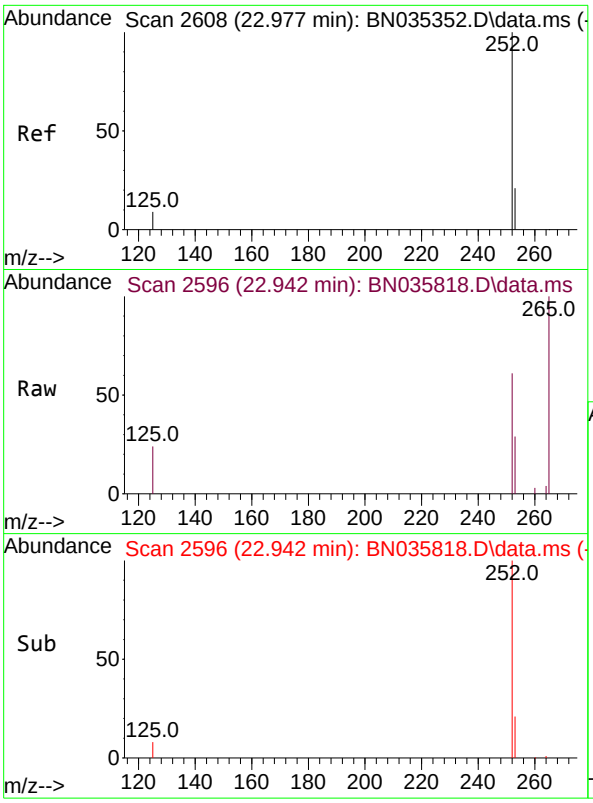



#38
Benzo(k)fluoranthene
Concen: 0.110 ng m
RT: 22.459 min Scan# 2431
Delta R.T. -0.012 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

Tgt Ion:252 Resp: 3531

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 39.6 | 19.5 | 29.3# |
| 125 | 29.6 | 10.2 | 15.4# |

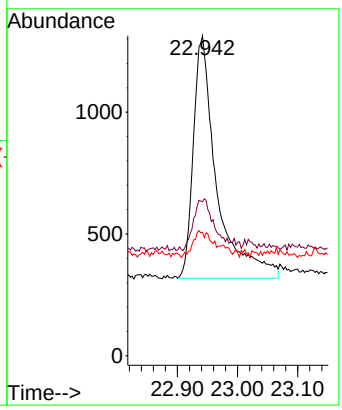





#39
Benzo(a)pyrene
Concen: 0.100 ng
RT: 22.942 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

Tgt Ion:252 Resp: 268

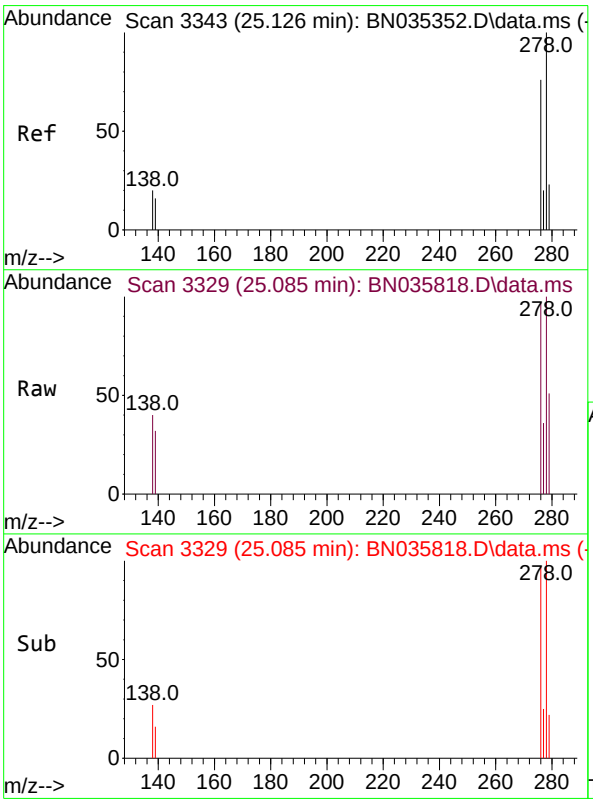
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 48.2 | 20.2 | 30.4# |
| 125 | 38.6 | 10.9 | 16.3# |




**Instrument :**
BNA_N
**ClientSampleId :**
DUP-07-20241218

**Manual Integrations**
**APPROVED**

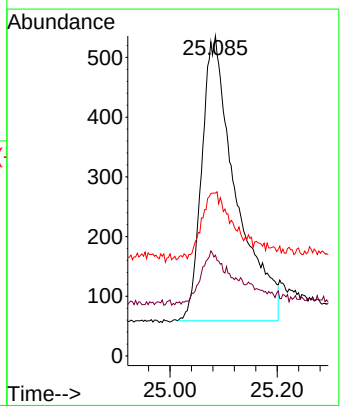
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

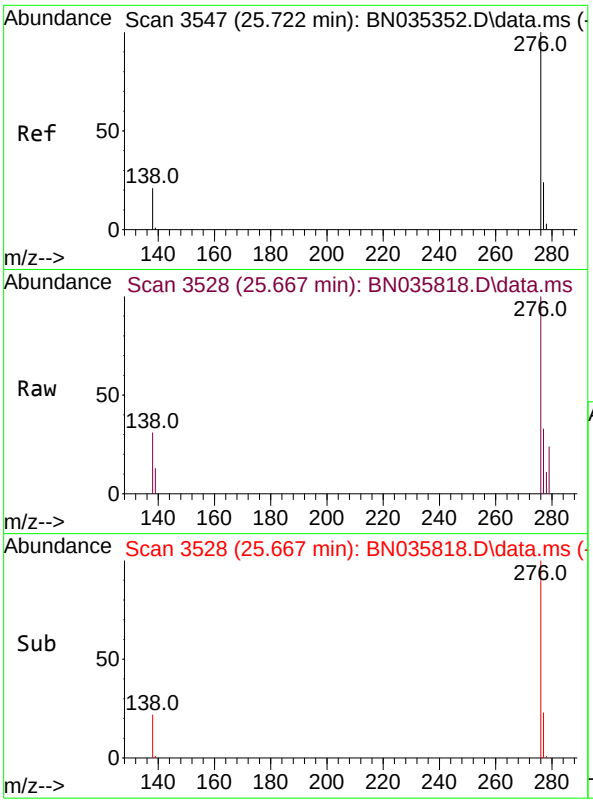



#40
Dibenzo(a,h)anthracene
Concen: 0.076 ng
RT: 25.085 min Scan# 3329
Delta R.T. 0.003 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

Tgt Ion:278 Resp: 2103

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 31.5 | 14.2 | 21.4# |
| 279 | 50.9 | 20.5 | 30.7# |

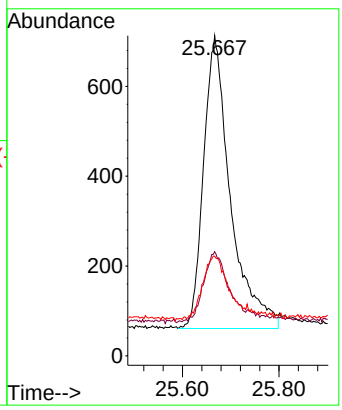





#41
Benzo(g,h,i)perylene
Concen: 0.087 ng
RT: 25.667 min Scan# 3
Delta R.T. -0.012 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

Tgt Ion:276 Resp: 251

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 32.5 | 19.9 | 29.9# |
| 138 | 31.1 | 17.8 | 26.8# |




**Instrument :**
BNA_N
**ClientSampleId :**
DUP-07-20241218

**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | AECOM Technical Services, Inc. | Date Collected: | 12/18/24 |
| Project: | NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258 | Date Received: | 12/20/24 |
| Client Sample ID: | TT174I1-20241218 | SDG No.: | P5376 |
| Lab Sample ID: | P5376-06 | Matrix: | Water |
| Analytical Method: | SW8270ESIM | % Solid: | 0 |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-SIMGroup1 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BN035819.D | 1 | 12/23/24 13:29 | 12/24/24 13:44 | PB165828 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 123-91-1 | 1,4-Dioxane | 0.80 | | 0.070 | 0.20 | 0.20 | ug/L |
| **SURROGATES** | | | | | | | |
| 7297-45-2 | 2-Methylnaphthalene-d10 | 0.37 | | 30 - 150 | | 92% | SPK: 0.4 |
| 93951-69-0 | Fluoranthene-d10 | 0.42 | | 30 - 150 | | 105% | SPK: 0.4 |
| 4165-60-0 | Nitrobenzene-d5 | 0.44 | | 55 - 111 | | 109% | SPK: 0.4 |
| 321-60-8 | 2-Fluorobiphenyl | 0.42 | | 53 - 106 | | 105% | SPK: 0.4 |
| 1718-51-0 | Terphenyl-d14 | 0.57 | * | 58 - 132 | | 143% | SPK: 0.4 |
| **INTERNAL STANDARDS** | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 3690 | 7.264 | | | | |
| 1146-65-2 | Naphthalene-d8 | 8470 | 10.009 | | | | |
| 15067-26-2 | Acenaphthene-d10 | 5270 | 13.924 | | | | |
| 1517-22-2 | Phenanthrene-d10 | 9420 | 16.698 | | | | |
| 1719-03-5 | Chrysene-d12 | 7350 | 20.947 | | | | |
| 1520-96-3 | Perylene-d12 | 7210 | 23.026 | | | | |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035819.D
Acq On : 24 Dec 2024 13:44
Operator : RC/JU
Sample : P5376-06
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
TT174l1-20241218

**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

Quant Time: Dec 24 23:18:17 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.264 | 152 | 3689 | 0.400 | ng | 0.00 |
| 7) Naphthalene-d8 | 10.009 | 136 | 8470 | 0.400 | ng | -0.01 |
| 13) Acenaphthene-d10 | 13.924 | 164 | 5265 | 0.400 | ng | -0.01 |
| 19) Phenanthrene-d10 | 16.698 | 188 | 9421 | 0.400 | ng | # 0.00 |
| 29) Chrysene-d12 | 20.947 | 240 | 7347 | 0.400 | ng | # 0.00 |
| 35) Perylene-d12 | 23.026 | 264 | 7210 | 0.400 | ng | #-0.01 |
| System Monitoring Compounds | | | | | | |
| 4) 2-Fluorophenol | 4.924 | 112 | 1128 | 0.122 | ng | -0.01 |
| 5) Phenol-d6 | 6.484 | 99 | 578 | 0.052 | ng | 0.00 |
| 8) Nitrobenzene-d5 | 8.407 | 82 | 2260m | 0.437 | ng | 0.00 |
| 11) 2-Methylnaphthalene-d10 | 11.615 | 152 | 4896 | 0.369 | ng | 0.00 |
| 14) 2,4,6-Tribromophenol | 15.453 | 330 | 747 | 0.200 | ng | 0.00 |
| 15) 2-Fluorobiphenyl | 12.538 | 172 | 8403 | 0.422 | ng | 0.00 |
| 27) Fluoranthene-d10 | 18.752 | 212 | 11207 | 0.420 | ng | 0.00 |
| 31) Terphenyl-d14 | 19.379 | 244 | 8308 | 0.573 | ng | 0.00 |
| Target Compounds | | | | | | Qvalue |
| 2) 1,4-Dioxane | 2.974 | 88 | 2834 | 0.804 | ng | 99 |
| 9) Naphthalene | 10.052 | 128 | 2295 | 0.103 | ng | # 90 |
| 12) 2-Methylnaphthalene | 11.691 | 142 | 1434 | 0.090 | ng | # 92 |
| 16) Acenaphthylene | 13.636 | 152 | 2575 | 0.116 | ng | 99 |
| 17) Acenaphthene | 13.988 | 154 | 1536 | 0.105 | ng | 96 |
| 18) Fluorene | 14.993 | 166 | 1937 | 0.092 | ng | 99 |
| 25) Phenanthrene | 16.735 | 178 | 3558 | 0.137 | ng | 99 |
| 26) Anthracene | 16.835 | 178 | 2627 | 0.112 | ng | 99 |
| 28) Fluoranthene | 18.780 | 202 | 3772 | 0.108 | ng | 99 |
| 30) Pyrene | 19.147 | 202 | 3996 | 0.147 | ng | 100 |
| 32) Benzo(a)anthracene | 20.929 | 228 | 2328 | 0.091 | ng | 95 |
| 33) Chrysene | 20.982 | 228 | 3355 | 0.127 | ng | 96 |
| 34) Bis(2-ethylhexyl)phtha... | 20.893 | 149 | 357 | 0.035 | ng | # 96 |
| 36) Indeno(1,2,3-cd)pyrene | 25.067 | 276 | 2032 | 0.072 | ng | # 86 |
| 37) Benzo(b)fluoranthene | 22.421 | 252 | 3012 | 0.114 | ng | # 58 |
| 38) Benzo(k)fluoranthene | 22.462 | 252 | 2589 | 0.100 | ng | # 56 |
| 39) Benzo(a)pyrene | 22.944 | 252 | 1842 | 0.085 | ng | # 32 |
| 40) Dibenzo(a,h)anthracene | 25.090 | 278 | 1565 | 0.070 | ng | # 43 |
| 41) Benzo(g,h,i)perylene | 25.672 | 276 | 1852 | 0.080 | ng | # 78 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

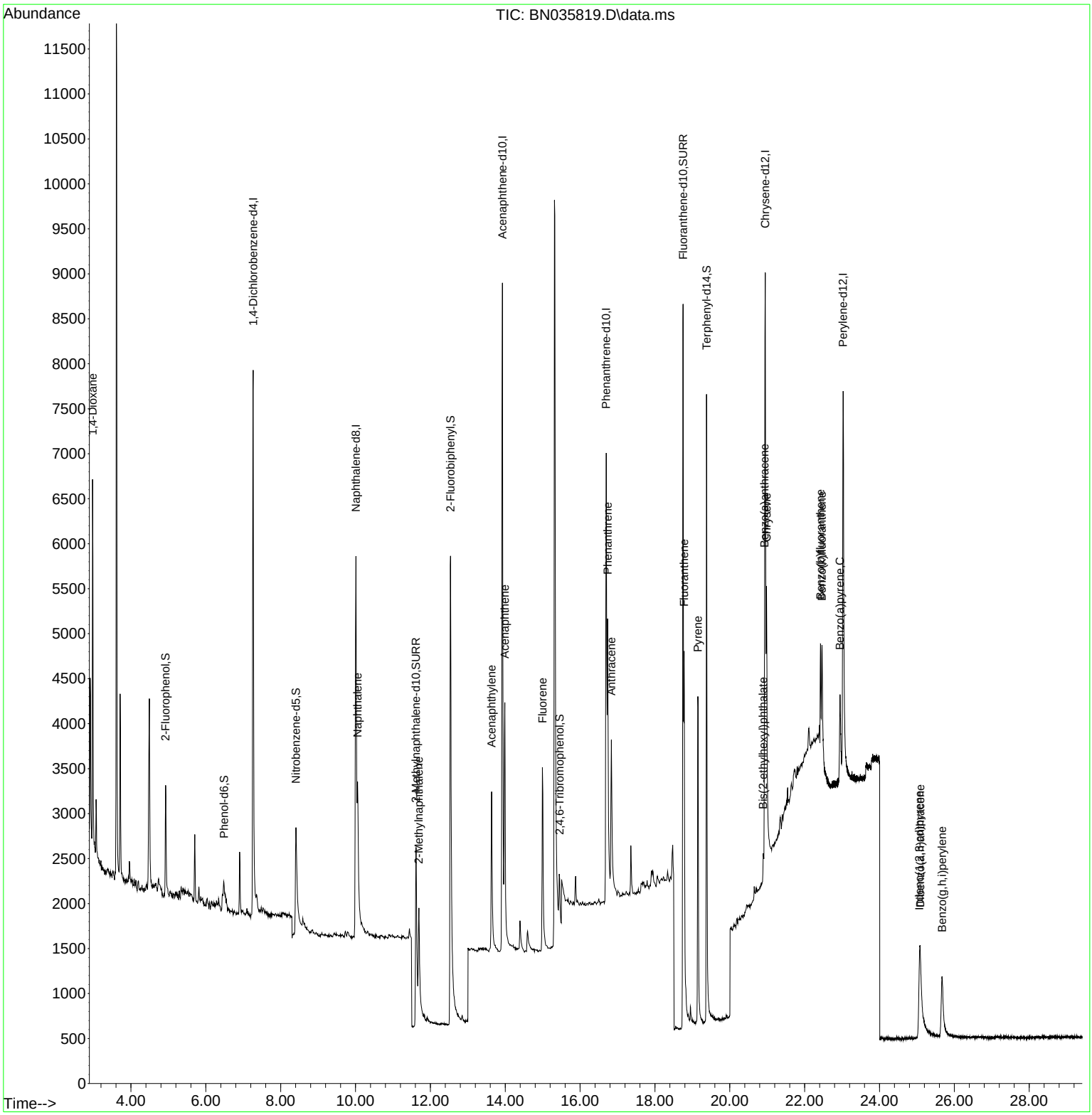
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035819.D
Acq On : 24 Dec 2024 13:44
Operator : RC/JU
Sample : P5376-06
Misc :
ALS Vial : 10 Sample Multiplier: 1

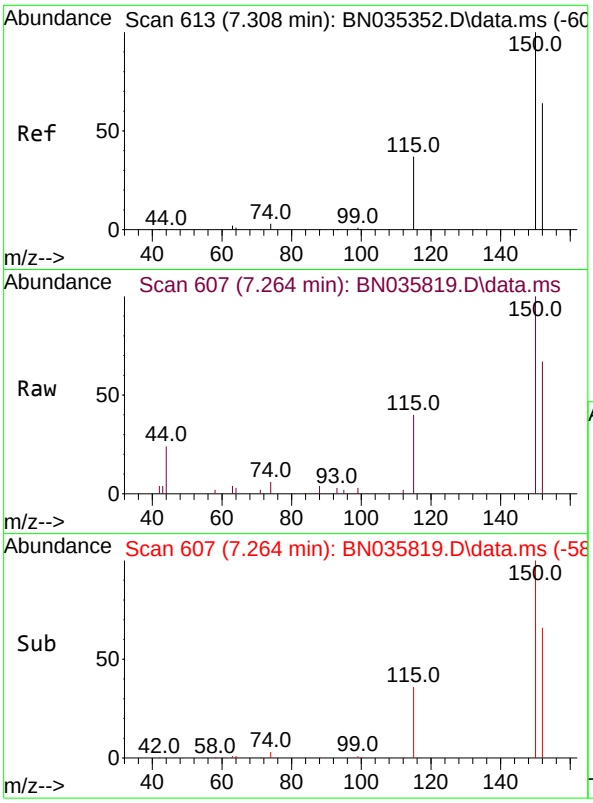
Quant Time: Dec 24 23:18:17 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

**Instrument :**
BNA_N
**ClientSampleId :**
TT174I1-20241218

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

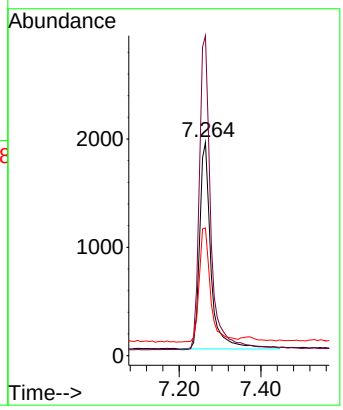





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.264 min Scan# 6(
Delta R.T. -0.008 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

Tgt Ion:152 Resp: 368

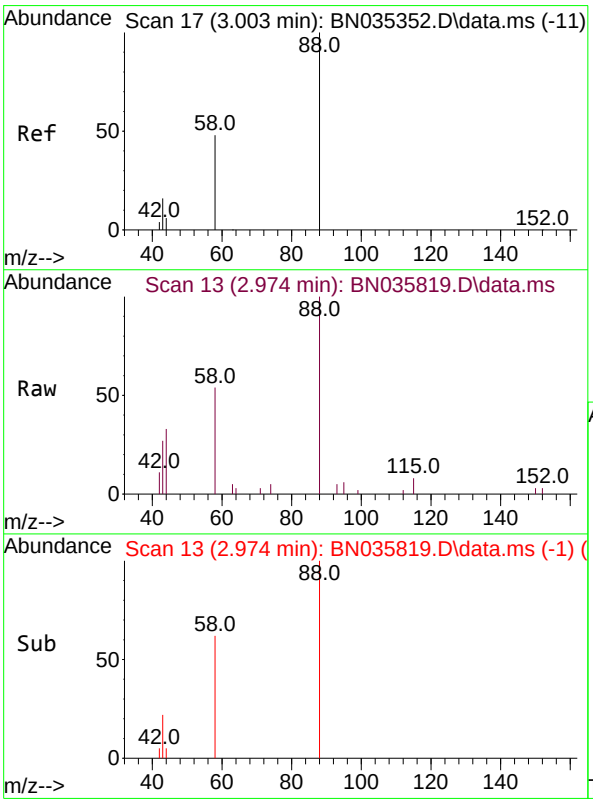
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 150.0 | 124.0 | 186.0 |
| 115 | 59.8 | 49.6 | 74.4 |




**Instrument :**
BNA_N
**ClientSampleId :**
TT174I1-20241218

**Manual Integrations**
**APPROVED**

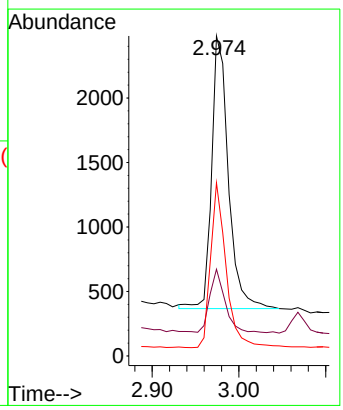
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

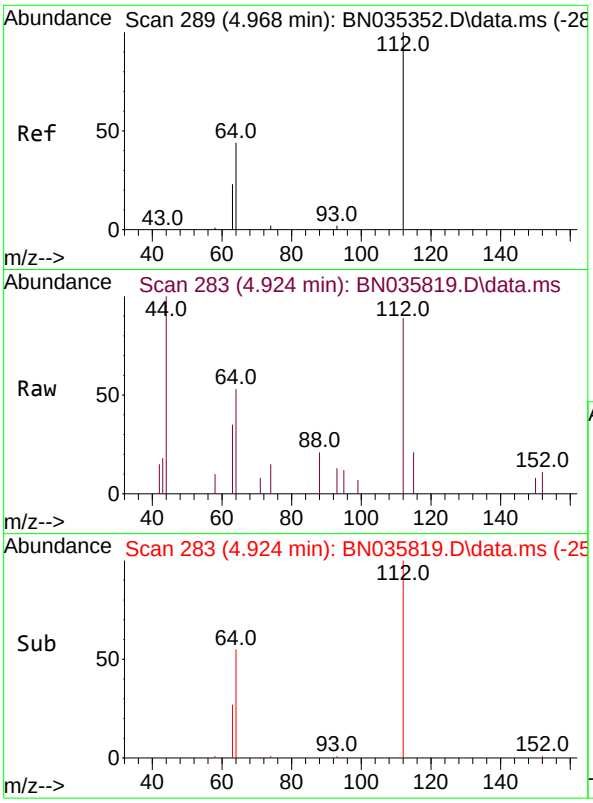



#2
1,4-Dioxane
Concen: 0.804 ng
RT: 2.974 min Scan# 13
Delta R.T. -0.008 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

Tgt Ion: 88 Resp: 2834

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 21.2 | 17.2 | 25.8 |
| 58 | 56.3 | 44.5 | 66.7 |

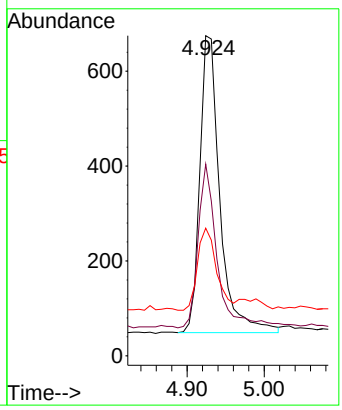





#4
2-Fluorophenol
Concen: 0.122 ng
RT: 4.924 min Scan# 2
Delta R.T. -0.015 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

Tgt Ion:112 Resp: 112

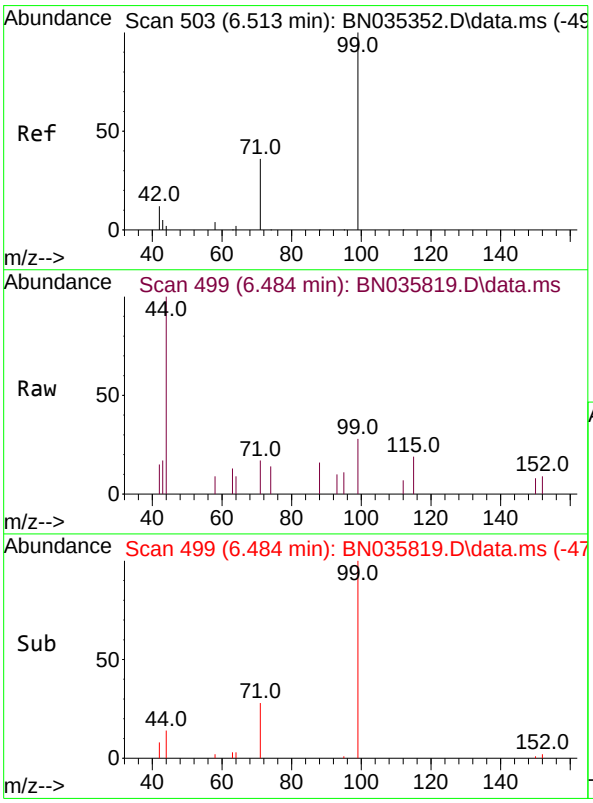
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 53.3 | 39.8 | 59.8 |
| 63 | 26.3 | 21.0 | 31.6 |




**Instrument :**
BNA_N
**ClientSampleId :**
TT174I1-20241218

**Manual Integrations**
**APPROVED**

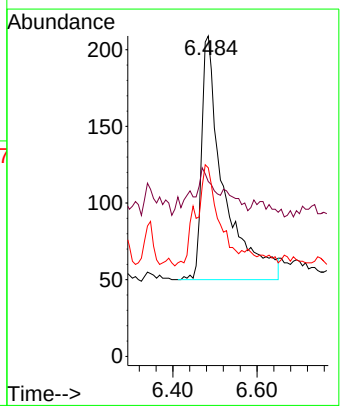
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

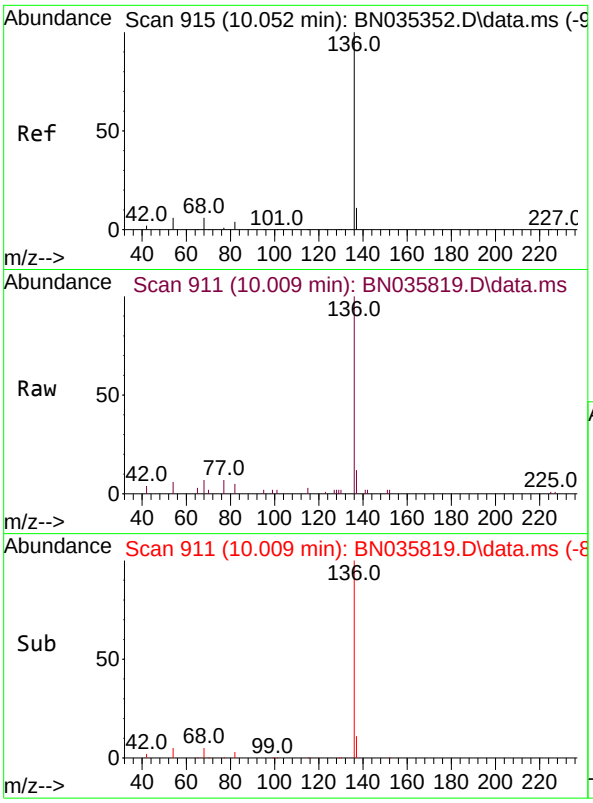



#5
Phenol-d6
Concen: 0.052 ng
RT: 6.484 min Scan# 499
Delta R.T. -0.008 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

Tgt Ion: 99 Resp: 578

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 5.5 | 11.4 | 17.2# |
| 71 | 42.2 | 29.3 | 43.9 |

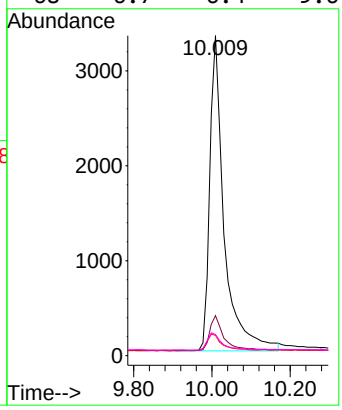





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

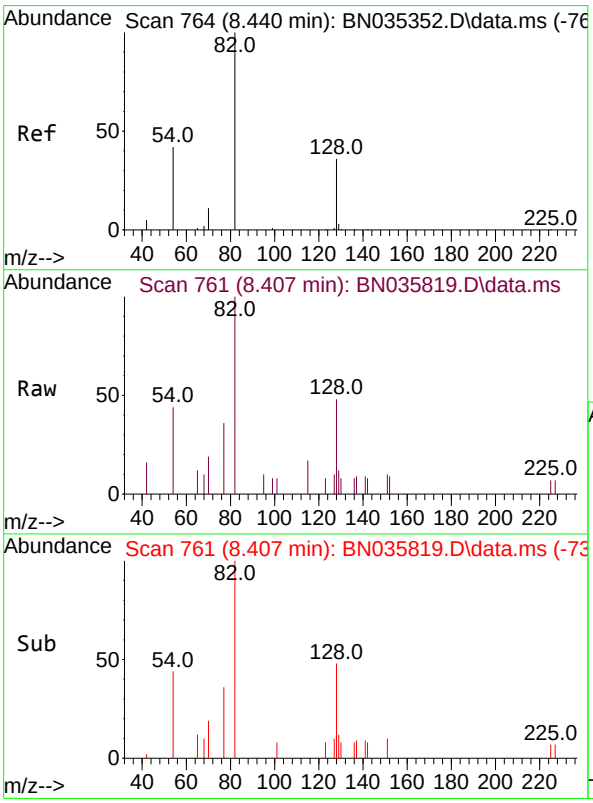
Tgt Ion:136 Resp: 847

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 12.5 | 10.2 | 15.2 |
| 54 | 6.4 | 6.1 | 9.1 |
| 68 | 6.7 | 6.4 | 9.6 |




**Instrument :**
BNA_N
**ClientSampleId :**
TT174I1-20241218

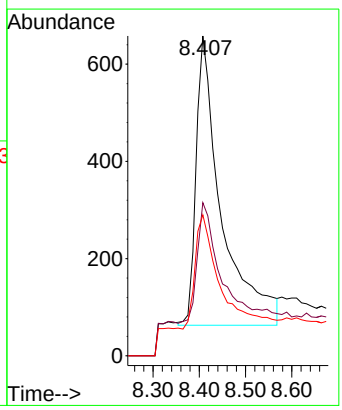
**Manual Integrations**
**APPROVED**
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

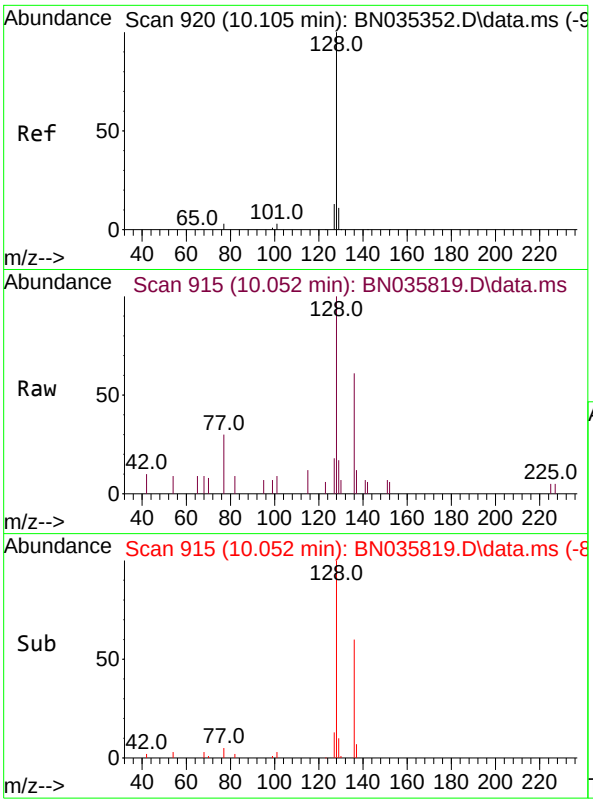



#8
Nitrobenzene-d5
Concen: 0.437 ng m
RT: 8.407 min Scan# 761
Delta R.T. -0.000 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

Tgt Ion: 82 Resp: 2260

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 47.9 | 33.4 | 50.0 |
| 54 | 44.1 | 36.7 | 55.1 |

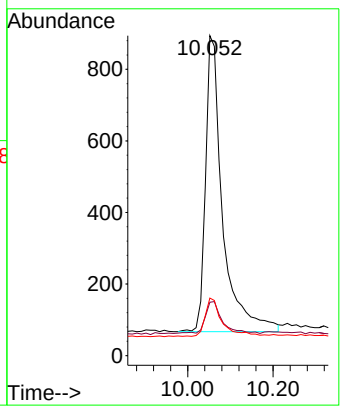





#9
Naphthalene
Concen: 0.103 ng
RT: 10.052 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

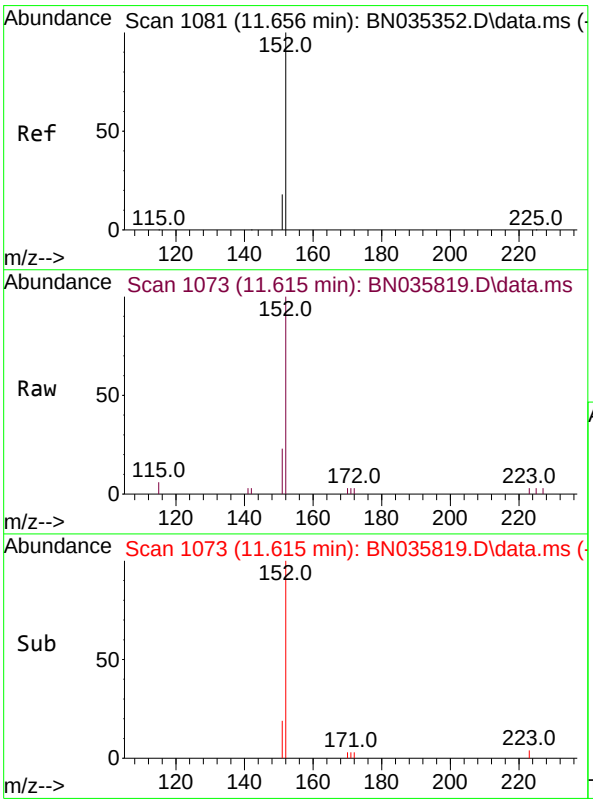
Tgt Ion:128 Resp: 229

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 16.7 | 9.8 | 14.6# |
| 127 | 18.0 | 11.4 | 17.2# |




**Instrument :**
BNA_N
**ClientSampleId :**
TT174I1-20241218

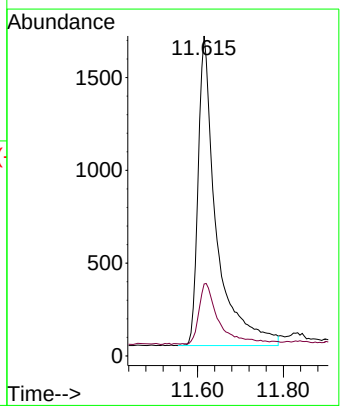
**Manual Integrations**
**APPROVED**
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

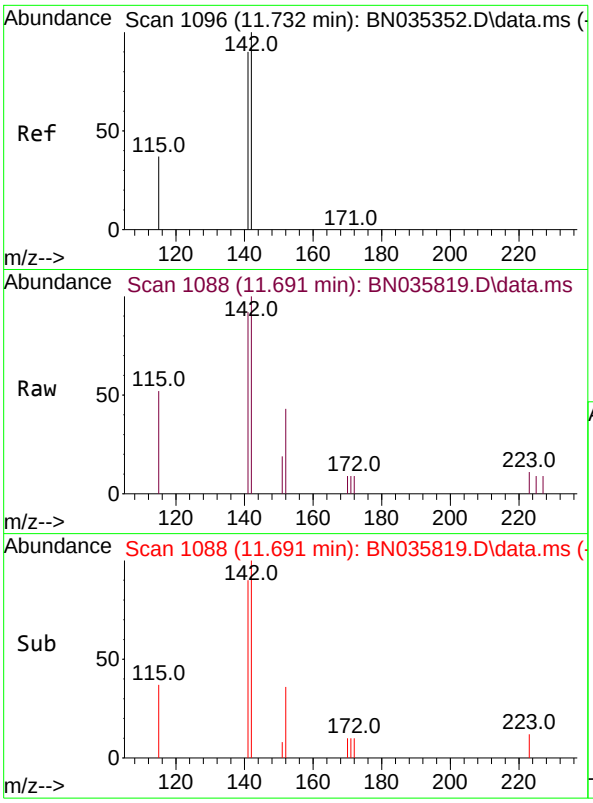



#11
2-Methylnaphthalene-d10
Concen: 0.369 ng
RT: 11.615 min Scan# 1073
Delta R.T. -0.005 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

Tgt Ion:152 Resp: 4896

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 21.1 | 16.6 | 25.0 |

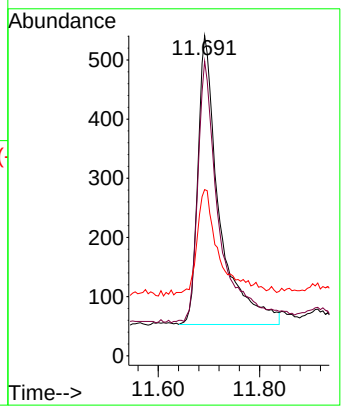





#12
2-Methylnaphthalene
Concen: 0.090 ng
RT: 11.691 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

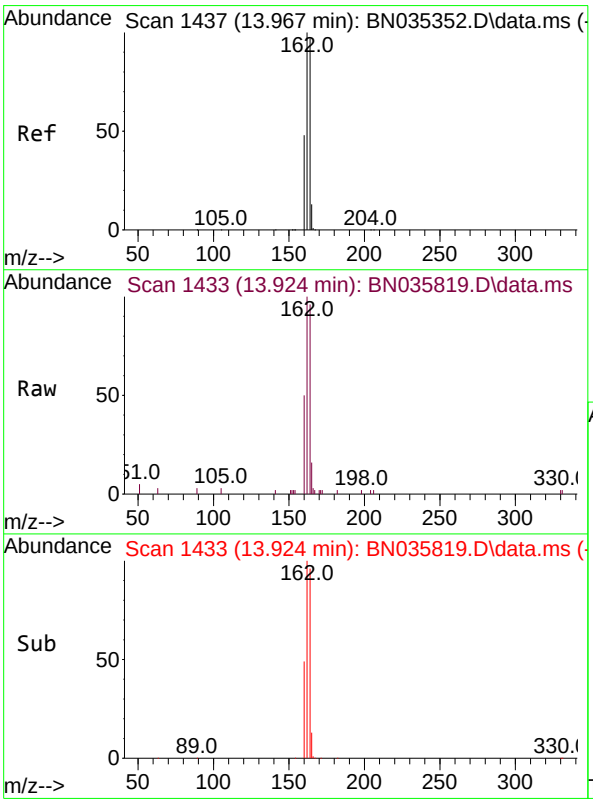
Tgt Ion:142 Resp: 143

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 92.1 | 72.2 | 108.4 |
| 115 | 51.9 | 31.4 | 47.0# |




**Instrument :**
BNA_N
**ClientSampleId :**
TT174I1-20241218

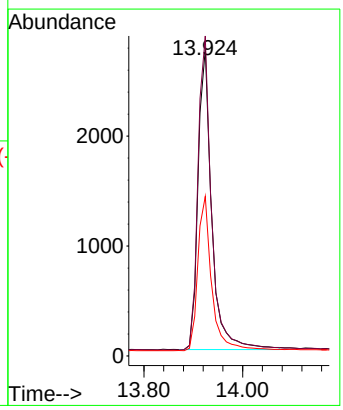
**Manual Integrations**
**APPROVED**
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

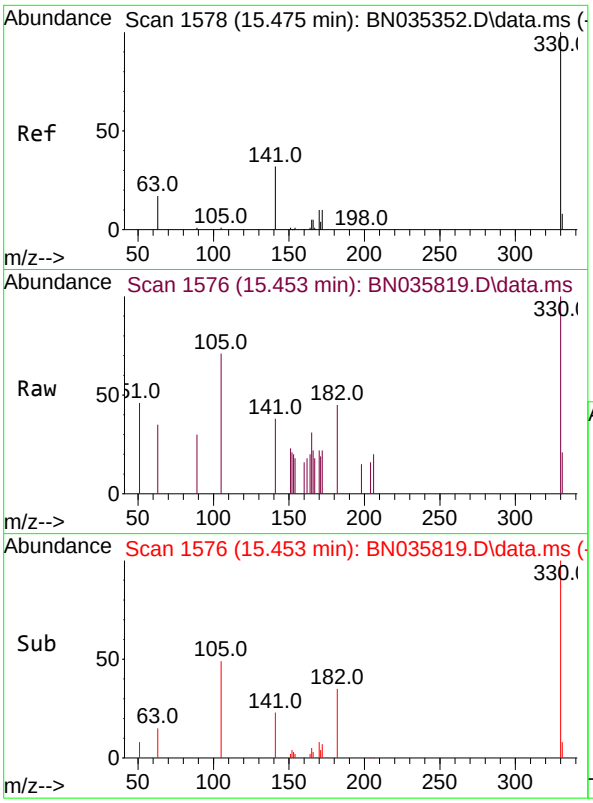



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.924 min Scan# 1433
Delta R.T. -0.011 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

Tgt Ion:164 Resp: 5265

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 104.3 | 82.2 | 123.2 |
| 160 | 52.0 | 40.1 | 60.1 |

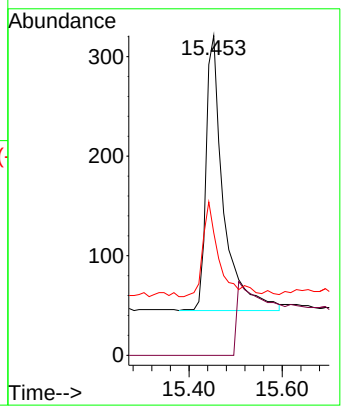





#14
2,4,6-Tribromophenol
Concen: 0.200 ng
RT: 15.453 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

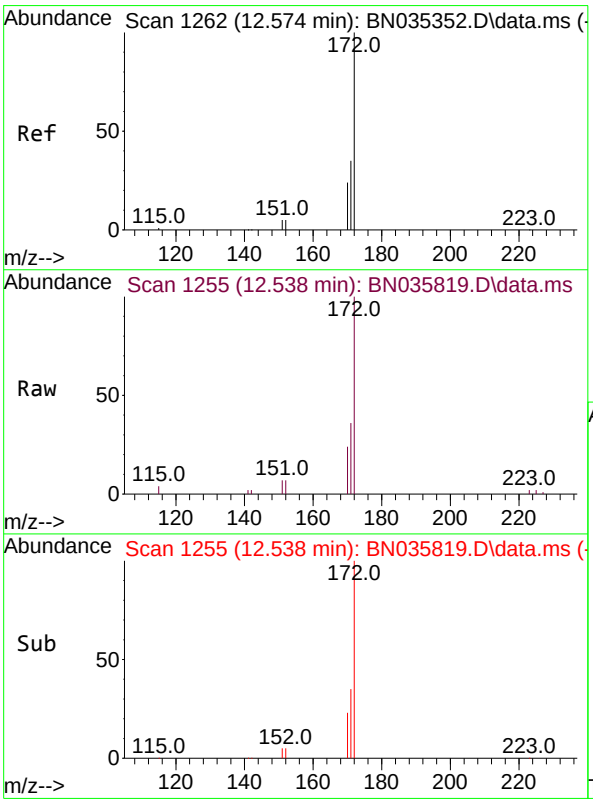
Tgt Ion:330 Resp: 74

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 0.0 | 0.0 | 0.0 |
| 141 | 32.3 | 26.6 | 40.0 |




**Instrument :**
BNA_N
**ClientSampleId :**
TT174I1-20241218

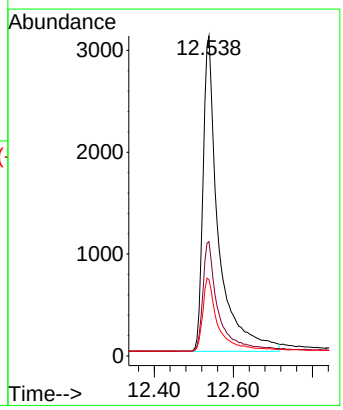
**Manual Integrations**
**APPROVED**
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

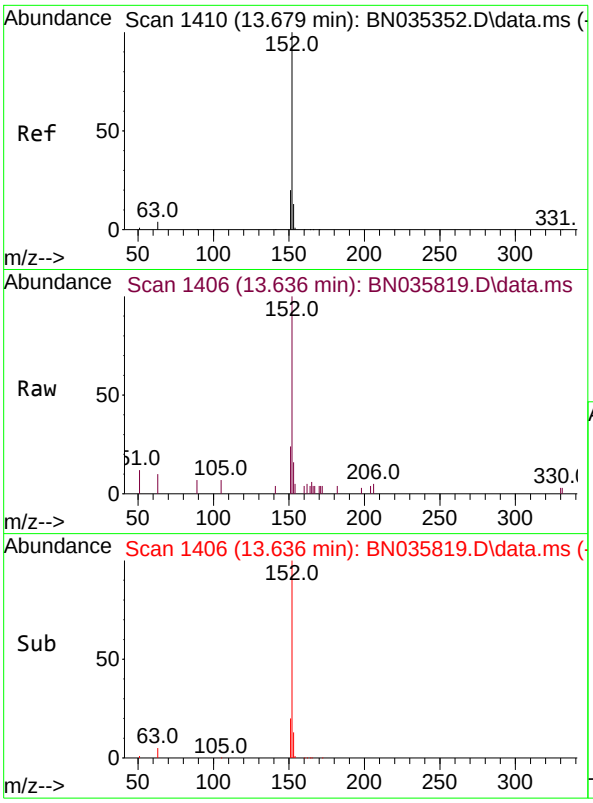



#15
2-Fluorobiphenyl
Concen: 0.422 ng
RT: 12.538 min Scan# 1255
Delta R.T. -0.005 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

Tgt Ion:172 Resp: 8403

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 35.7 | 29.0 | 43.4 |
| 170 | 23.8 | 19.8 | 29.8 |

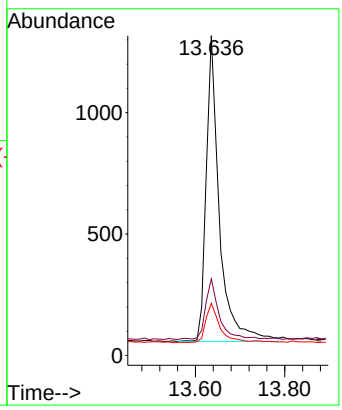





#16
Acenaphthylene
Concen: 0.116 ng
RT: 13.636 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

Tgt Ion:152 Resp: 257

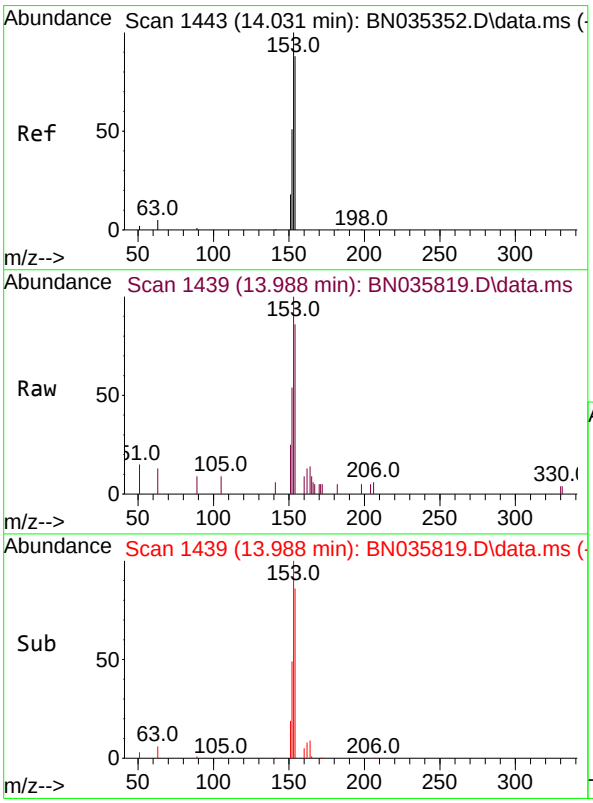
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.7 | 16.2 | 24.2 |
| 153 | 13.3 | 10.4 | 15.6 |




**Instrument :**
BNA_N
**ClientSampleId :**
TT174I1-20241218

**Manual Integrations**
**APPROVED**

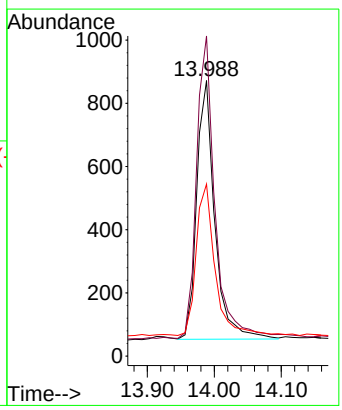
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

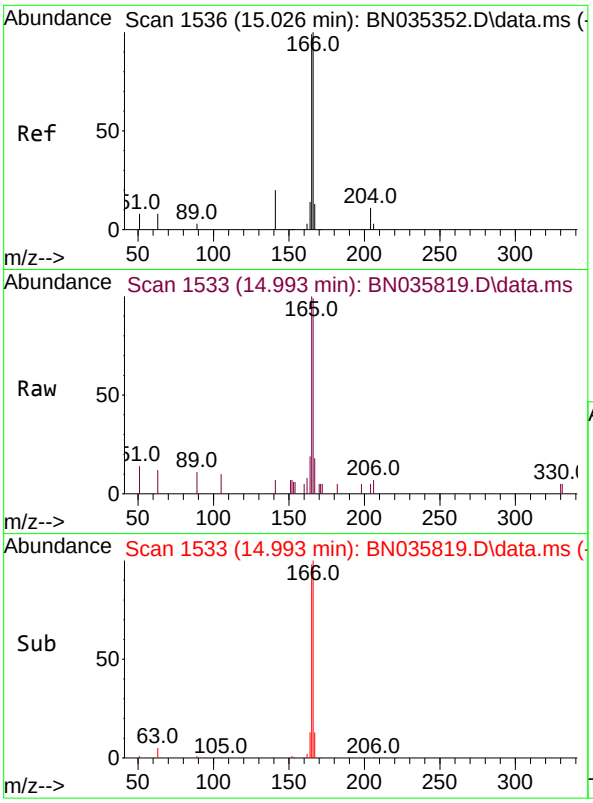



#17
Acenaphthene
Concen: 0.105 ng
RT: 13.988 min Scan# 1439
Delta R.T. -0.011 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

Tgt Ion:154 Resp: 1536

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 122.4 | 92.6 | 139.0 |
| 152 | 61.7 | 49.0 | 73.6 |

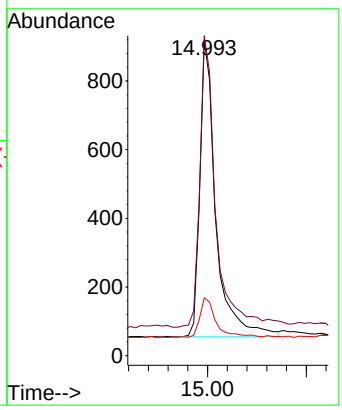





#18
Fluorene
Concen: 0.092 ng
RT: 14.993 min Scan# 1
Delta R.T. -0.011 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

Tgt Ion:166 Resp: 193

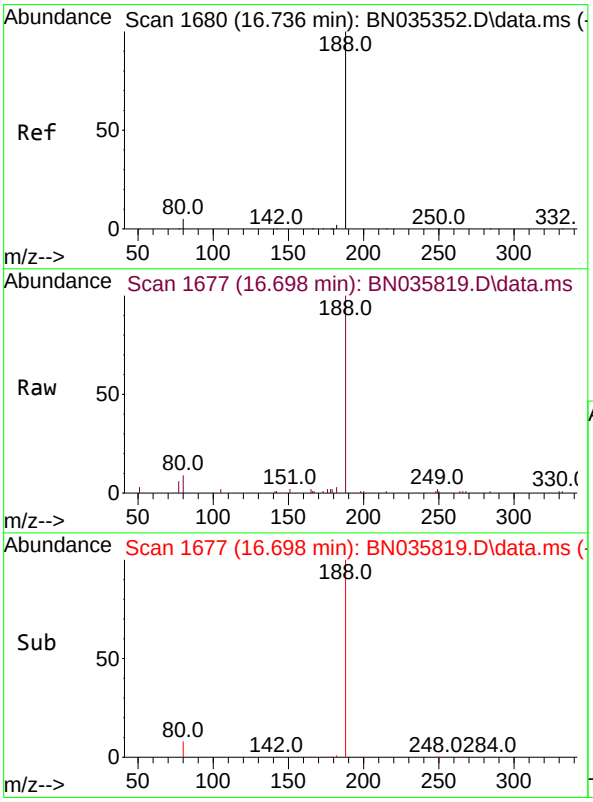
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 98.9 | 79.7 | 119.5 |
| 167 | 13.8 | 10.8 | 16.2 |




**Instrument :**
BNA_N
**ClientSampleId :**
TT174I1-20241218

**Manual Integrations**
**APPROVED**

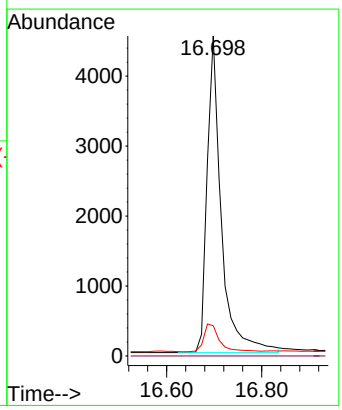
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

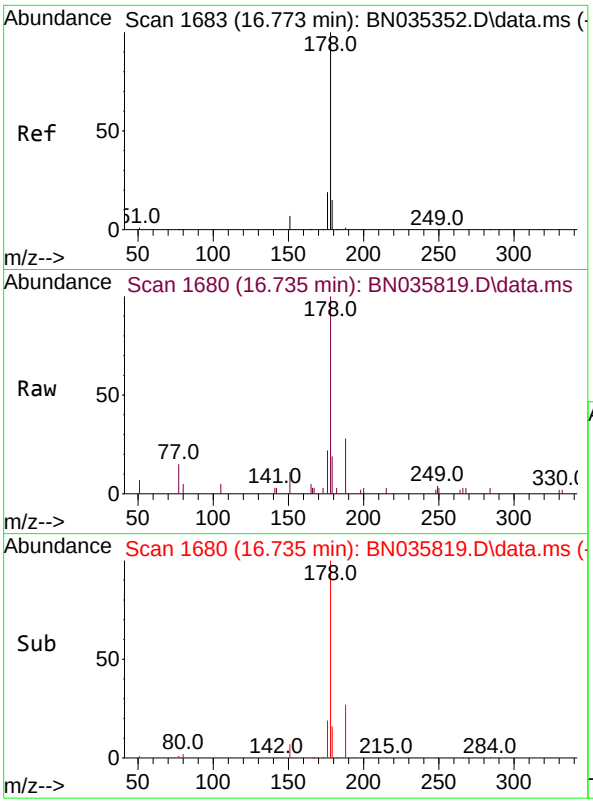



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1677
Delta R.T. -0.000 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

Tgt Ion:188 Resp: 9421

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 9.4 | 4.6 | 6.8# |

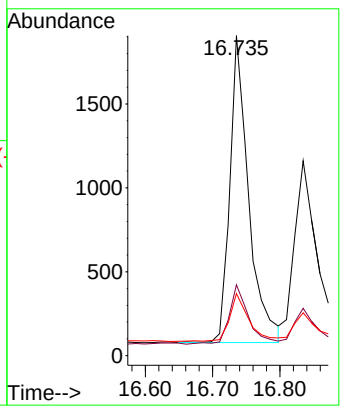





#25
Phenanthrene
Concen: 0.137 ng
RT: 16.735 min Scan# 1(
Delta R.T. -0.013 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

Tgt Ion:178 Resp: 355

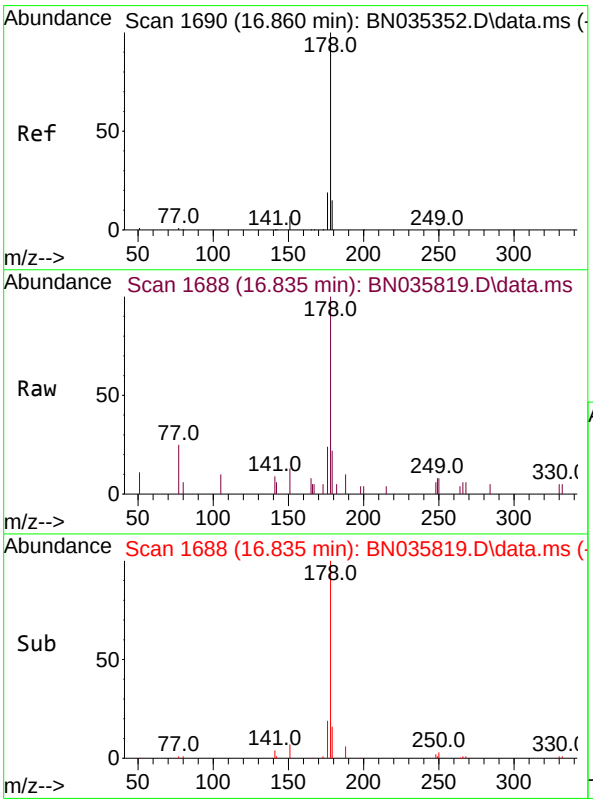
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.7 | 15.4 | 23.2 |
| 179 | 16.1 | 12.3 | 18.5 |




**Instrument :**
BNA_N
**ClientSampleId :**
TT174I1-20241218

**Manual Integrations**
**APPROVED**

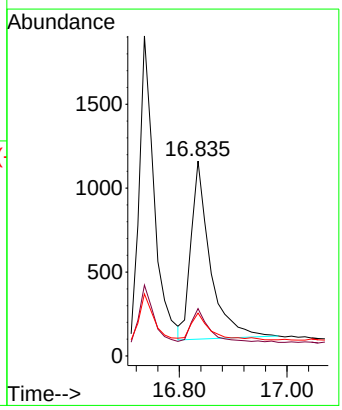
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

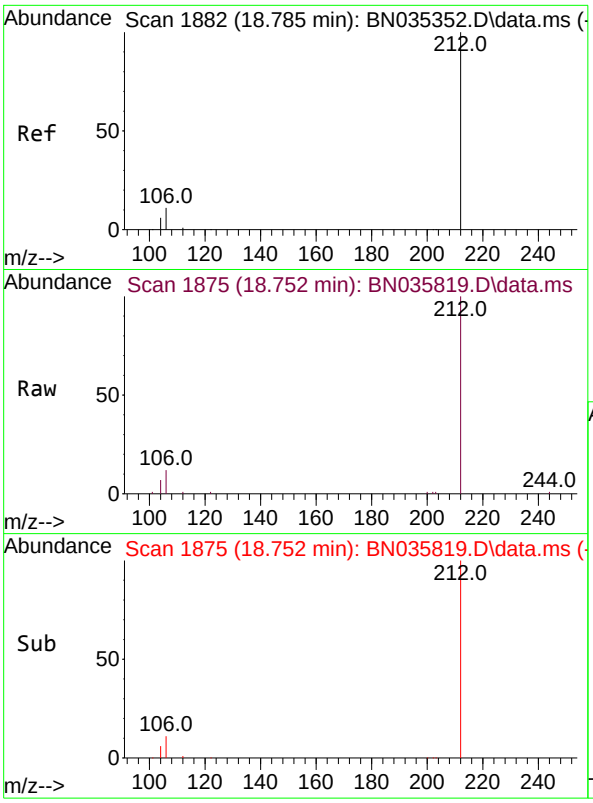



#26
Anthracene
Concen: 0.112 ng
RT: 16.835 min Scan# 1688
Delta R.T. -0.000 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

Tgt Ion:178 Resp: 2627

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.8 | 15.0 | 22.6 |
| 179 | 15.8 | 12.6 | 18.8 |

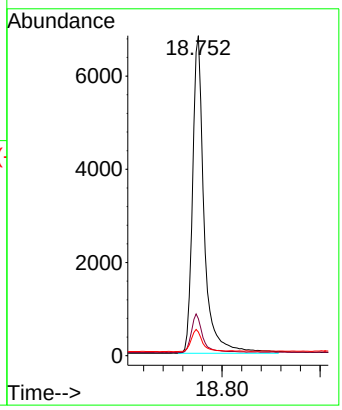





#27
Fluoranthene-d10
Concen: 0.420 ng
RT: 18.752 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

Tgt Ion:212 Resp: 1120

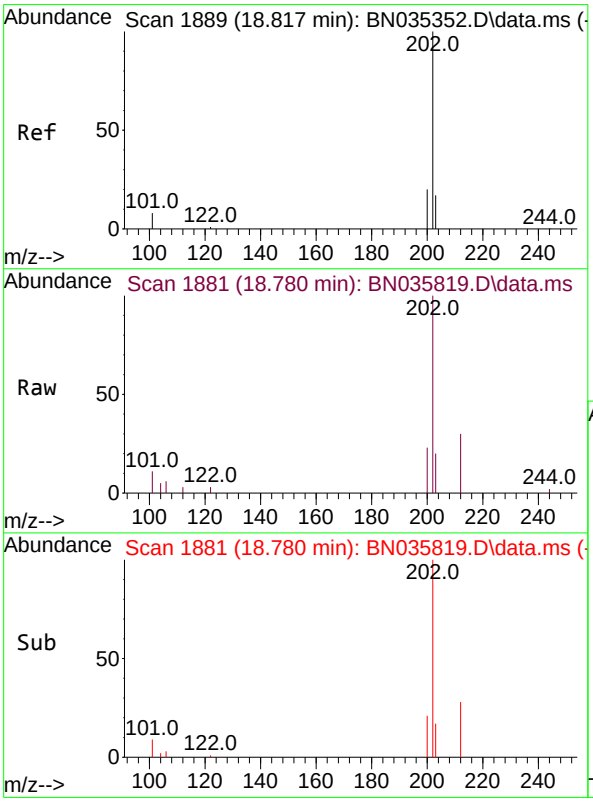
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 12.1 | 9.2 | 13.8 |
| 104 | 6.8 | 5.3 | 7.9 |




**Instrument :**
BNA_N
**ClientSampleId :**
TT174I1-20241218

**Manual Integrations**
**APPROVED**

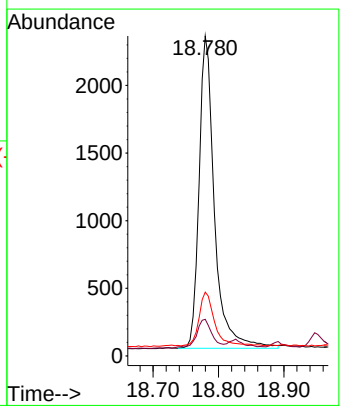
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

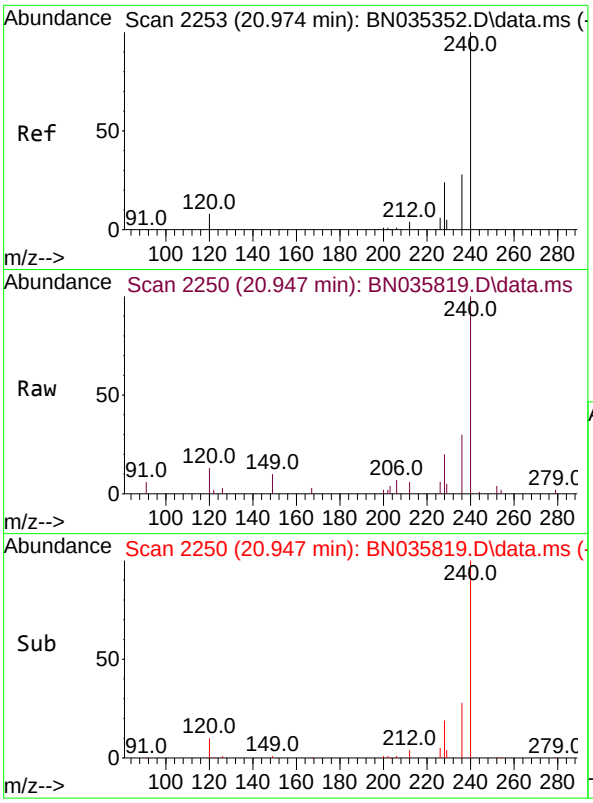



#28
Fluoranthene
Concen: 0.108 ng
RT: 18.780 min Scan# 1881
Delta R.T. -0.010 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

Tgt Ion:202 Resp: 3772

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 9.2 | 7.4 | 11.0 |
| 203 | 17.9 | 13.7 | 20.5 |

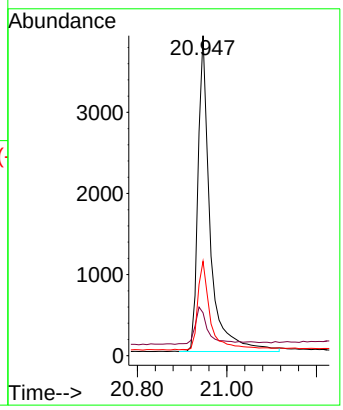





#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

Tgt Ion:240 Resp: 734

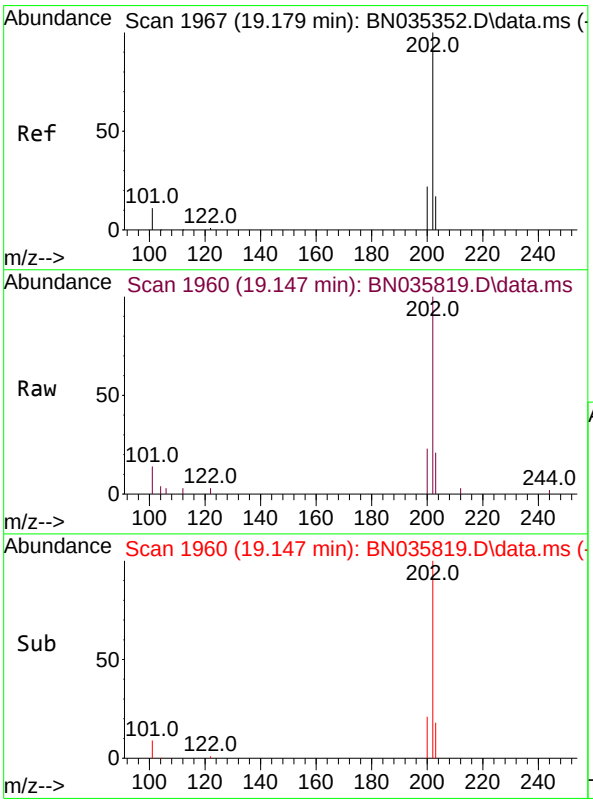
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 13.4 | 7.9 | 11.9 |
| 236 | 29.5 | 22.9 | 34.3 |




**Instrument :**
BNA_N
**ClientSampleId :**
TT174I1-20241218

**Manual Integrations**
**APPROVED**

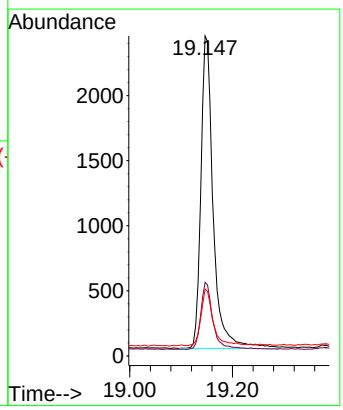
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

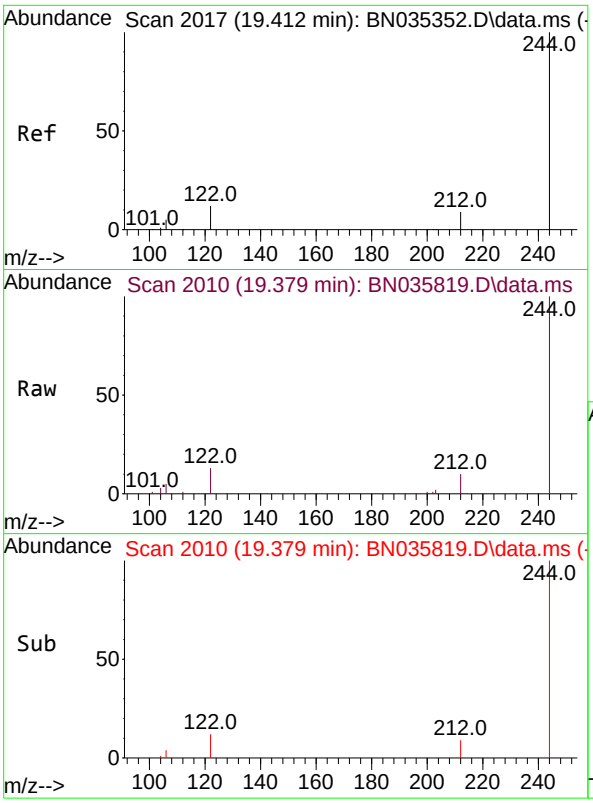



#30
Pyrene
Concen: 0.147 ng
RT: 19.147 min Scan# 1960
Delta R.T. -0.014 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

Tgt Ion:202 Resp: 3996

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 20.9 | 17.0 | 25.4 |
| 203 | 17.7 | 14.3 | 21.5 |

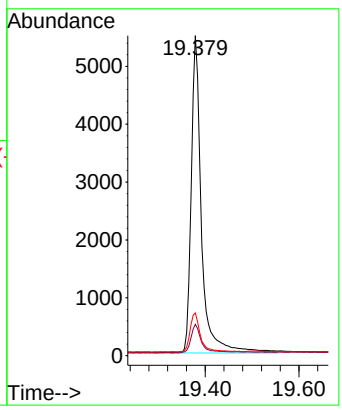





#31
Terphenyl-d14
Concen: 0.573 ng
RT: 19.379 min Scan# 2
Delta R.T. -0.010 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

Tgt Ion:244 Resp: 830

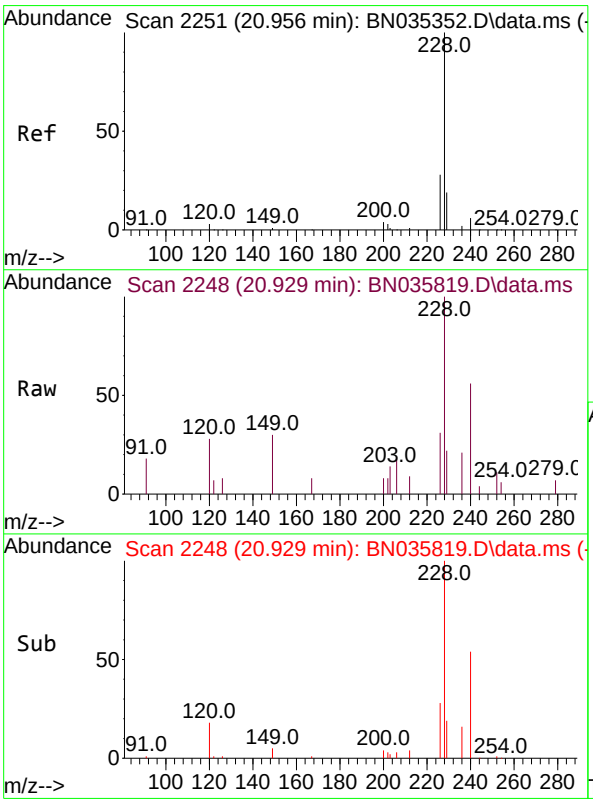
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 9.8 | 8.1 | 12.1 |
| 122 | 13.3 | 10.3 | 15.5 |




**Instrument :**
BNA_N
**ClientSampleId :**
TT174I1-20241218

**Manual Integrations**
**APPROVED**

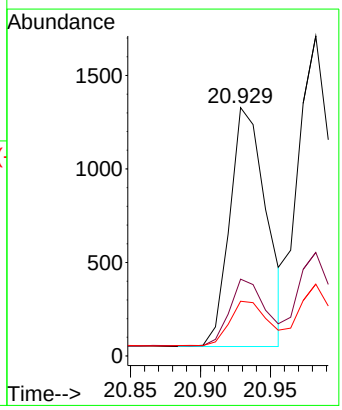
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

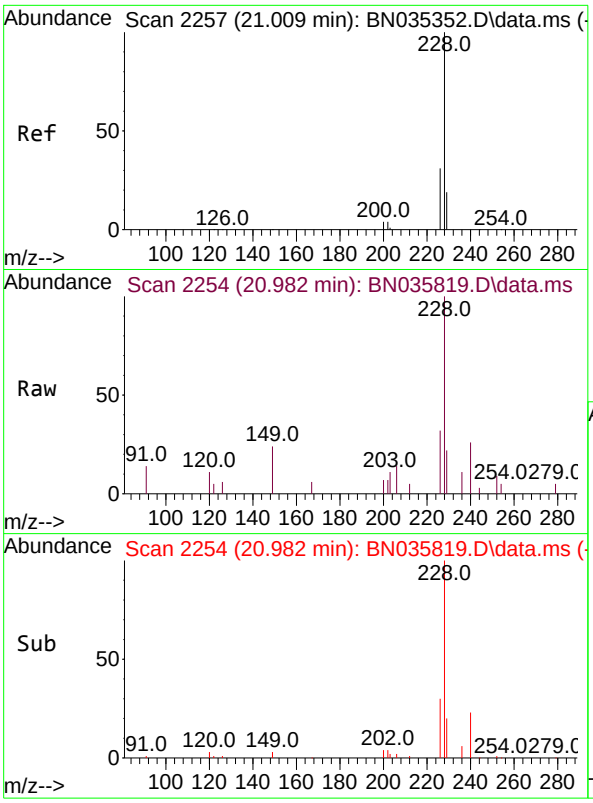



#32
Benzo(a)anthracene
Concen: 0.091 ng
RT: 20.929 min Scan# 2248
Delta R.T. -0.009 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

Tgt Ion:228 Resp: 2328

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 30.9 | 22.5 | 33.7 |
| 229 | 22.1 | 15.8 | 23.8 |

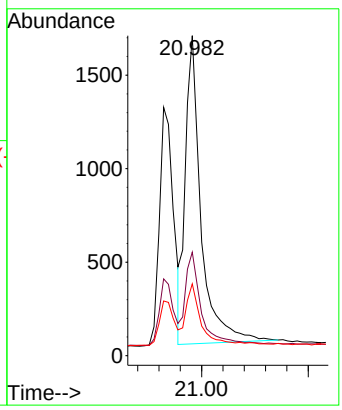





#33
Chrysene
Concen: 0.127 ng
RT: 20.982 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

Tgt Ion:228 Resp: 335

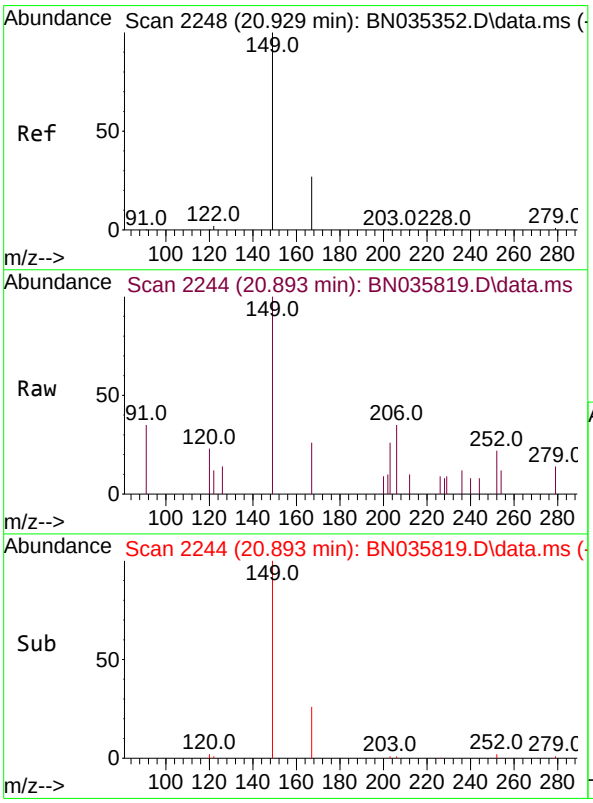
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 32.4 | 24.6 | 37.0 |
| 229 | 22.4 | 15.9 | 23.9 |




**Instrument :**
BNA_N
**ClientSampleId :**
TT174I1-20241218

**Manual Integrations**
**APPROVED**

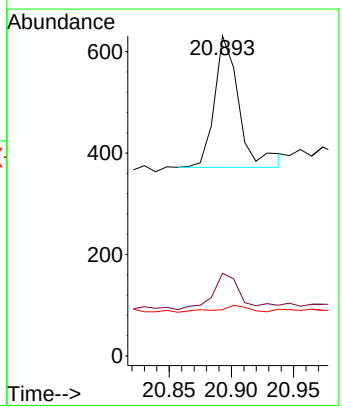
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

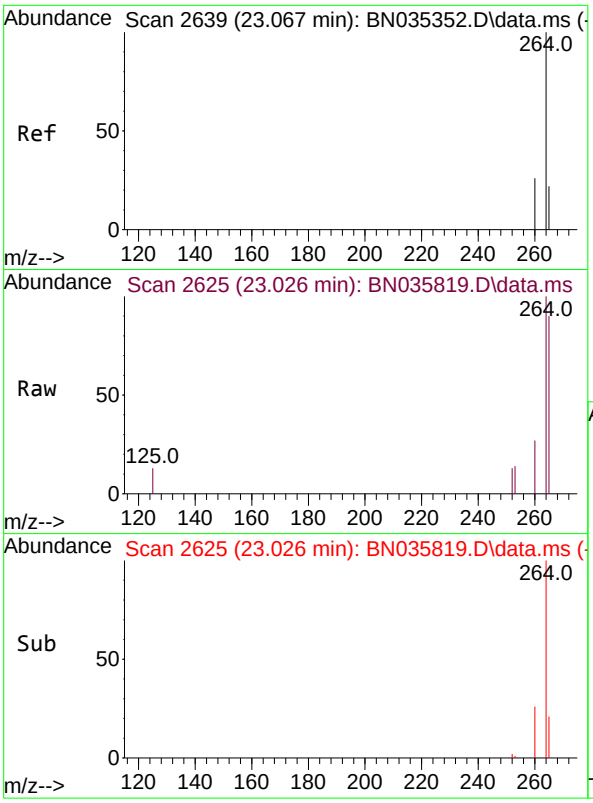



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.035 ng
RT: 20.893 min Scan# 2244
Delta R.T. -0.018 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

Tgt Ion:149 Resp: 357

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 29.4 | 22.2 | 33.4 |
| 279 | 6.7 | 2.7 | 4.1# |

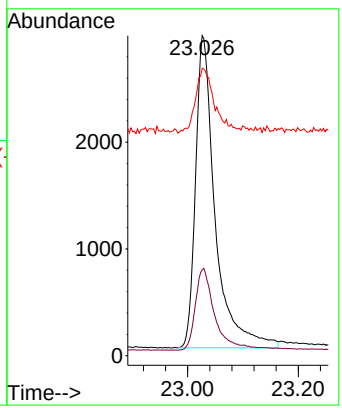





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.026 min Scan# 2
Delta R.T. -0.015 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

Tgt Ion:264 Resp: 721

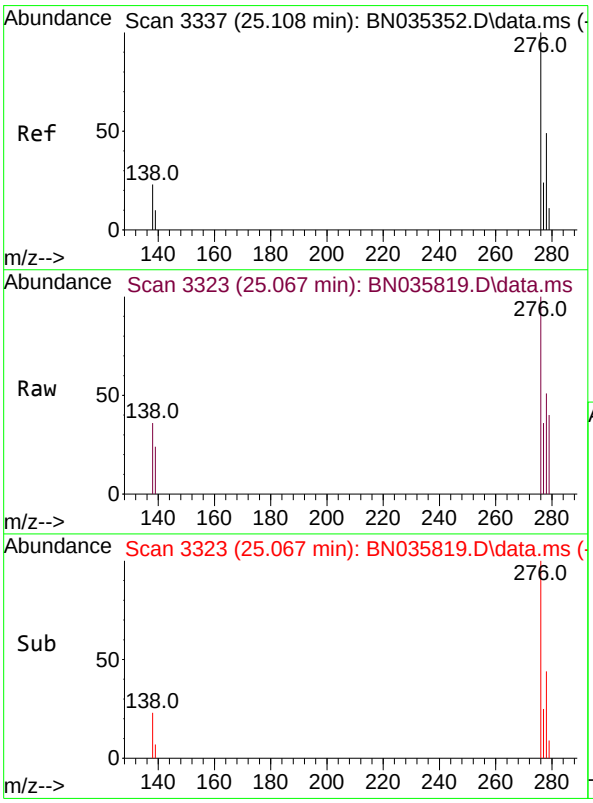
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 26.9 | 21.4 | 32.2 |
| 265 | 89.9 | 40.2 | 60.4# |




**Instrument :**
BNA_N
**ClientSampleId :**
TT174I1-20241218

**Manual Integrations**
**APPROVED**

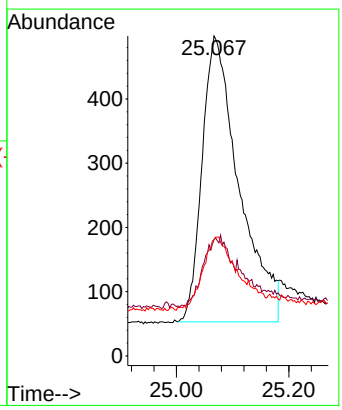
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

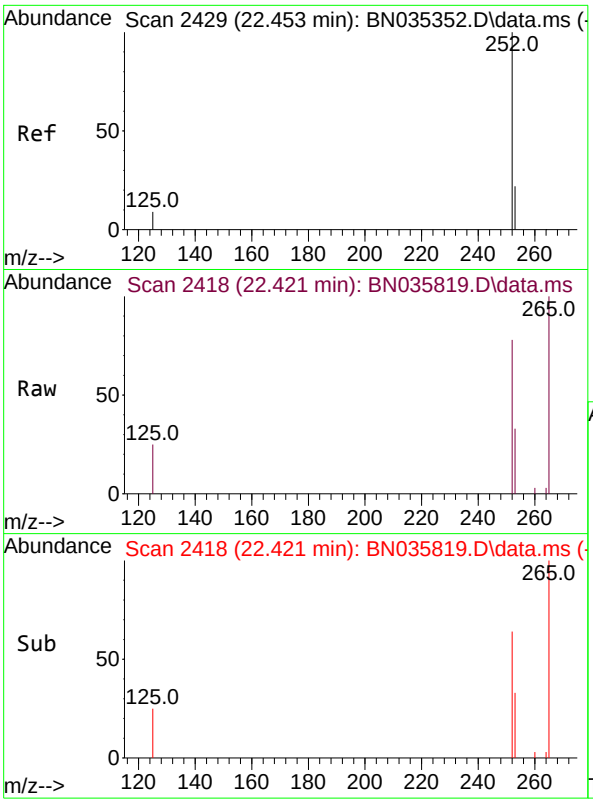



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.072 ng
RT: 25.067 min Scan# 3323
Delta R.T. -0.000 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

Tgt Ion:276 Resp: 2032

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 10.6 | 19.4 | 29.0# |
| 277 | 24.9 | 19.8 | 29.6 |

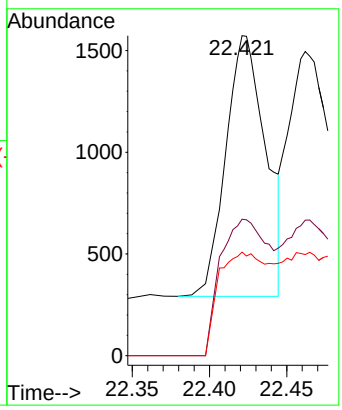





#37
Benzo(b)fluoranthene
Concen: 0.114 ng
RT: 22.421 min Scan# 24
Delta R.T. -0.009 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

Tgt Ion:252 Resp: 301

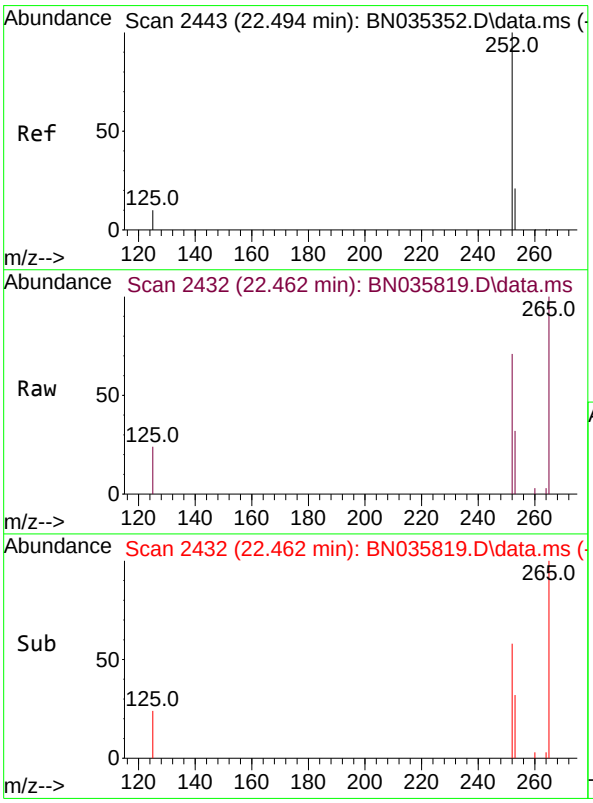
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 42.7 | 19.6 | 29.4# |
| 125 | 32.4 | 9.6 | 14.4# |




**Instrument :**
BNA_N
**ClientSampleId :**
TT174l1-20241218

**Manual Integrations**
**APPROVED**

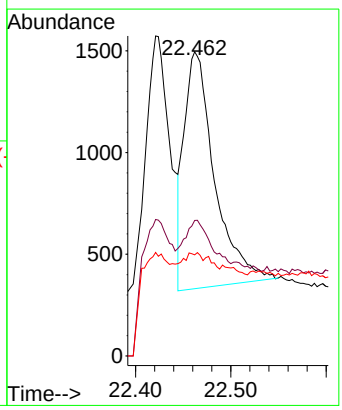
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

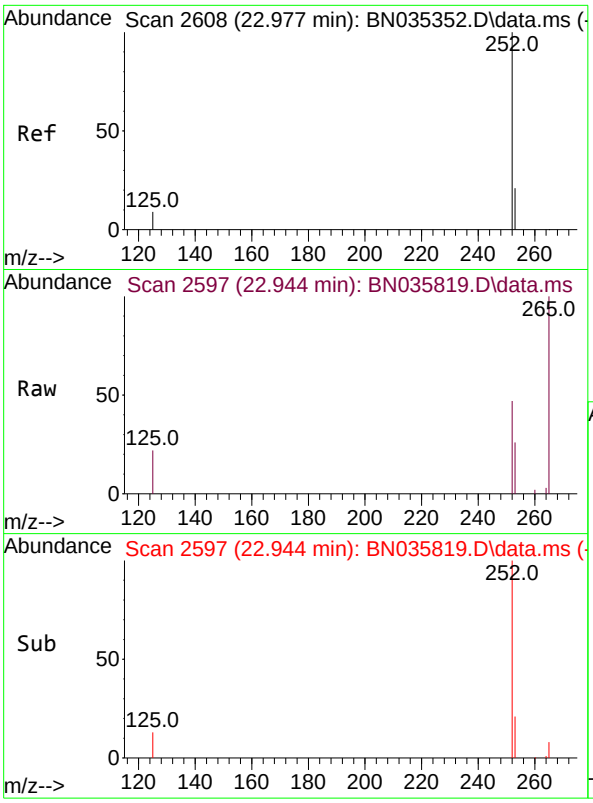



#38
Benzo(k)fluoranthene
Concen: 0.100 ng
RT: 22.462 min Scan# 2432
Delta R.T. -0.009 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

Tgt Ion:252 Resp: 2589

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 44.5 | 19.5 | 29.3# |
| 125 | 33.2 | 10.2 | 15.4# |

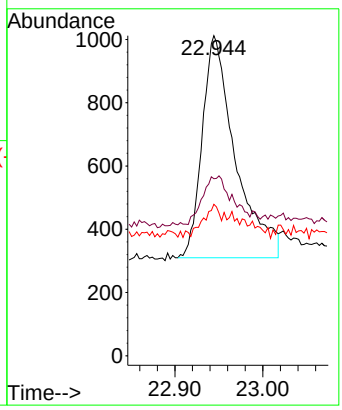





#39
Benzo(a)pyrene
Concen: 0.085 ng
RT: 22.944 min Scan# 2
Delta R.T. -0.006 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

Tgt Ion:252 Resp: 184

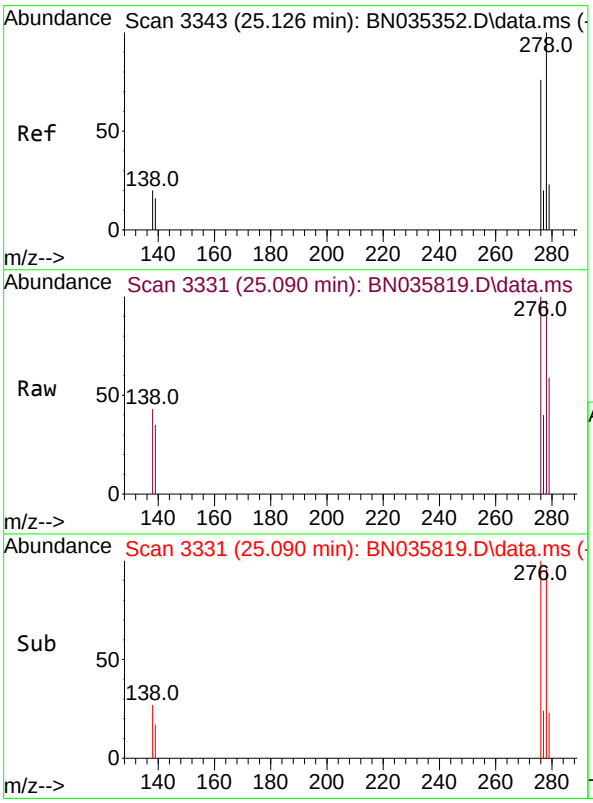
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 55.3 | 20.2 | 30.4# |
| 125 | 47.3 | 10.9 | 16.3# |




**Instrument :**
BNA_N
**ClientSampleId :**
TT174I1-20241218

**Manual Integrations**
**APPROVED**

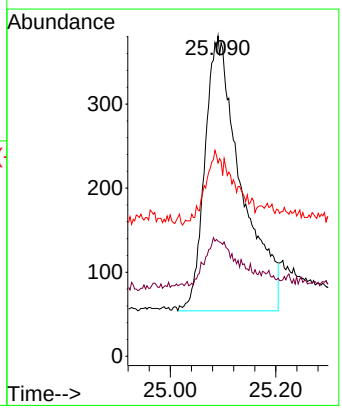
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

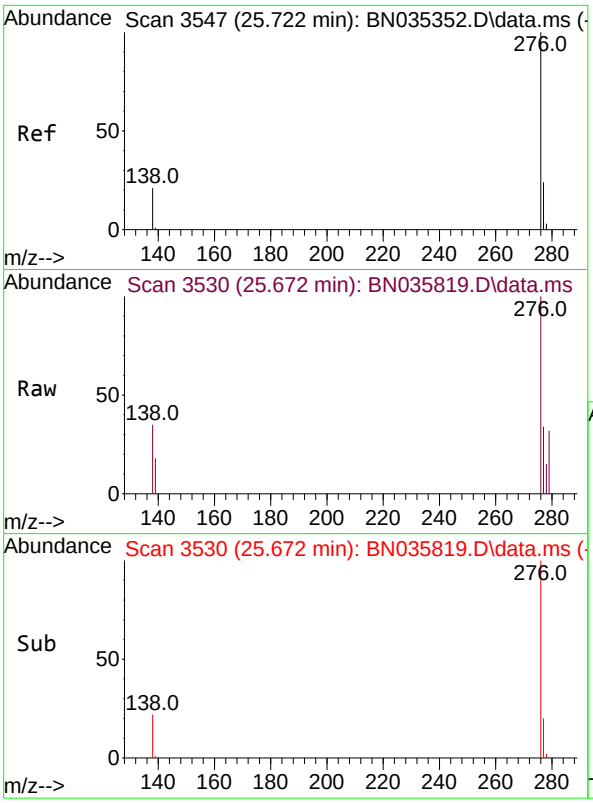



#40
Dibenzo(a,h)anthracene
Concen: 0.070 ng
RT: 25.090 min Scan# 3331
Delta R.T. 0.008 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

Tgt Ion:278 Resp: 1565

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 36.0 | 14.2 | 21.4# |
| 279 | 60.4 | 20.5 | 30.7# |

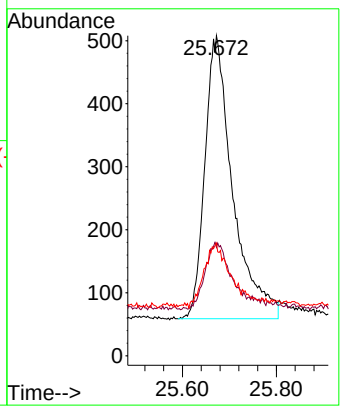





#41
Benzo(g,h,i)perylene
Concen: 0.080 ng
RT: 25.672 min Scan# 3
Delta R.T. -0.006 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

Tgt Ion:276 Resp: 185

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 33.9 | 19.9 | 29.9# |
| 138 | 35.2 | 17.8 | 26.8# |




**Instrument :**
BNA_N
**ClientSampleId :**
TT174I1-20241218

**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | AECOM Technical Services, Inc. | Date Collected: | 12/18/24 |
| Project: | NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258 | Date Received: | 12/20/24 |
| Client Sample ID: | RW10-MW01S-20241218 | SDG No.: | P5376 |
| Lab Sample ID: | P5376-07 | Matrix: | Water |
| Analytical Method: | SW8270ESIM | % Solid: | 0 |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-SIMGroup1 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BN035820.D | 1 | 12/23/24 13:29 | 12/24/24 14:19 | PB165828 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 123-91-1 | 1,4-Dioxane | 0.10 | JM | 0.070 | 0.20 | 0.20 | ug/L |
| **SURROGATES** | | | | | | | |
| 7297-45-2 | 2-Methylnaphthalene-d10 | 0.38 | | 30 - 150 | | 94% | SPK: 0.4 |
| 93951-69-0 | Fluoranthene-d10 | 0.40 | | 30 - 150 | | 100% | SPK: 0.4 |
| 4165-60-0 | Nitrobenzene-d5 | 0.43 | | 55 - 111 | | 107% | SPK: 0.4 |
| 321-60-8 | 2-Fluorobiphenyl | 0.40 | | 53 - 106 | | 101% | SPK: 0.4 |
| 1718-51-0 | Terphenyl-d14 | 0.55 | * | 58 - 132 | | 137% | SPK: 0.4 |
| **INTERNAL STANDARDS** | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 3140 | 7.264 | | | | |
| 1146-65-2 | Naphthalene-d8 | 7180 | 10.009 | | | | |
| 15067-26-2 | Acenaphthene-d10 | 4460 | 13.924 | | | | |
| 1517-22-2 | Phenanthrene-d10 | 8920 | 16.698 | | | | |
| 1719-03-5 | Chrysene-d12 | 7050 | 20.947 | | | | |
| 1520-96-3 | Perylene-d12 | 6960 | 23.029 | | | | |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035820.D
Acq On : 24 Dec 2024 14:19
Operator : RC/JU
Sample : P5376-07
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 24 23:18:34 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01S-20241218

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.264 | 152 | 3143 | 0.400 | ng | 0.00 |
| 7) Naphthalene-d8 | 10.009 | 136 | 7176 | 0.400 | ng | -0.01 |
| 13) Acenaphthene-d10 | 13.924 | 164 | 4458 | 0.400 | ng | -0.01 |
| 19) Phenanthrene-d10 | 16.698 | 188 | 8922 | 0.400 | ng | # 0.00 |
| 29) Chrysene-d12 | 20.947 | 240 | 7054 | 0.400 | ng | # 0.00 |
| 35) Perylene-d12 | 23.029 | 264 | 6962 | 0.400 | ng | #-0.01 |
| **System Monitoring Compounds** | | | | | | |
| 4) 2-Fluorophenol | 4.931 | 112 | 917 | 0.117 | ng | 0.00 |
| 5) Phenol-d6 | 6.484 | 99 | 441 | 0.047 | ng | 0.00 |
| 8) Nitrobenzene-d5 | 8.408 | 82 | 1881m | 0.429 | ng | 0.00 |
| 11) 2-Methylnaphthalene-d10 | 11.615 | 152 | 4238 | 0.377 | ng | 0.00 |
| 14) 2,4,6-Tribromophenol | 15.453 | 330 | 621 | 0.196 | ng | 0.00 |
| 15) 2-Fluorobiphenyl | 12.538 | 172 | 6805 | 0.404 | ng | 0.00 |
| 27) Fluoranthene-d10 | 18.752 | 212 | 10147 | 0.401 | ng | 0.00 |
| 31) Terphenyl-d14 | 19.379 | 244 | 7626 | 0.548 | ng | 0.00 |
| **Target Compounds** | | | | | | Qvalue |
| 2) 1,4-Dioxane | 2.981 | 88 | 288 | 0.096 | ng | # 82 |
| 9) Naphthalene | 10.062 | 128 | 1741 | 0.092 | ng | # 85 |
| 12) 2-Methylnaphthalene | 11.692 | 142 | 1119 | 0.083 | ng | # 90 |
| 16) Acenaphthylene | 13.636 | 152 | 1929 | 0.103 | ng | 99 |
| 17) Acenaphthene | 13.988 | 154 | 1200 | 0.097 | ng | 99 |
| 18) Fluorene | 15.004 | 166 | 1564 | 0.088 | ng | 100 |
| 25) Phenanthrene | 16.735 | 178 | 2911 | 0.119 | ng | 98 |
| 26) Anthracene | 16.835 | 178 | 2107 | 0.095 | ng | 97 |
| 28) Fluoranthene | 18.780 | 202 | 3244 | 0.098 | ng | 100 |
| 30) Pyrene | 19.151 | 202 | 3281 | 0.126 | ng | 99 |
| 32) Benzo(a)anthracene | 20.938 | 228 | 2057 | 0.083 | ng | 94 |
| 33) Chrysene | 20.982 | 228 | 2719 | 0.107 | ng | 95 |
| 34) Bis(2-ethylhexyl)phtha... | 20.902 | 149 | 426 | 0.044 | ng | # 88 |
| 36) Indeno(1,2,3-cd)pyrene | 25.076 | 276 | 1756 | 0.065 | ng | # 79 |
| 37) Benzo(b)fluoranthene | 22.427 | 252 | 2679 | 0.105 | ng | # 52 |
| 38) Benzo(k)fluoranthene | 22.465 | 252 | 2525m | 0.101 | ng | |
| 39) Benzo(a)pyrene | 22.947 | 252 | 1551 | 0.074 | ng | # 24 |
| 40) Dibenzo(a,h)anthracene | 25.093 | 278 | 1312 | 0.061 | ng | # 29 |
| 41) Benzo(g,h,i)perylene | 25.675 | 276 | 1511 | 0.067 | ng | # 72 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

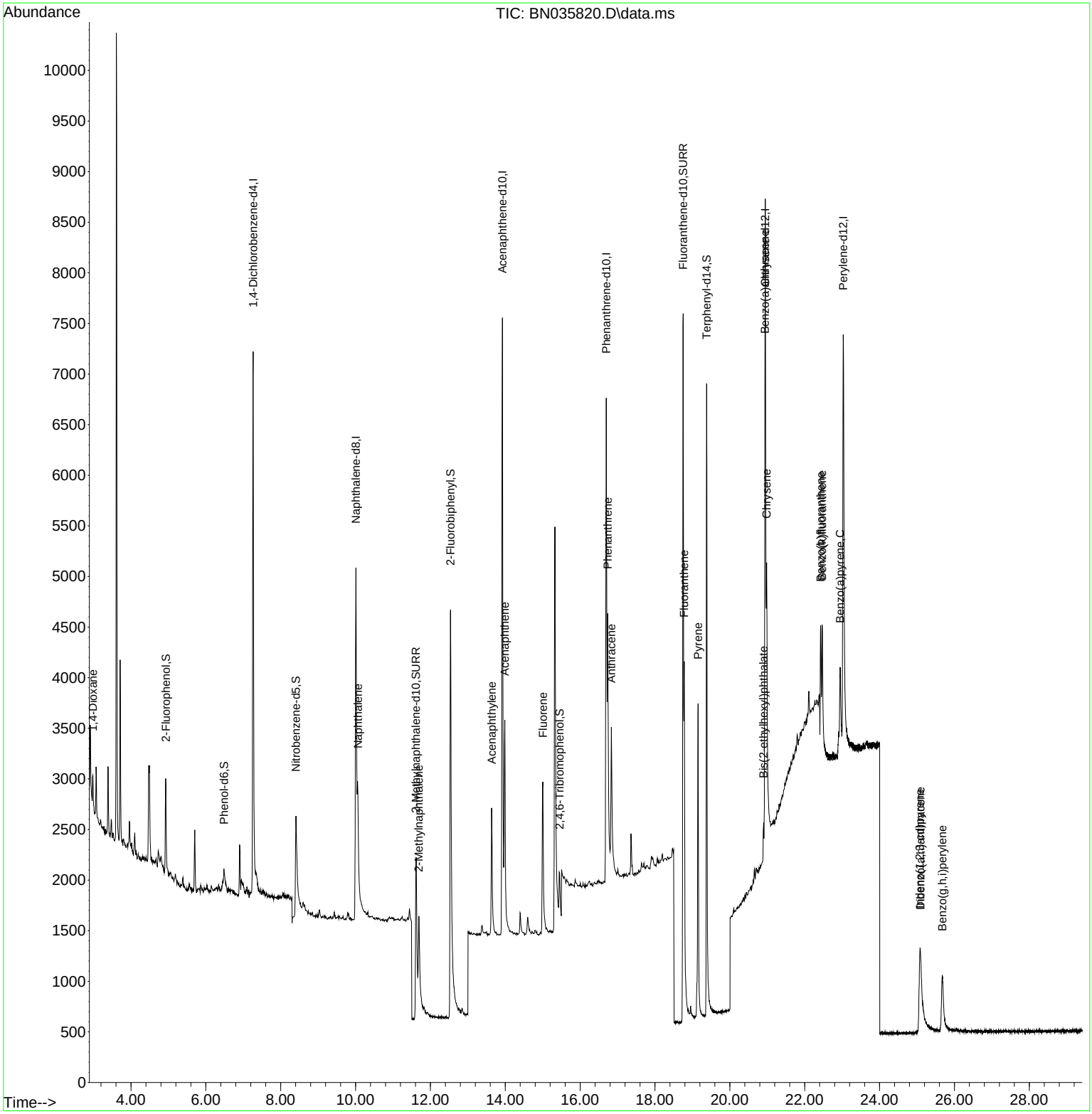
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035820.D
Acq On : 24 Dec 2024 14:19
Operator : RC/JU
Sample : P5376-07
Misc :
ALS Vial : 11 Sample Multiplier: 1

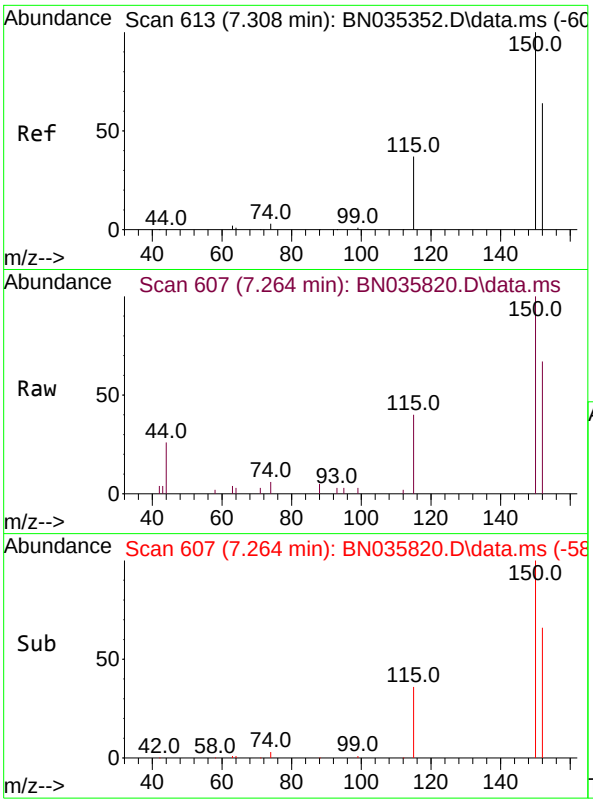
Quant Time: Dec 24 23:18:34 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01S-20241218

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

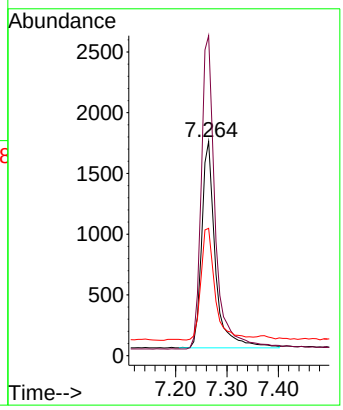





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.264 min Scan# 6
Delta R.T. -0.008 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

Tgt Ion:152 Resp: 314

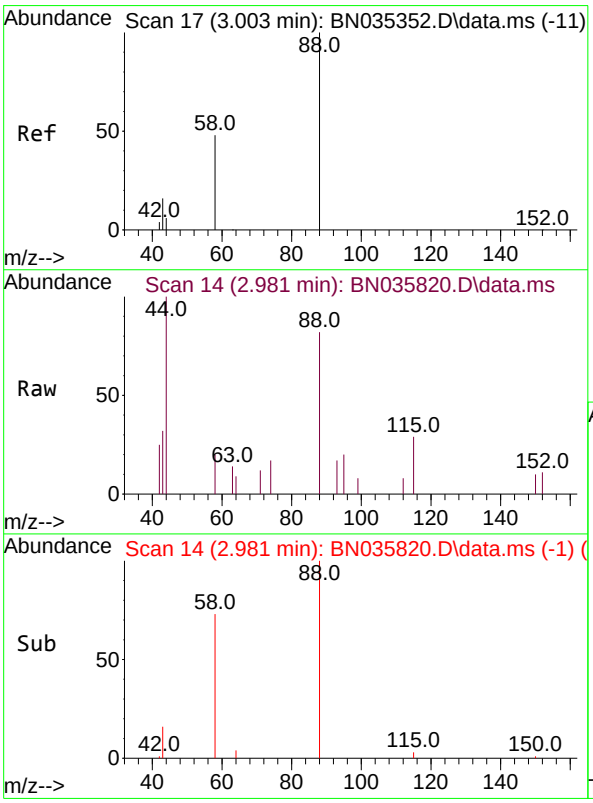
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 149.4 | 124.0 | 186.0 |
| 115 | 59.5 | 49.6 | 74.4 |




**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01S-20241218

**Manual Integrations**
**APPROVED**

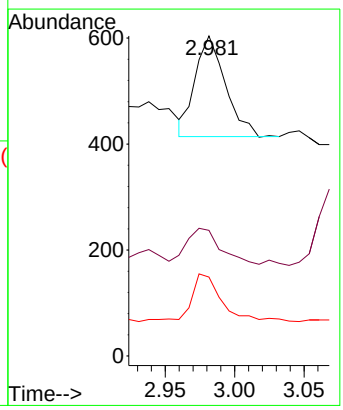
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

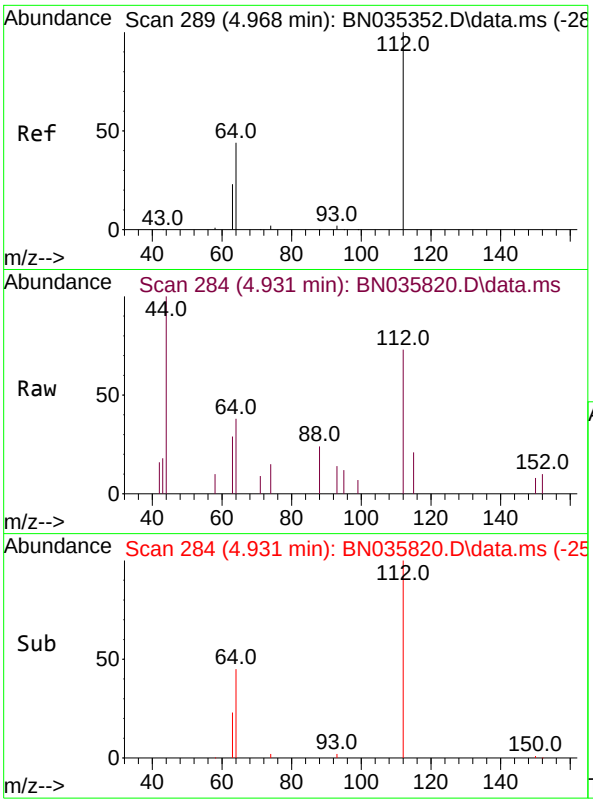



#2
1,4-Dioxane
Concen: 0.096 ng
RT: 2.981 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

Tgt Ion: 88 Resp: 288

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 39.6 | 17.2 | 25.8# |
| 58 | 48.3 | 44.5 | 66.7 |






#4
2-Fluorophenol
Concen: 0.117 ng
RT: 4.931 min Scan# 2
Delta R.T. -0.007 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

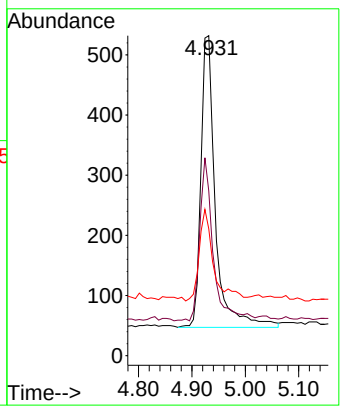
Tgt Ion:112 Resp: 91

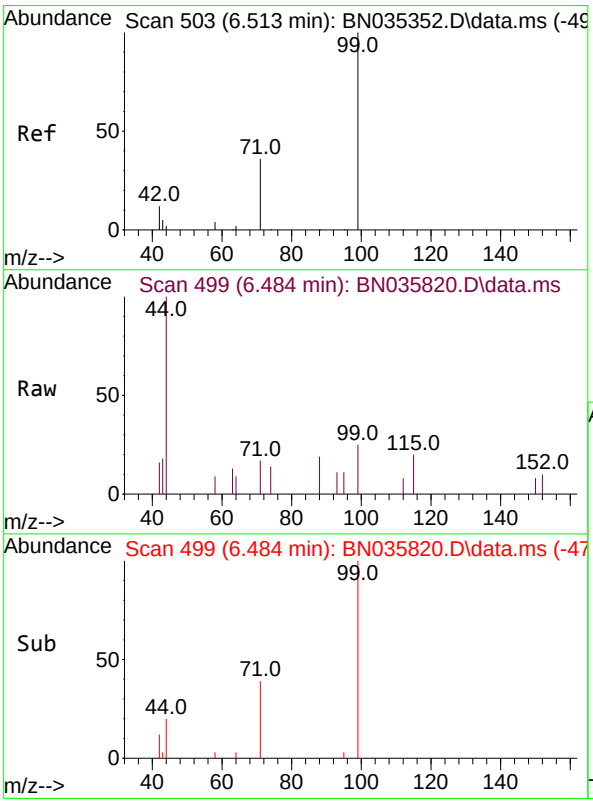
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 52.0 | 39.8 | 59.8 |
| 63 | 31.2 | 21.0 | 31.6 |

**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01S-20241218

**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

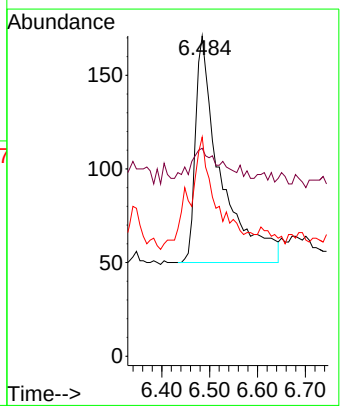


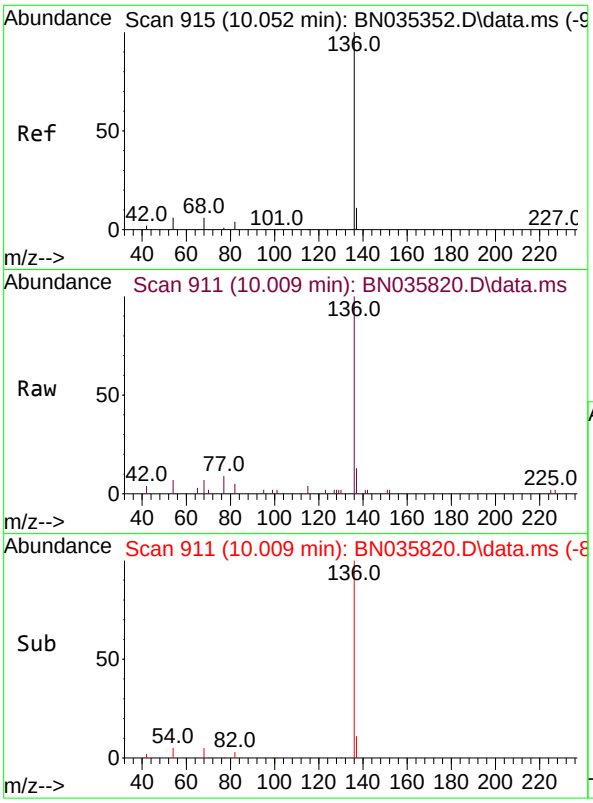




#5
Phenol-d6
Concen: 0.047 ng
RT: 6.484 min Scan# 499
Delta R.T. -0.007 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

Tgt Ion: 99 Resp: 441

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 13.8 | 11.4 | 17.2 |
| 71 | 54.9 | 29.3 | 43.9# |

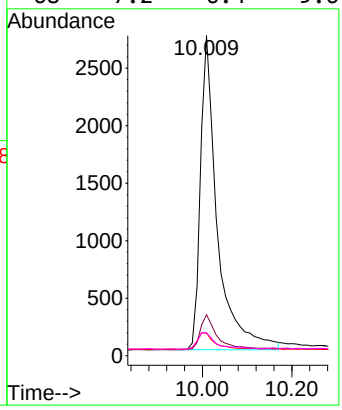





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

Tgt Ion:136 Resp: 717

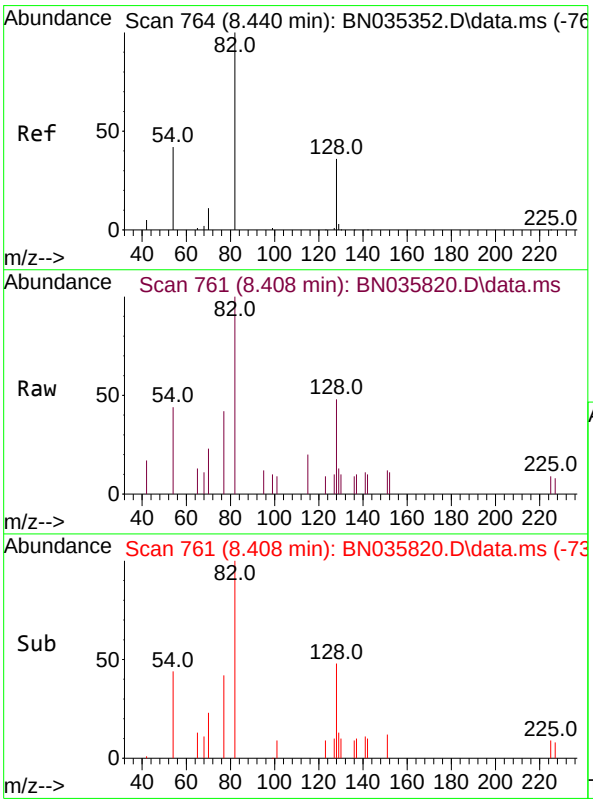
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 12.8 | 10.2 | 15.2 |
| 54 | 7.1 | 6.1 | 9.1 |
| 68 | 7.2 | 6.4 | 9.6 |




**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01S-20241218

**Manual Integrations**
**APPROVED**

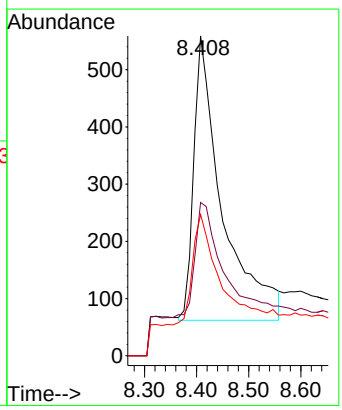
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

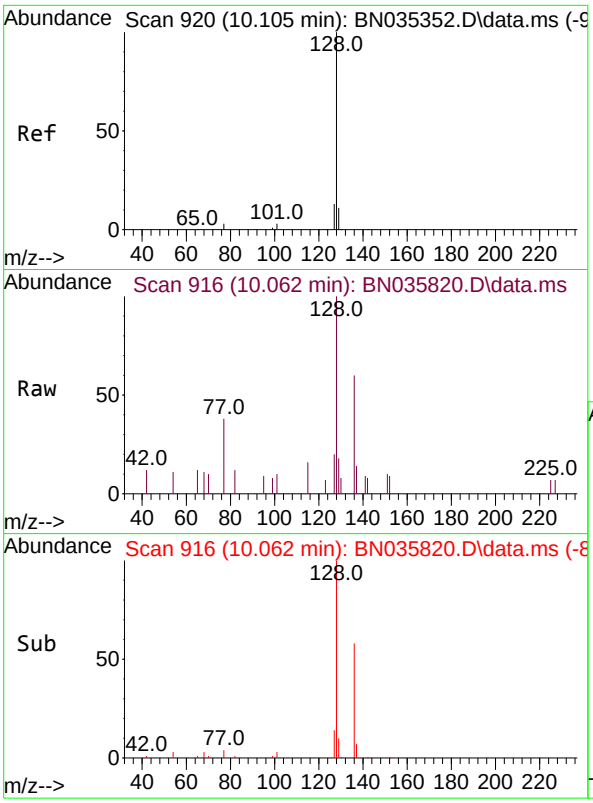



#8
Nitrobenzene-d5
Concen: 0.429 ng m
RT: 8.408 min Scan# 761
Delta R.T. -0.000 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

Tgt Ion: 82 Resp: 1881

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 47.9 | 33.4 | 50.0 |
| 54 | 44.2 | 36.7 | 55.1 |

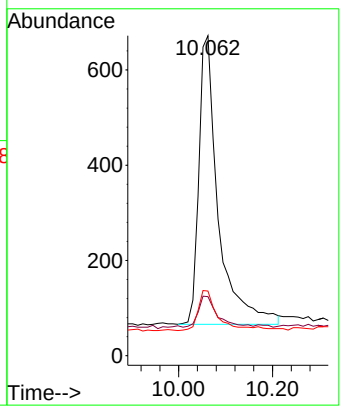





#9
Naphthalene
Concen: 0.092 ng
RT: 10.062 min Scan# 9
Delta R.T. -0.000 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

Tgt Ion:128 Resp: 174

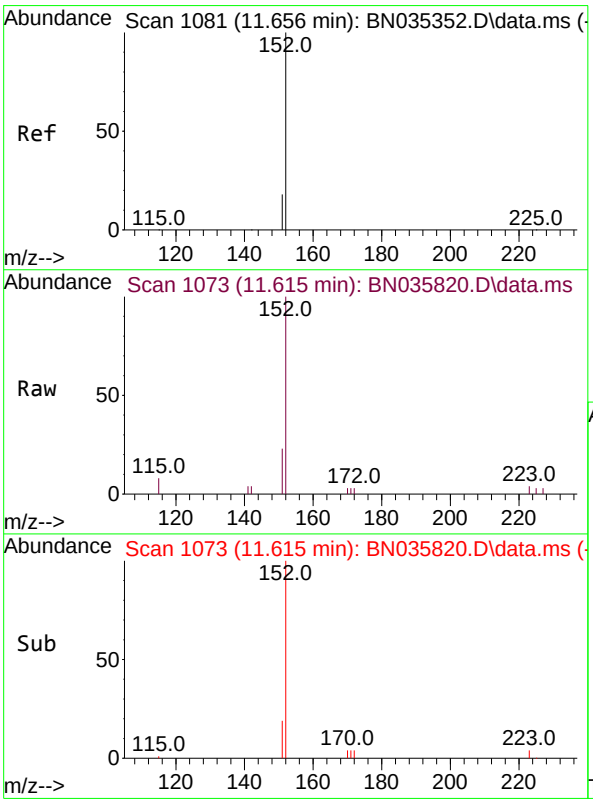
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 18.5 | 9.8 | 14.6# |
| 127 | 20.2 | 11.4 | 17.2# |




**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01S-20241218

**Manual Integrations**
**APPROVED**

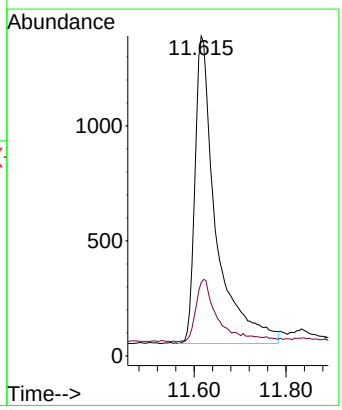
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

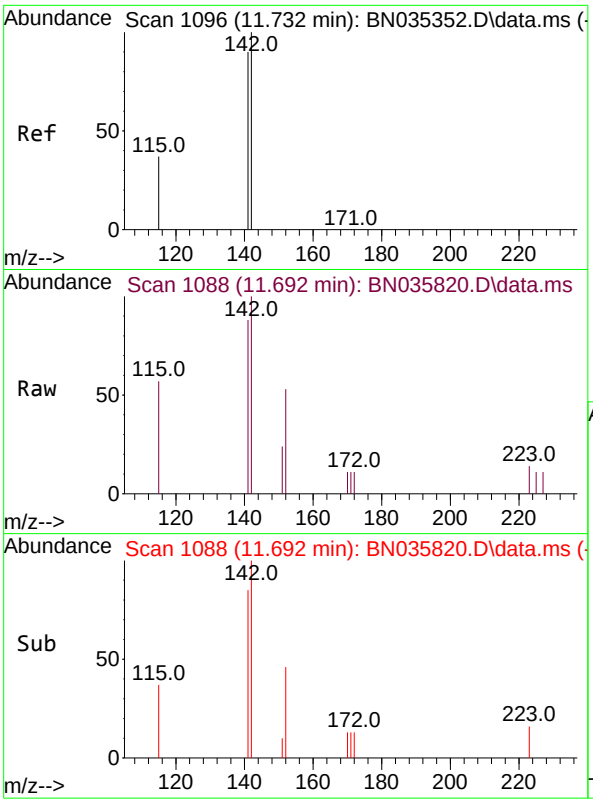



#11
2-Methylnaphthalene-d10
Concen: 0.377 ng
RT: 11.615 min Scan# 1073
Delta R.T. -0.005 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

Tgt Ion:152 Resp: 4238

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 19.8 | 16.6 | 25.0 |

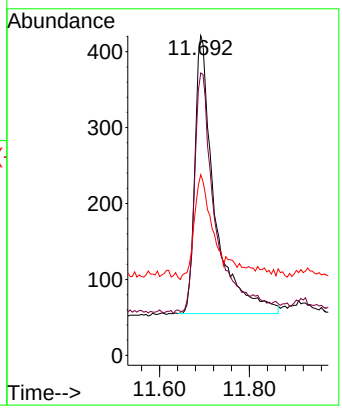





#12
2-Methylnaphthalene
Concen: 0.083 ng
RT: 11.692 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

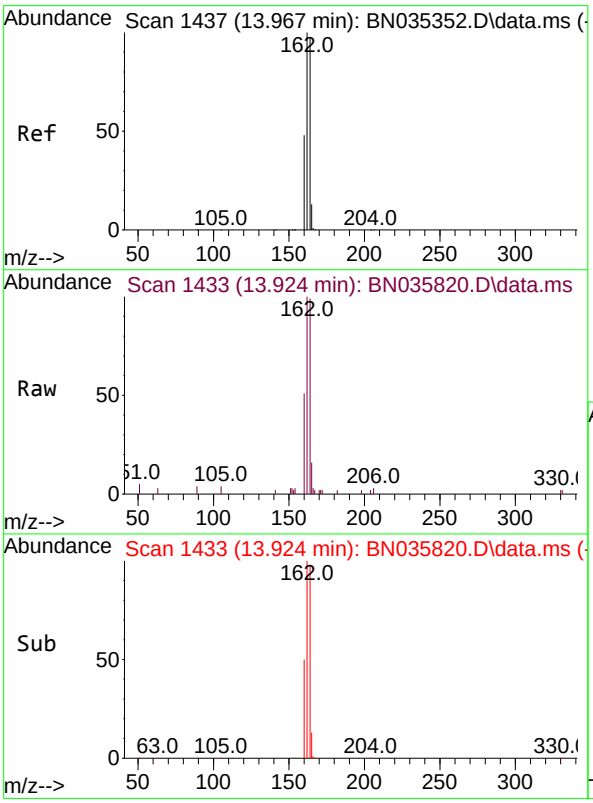
Tgt Ion:142 Resp: 111

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 88.4 | 72.2 | 108.4 |
| 115 | 56.5 | 31.4 | 47.0# |




**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01S-20241218

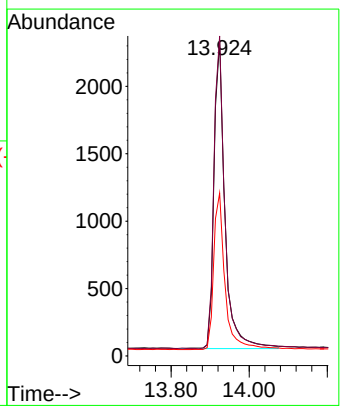
**Manual Integrations**
**APPROVED**
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

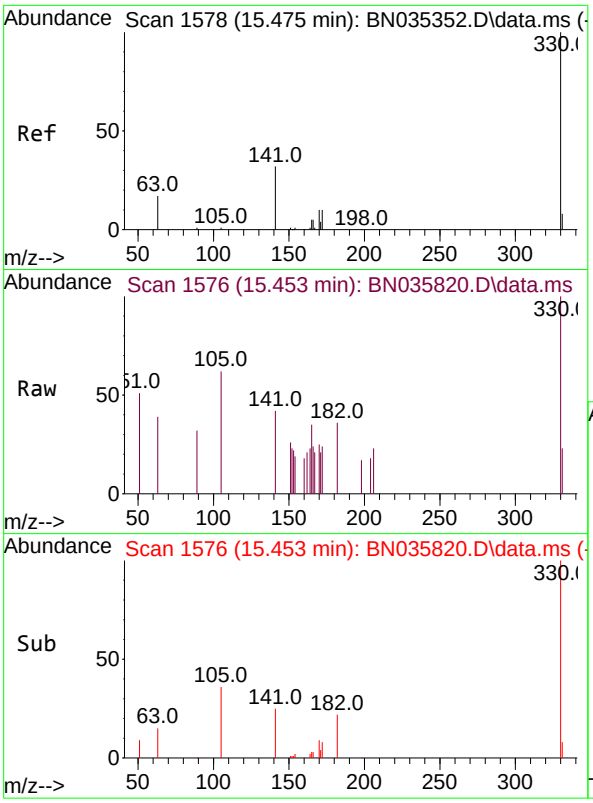



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.924 min Scan# 1433
Delta R.T. -0.011 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

Tgt Ion:164 Resp: 4458

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 101.5 | 82.2 | 123.2 |
| 160 | 51.7 | 40.1 | 60.1 |

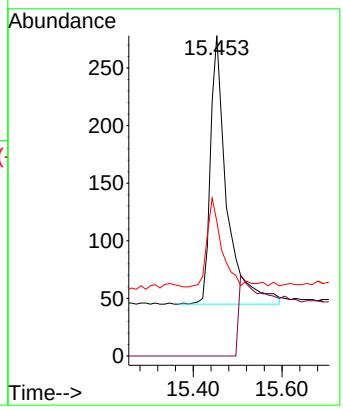





#14
2,4,6-Tribromophenol
Concen: 0.196 ng
RT: 15.453 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

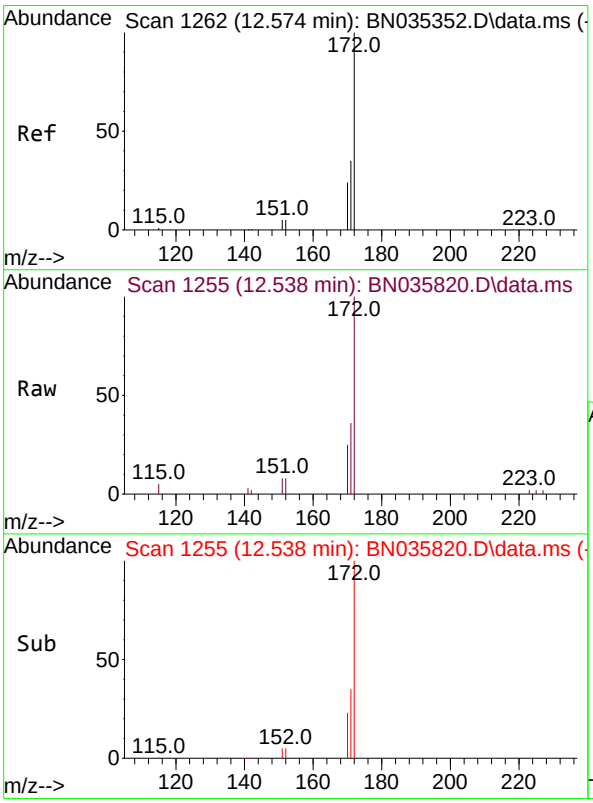
Tgt Ion:330 Resp: 62

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 0.0 | 0.0 | 0.0 |
| 141 | 31.7 | 26.6 | 40.0 |




**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01S-20241218

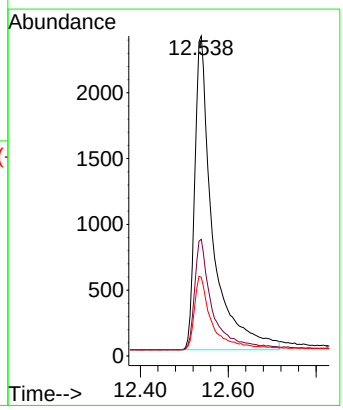
**Manual Integrations**
**APPROVED**
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

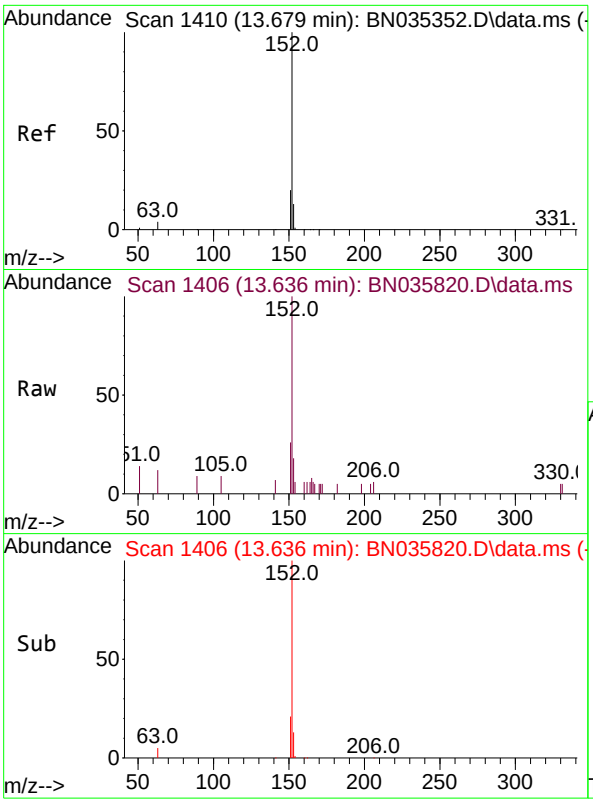



#15
2-Fluorobiphenyl
Concen: 0.404 ng
RT: 12.538 min Scan# 1255
Delta R.T. -0.005 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

Tgt Ion:172 Resp: 6805

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 36.5 | 29.0 | 43.4 |
| 170 | 24.5 | 19.8 | 29.8 |

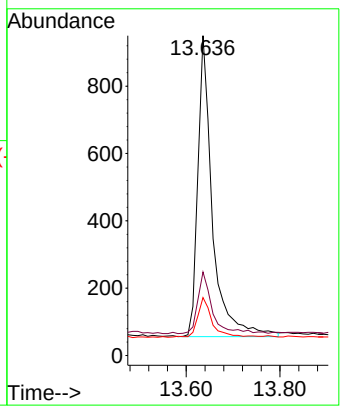





#16
Acenaphthylene
Concen: 0.103 ng
RT: 13.636 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

Tgt Ion:152 Resp: 192

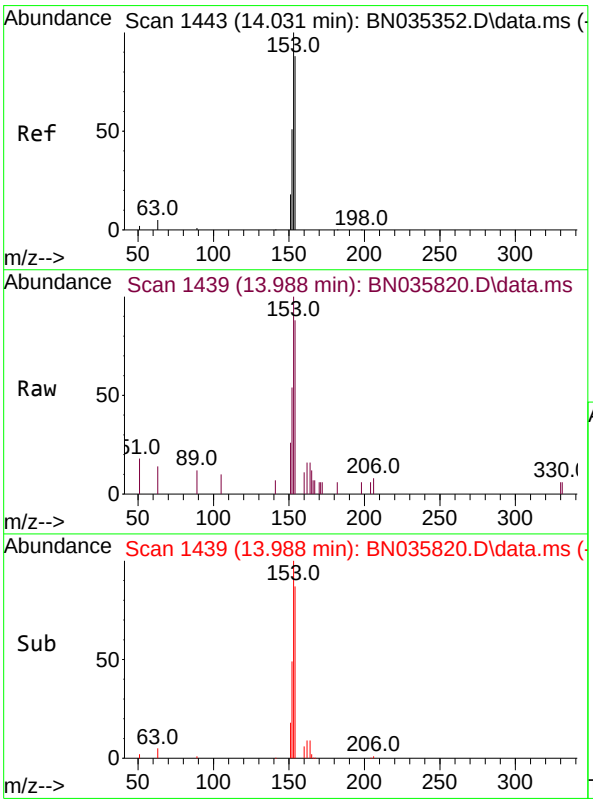
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.4 | 16.2 | 24.2 |
| 153 | 13.3 | 10.4 | 15.6 |




**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01S-20241218

**Manual Integrations**
**APPROVED**

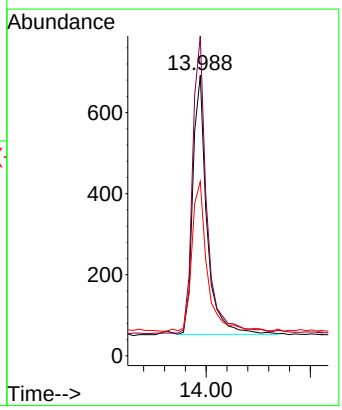
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

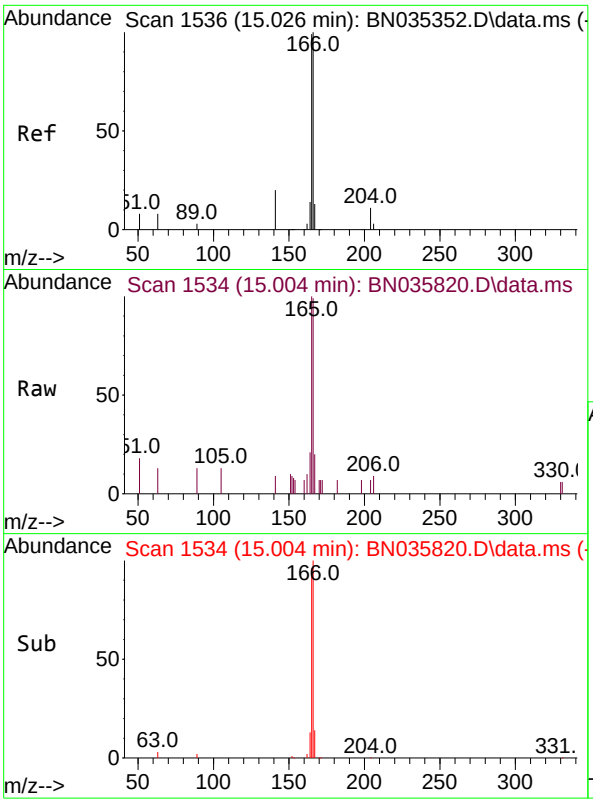



#17
Acenaphthene
Concen: 0.097 ng
RT: 13.988 min Scan# 1439
Delta R.T. -0.011 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

Tgt Ion:154 Resp: 1200

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 115.5 | 92.6 | 139.0 |
| 152 | 62.3 | 49.0 | 73.6 |

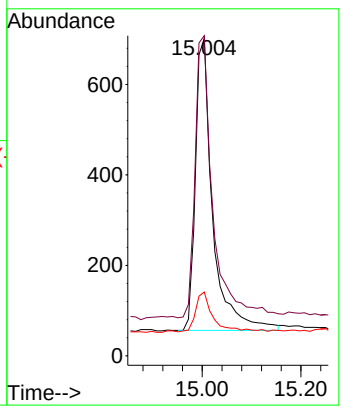





#18
Fluorene
Concen: 0.088 ng
RT: 15.004 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

Tgt Ion:166 Resp: 156

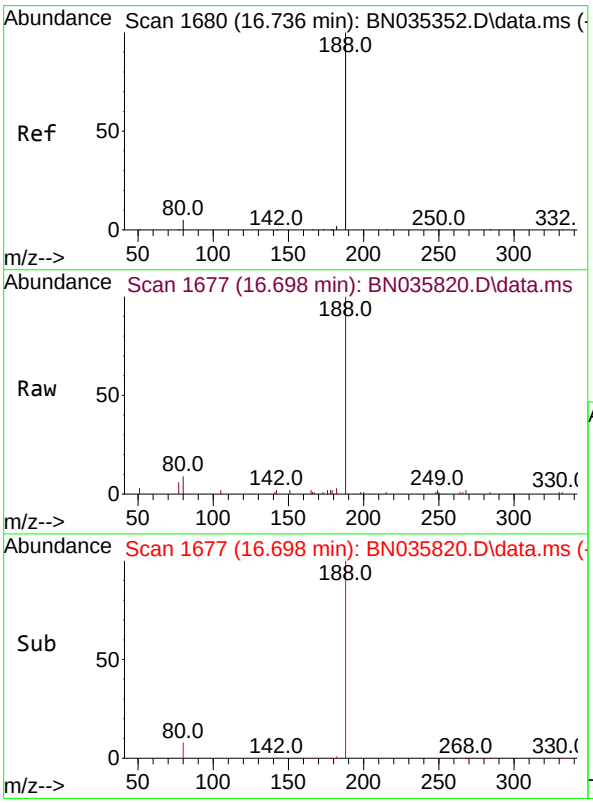
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 99.9 | 79.7 | 119.5 |
| 167 | 13.8 | 10.8 | 16.2 |




**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01S-20241218

**Manual Integrations**
**APPROVED**

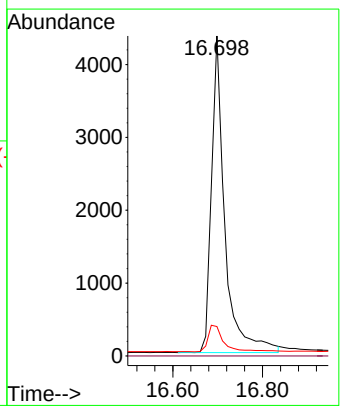
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

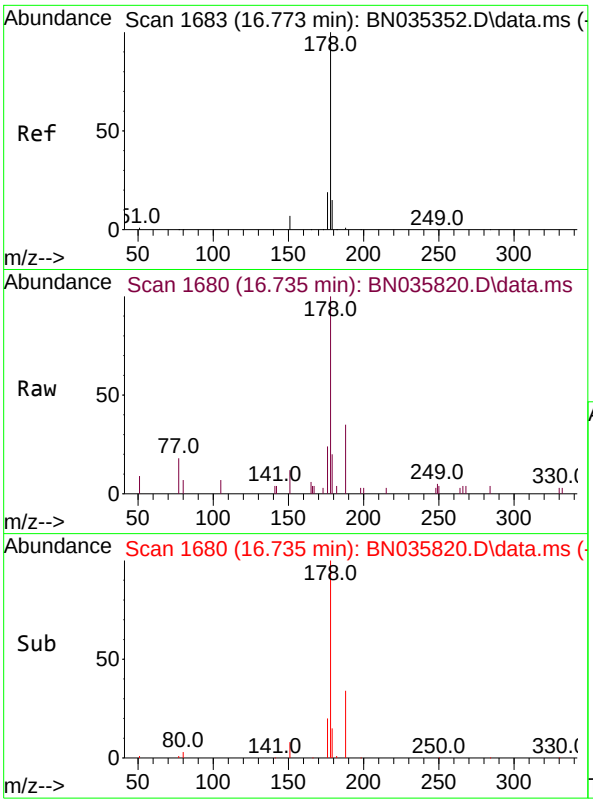



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1677
Delta R.T. -0.000 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

Tgt Ion:188 Resp: 8922

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 9.2 | 4.6 | 6.8# |






#25
Phenanthrene
Concen: 0.119 ng
RT: 16.735 min Scan# 1(
Delta R.T. -0.013 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

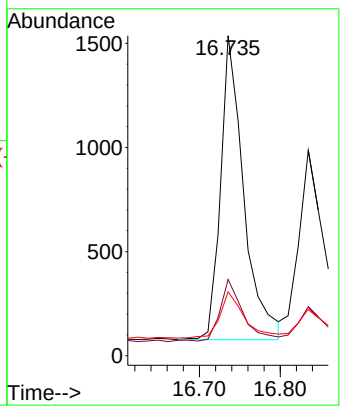
Tgt Ion:178 Resp: 291

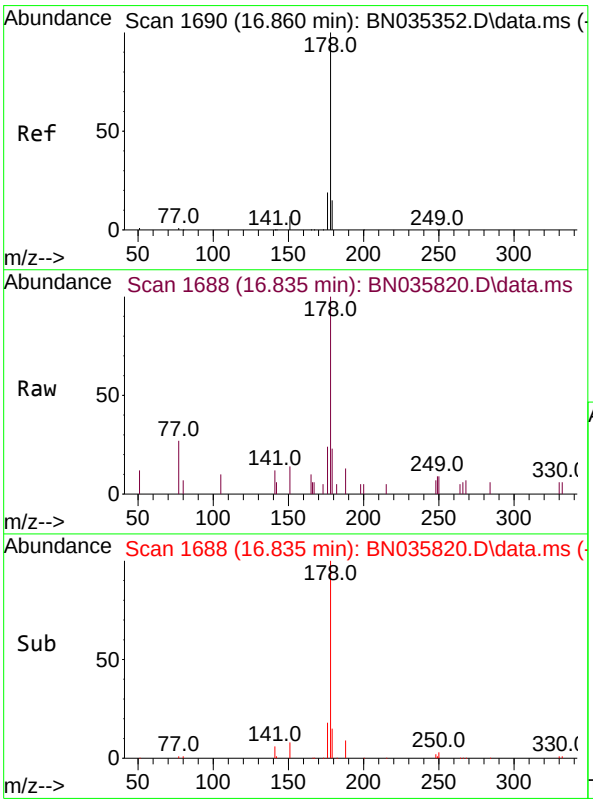
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 20.8 | 15.4 | 23.2 |
| 179 | 15.9 | 12.3 | 18.5 |

**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01S-20241218

**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

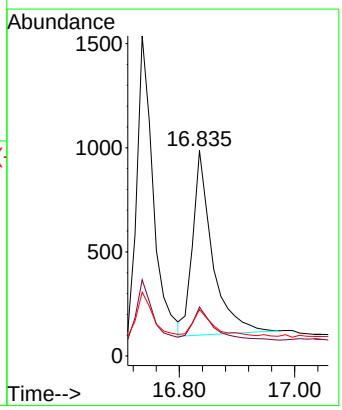


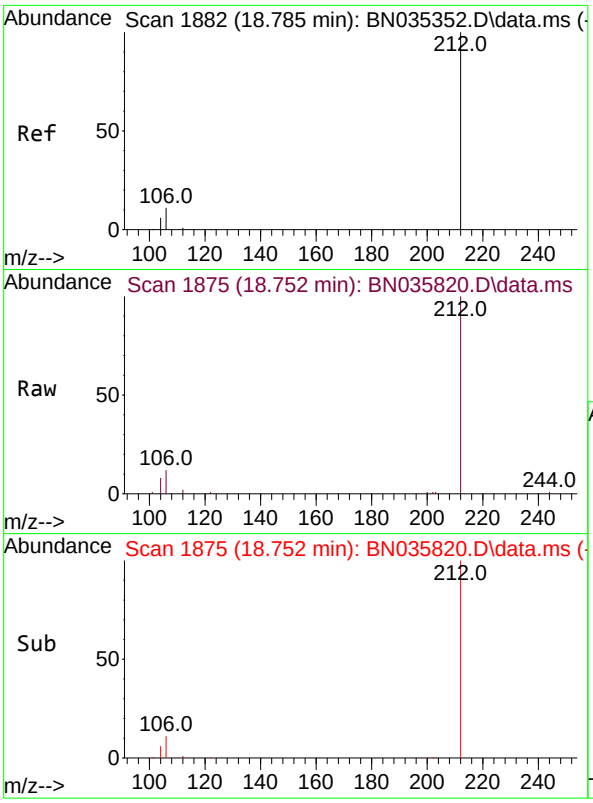




#26
Anthracene
Concen: 0.095 ng
RT: 16.835 min Scan# 1688
Delta R.T. -0.000 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

Tgt Ion:178 Resp: 2107

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 20.4 | 15.0 | 22.6 |
| 179 | 16.5 | 12.6 | 18.8 |

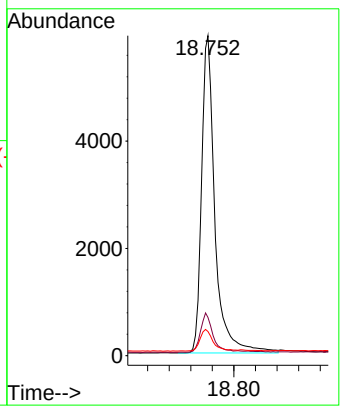





#27
Fluoranthene-d10
Concen: 0.401 ng
RT: 18.752 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

Tgt Ion:212 Resp: 1014

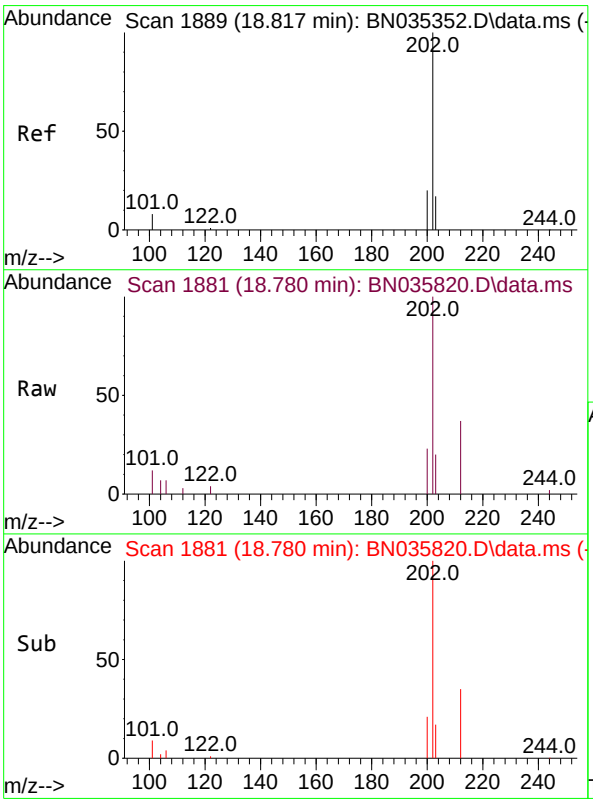
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 11.7 | 9.2 | 13.8 |
| 104 | 6.6 | 5.3 | 7.9 |




**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01S-20241218

**Manual Integrations**
**APPROVED**

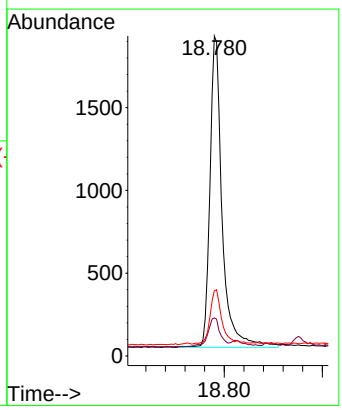
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

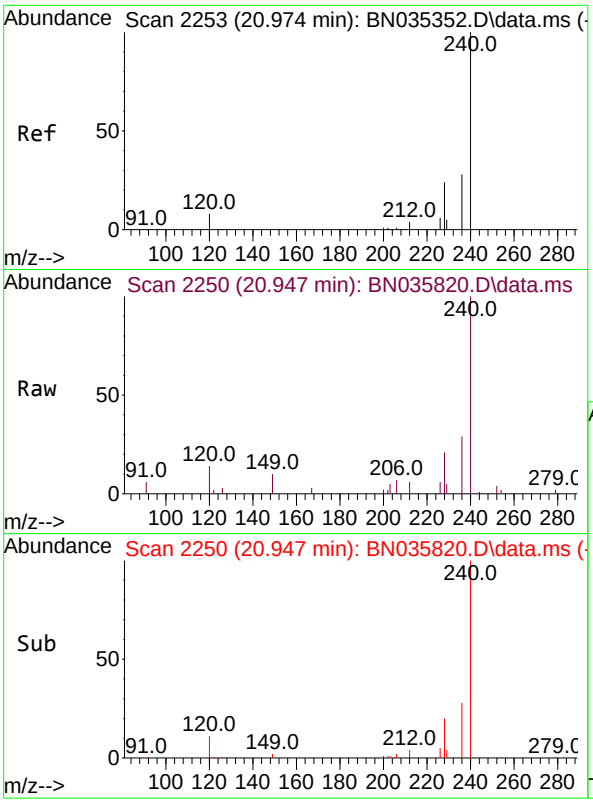



#28
Fluoranthene
Concen: 0.098 ng
RT: 18.780 min Scan# 1881
Delta R.T. -0.010 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

Tgt Ion:202 Resp: 3244

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 9.2 | 7.4 | 11.0 |
| 203 | 17.2 | 13.7 | 20.5 |

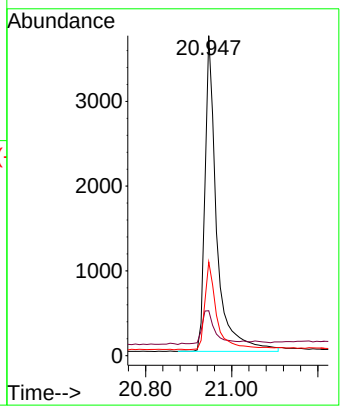





#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

Tgt Ion:240 Resp: 705

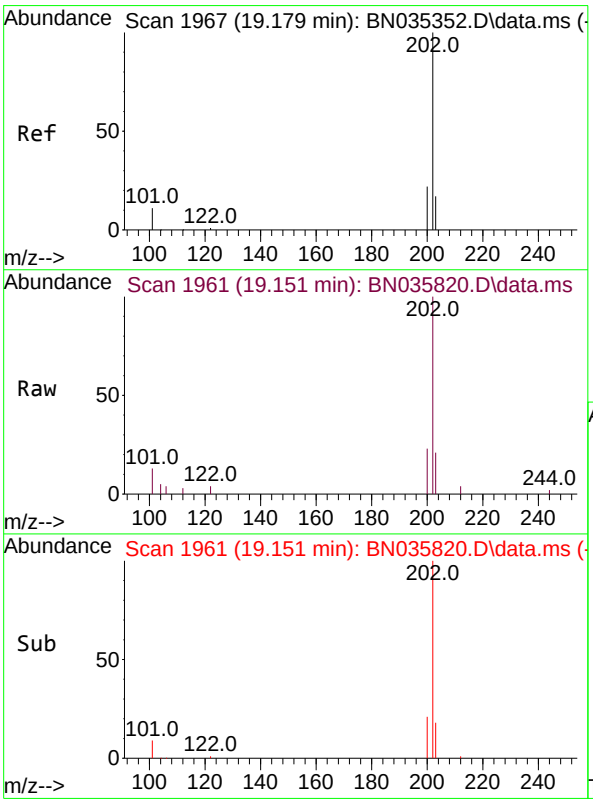
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 14.1 | 7.9 | 11.9 |
| 236 | 29.3 | 22.9 | 34.3 |




**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01S-20241218

**Manual Integrations APPROVED**

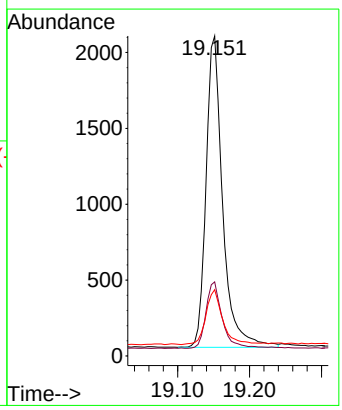
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

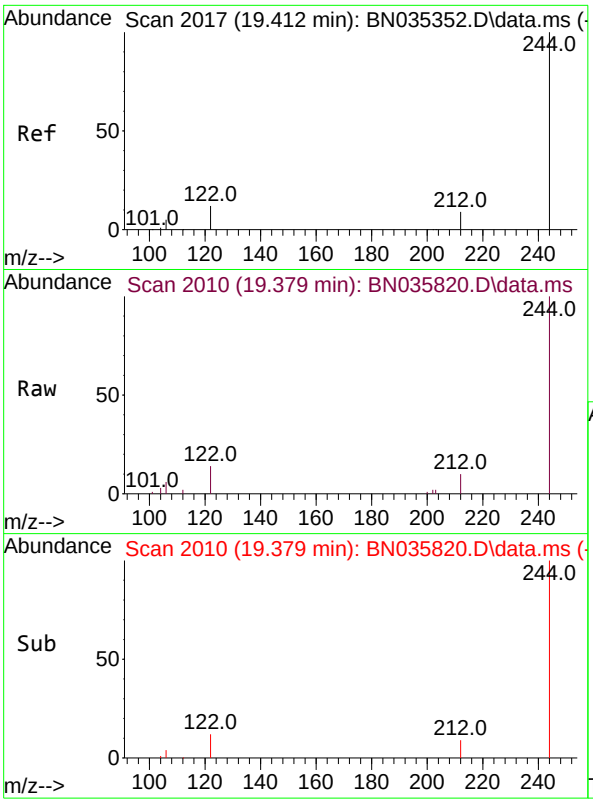



#30
Pyrene
Concen: 0.126 ng
RT: 19.151 min Scan# 1961
Delta R.T. -0.010 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

Tgt Ion:202 Resp: 3281

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 20.8 | 17.0 | 25.4 |
| 203 | 18.1 | 14.3 | 21.5 |

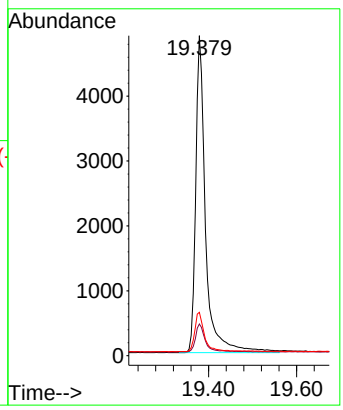





#31
Terphenyl-d14
Concen: 0.548 ng
RT: 19.379 min Scan# 2(
Delta R.T. -0.010 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

Tgt Ion:244 Resp: 762(

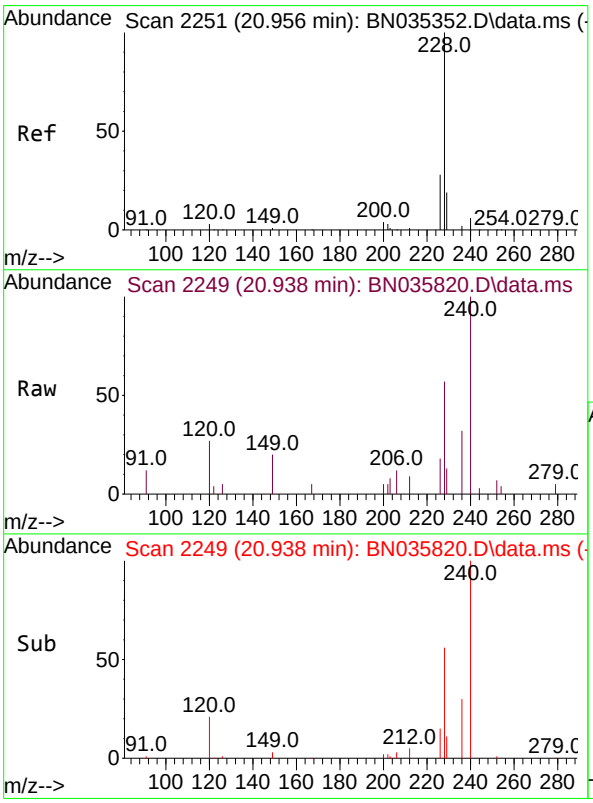
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 9.9 | 8.1 | 12.1 |
| 122 | 13.5 | 10.3 | 15.5 |




**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01S-20241218

**Manual Integrations**
**APPROVED**

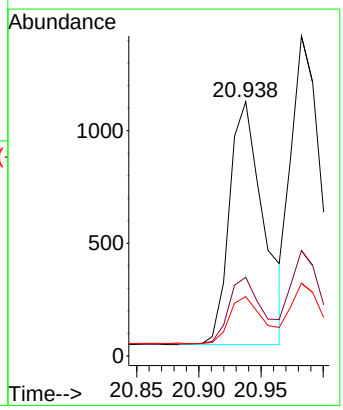
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

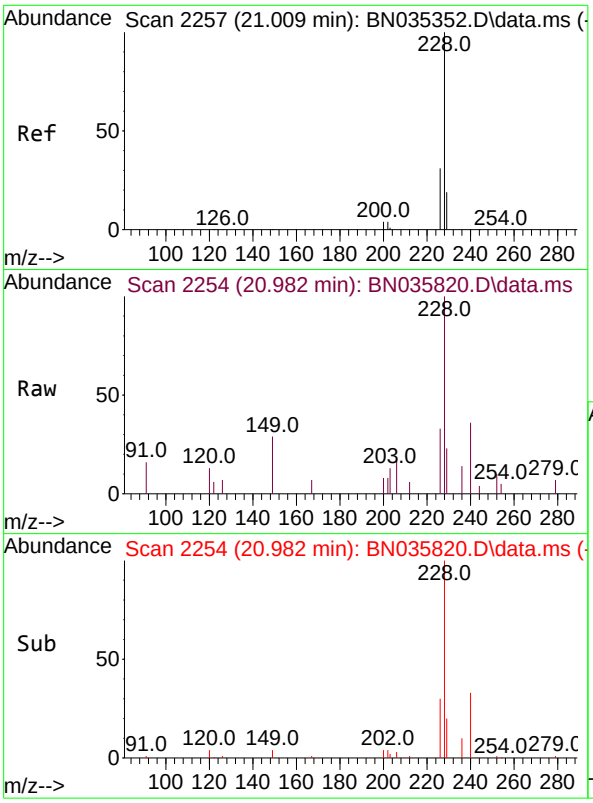



#32
Benzo(a)anthracene
Concen: 0.083 ng
RT: 20.938 min Scan# 2249
Delta R.T. -0.000 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

Tgt Ion:228 Resp: 2057

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 30.9 | 22.5 | 33.7 |
| 229 | 23.3 | 15.8 | 23.8 |

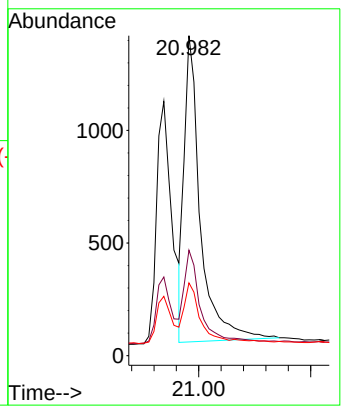





#33
Chrysene
Concen: 0.107 ng
RT: 20.982 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

Tgt Ion:228 Resp: 271

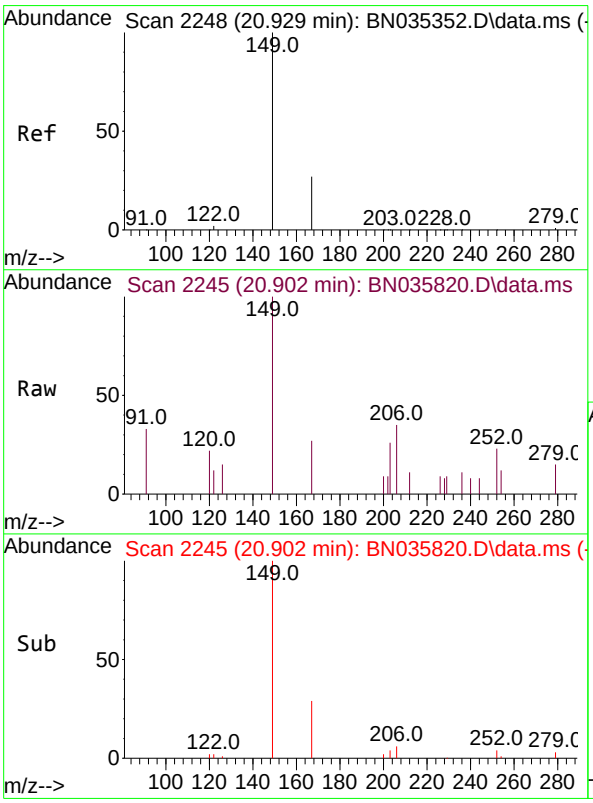
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 32.9 | 24.6 | 37.0 |
| 229 | 22.7 | 15.9 | 23.9 |




**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01S-20241218

**Manual Integrations**
**APPROVED**

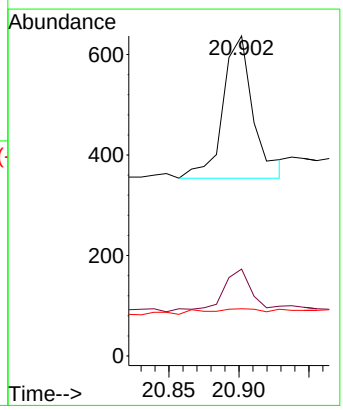
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

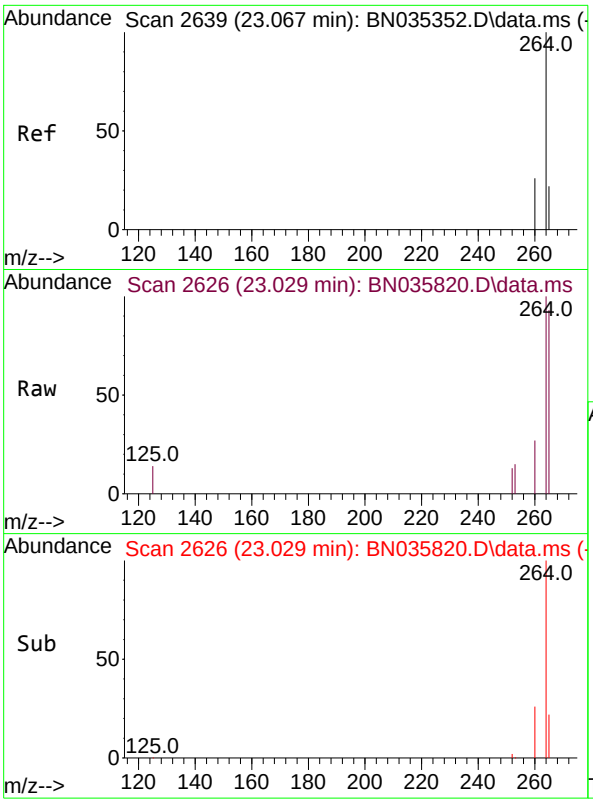



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.044 ng
RT: 20.902 min Scan# 2245
Delta R.T. -0.009 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

Tgt Ion:149 Resp: 426

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 34.0 | 22.2 | 33.4# |
| 279 | 7.3 | 2.7 | 4.1# |






#35
Perylene-d12
Concen: 0.400 ng
RT: 23.029 min Scan# 2
Delta R.T. -0.012 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

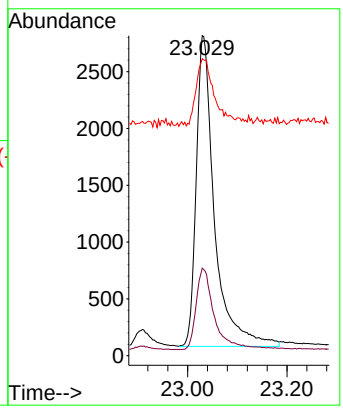
Tgt Ion:264 Resp: 696

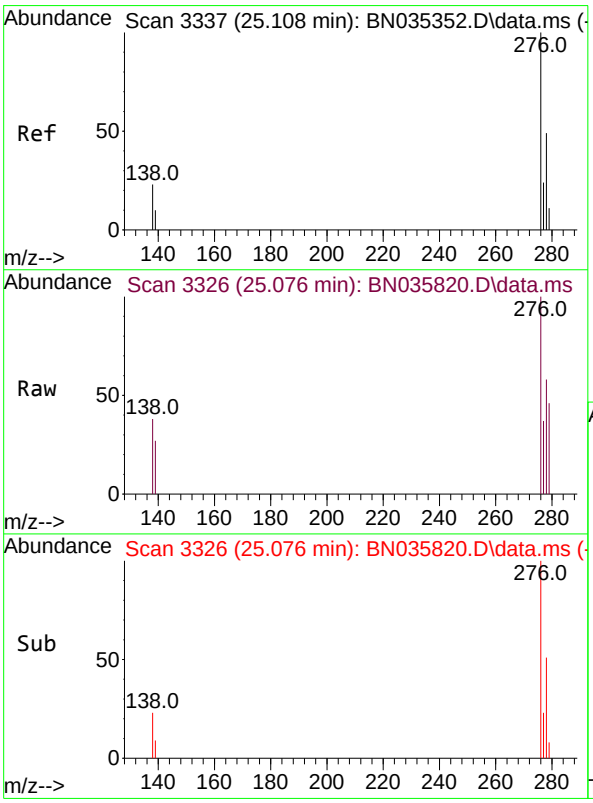
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 27.4 | 21.4 | 32.2 |
| 265 | 92.8 | 40.2 | 60.4# |

**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01S-20241218

**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

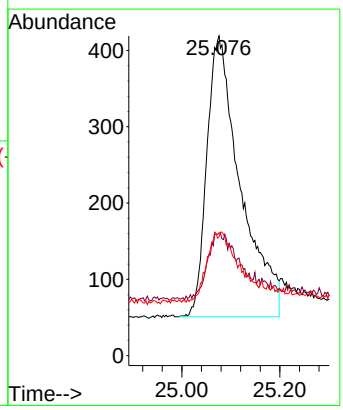


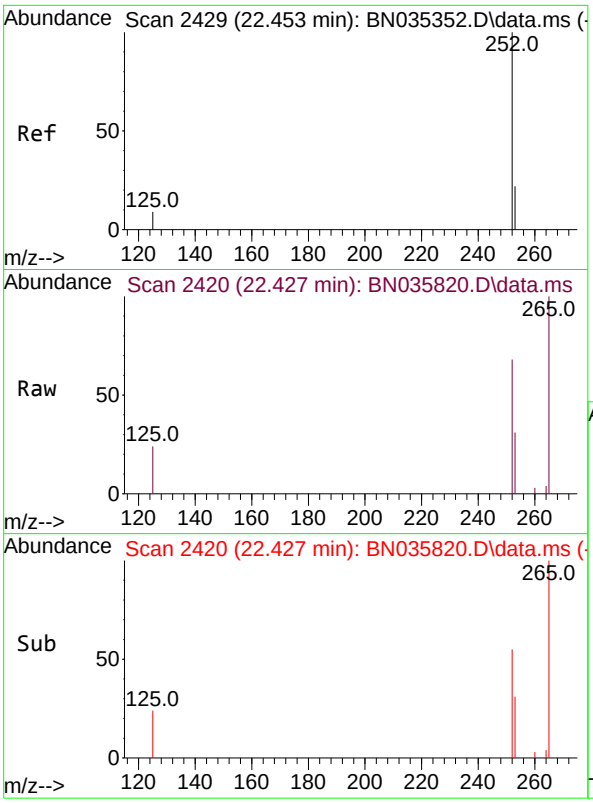




#36
Indeno(1,2,3-cd)pyrene
Concen: 0.065 ng
RT: 25.076 min Scan# 3326
Delta R.T. 0.009 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

Tgt Ion:276 Resp: 1756

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 20.6 | 19.4 | 29.0 |
| 277 | 7.7 | 19.8 | 29.6# |

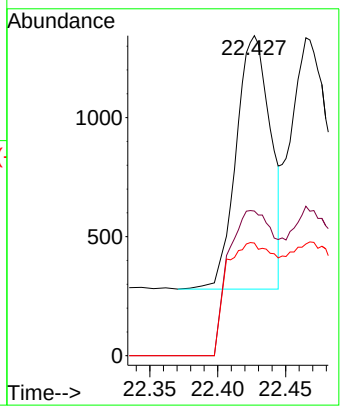





#37
Benzo(b)fluoranthene
Concen: 0.105 ng
RT: 22.427 min Scan# 24
Delta R.T. -0.003 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

Tgt Ion:252 Resp: 267

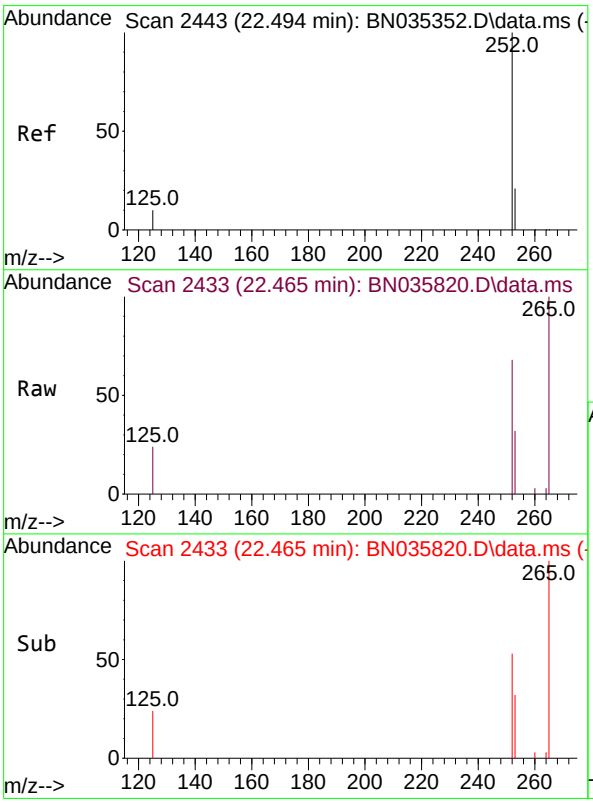
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 45.2 | 19.6 | 29.4# |
| 125 | 35.2 | 9.6 | 14.4# |




**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01S-20241218

**Manual Integrations APPROVED**

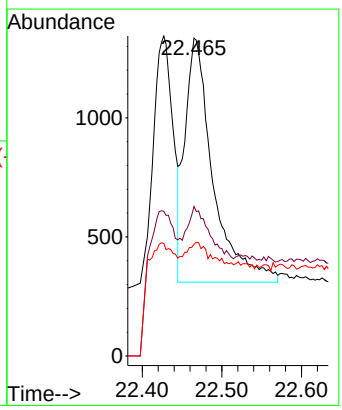
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

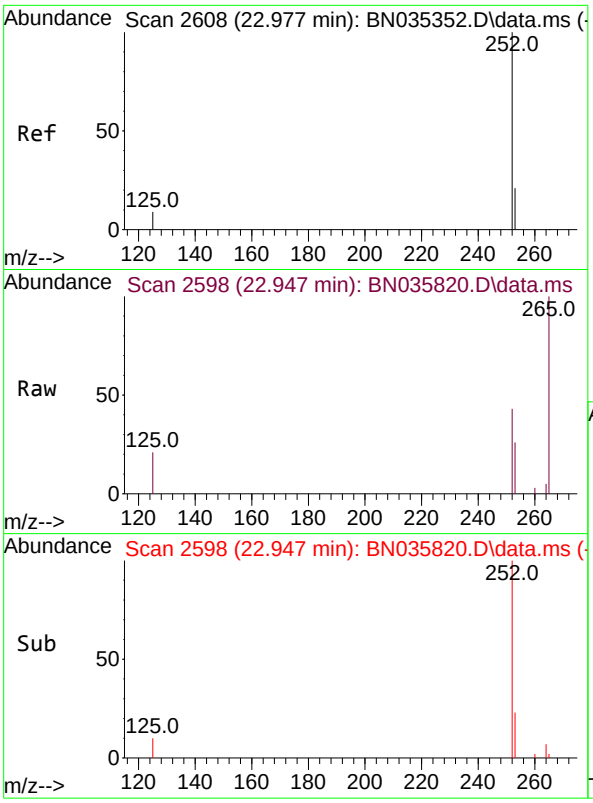



#38
Benzo(k)fluoranthene
Concen: 0.101 ng m
RT: 22.465 min Scan# 2433
Delta R.T. -0.006 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

Tgt Ion:252 Resp: 2525

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 47.0 | 19.5 | 29.3# |
| 125 | 35.1 | 10.2 | 15.4# |






#39
Benzo(a)pyrene
Concen: 0.074 ng
RT: 22.947 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

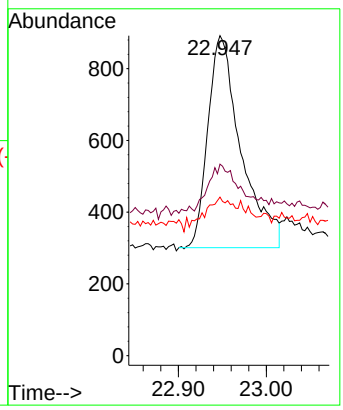
Tgt Ion:252 Resp: 155

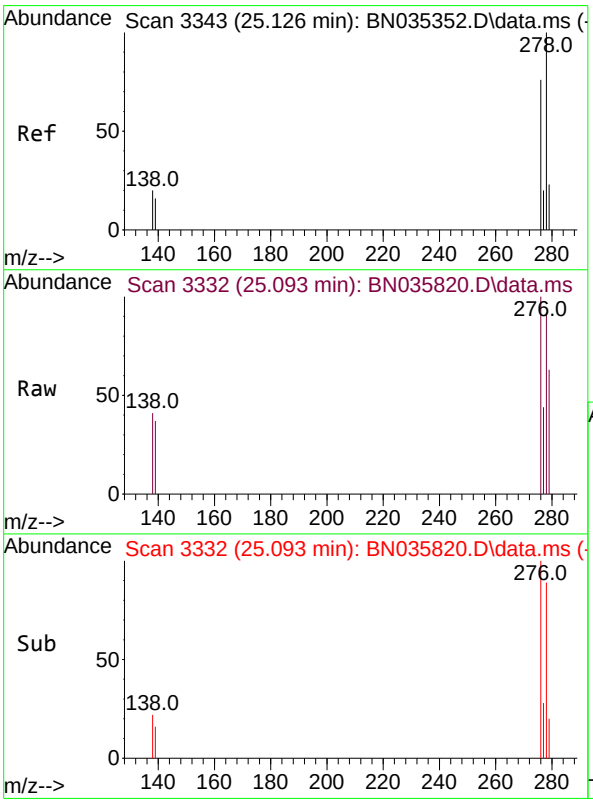
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 59.9 | 20.2 | 30.4# |
| 125 | 49.6 | 10.9 | 16.3# |

**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01S-20241218

**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

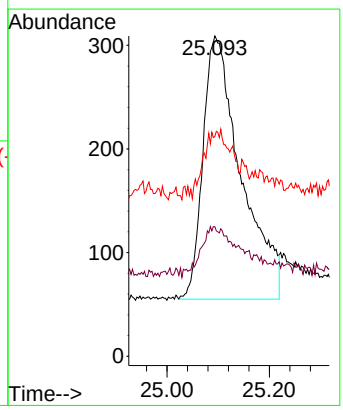


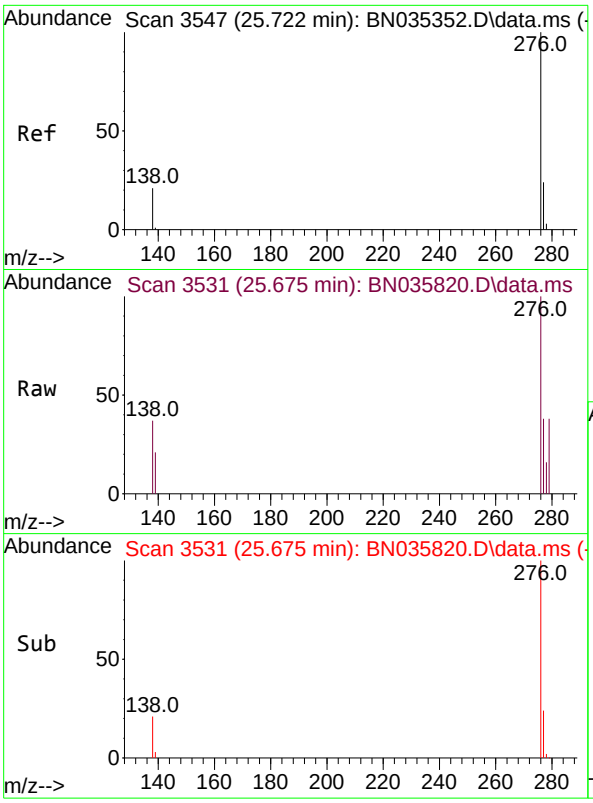




#40
Dibenzo(a,h)anthracene
Concen: 0.061 ng
RT: 25.093 min Scan# 3332
Delta R.T. 0.011 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

Tgt Ion:278 Resp: 1312

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 40.5 | 14.2 | 21.4# |
| 279 | 68.6 | 20.5 | 30.7# |

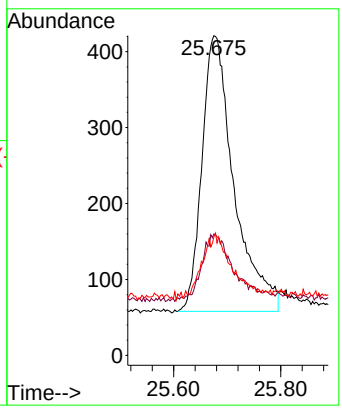





#41
Benzo(g,h,i)perylene
Concen: 0.067 ng
RT: 25.675 min Scan# 3
Delta R.T. -0.003 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

Tgt Ion:276 Resp: 151

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 38.0 | 19.9 | 29.9# |
| 138 | 37.1 | 17.8 | 26.8# |




**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01S-20241218

**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | AECOM Technical Services, Inc. | Date Collected: | 12/18/24 |
| Project: | NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258 | Date Received: | 12/20/24 |
| Client Sample ID: | RW10-MW01D-20241218 | SDG No.: | P5376 |
| Lab Sample ID: | P5376-10 | Matrix: | Water |
| Analytical Method: | SW8270ESIM | % Solid: | 0 |
| Sample Wt/Vol: | 980 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-SIMGroup1 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BN035823.D | 1 | 12/23/24 13:29 | 12/24/24 16:06 | PB165828 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 123-91-1 | 1,4-Dioxane | 0.20 | U | 0.070 | 0.20 | 0.20 | ug/L |
| **SURROGATES** | | | | | | | |
| 7297-45-2 | 2-Methylnaphthalene-d10 | 0.34 | | 30 - 150 | | 84% | SPK: 0.4 |
| 93951-69-0 | Fluoranthene-d10 | 0.40 | | 30 - 150 | | 99% | SPK: 0.4 |
| 4165-60-0 | Nitrobenzene-d5 | 0.38 | | 55 - 111 | | 95% | SPK: 0.4 |
| 321-60-8 | 2-Fluorobiphenyl | 0.34 | | 53 - 106 | | 84% | SPK: 0.4 |
| 1718-51-0 | Terphenyl-d14 | 0.50 | | 58 - 132 | | 125% | SPK: 0.4 |
| **INTERNAL STANDARDS** | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 3350 | 7.264 | | | | |
| 1146-65-2 | Naphthalene-d8 | 8450 | 10.009 | | | | |
| 15067-26-2 | Acenaphthene-d10 | 5460 | 13.925 | | | | |
| 1517-22-2 | Phenanthrene-d10 | 11800 | 16.698 | | | | |
| 1719-03-5 | Chrysene-d12 | 9970 | 20.947 | | | | |
| 1520-96-3 | Perylene-d12 | 9570 | 23.026 | | | | |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035823.D
Acq On : 24 Dec 2024 16:06
Operator : RC/JU
Sample : P5376-10
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Dec 24 23:19:31 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01D-20241218

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.264 | 152 | 3352 | 0.400 | ng | 0.00 |
| 7) Naphthalene-d8 | 10.009 | 136 | 8445 | 0.400 | ng | #-0.01 |
| 13) Acenaphthene-d10 | 13.925 | 164 | 5463 | 0.400 | ng | -0.01 |
| 19) Phenanthrene-d10 | 16.698 | 188 | 11816 | 0.400 | ng | # 0.00 |
| 29) Chrysene-d12 | 20.947 | 240 | 9968 | 0.400 | ng | # 0.00 |
| 35) Perylene-d12 | 23.026 | 264 | 9568 | 0.400 | ng | #-0.01 |
| **System Monitoring Compounds** | | | | | | |
| 4) 2-Fluorophenol | 4.924 | 112 | 842 | 0.100 | ng | -0.01 |
| 5) Phenol-d6 | 6.477 | 99 | 482 | 0.048 | ng | -0.01 |
| 8) Nitrobenzene-d5 | 8.408 | 82 | 1955m | 0.379 | ng | 0.00 |
| 11) 2-Methylnaphthalene-d10 | 11.611 | 152 | 4421 | 0.335 | ng | -0.01 |
| 14) 2,4,6-Tribromophenol | 15.443 | 330 | 799 | 0.206 | ng | -0.01 |
| 15) 2-Fluorobiphenyl | 12.534 | 172 | 6936 | 0.336 | ng | -0.01 |
| 27) Fluoranthene-d10 | 18.747 | 212 | 13295 | 0.397 | ng | -0.01 |
| 31) Terphenyl-d14 | 19.379 | 244 | 9869 | 0.502 | ng | 0.00 |
| **Target Compounds** | | | | | | Qvalue |
| 9) Naphthalene | 10.052 | 128 | 964 | 0.043 | ng | # 77 |
| 12) 2-Methylnaphthalene | 11.692 | 142 | 597 | 0.037 | ng | # 76 |
| 16) Acenaphthylene | 13.636 | 152 | 1063 | 0.046 | ng | # 93 |
| 17) Acenaphthene | 13.989 | 154 | 693 | 0.045 | ng | 99 |
| 18) Fluorene | 14.994 | 166 | 956 | 0.044 | ng | 96 |
| 25) Phenanthrene | 16.736 | 178 | 2183 | 0.067 | ng | 98 |
| 26) Anthracene | 16.835 | 178 | 1383 | 0.047 | ng | 98 |
| 28) Fluoranthene | 18.780 | 202 | 2251 | 0.051 | ng | # 96 |
| 30) Pyrene | 19.147 | 202 | 2504 | 0.068 | ng | 98 |
| 32) Benzo(a)anthracene | 20.929 | 228 | 1508 | 0.043 | ng | # 91 |
| 33) Chrysene | 20.983 | 228 | 2026 | 0.056 | ng | # 93 |
| 34) Bis(2-ethylhexyl)phtha... | 20.893 | 149 | 1059 | 0.077 | ng | # 95 |
| 36) Indeno(1,2,3-cd)pyrene | 25.073 | 276 | 1384 | 0.037 | ng | # 82 |
| 37) Benzo(b)fluoranthene | 22.424 | 252 | 1754 | 0.050 | ng | # 28 |
| 38) Benzo(k)fluoranthene | 22.465 | 252 | 1557 | 0.045 | ng | # 29 |
| 39) Benzo(a)pyrene | 22.945 | 252 | 959 | 0.033 | ng | # 1 |
| 40) Dibenzo(a,h)anthracene | 25.085 | 278 | 1067 | 0.036 | ng | # 11 |
| 41) Benzo(g,h,i)perylene | 25.675 | 276 | 1130 | 0.037 | ng | # 64 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

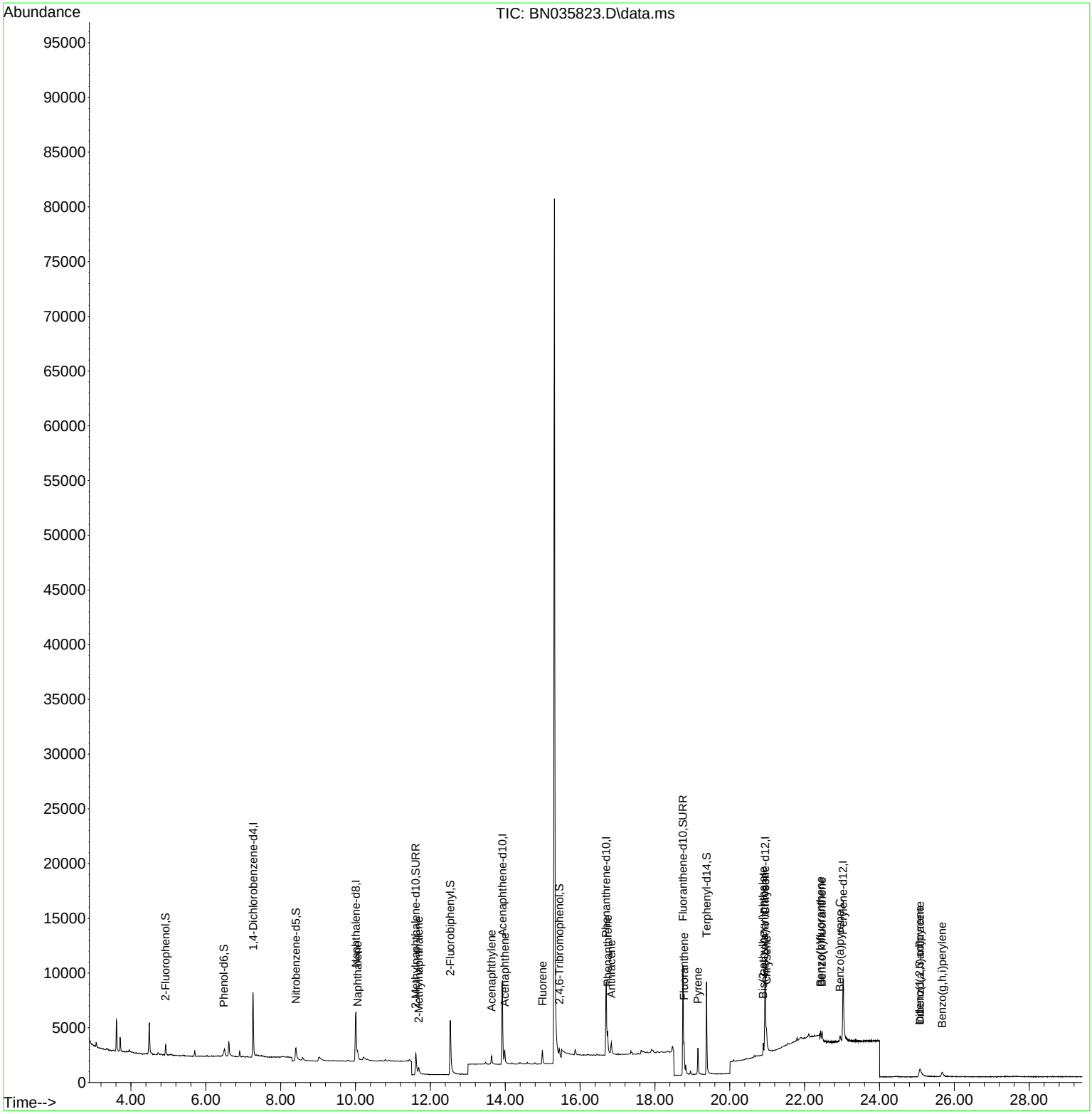
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035823.D
Acq On : 24 Dec 2024 16:06
Operator : RC/JU
Sample : P5376-10
Misc :
ALS Vial : 14 Sample Multiplier: 1

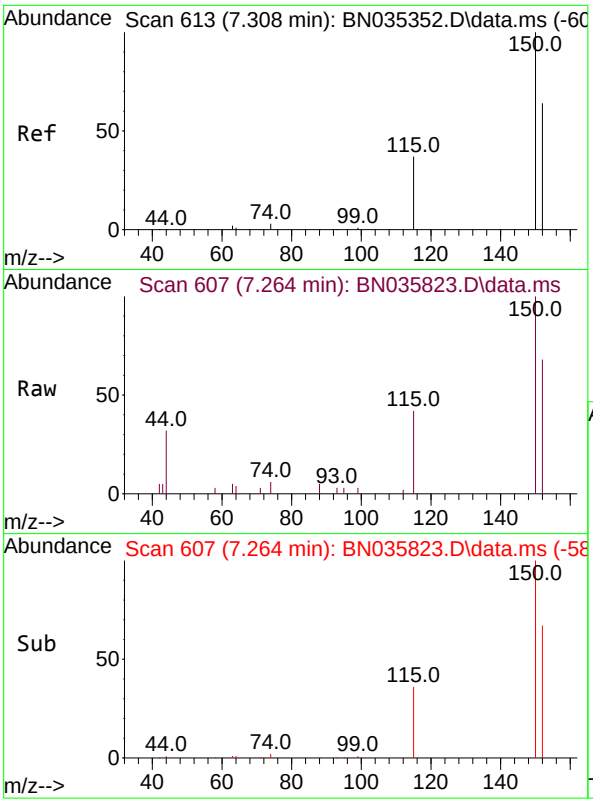
Quant Time: Dec 24 23:19:31 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01D-20241218

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 12/25/2024
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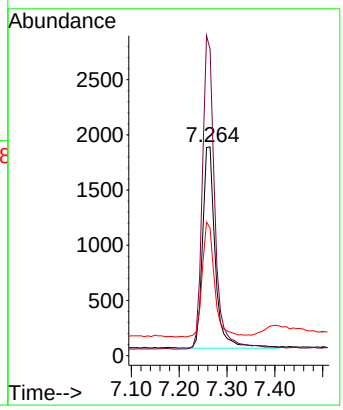





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.264 min Scan# 6
Delta R.T. -0.008 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

Tgt Ion:152 Resp: 335

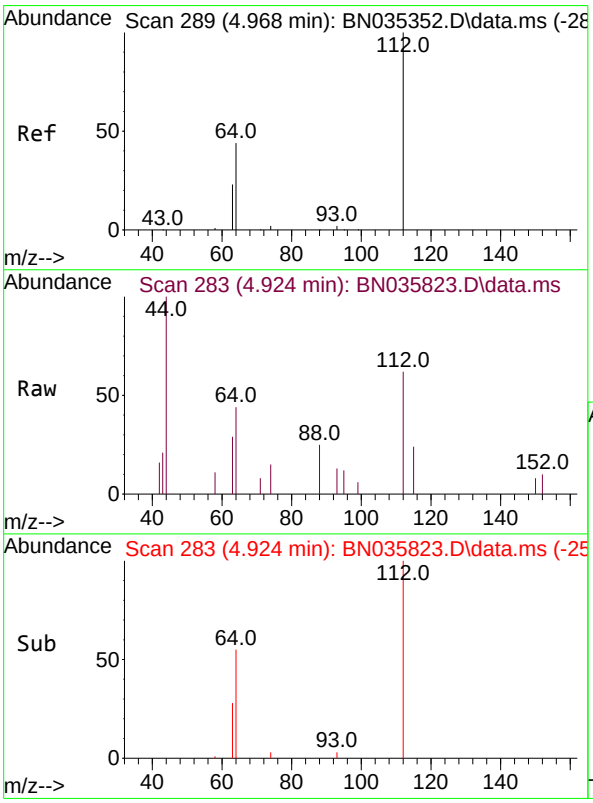
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 146.7 | 124.0 | 186.0 |
| 115 | 61.2 | 49.6 | 74.4 |




**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01D-20241218

**Manual Integrations**
**APPROVED**

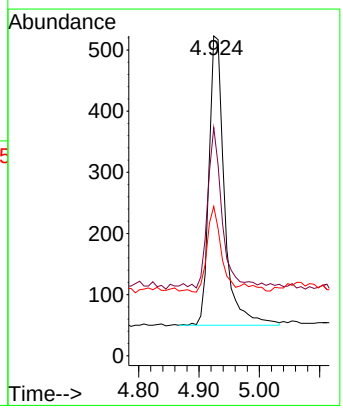
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

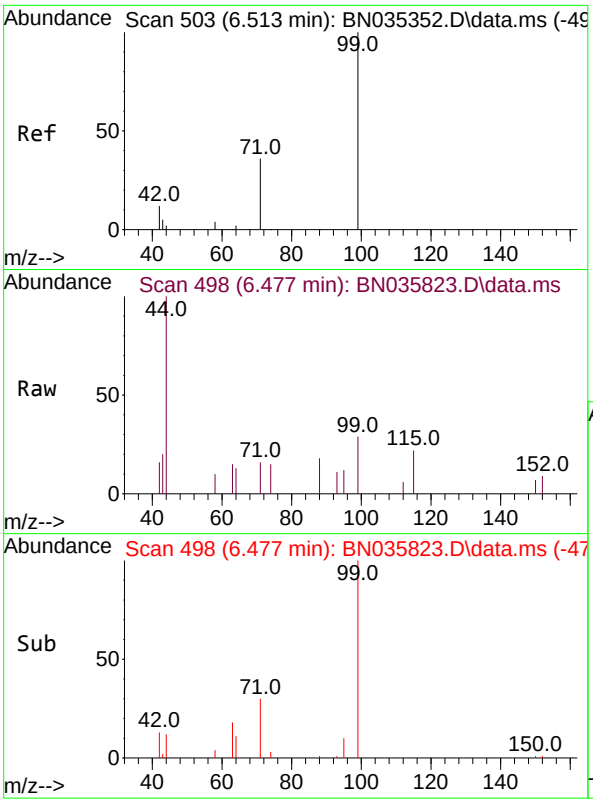



#4
2-Fluorophenol
Concen: 0.100 ng
RT: 4.924 min Scan# 283
Delta R.T. -0.014 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

Tgt Ion:112 Resp: 842

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 52.5 | 39.8 | 59.8 |
| 63 | 27.2 | 21.0 | 31.6 |

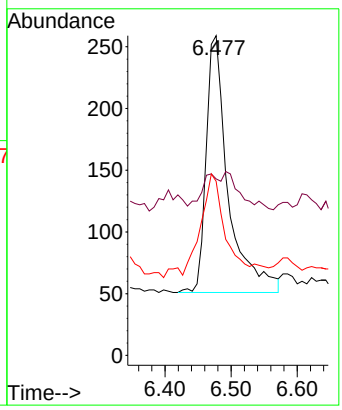





#5
Phenol-d6
Concen: 0.048 ng
RT: 6.477 min Scan# 4
Delta R.T. -0.014 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

Tgt Ion: 99 Resp: 48

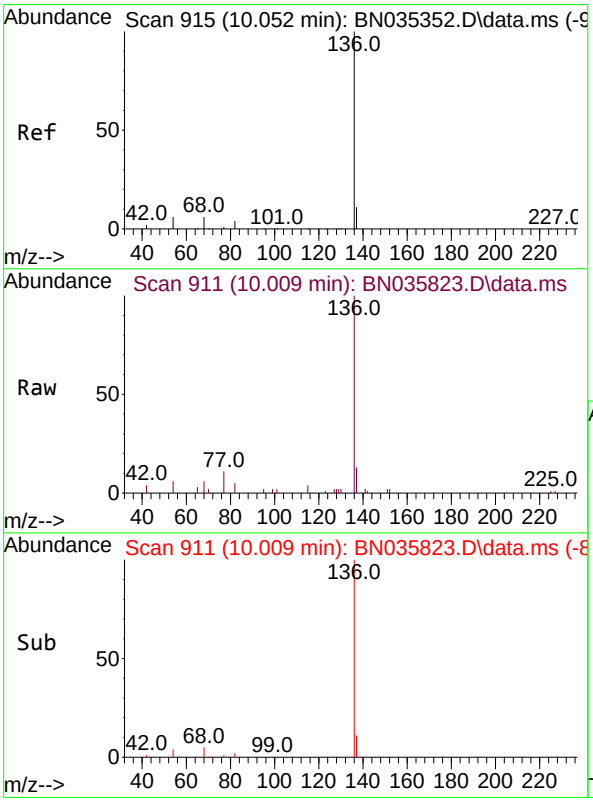
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 10.2 | 11.4 | 17.2# |
| 71 | 41.9 | 29.3 | 43.9 |




**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01D-20241218

**Manual Integrations**
**APPROVED**

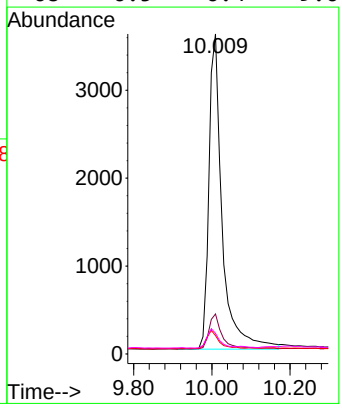
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

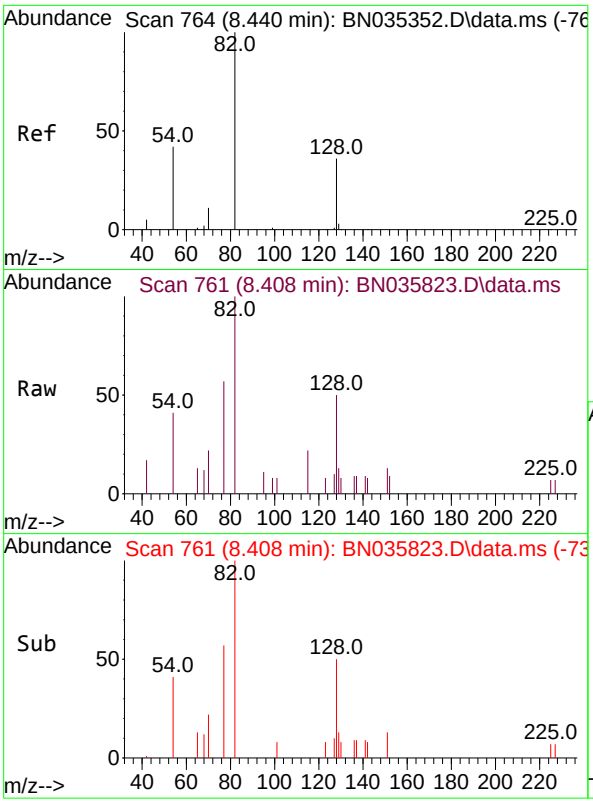



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 911
Delta R.T. -0.011 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

Tgt Ion:136 Resp: 8445

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 12.5 | 10.2 | 15.2 |
| 54 | 5.7 | 6.1 | 9.1# |
| 68 | 6.5 | 6.4 | 9.6 |

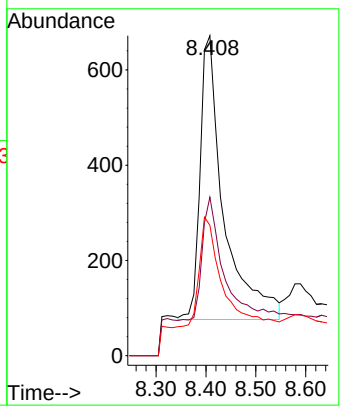





#8
Nitrobenzene-d5
Concen: 0.379 ng m
RT: 8.408 min Scan# 7
Delta R.T. -0.000 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

Tgt Ion: 82 Resp: 195

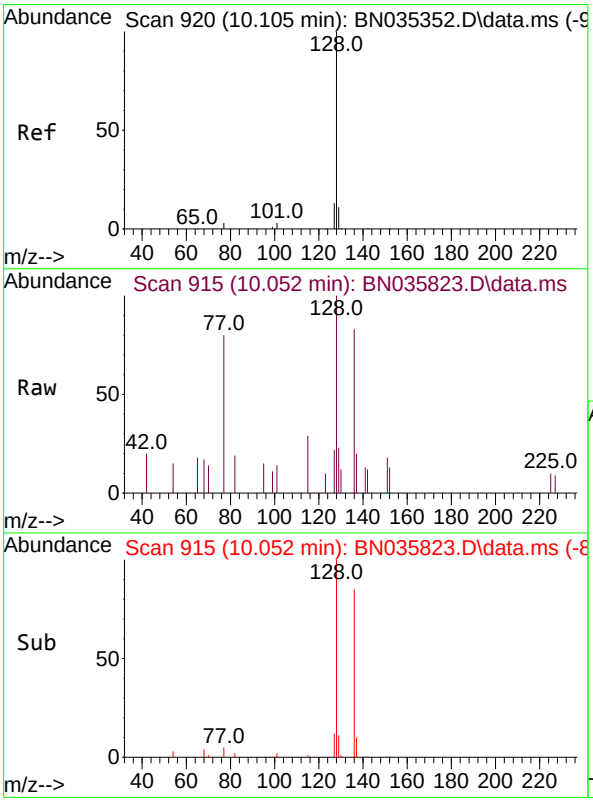
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 49.6 | 33.4 | 50.0 |
| 54 | 40.8 | 36.7 | 55.1 |




**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01D-20241218

**Manual Integrations**
**APPROVED**

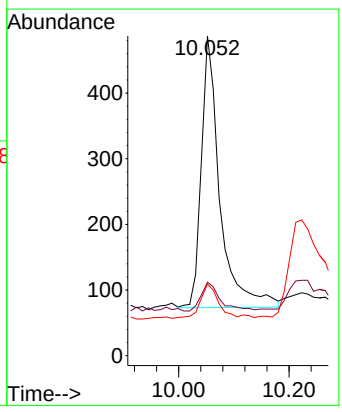
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

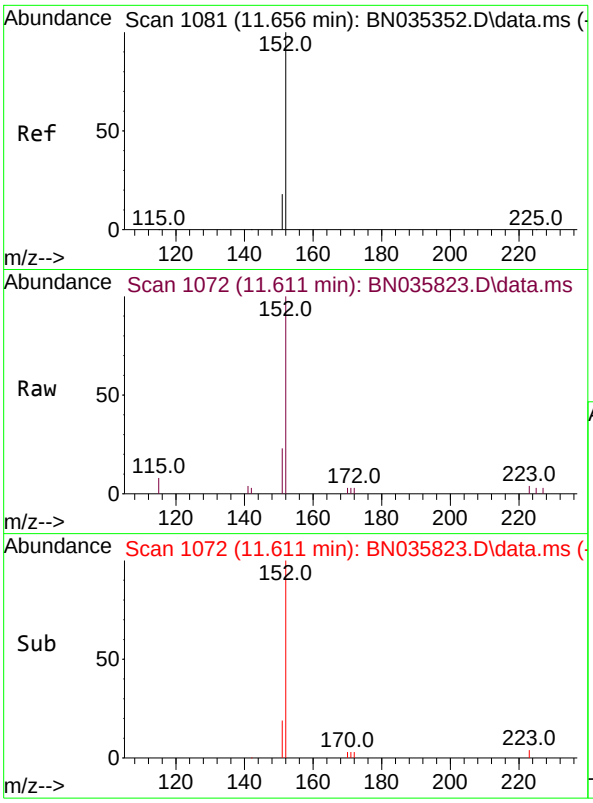



#9
Naphthalene
Concen: 0.043 ng
RT: 10.052 min Scan# 915
Delta R.T. -0.011 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

Tgt Ion:128 Resp: 964

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 23.0 | 9.8 | 14.6# |
| 127 | 22.4 | 11.4 | 17.2# |






#11
2-Methylnaphthalene-d10
Concen: 0.335 ng
RT: 11.611 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

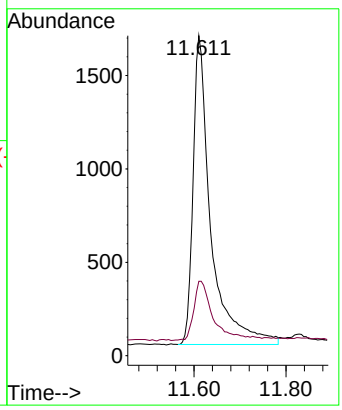
Tgt Ion:152 Resp: 442

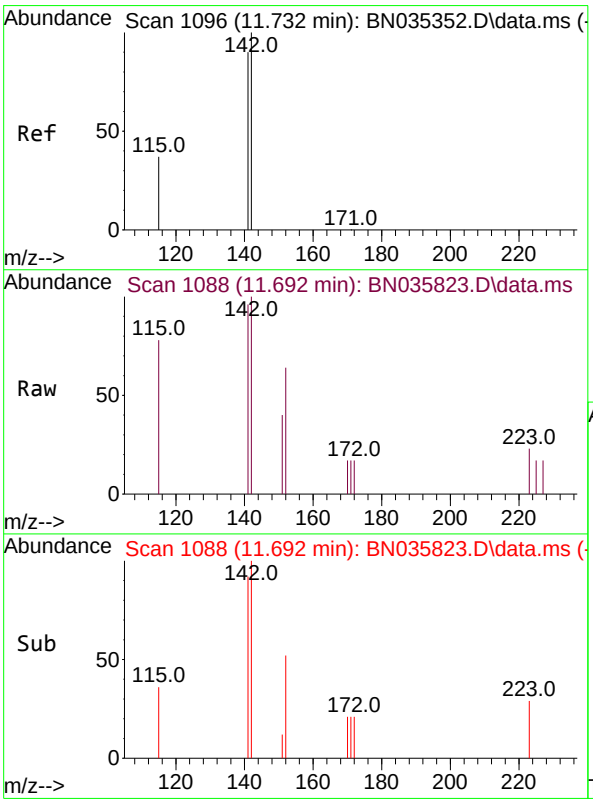
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.4 | 16.6 | 25.0 |

**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01D-20241218

**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

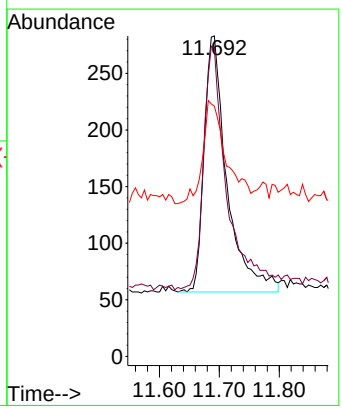


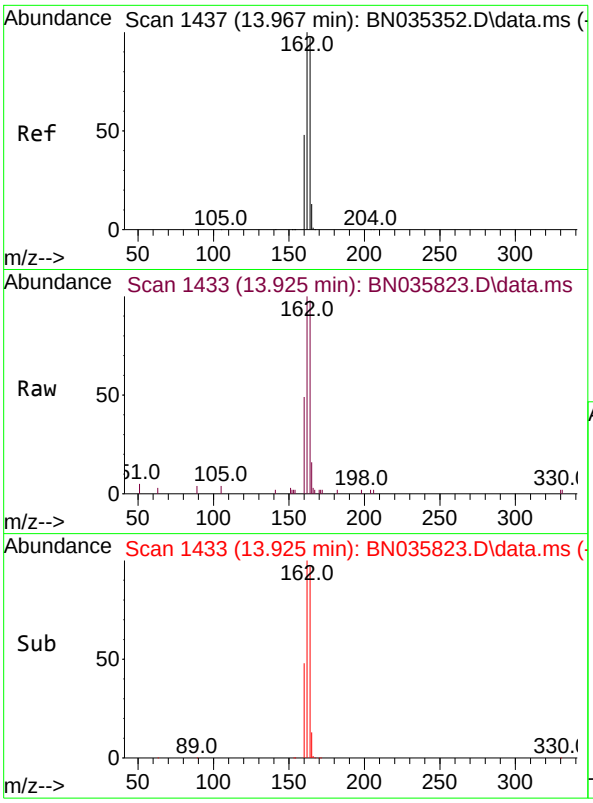




#12
2-Methylnaphthalene
Concen: 0.037 ng
RT: 11.692 min Scan# 1088
Delta R.T. -0.005 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

Tgt Ion:142 Resp: 597

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 96.1 | 72.2 | 108.4 |
| 115 | 78.1 | 31.4 | 47.0# |

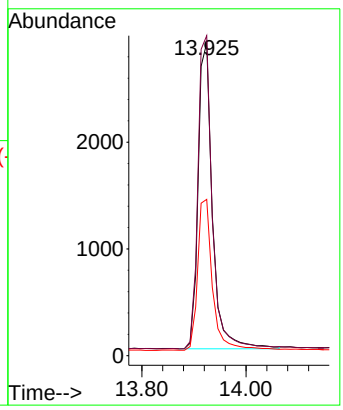





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.925 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

Tgt Ion:164 Resp: 546

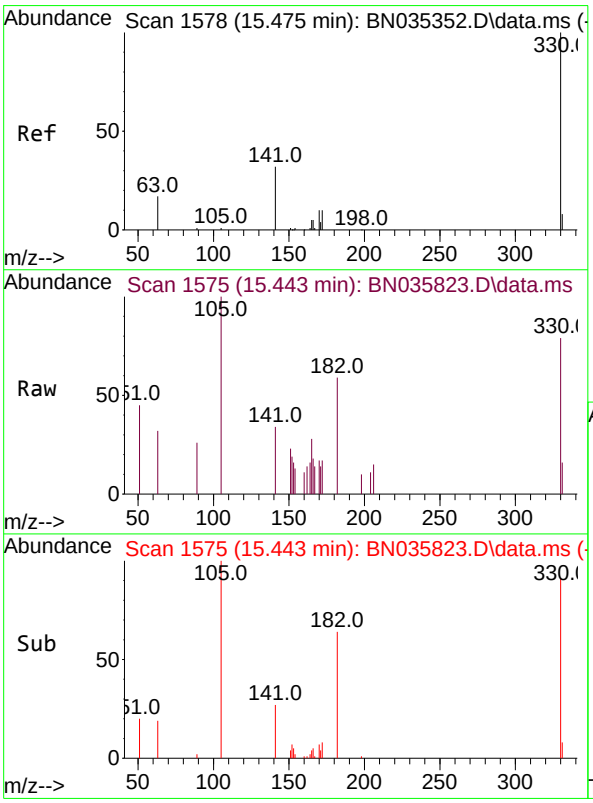
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 102.3 | 82.2 | 123.2 |
| 160 | 50.0 | 40.1 | 60.1 |




**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01D-20241218

**Manual Integrations**
**APPROVED**

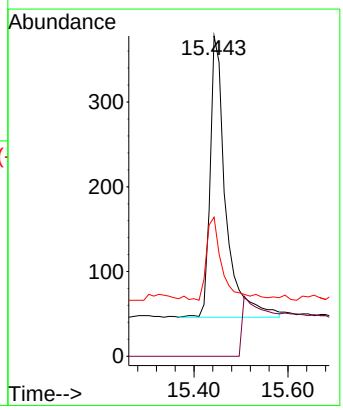
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

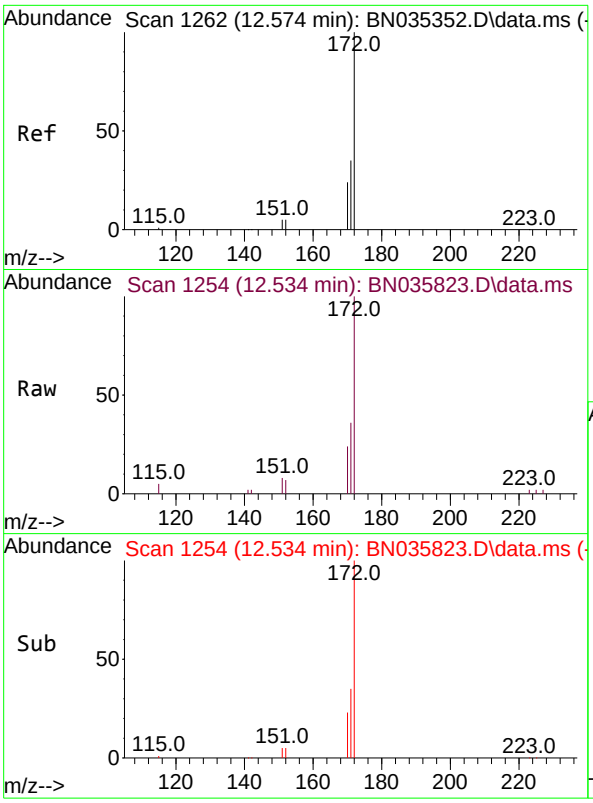



#14
2,4,6-Tribromophenol
Concen: 0.206 ng
RT: 15.443 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

Tgt Ion:330 Resp: 799

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 0.0 | 0.0 | 0.0 |
| 141 | 28.9 | 26.6 | 40.0 |

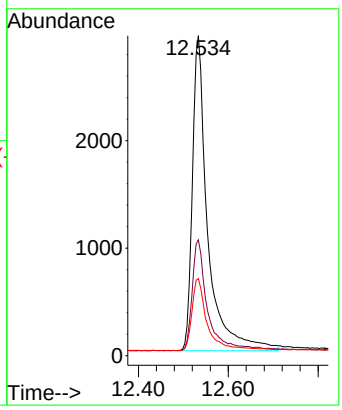





#15
2-Fluorobiphenyl
Concen: 0.336 ng
RT: 12.534 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

Tgt Ion:172 Resp: 693

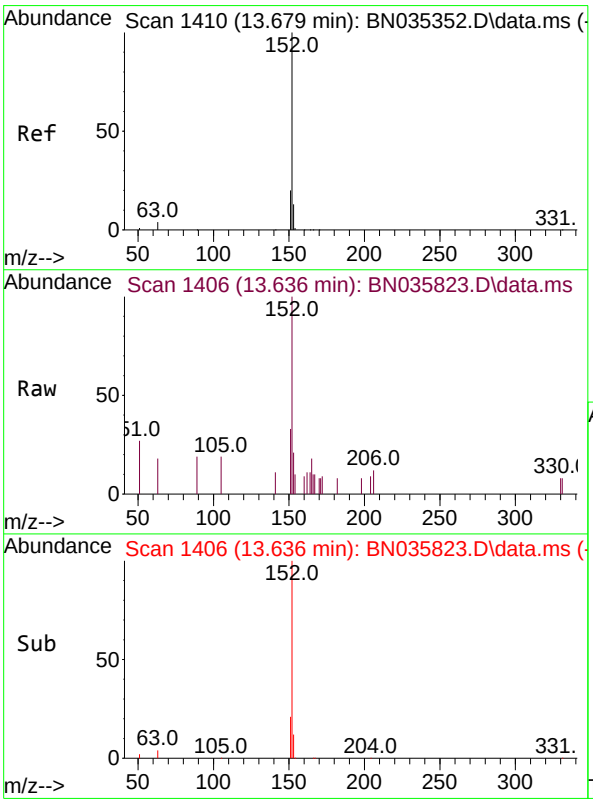
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 36.2 | 29.0 | 43.4 |
| 170 | 24.1 | 19.8 | 29.8 |




**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01D-20241218

**Manual Integrations**
**APPROVED**

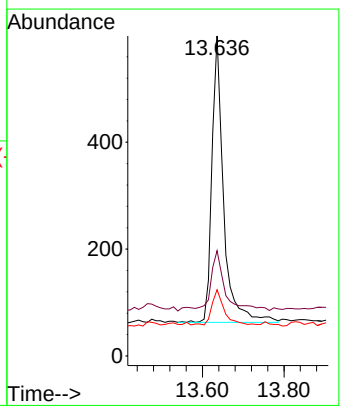
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

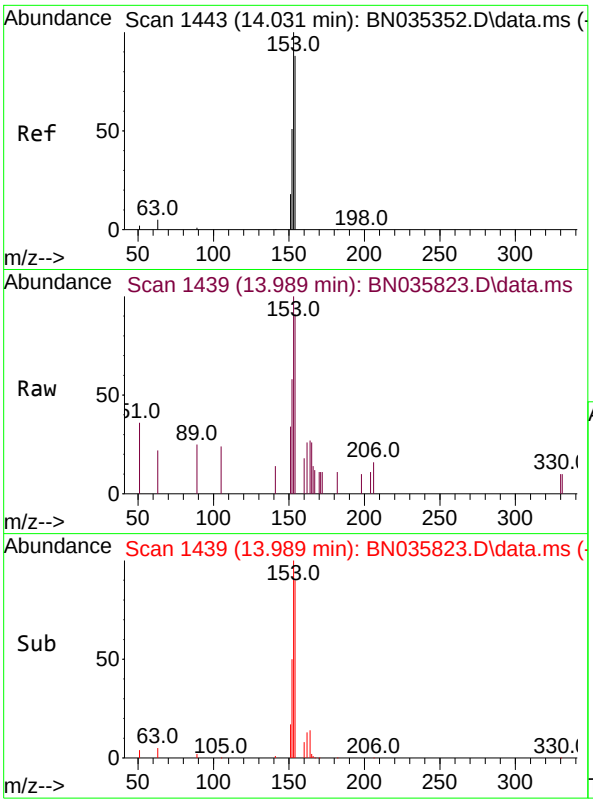



#16
Acenaphthylene
Concen: 0.046 ng
RT: 13.636 min Scan# 1406
Delta R.T. -0.011 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

Tgt Ion:152 Resp: 1063

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 24.4 | 16.2 | 24.2# |
| 153 | 14.4 | 10.4 | 15.6 |

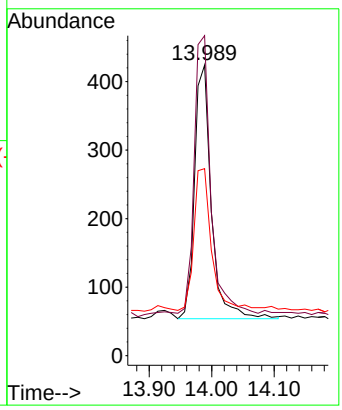





#17
Acenaphthene
Concen: 0.045 ng
RT: 13.989 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

Tgt Ion:154 Resp: 69

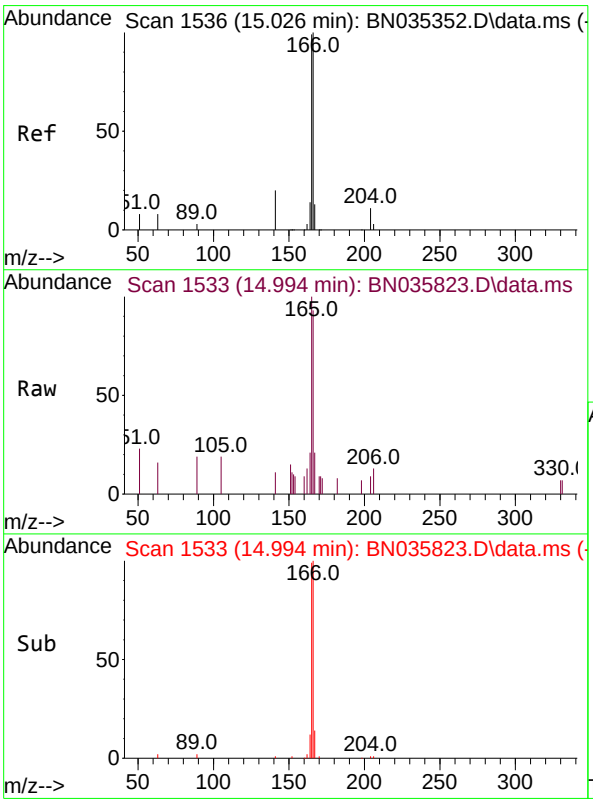
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 115.9 | 92.6 | 139.0 |
| 152 | 58.9 | 49.0 | 73.6 |




**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01D-20241218

**Manual Integrations**
**APPROVED**

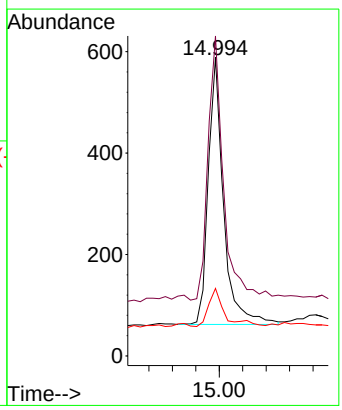
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

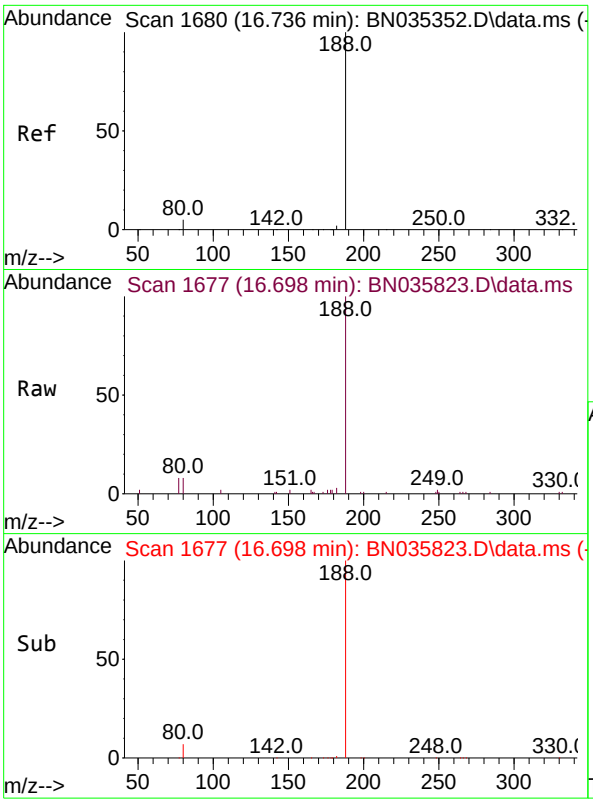



#18
Fluorene
Concen: 0.044 ng
RT: 14.994 min Scan# 1533
Delta R.T. -0.011 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

Tgt Ion:166 Resp: 956

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 103.7 | 79.7 | 119.5 |
| 167 | 14.9 | 10.8 | 16.2 |

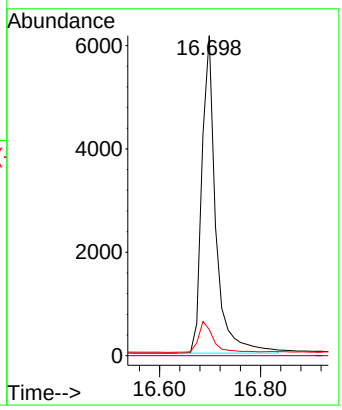





#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

Tgt Ion:188 Resp: 1181(

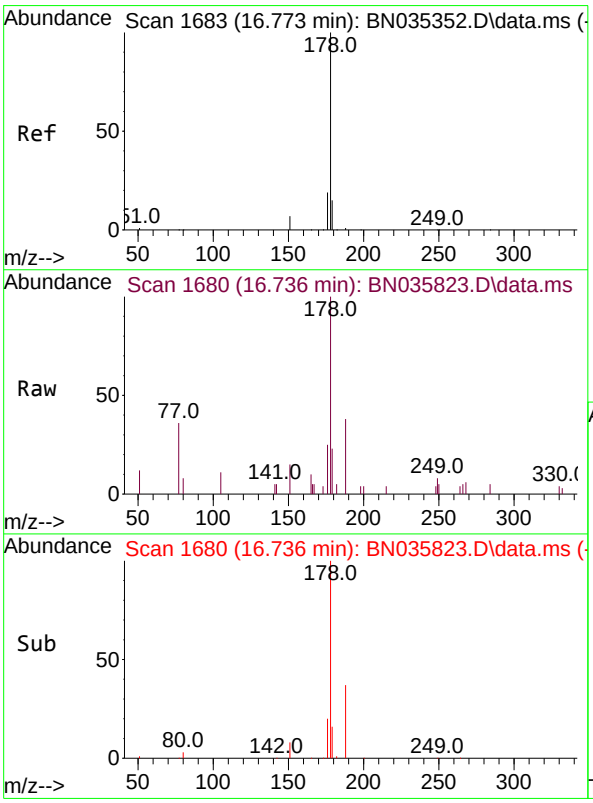
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 8.2 | 4.6 | 6.8# |




**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01D-20241218

**Manual Integrations**
**APPROVED**

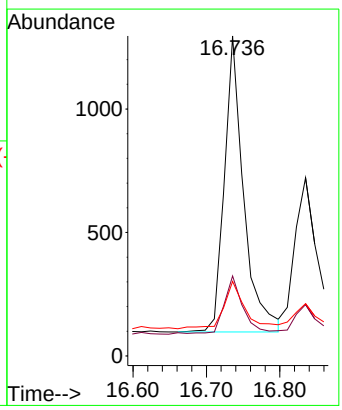
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

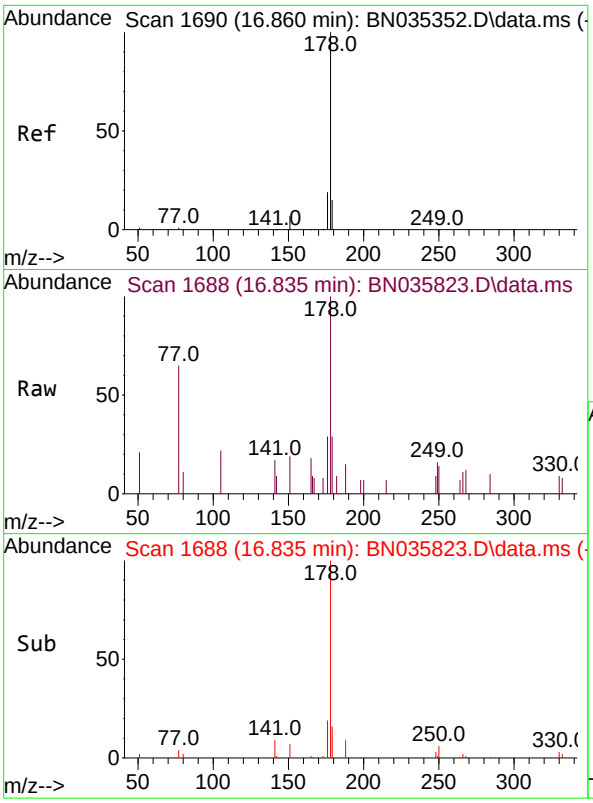



#25
Phenanthrene
Concen: 0.067 ng
RT: 16.736 min Scan# 1680
Delta R.T. -0.012 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

Tgt Ion:178 Resp: 2183

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.7 | 15.4 | 23.2 |
| 179 | 16.8 | 12.3 | 18.5 |

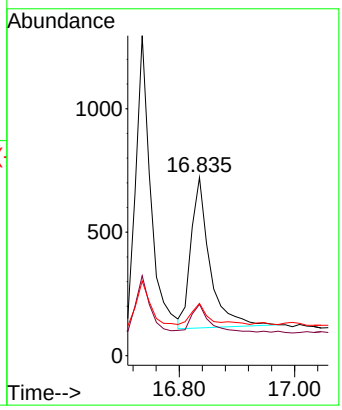





#26
Anthracene
Concen: 0.047 ng
RT: 16.835 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

Tgt Ion:178 Resp: 138

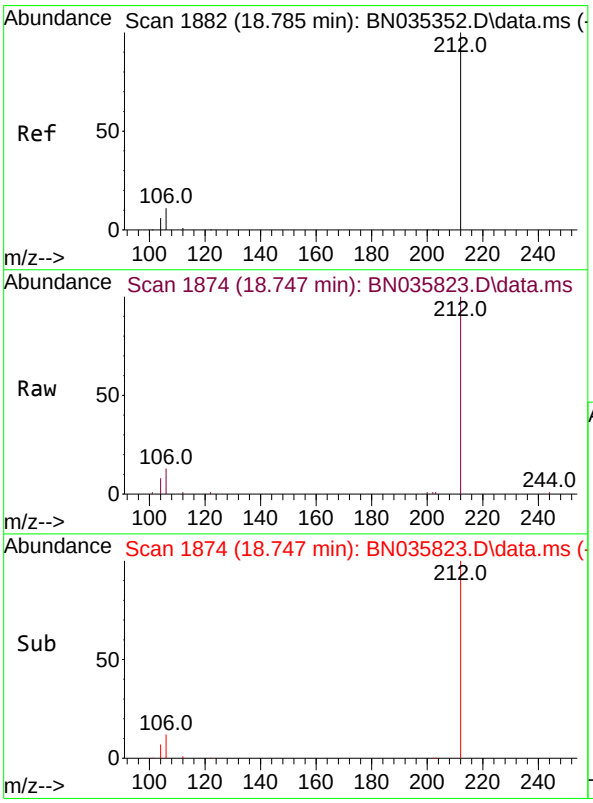
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.0 | 15.0 | 22.6 |
| 179 | 14.6 | 12.6 | 18.8 |




**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01D-20241218

**Manual Integrations**
**APPROVED**

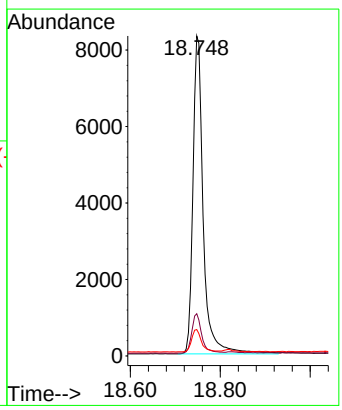
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

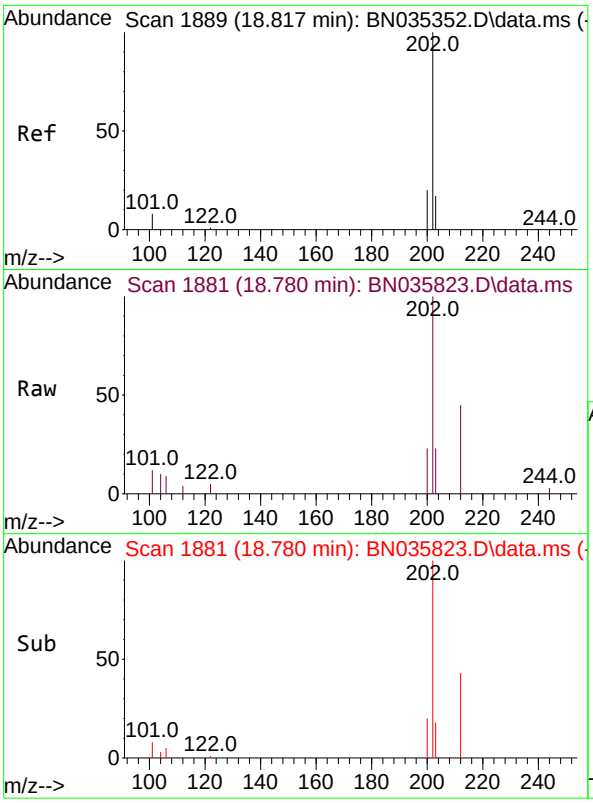



#27
Fluoranthene-d10
Concen: 0.397 ng
RT: 18.747 min Scan# 1874
Delta R.T. -0.014 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

Tgt Ion:212 Resp: 13295

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 12.1 | 9.2 | 13.8 |
| 104 | 6.7 | 5.3 | 7.9 |






#28
Fluoranthene
Concen: 0.051 ng
RT: 18.780 min Scan# 1
Delta R.T. -0.009 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

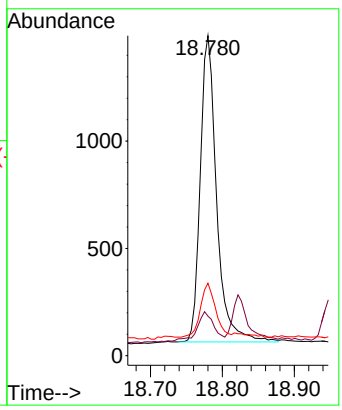
Tgt Ion:202 Resp: 225

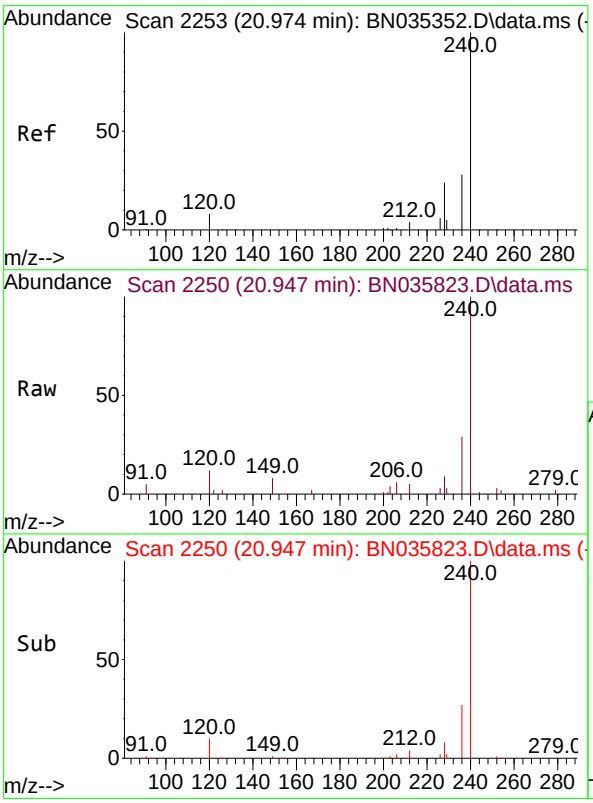
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 11.8 | 7.4 | 11.0# |
| 203 | 16.3 | 13.7 | 20.5 |

**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01D-20241218

**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

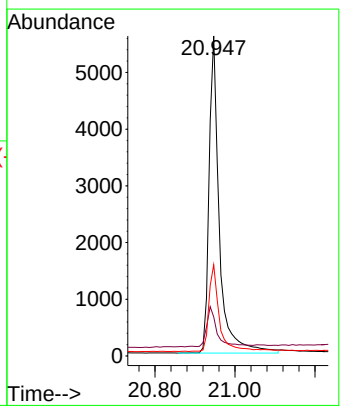


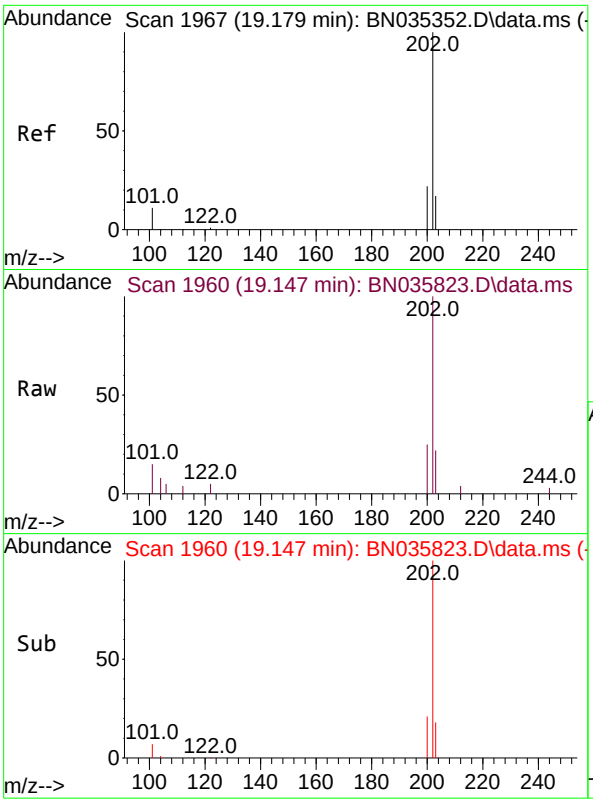




#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2250
Delta R.T. -0.009 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

Tgt Ion:240 Resp: 9968

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 12.2 | 7.9 | 11.9# |
| 236 | 28.5 | 22.9 | 34.3 |

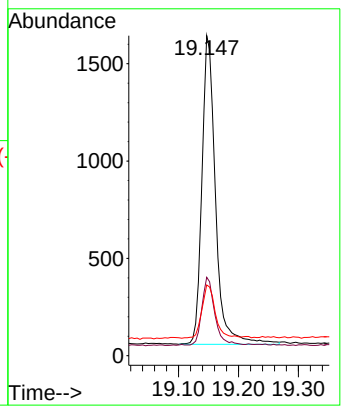





#30
Pyrene
Concen: 0.068 ng
RT: 19.147 min Scan# 1
Delta R.T. -0.014 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

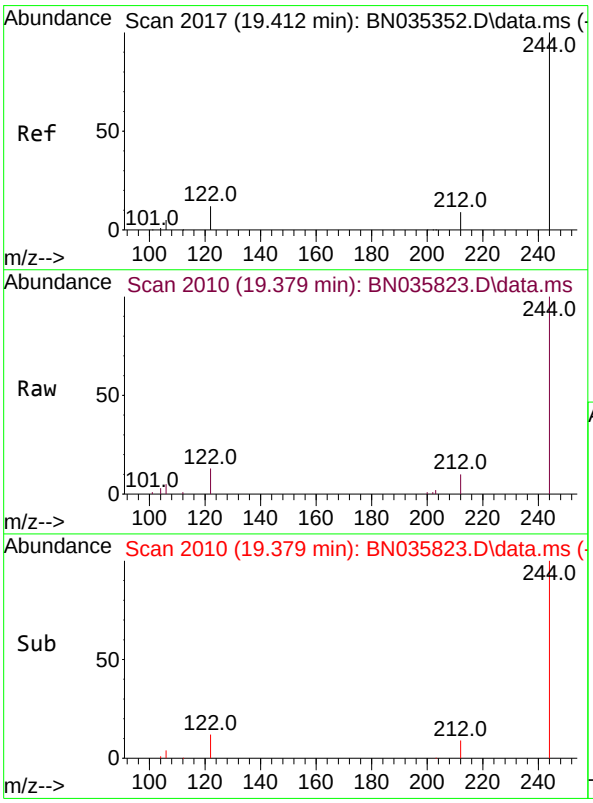
Tgt Ion:202 Resp: 250

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 20.4 | 17.0 | 25.4 |
| 203 | 17.0 | 14.3 | 21.5 |




**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01D-20241218

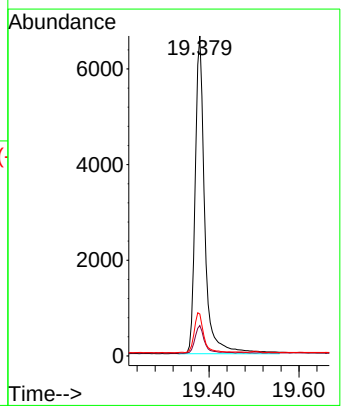
**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

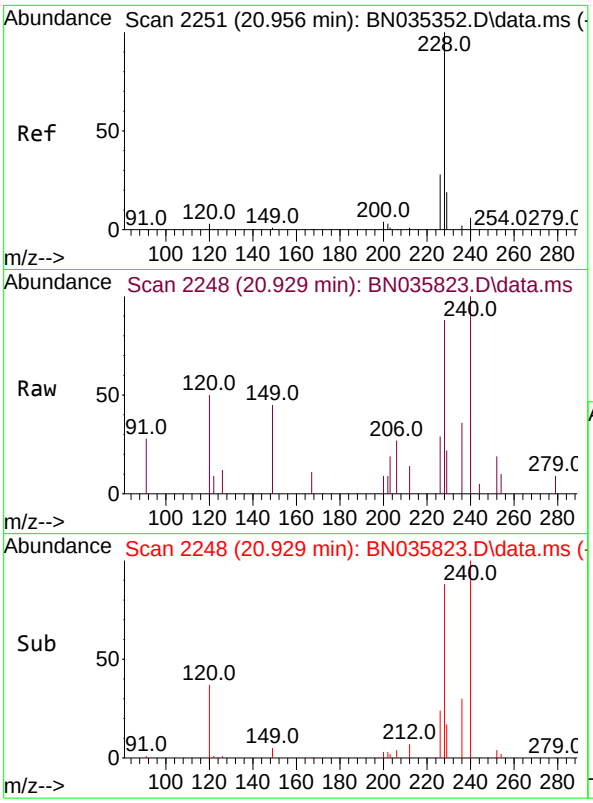



#31
Terphenyl-d14
Concen: 0.502 ng
RT: 19.379 min Scan# 2010
Delta R.T. -0.009 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

Tgt Ion:244 Resp: 9869

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 9.5 | 8.1 | 12.1 |
| 122 | 13.1 | 10.3 | 15.5 |

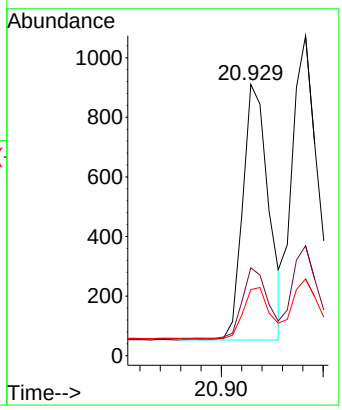





#32
Benzo(a)anthracene
Concen: 0.043 ng
RT: 20.929 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

Tgt Ion:228 Resp: 150

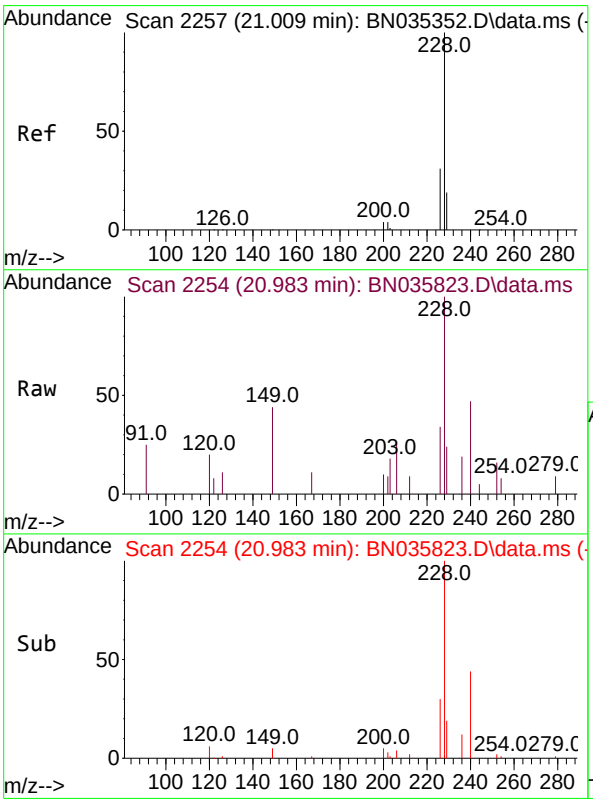
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 32.4 | 22.5 | 33.7 |
| 229 | 24.4 | 15.8 | 23.8# |




**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01D-20241218

**Manual Integrations**
**APPROVED**

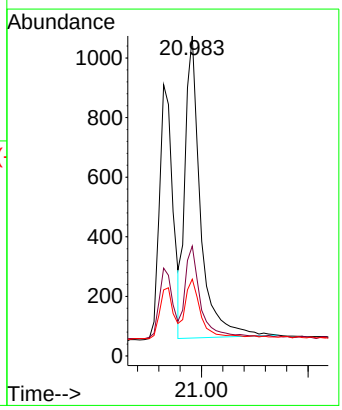
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

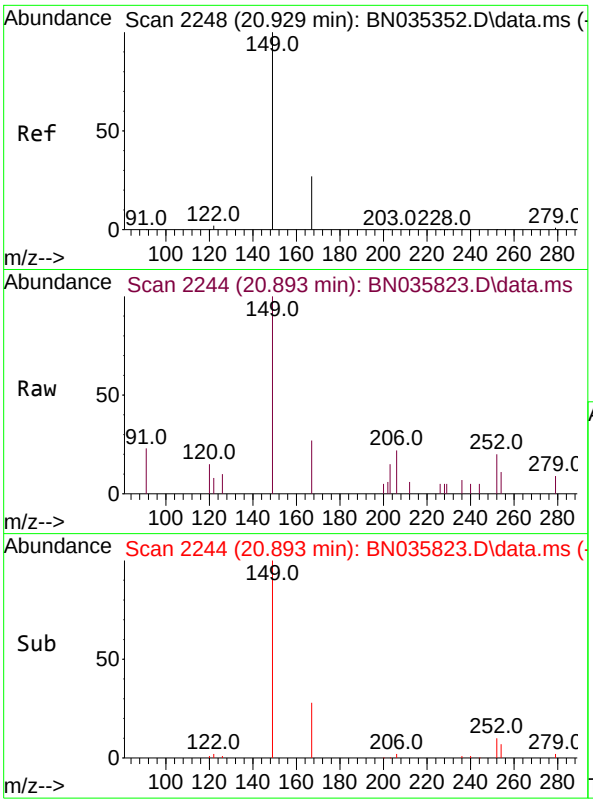



#33
Chrysene
Concen: 0.056 ng
RT: 20.983 min Scan# 2254
Delta R.T. -0.009 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

Tgt Ion:228 Resp: 2026

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 34.4 | 24.6 | 37.0 |
| 229 | 24.0 | 15.9 | 23.9# |






#34
Bis(2-ethylhexyl)phthalate
Concen: 0.077 ng
RT: 20.893 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

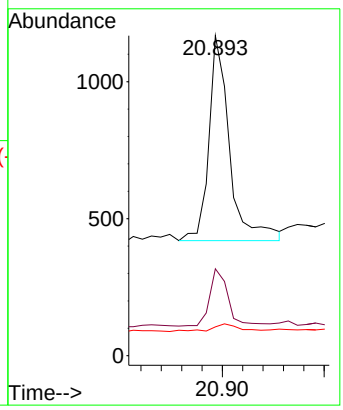
Tgt Ion:149 Resp: 105

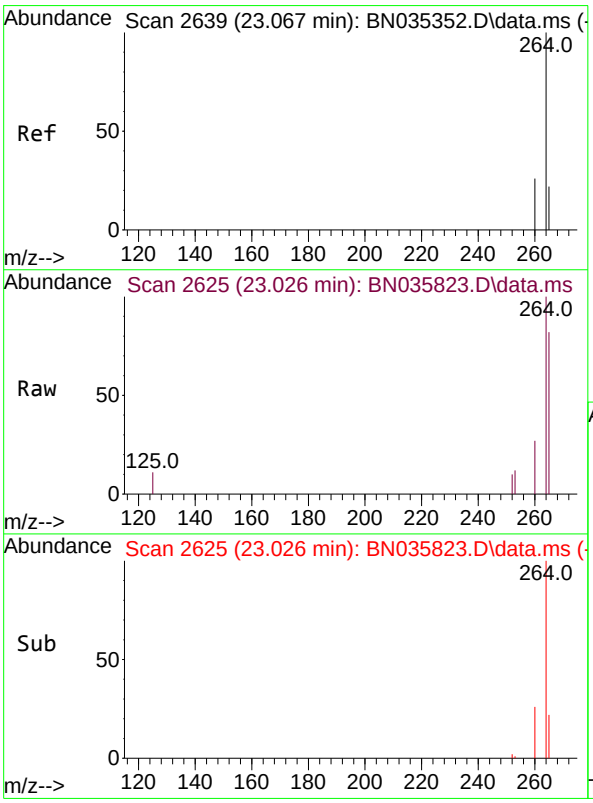
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 24.9 | 22.2 | 33.4 |
| 279 | 5.1 | 2.7 | 4.1# |

**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01D-20241218

**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

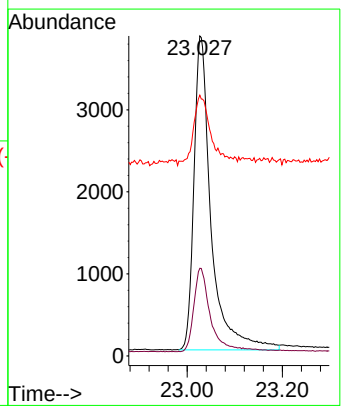


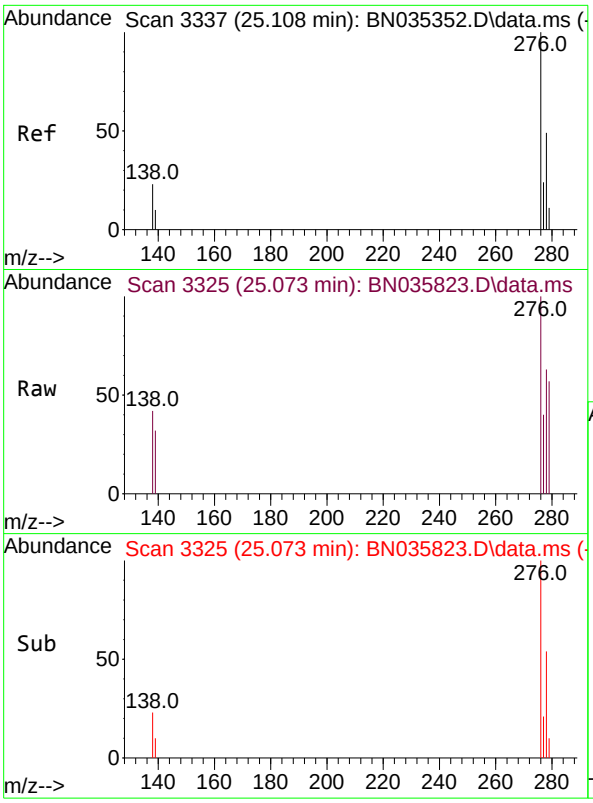




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.026 min Scan# 2625
Delta R.T. -0.015 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

Tgt Ion:264 Resp: 9568

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 27.4 | 21.4 | 32.2 |
| 265 | 81.5 | 40.2 | 60.4# |

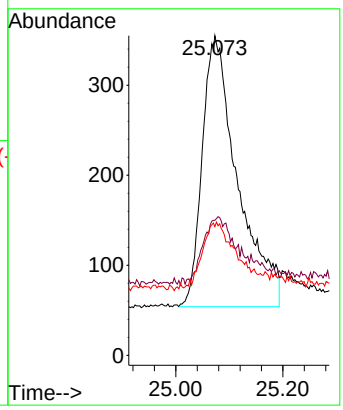





#36
Indeno(1,2,3-cd)pyrene
Concen: 0.037 ng
RT: 25.073 min Scan# 3
Delta R.T. 0.006 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

Tgt Ion:276 Resp: 138

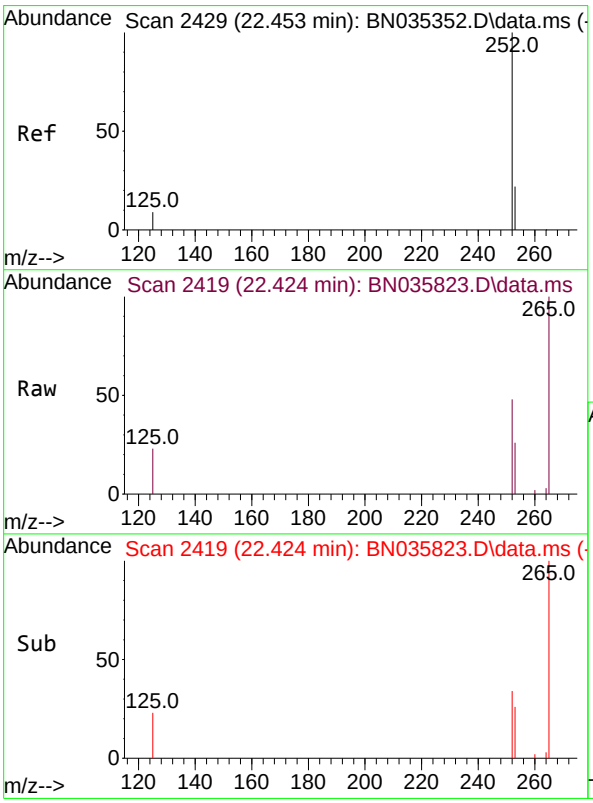
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 22.6 | 19.4 | 29.0 |
| 277 | 8.7 | 19.8 | 29.6# |




**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01D-20241218

**Manual Integrations APPROVED**

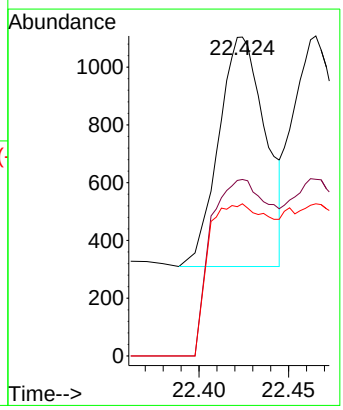
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

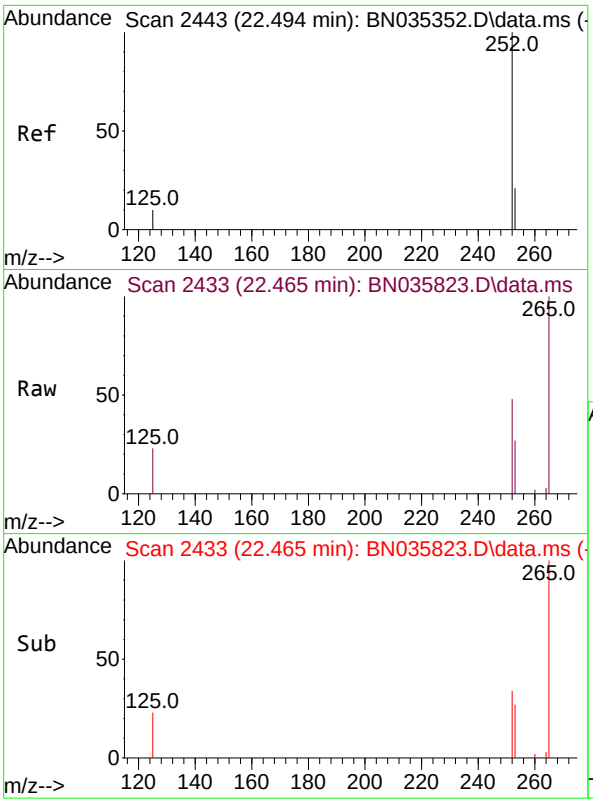



#37
Benzo(b)fluoranthene
Concen: 0.050 ng
RT: 22.424 min Scan# 2419
Delta R.T. -0.006 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

Tgt Ion:252 Resp: 1754

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 55.3 | 19.6 | 29.4# |
| 125 | 47.7 | 9.6 | 14.4# |

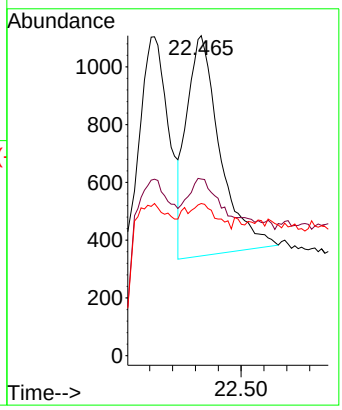





#38
Benzo(k)fluoranthene
Concen: 0.045 ng
RT: 22.465 min Scan# 24
Delta R.T. -0.006 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

Tgt Ion:252 Resp: 155

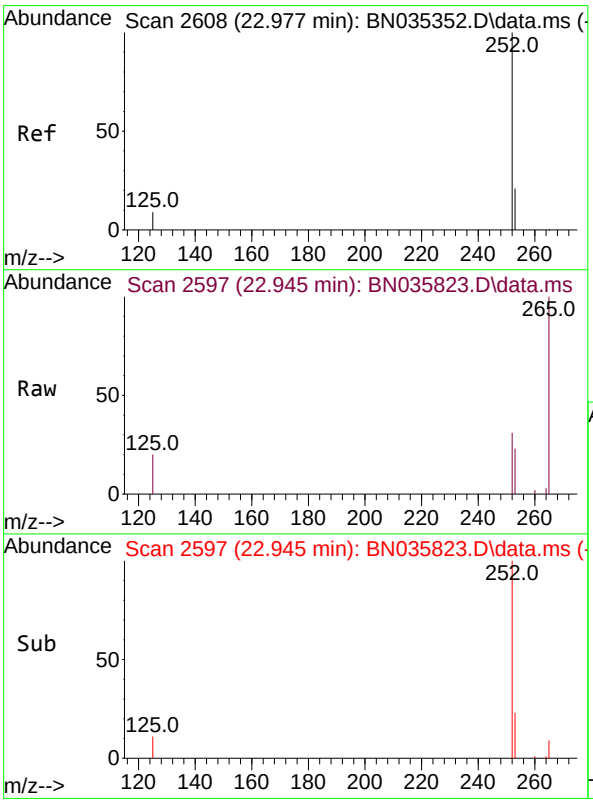
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 55.2 | 19.5 | 29.3# |
| 125 | 47.6 | 10.2 | 15.4# |




**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01D-20241218

**Manual Integrations**
**APPROVED**

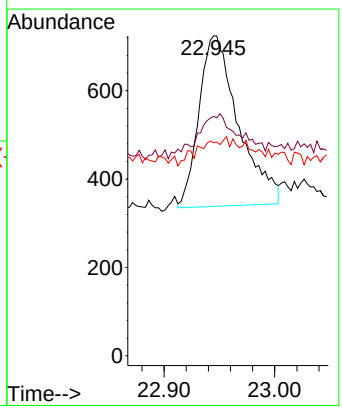
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

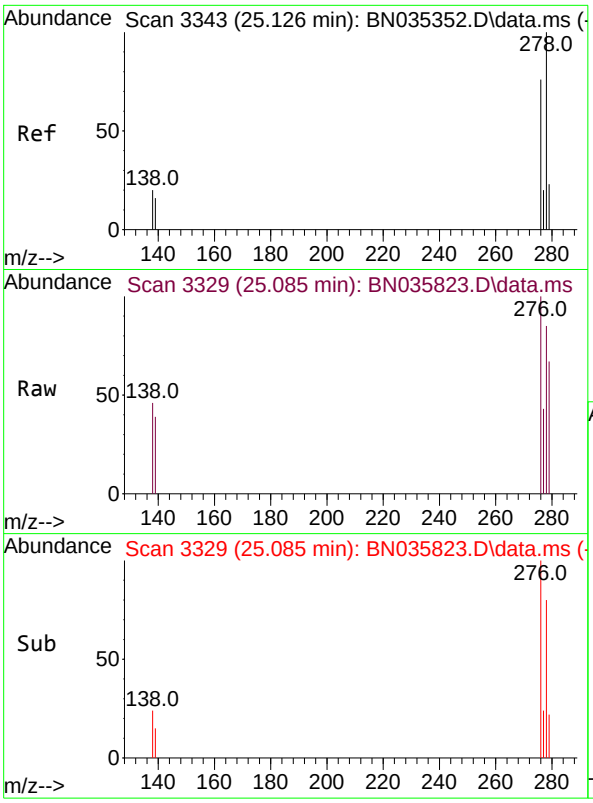



#39
Benzo(a)pyrene
Concen: 0.033 ng
RT: 22.945 min Scan# 2597
Delta R.T. -0.006 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

Tgt Ion:252 Resp: 959

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 74.9 | 20.2 | 30.4# |
| 125 | 66.7 | 10.9 | 16.3# |

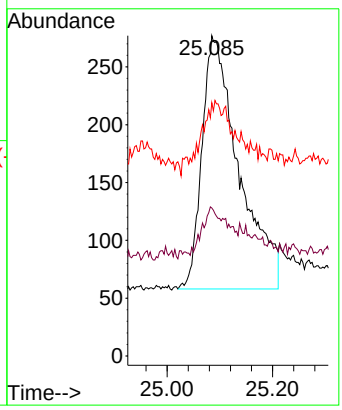





#40
Dibenzo(a,h)anthracene
Concen: 0.036 ng
RT: 25.085 min Scan# 3
Delta R.T. 0.003 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

Tgt Ion:278 Resp: 106

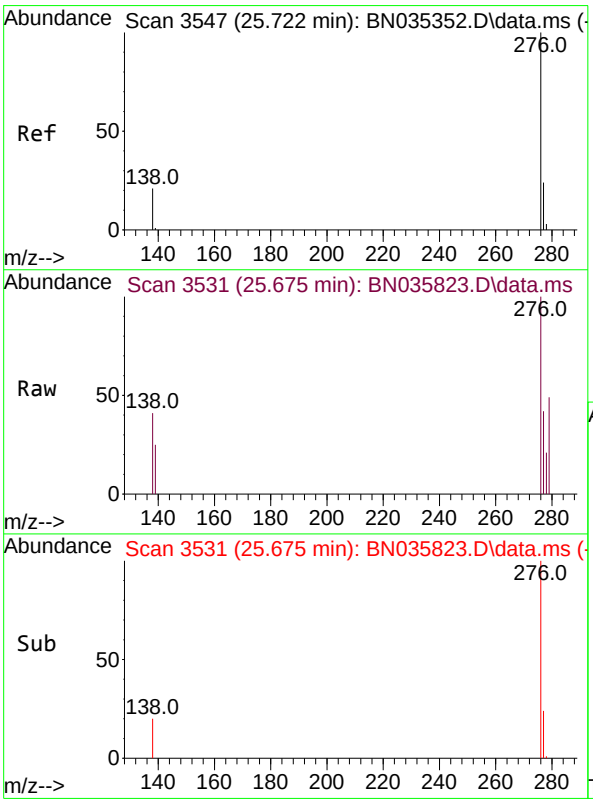
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 46.2 | 14.2 | 21.4# |
| 279 | 79.1 | 20.5 | 30.7# |




**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01D-20241218

**Manual Integrations**
**APPROVED**

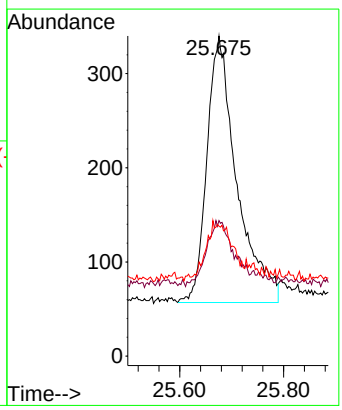
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024




#41
Benzo(g,h,i)perylene
Concen: 0.037 ng
RT: 25.675 min Scan# 3531
Delta R.T. -0.003 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

Tgt Ion:276 Resp: 1130

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 42.4 | 19.9 | 29.9# |
| 138 | 40.6 | 17.8 | 26.8# |



Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | AECOM Technical Services, Inc. | Date Collected: | 12/18/24 |
| Project: | NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258 | Date Received: | 12/20/24 |
| Client Sample ID: | RW10A-MW01S-20241218 | SDG No.: | P5376 |
| Lab Sample ID: | P5376-11 | Matrix: | Water |
| Analytical Method: | SW8270ESIM | % Solid: | 0 |
| Sample Wt/Vol: | 970 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-SIMGroup1 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BN035824.D | 1 | 12/23/24 13:29 | 12/24/24 16:42 | PB165828 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 123-91-1 | 1,4-Dioxane | 0.15 | J | 0.070 | 0.21 | 0.21 | ug/L |
| **SURROGATES** | | | | | | | |
| 7297-45-2 | 2-Methylnaphthalene-d10 | 0.34 | | 30 - 150 | | 85% | SPK: 0.4 |
| 93951-69-0 | Fluoranthene-d10 | 0.40 | | 30 - 150 | | 100% | SPK: 0.4 |
| 4165-60-0 | Nitrobenzene-d5 | 0.37 | | 55 - 111 | | 93% | SPK: 0.4 |
| 321-60-8 | 2-Fluorobiphenyl | 0.35 | | 53 - 106 | | 86% | SPK: 0.4 |
| 1718-51-0 | Terphenyl-d14 | 0.52 | | 58 - 132 | | 130% | SPK: 0.4 |
| **INTERNAL STANDARDS** | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 3540 | 7.257 | | | | |
| 1146-65-2 | Naphthalene-d8 | 8580 | 10.009 | | | | |
| 15067-26-2 | Acenaphthene-d10 | 5530 | 13.925 | | | | |
| 1517-22-2 | Phenanthrene-d10 | 11300 | 16.698 | | | | |
| 1719-03-5 | Chrysene-d12 | 9270 | 20.947 | | | | |
| 1520-96-3 | Perylene-d12 | 9120 | 23.029 | | | | |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035824.D
Acq On : 24 Dec 2024 16:42
Operator : RC/JU
Sample : P5376-11
Misc :
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Dec 24 23:19:48 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

**Instrument :**
BNA_N
**ClientSampleId :**
RW10A-MW01S-20241218

**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.257 | 152 | 3542 | 0.400 | ng | -0.01 |
| 7) Naphthalene-d8 | 10.009 | 136 | 8575 | 0.400 | ng | #-0.01 |
| 13) Acenaphthene-d10 | 13.925 | 164 | 5533 | 0.400 | ng | -0.01 |
| 19) Phenanthrene-d10 | 16.698 | 188 | 11307 | 0.400 | ng | # 0.00 |
| 29) Chrysene-d12 | 20.947 | 240 | 9270 | 0.400 | ng | 0.00 |
| 35) Perylene-d12 | 23.029 | 264 | 9119 | 0.400 | ng | #-0.01 |
| **System Monitoring Compounds** | | | | | | |
| 4) 2-Fluorophenol | 4.924 | 112 | 827 | 0.093 | ng | -0.01 |
| 5) Phenol-d6 | 6.477 | 99 | 397 | 0.037 | ng | -0.01 |
| 8) Nitrobenzene-d5 | 8.397 | 82 | 1948m | 0.372 | ng | -0.01 |
| 11) 2-Methylnaphthalene-d10 | 11.611 | 152 | 4576 | 0.341 | ng | -0.01 |
| 14) 2,4,6-Tribromophenol | 15.443 | 330 | 766 | 0.195 | ng | -0.01 |
| 15) 2-Fluorobiphenyl | 12.528 | 172 | 7209 | 0.345 | ng | -0.02 |
| 27) Fluoranthene-d10 | 18.747 | 212 | 12883 | 0.402 | ng | -0.01 |
| 31) Terphenyl-d14 | 19.379 | 244 | 9501 | 0.520 | ng | 0.00 |
| **Target Compounds** | | | | | | Qvalue |
| 2) 1,4-Dioxane | 2.982 | 88 | 493 | 0.146 | ng | # 73 |
| 9) Naphthalene | 10.052 | 128 | 803 | 0.036 | ng | # 72 |
| 12) 2-Methylnaphthalene | 11.687 | 142 | 502 | 0.031 | ng | # 79 |
| 16) Acenaphthylene | 13.636 | 152 | 877 | 0.038 | ng | 96 |
| 17) Acenaphthene | 13.978 | 154 | 539 | 0.035 | ng | 98 |
| 18) Fluorene | 14.994 | 166 | 778 | 0.035 | ng | 96 |
| 25) Phenanthrene | 16.736 | 178 | 1755 | 0.057 | ng | 100 |
| 26) Anthracene | 16.835 | 178 | 1113 | 0.040 | ng | 97 |
| 28) Fluoranthene | 18.780 | 202 | 1804 | 0.043 | ng | # 97 |
| 30) Pyrene | 19.147 | 202 | 1807 | 0.053 | ng | 99 |
| 32) Benzo(a)anthracene | 20.929 | 228 | 1100 | 0.034 | ng | # 87 |
| 33) Chrysene | 20.983 | 228 | 1514 | 0.045 | ng | # 91 |
| 34) Bis(2-ethylhexyl)phtha... | 20.893 | 149 | 988 | 0.077 | ng | # 97 |
| 36) Indeno(1,2,3-cd)pyrene | 25.073 | 276 | 1031m | 0.029 | ng | |
| 37) Benzo(b)fluoranthene | 22.424 | 252 | 1409 | 0.042 | ng | # 22 |
| 38) Benzo(k)fluoranthene | 22.465 | 252 | 1028 | 0.031 | ng | # 18 |
| 39) Benzo(a)pyrene | 22.945 | 252 | 820 | 0.030 | ng | # 1 |
| 40) Dibenzo(a,h)anthracene | 25.096 | 278 | 685 | 0.024 | ng | # 1 |
| 41) Benzo(g,h,i)perylene | 25.675 | 276 | 816 | 0.028 | ng | # 50 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

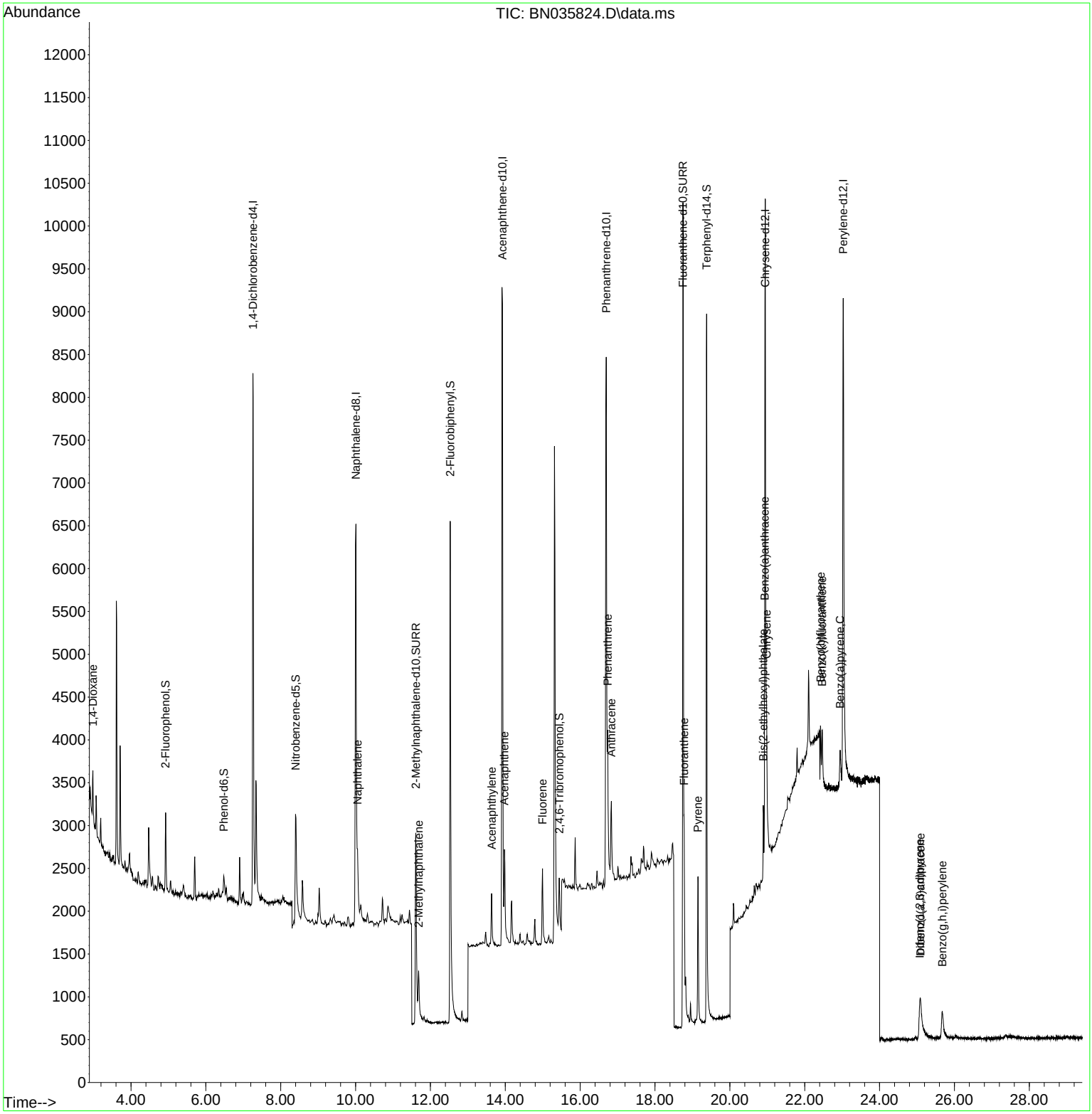
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035824.D
Acq On : 24 Dec 2024 16:42
Operator : RC/JU
Sample : P5376-11
Misc :
ALS Vial : 15 Sample Multiplier: 1

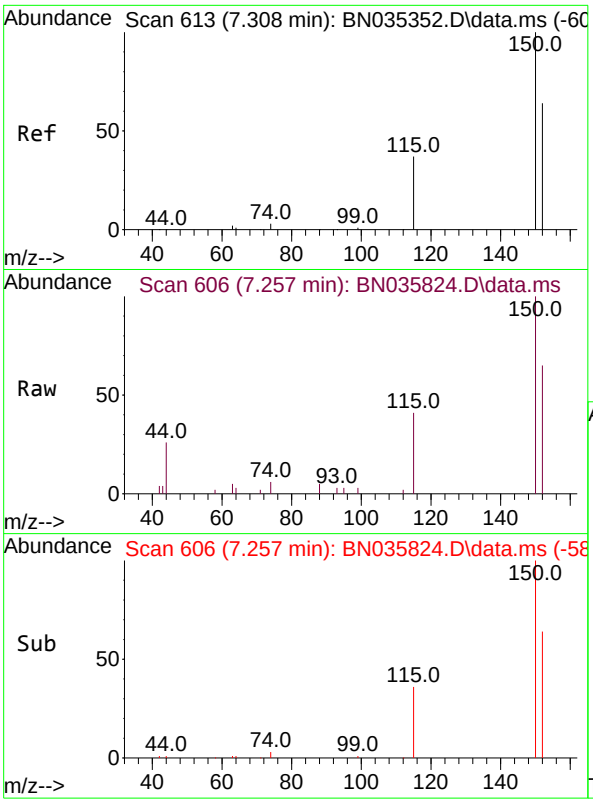
Quant Time: Dec 24 23:19:48 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

**Instrument :**
BNA_N
**ClientSampleId :**
RW10A-MW01S-20241218

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

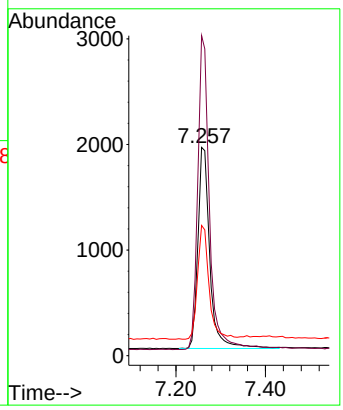





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 6(
Delta R.T. -0.015 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

Tgt Ion:152 Resp: 354

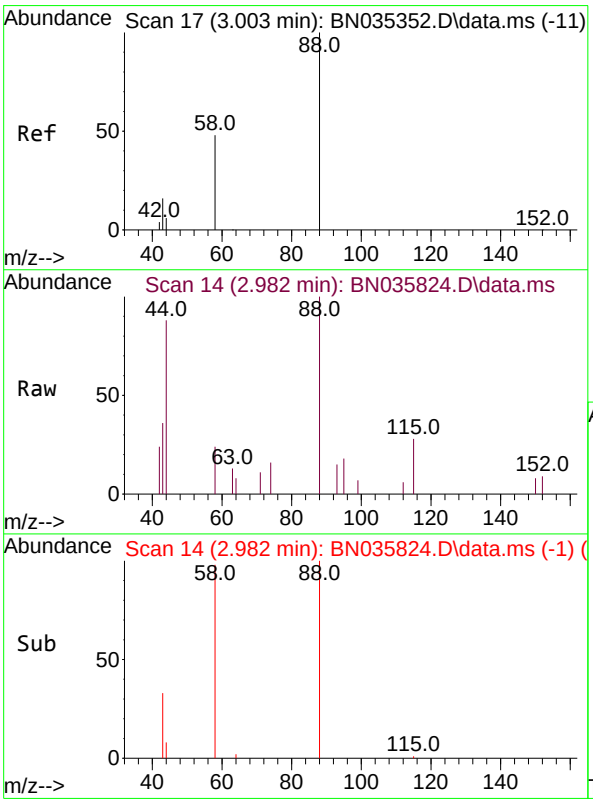
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 153.6 | 124.0 | 186.0 |
| 115 | 62.5 | 49.6 | 74.4 |




**Instrument :**
BNA_N
**ClientSampleId :**
RW10A-MW01S-20241218

**Manual Integrations**
**APPROVED**

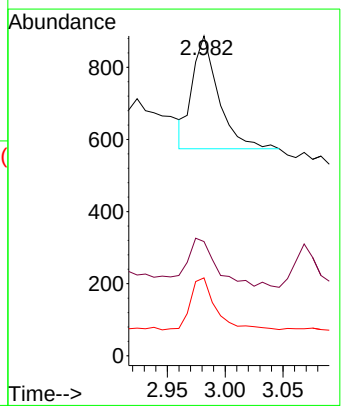
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

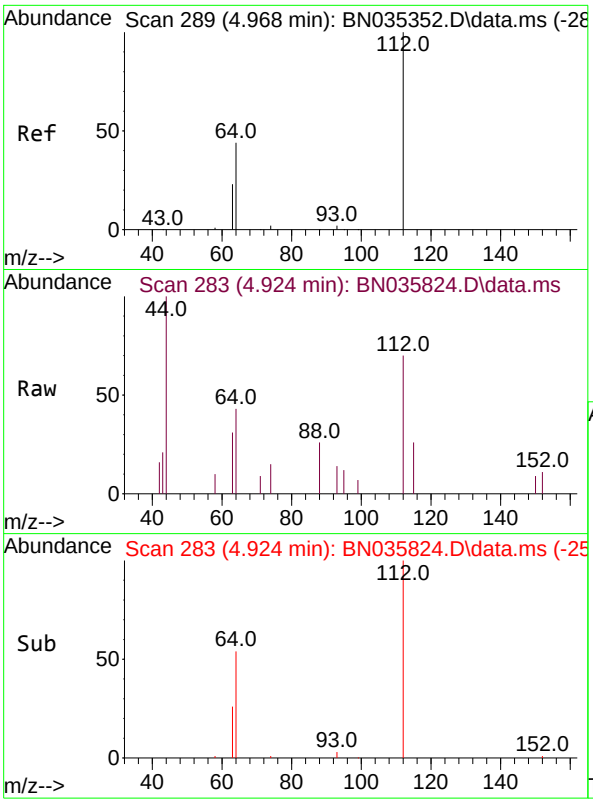



#2
1,4-Dioxane
Concen: 0.146 ng
RT: 2.982 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

Tgt Ion: 88 Resp: 493

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 49.5 | 17.2 | 25.8# |
| 58 | 44.6 | 44.5 | 66.7 |






#4
2-Fluorophenol
Concen: 0.093 ng
RT: 4.924 min Scan# 2
Delta R.T. -0.015 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

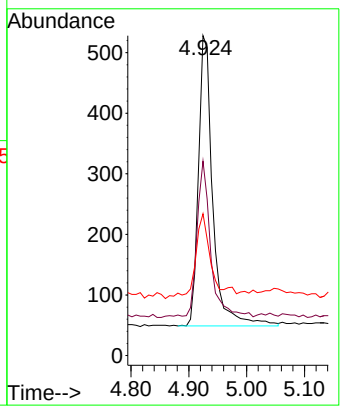
Tgt Ion:112 Resp: 82

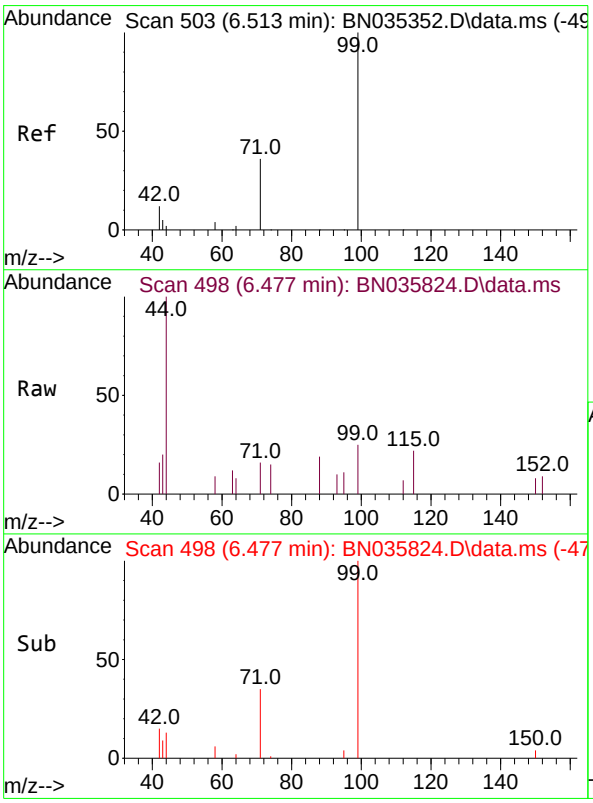
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 51.9 | 39.8 | 59.8 |
| 63 | 29.9 | 21.0 | 31.6 |

**Instrument :**
BNA_N
**ClientSampleId :**
RW10A-MW01S-20241218

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

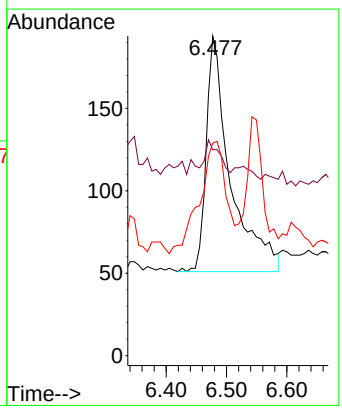


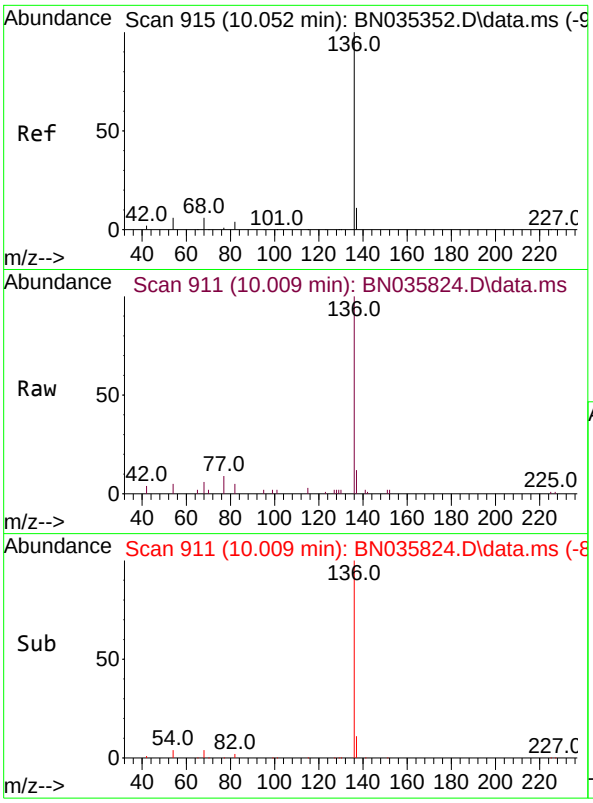




#5
Phenol-d6
Concen: 0.037 ng
RT: 6.477 min Scan# 498
Delta R.T. -0.015 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

Tgt Ion: 99 Resp: 397

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 14.6 | 11.4 | 17.2 |
| 71 | 52.1 | 29.3 | 43.9# |

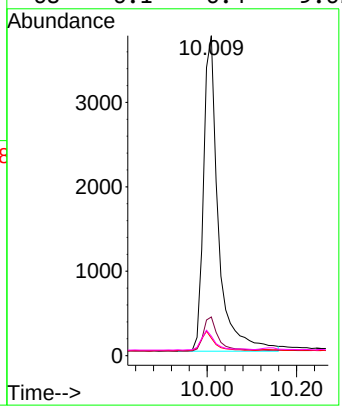





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

Tgt Ion:136 Resp: 857

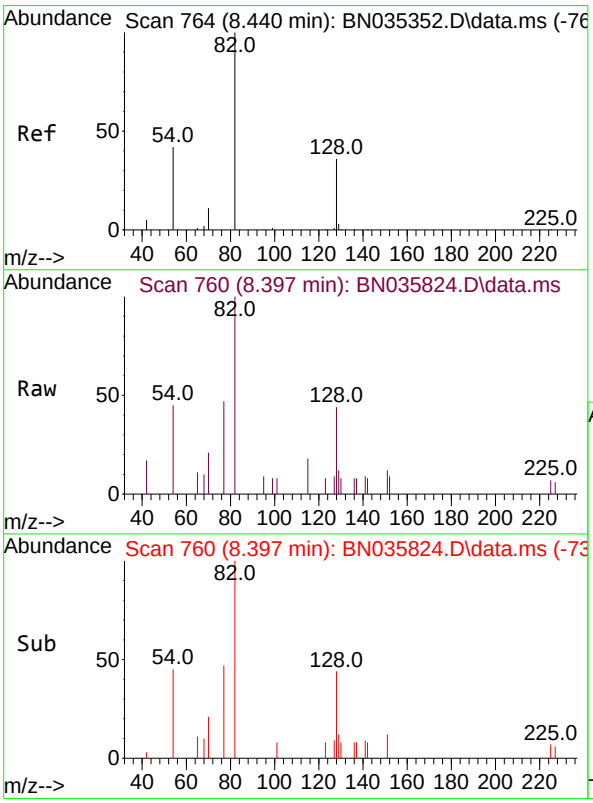
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 12.1 | 10.2 | 15.2 |
| 54 | 5.5 | 6.1 | 9.1# |
| 68 | 6.1 | 6.4 | 9.6# |




**Instrument :**
BNA_N
**ClientSampleId :**
RW10A-MW01S-20241218

**Manual Integrations APPROVED**

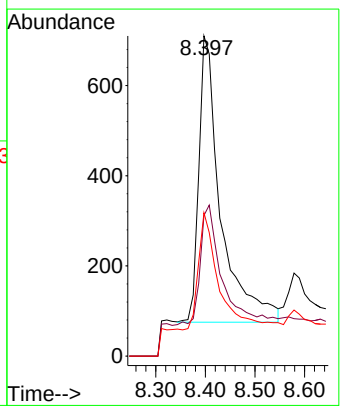
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

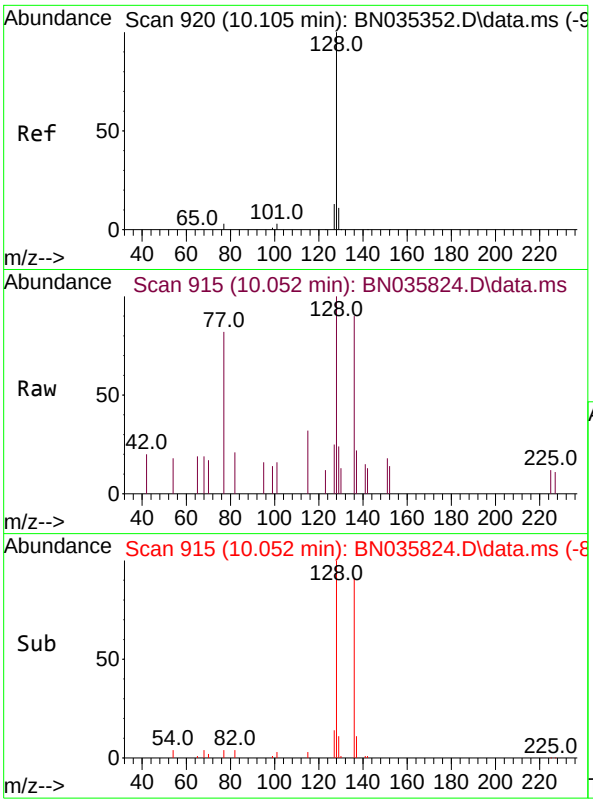



#8
Nitrobenzene-d5
Concen: 0.372 ng m
RT: 8.397 min Scan# 760
Delta R.T. -0.011 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

Tgt Ion: 82 Resp: 1948

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 43.9 | 33.4 | 50.0 |
| 54 | 44.8 | 36.7 | 55.1 |

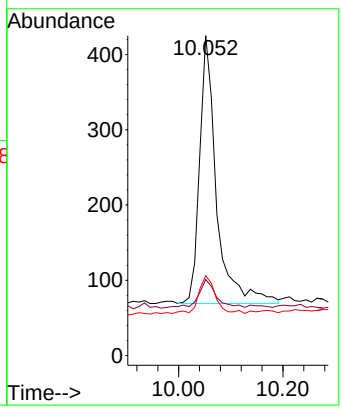





#9
Naphthalene
Concen: 0.036 ng
RT: 10.052 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

Tgt Ion:128 Resp: 80

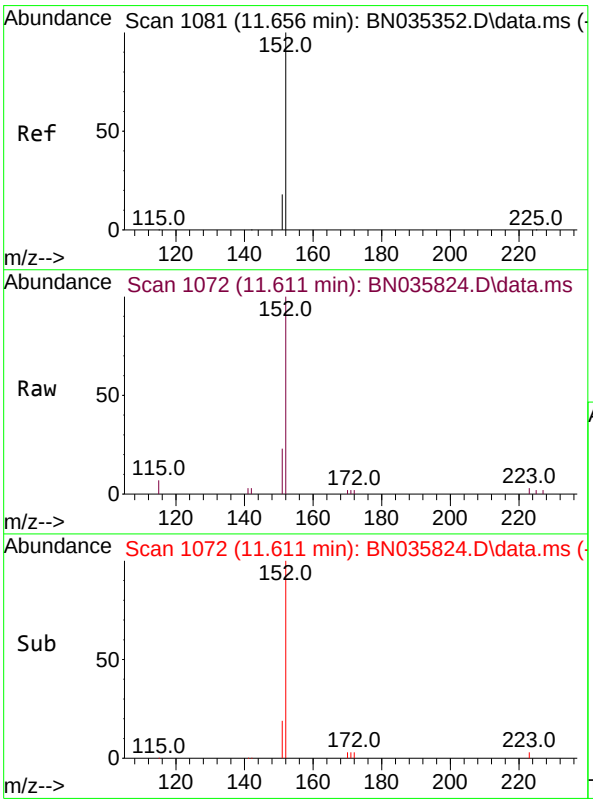
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 23.8 | 9.8 | 14.6# |
| 127 | 24.9 | 11.4 | 17.2# |




**Instrument :**
BNA_N
**ClientSampleId :**
RW10A-MW01S-20241218

**Manual Integrations**
**APPROVED**

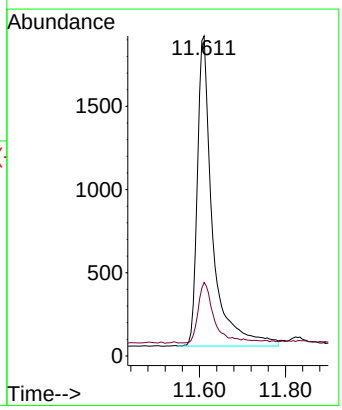
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

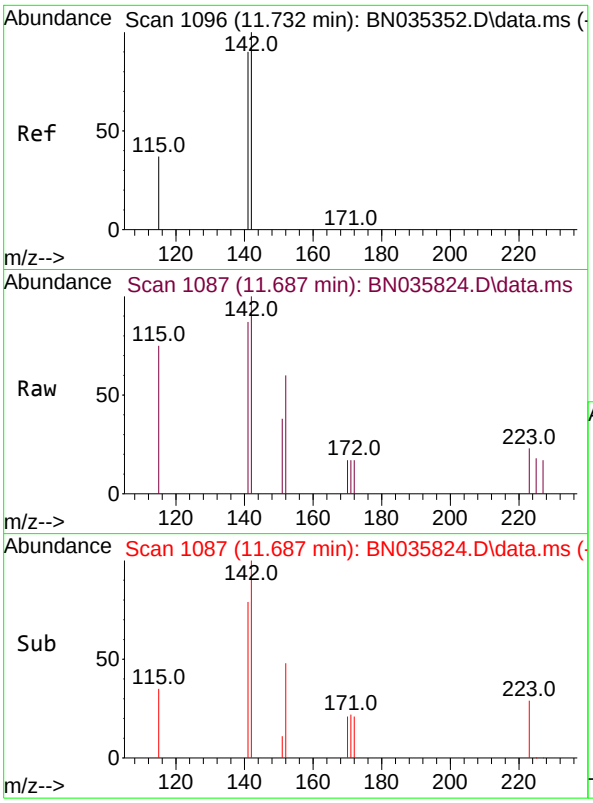



#11
2-Methylnaphthalene-d10
Concen: 0.341 ng
RT: 11.611 min Scan# 1072
Delta R.T. -0.010 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

Tgt Ion:152 Resp: 4576

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 19.6 | 16.6 | 25.0 |

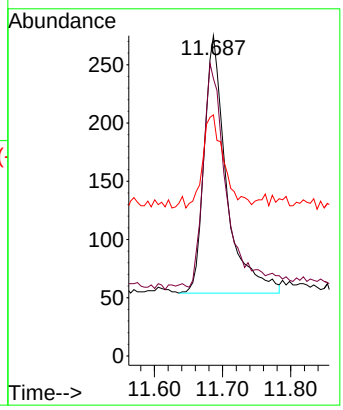





#12
2-Methylnaphthalene
Concen: 0.031 ng
RT: 11.687 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

Tgt Ion:142 Resp: 50

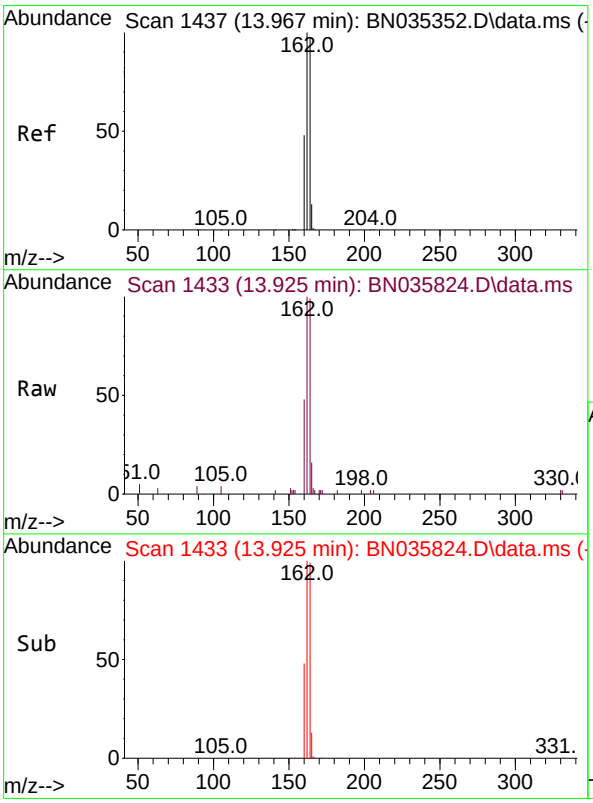
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 86.5 | 72.2 | 108.4 |
| 115 | 75.3 | 31.4 | 47.0# |




**Instrument :**
BNA_N
**ClientSampleId :**
RW10A-MW01S-20241218

**Manual Integrations**
**APPROVED**

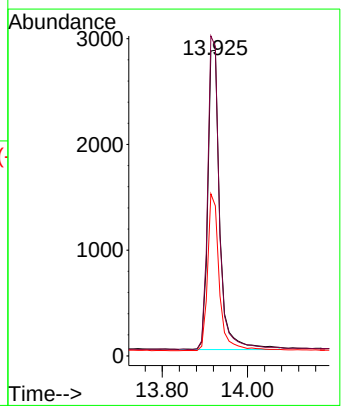
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

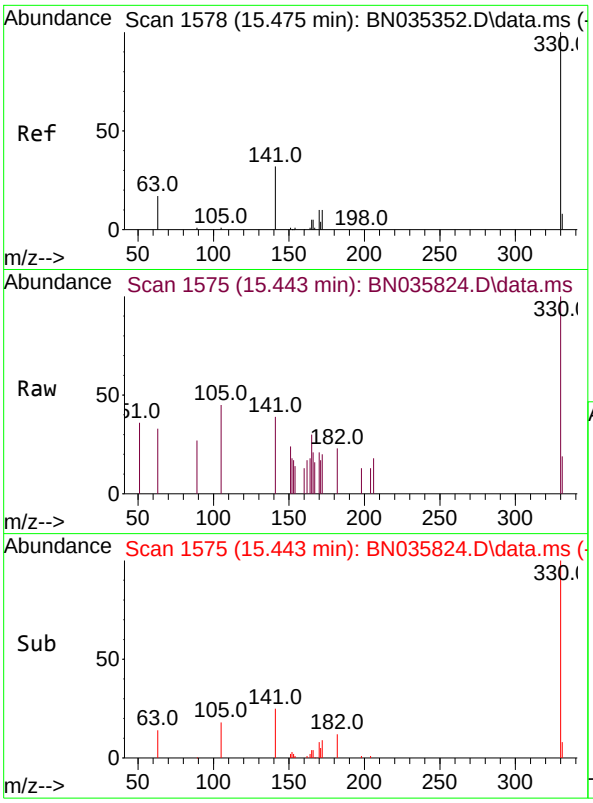



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.925 min Scan# 1433
Delta R.T. -0.011 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

Tgt Ion:164 Resp: 5533

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 101.2 | 82.2 | 123.2 |
| 160 | 49.1 | 40.1 | 60.1 |

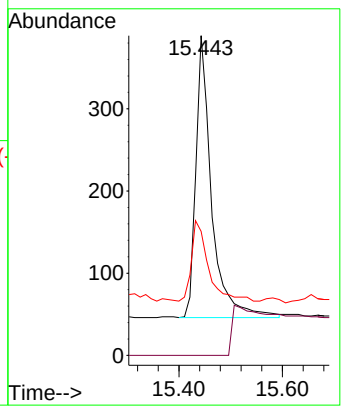





#14
2,4,6-Tribromophenol
Concen: 0.195 ng
RT: 15.443 min Scan# 1
Delta R.T. -0.011 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

Tgt Ion:330 Resp: 76

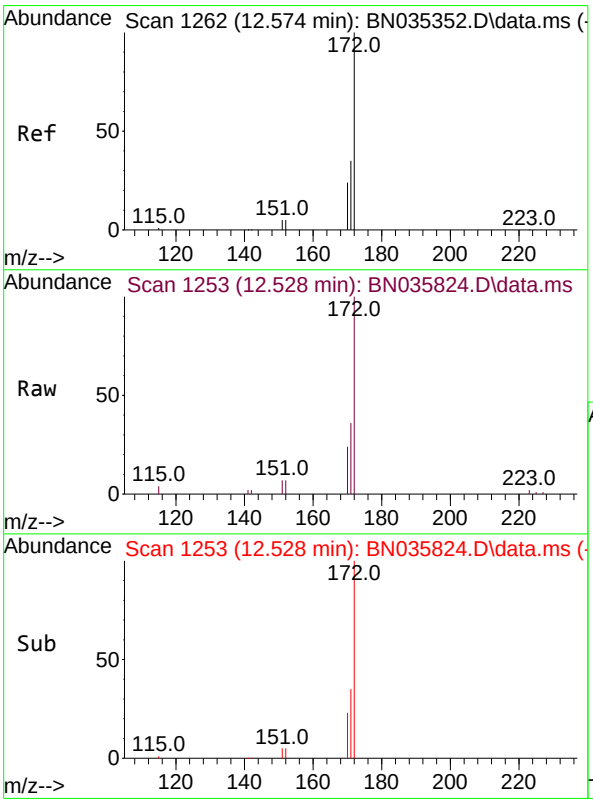
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 0.0 | 0.0 | 0.0 |
| 141 | 29.8 | 26.6 | 40.0 |




**Instrument :**
BNA_N
**ClientSampleId :**
RW10A-MW01S-20241218

**Manual Integrations**
**APPROVED**

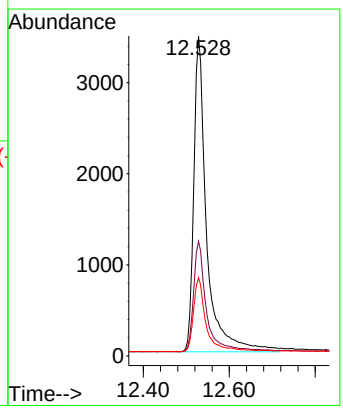
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

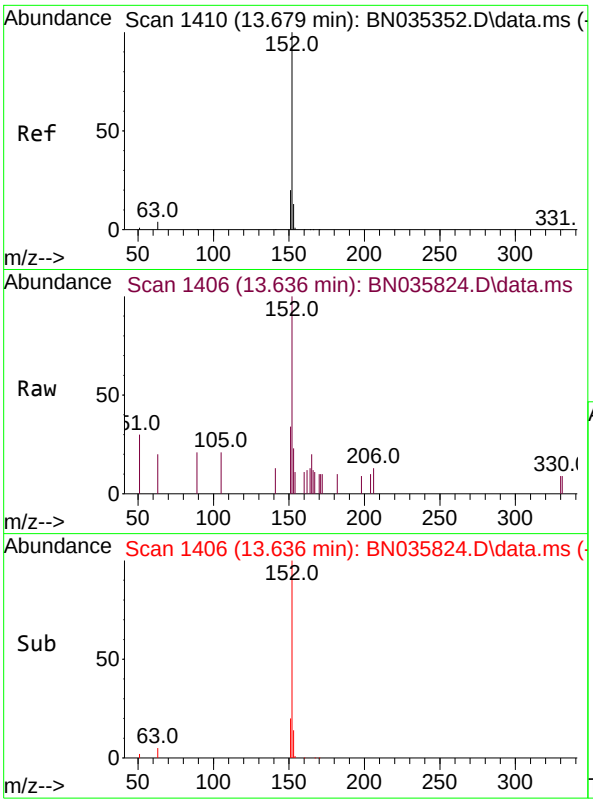



#15
2-Fluorobiphenyl
Concen: 0.345 ng
RT: 12.528 min Scan# 1253
Delta R.T. -0.015 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

Tgt Ion:172 Resp: 7209

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 35.8 | 29.0 | 43.4 |
| 170 | 24.5 | 19.8 | 29.8 |

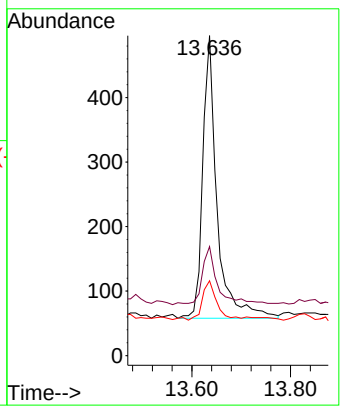





#16
Acenaphthylene
Concen: 0.038 ng
RT: 13.636 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

Tgt Ion:152 Resp: 87

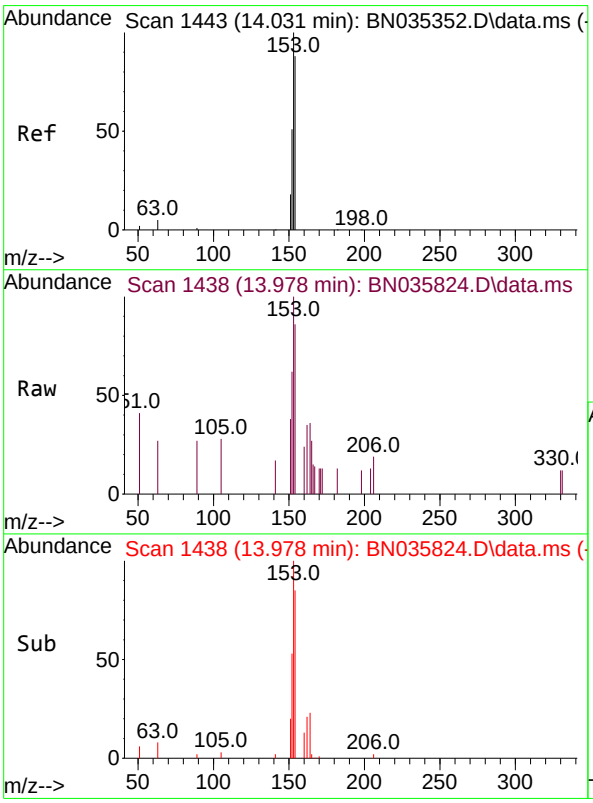
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 22.6 | 16.2 | 24.2 |
| 153 | 13.7 | 10.4 | 15.6 |




**Instrument :**
BNA_N
**ClientSampleId :**
RW10A-MW01S-20241218

**Manual Integrations**
**APPROVED**

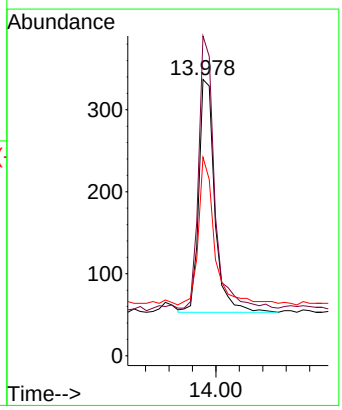
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

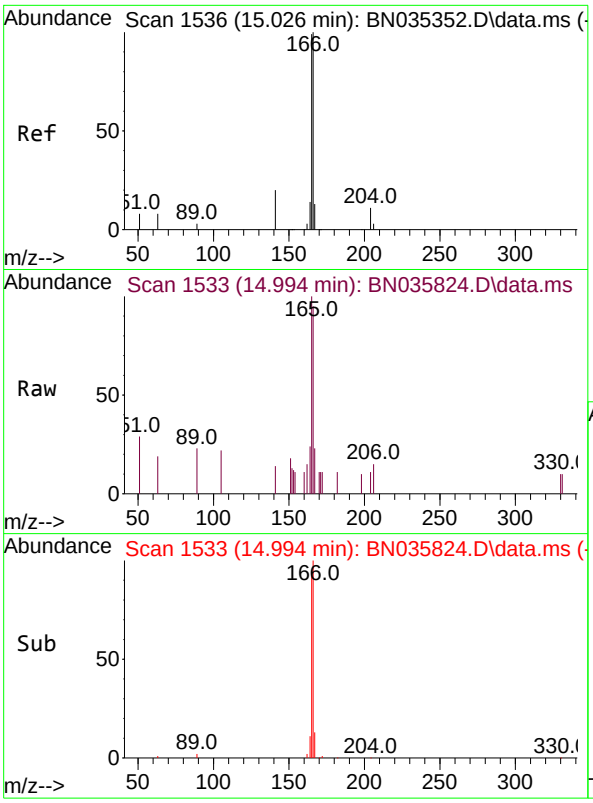



#17
Acenaphthene
Concen: 0.035 ng
RT: 13.978 min Scan# 1438
Delta R.T. -0.021 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

Tgt Ion:154 Resp: 539

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 115.6 | 92.6 | 139.0 |
| 152 | 64.9 | 49.0 | 73.6 |

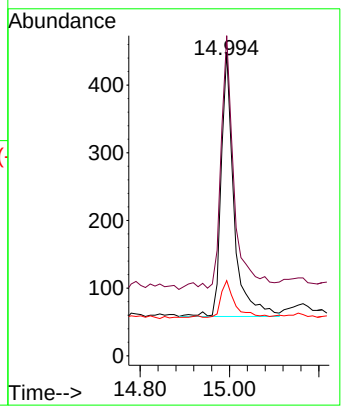





#18
Fluorene
Concen: 0.035 ng
RT: 14.994 min Scan# 1
Delta R.T. -0.011 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

Tgt Ion:166 Resp: 77

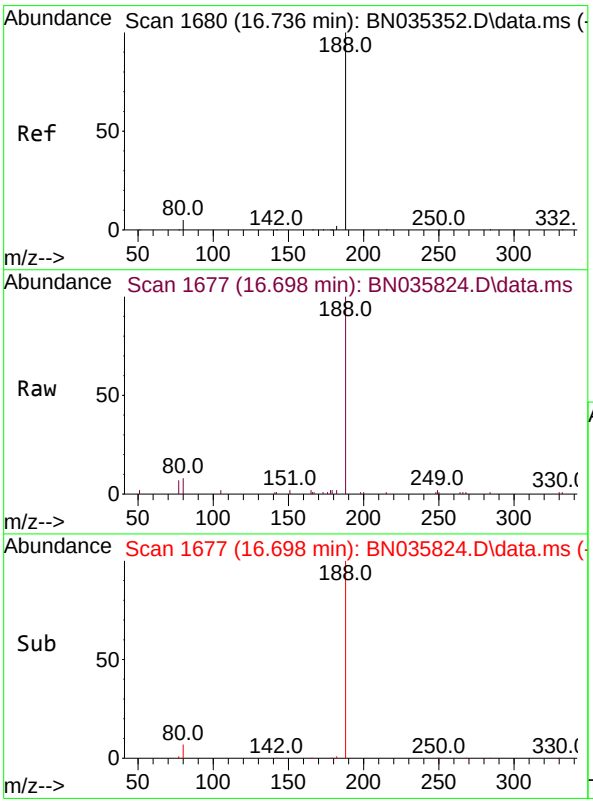
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 95.8 | 79.7 | 119.5 |
| 167 | 15.2 | 10.8 | 16.2 |




**Instrument :**
BNA_N
**ClientSampleId :**
RW10A-MW01S-20241218

**Manual Integrations**
**APPROVED**

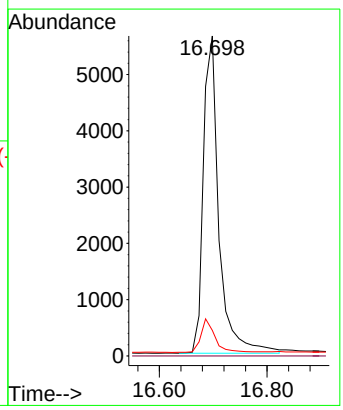
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

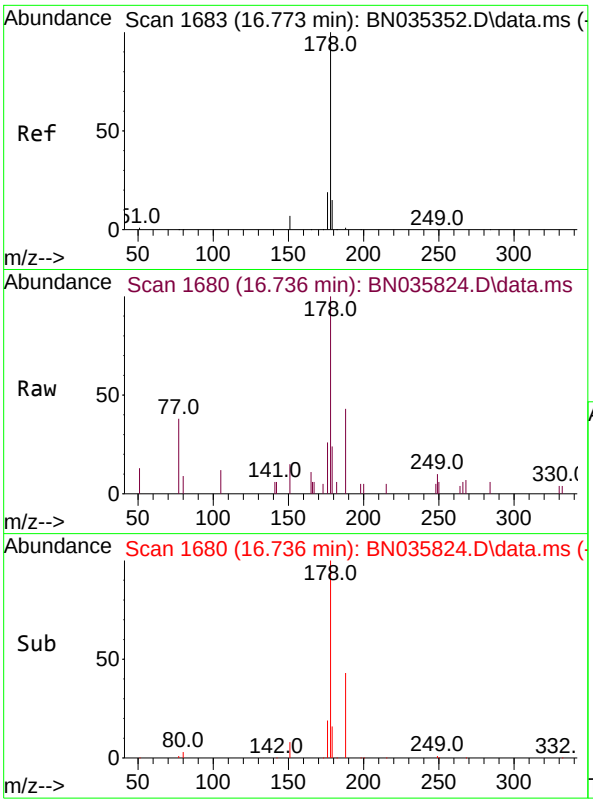



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1677
Delta R.T. -0.000 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

Tgt Ion:188 Resp: 11307

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 8.0 | 4.6 | 6.8# |

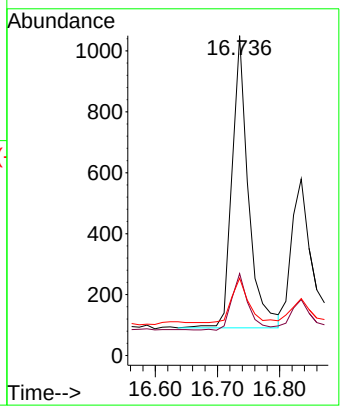





#25
Phenanthrene
Concen: 0.057 ng
RT: 16.736 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

Tgt Ion:178 Resp: 175

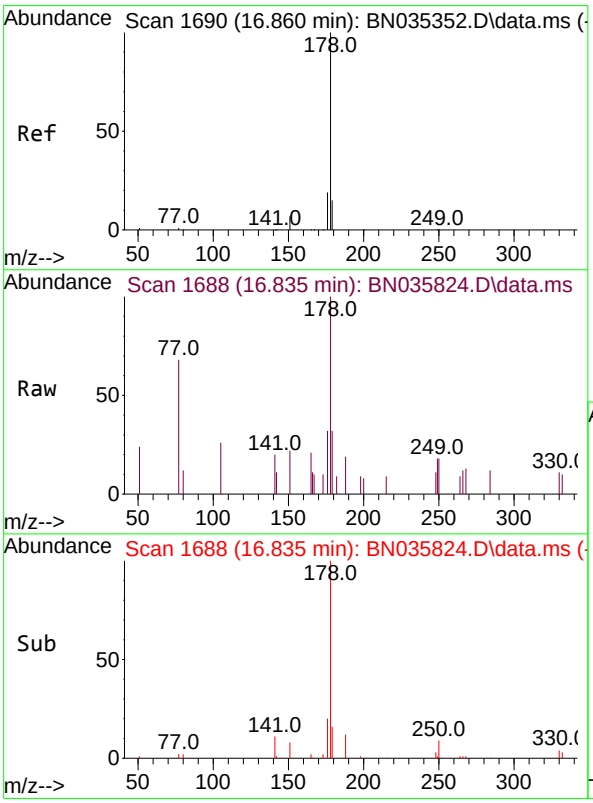
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.3 | 15.4 | 23.2 |
| 179 | 15.7 | 12.3 | 18.5 |




**Instrument :**
BNA_N
**ClientSampleId :**
RW10A-MW01S-20241218

**Manual Integrations**
**APPROVED**

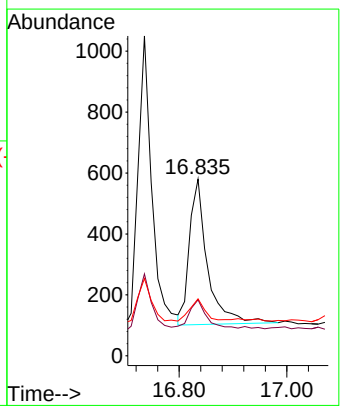
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

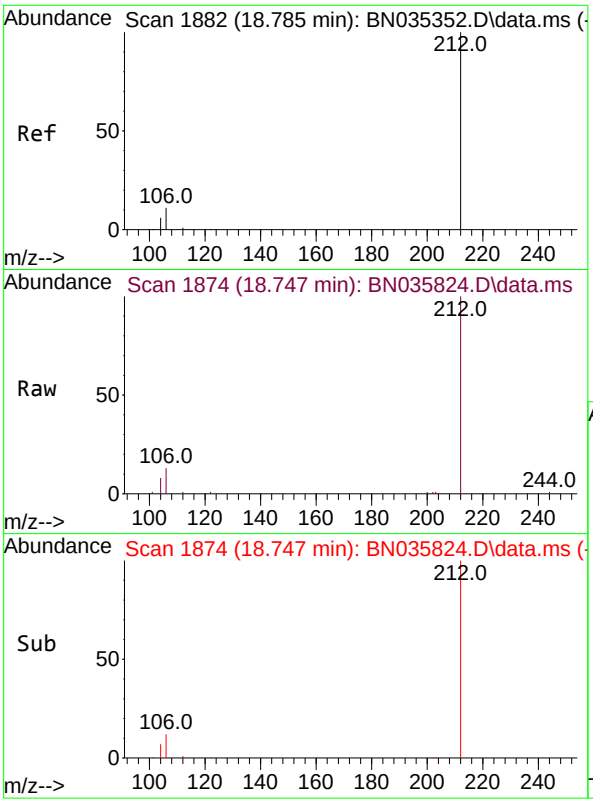



#26
Anthracene
Concen: 0.040 ng
RT: 16.835 min Scan# 1688
Delta R.T. -0.000 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

Tgt Ion:178 Resp: 1113

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.9 | 15.0 | 22.6 |
| 179 | 12.8 | 12.6 | 18.8 |

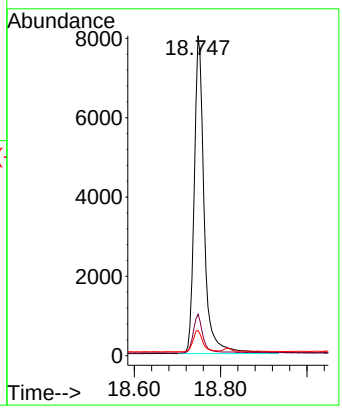





#27
Fluoranthene-d10
Concen: 0.402 ng
RT: 18.747 min Scan# 1
Delta R.T. -0.014 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

Tgt Ion:212 Resp: 1288

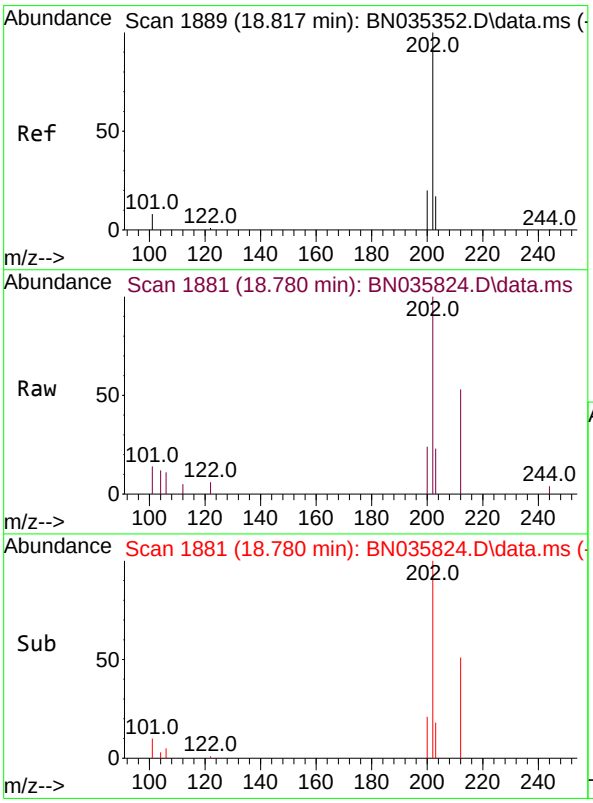
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 11.7 | 9.2 | 13.8 |
| 104 | 6.7 | 5.3 | 7.9 |




**Instrument :**
BNA_N
**ClientSampleId :**
RW10A-MW01S-20241218

**Manual Integrations**
**APPROVED**

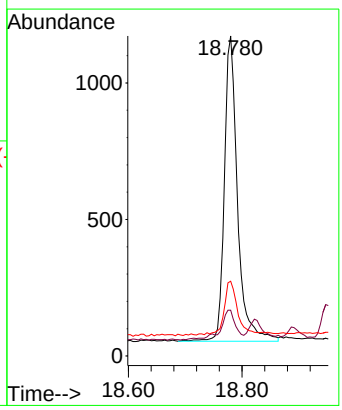
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

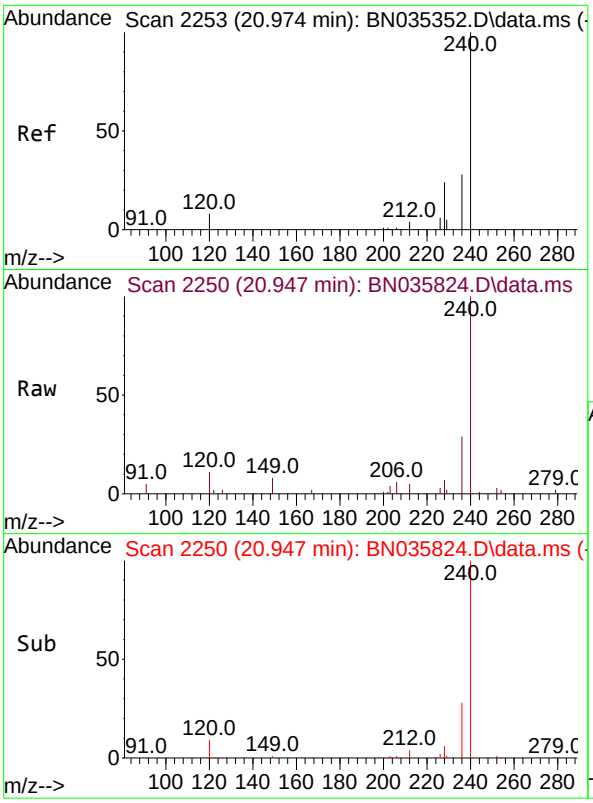



#28
Fluoranthene
Concen: 0.043 ng
RT: 18.780 min Scan# 1881
Delta R.T. -0.009 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

Tgt Ion:202 Resp: 1804

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 11.1 | 7.4 | 11.0# |
| 203 | 18.0 | 13.7 | 20.5 |

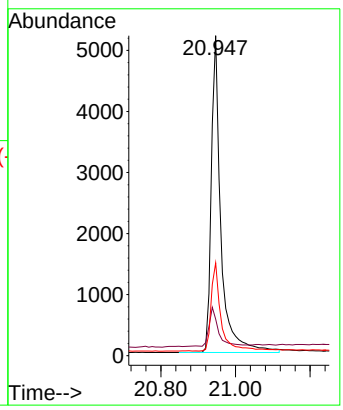





#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

Tgt Ion:240 Resp: 927

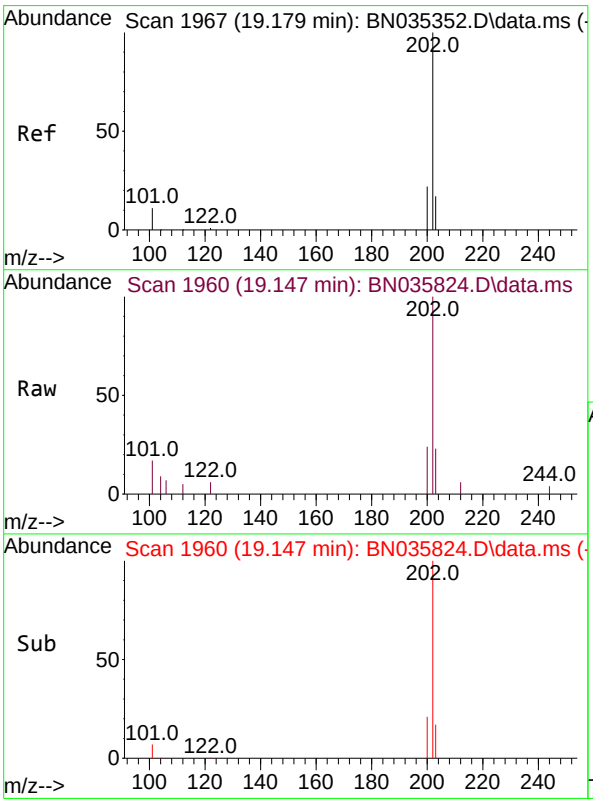
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 11.4 | 7.9 | 11.9 |
| 236 | 29.0 | 22.9 | 34.3 |




**Instrument :**
BNA_N
**ClientSampleId :**
RW10A-MW01S-20241218

**Manual Integrations APPROVED**

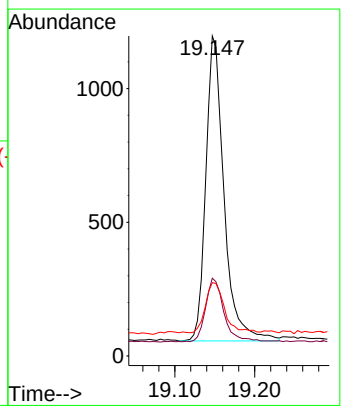
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

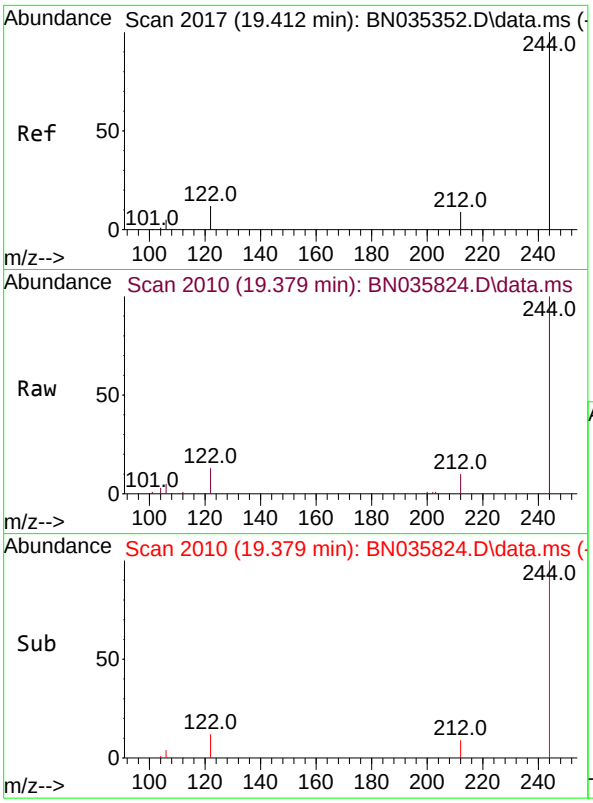



#30
Pyrene
Concen: 0.053 ng
RT: 19.147 min Scan# 1960
Delta R.T. -0.014 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

Tgt Ion:202 Resp: 1807

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 20.9 | 17.0 | 25.4 |
| 203 | 17.7 | 14.3 | 21.5 |

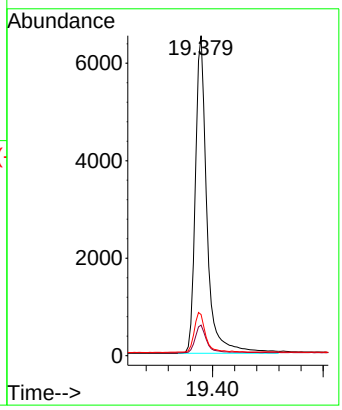





#31
Terphenyl-d14
Concen: 0.520 ng
RT: 19.379 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

Tgt Ion:244 Resp: 950

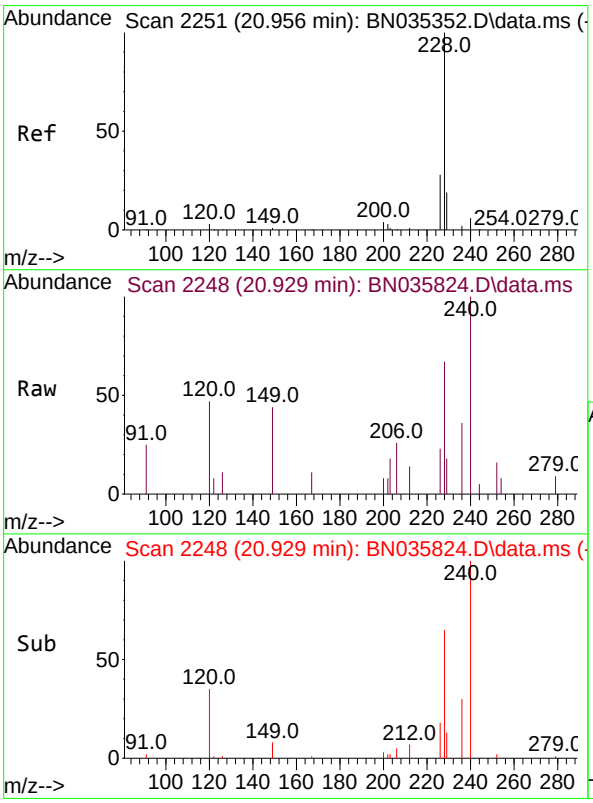
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 9.5 | 8.1 | 12.1 |
| 122 | 12.8 | 10.3 | 15.5 |




**Instrument :**
BNA_N
**ClientSampleId :**
RW10A-MW01S-20241218

**Manual Integrations**
**APPROVED**

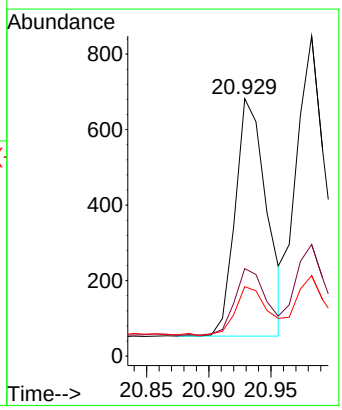
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

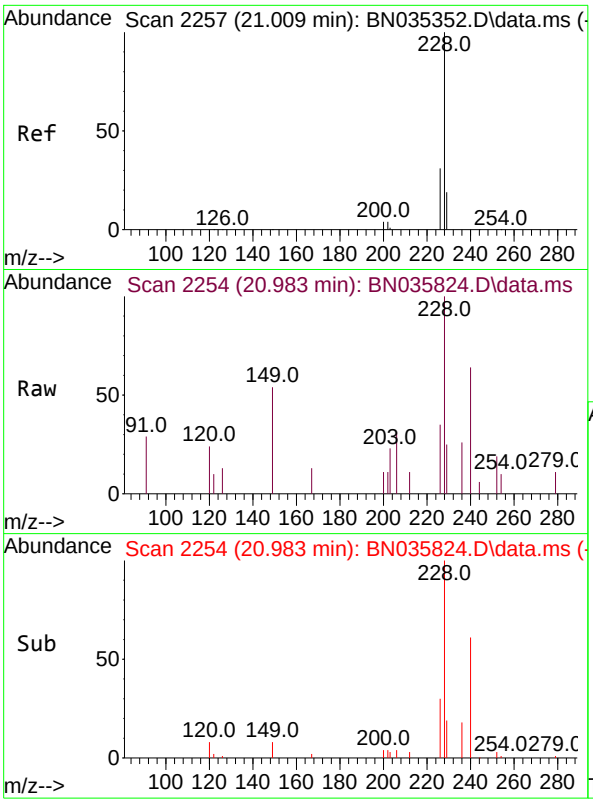



#32
Benzo(a)anthracene
Concen: 0.034 ng
RT: 20.929 min Scan# 2248
Delta R.T. -0.009 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

Tgt Ion:228 Resp: 1100

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 34.0 | 22.5 | 33.7# |
| 229 | 27.0 | 15.8 | 23.8# |

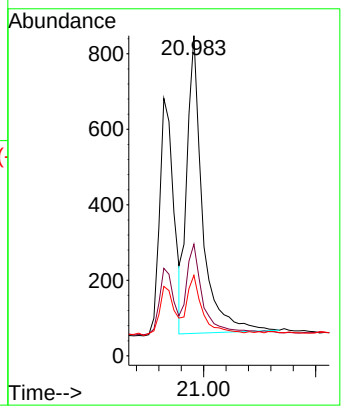





#33
Chrysene
Concen: 0.045 ng
RT: 20.983 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

Tgt Ion:228 Resp: 151

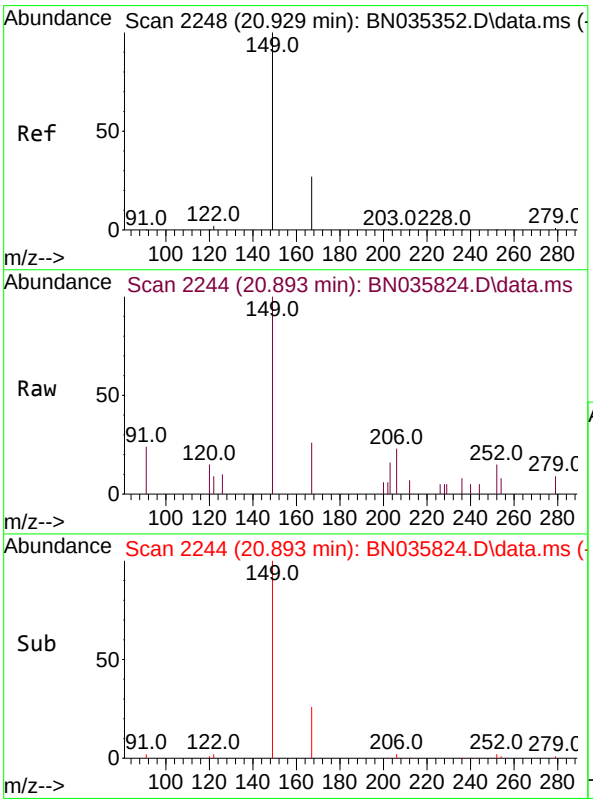
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 34.9 | 24.6 | 37.0 |
| 229 | 25.1 | 15.9 | 23.9# |




**Instrument :**
BNA_N
**ClientSampleId :**
RW10A-MW01S-20241218

**Manual Integrations**
**APPROVED**

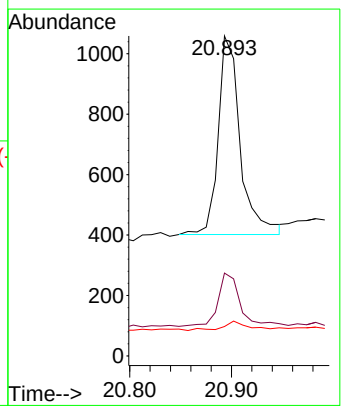
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

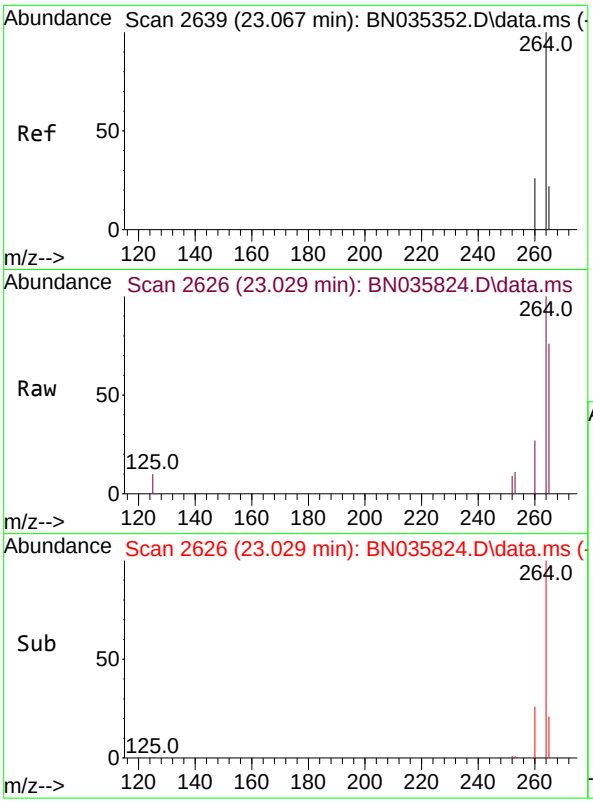



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.077 ng
RT: 20.893 min Scan# 2244
Delta R.T. -0.018 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

Tgt Ion:149 Resp: 988

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 26.7 | 22.2 | 33.4 |
| 279 | 5.5 | 2.7 | 4.1# |

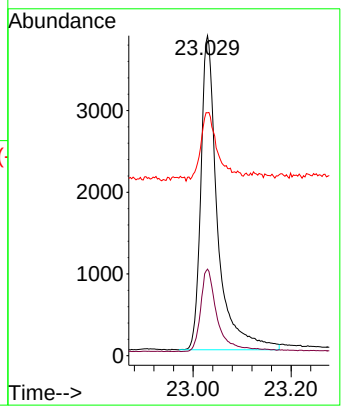





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.029 min Scan# 2
Delta R.T. -0.012 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

Tgt Ion:264 Resp: 911

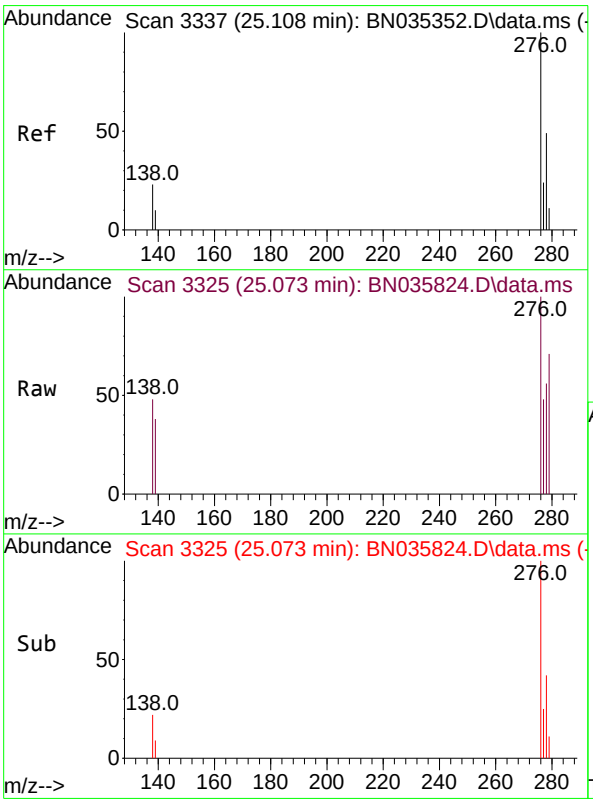
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 27.1 | 21.4 | 32.2 |
| 265 | 75.9 | 40.2 | 60.4# |




**Instrument :**
BNA_N
**ClientSampleId :**
RW10A-MW01S-20241218

**Manual Integrations**
**APPROVED**

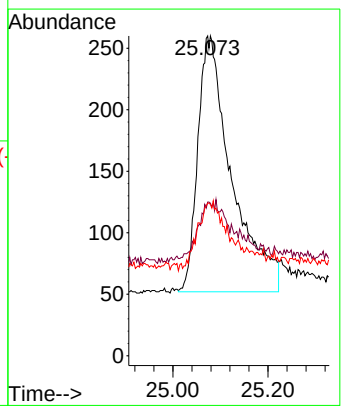
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

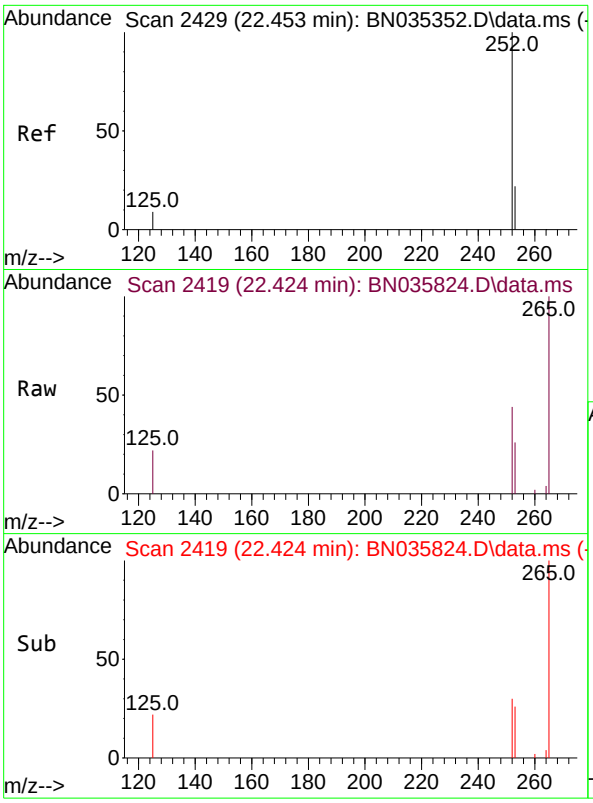



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.029 ng m
RT: 25.073 min Scan# 3325
Delta R.T. 0.006 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

Tgt Ion:276 Resp: 1031

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 8.7 | 19.4 | 29.0# |
| 277 | 10.7 | 19.8 | 29.6# |

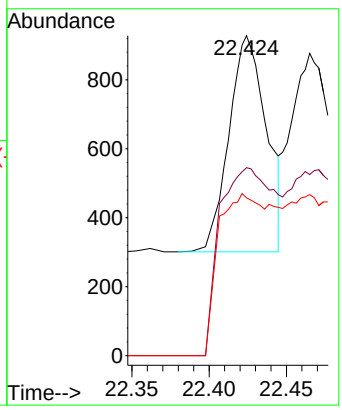





#37
Benzo(b)fluoranthene
Concen: 0.042 ng
RT: 22.424 min Scan# 24
Delta R.T. -0.006 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

Tgt Ion:252 Resp: 140

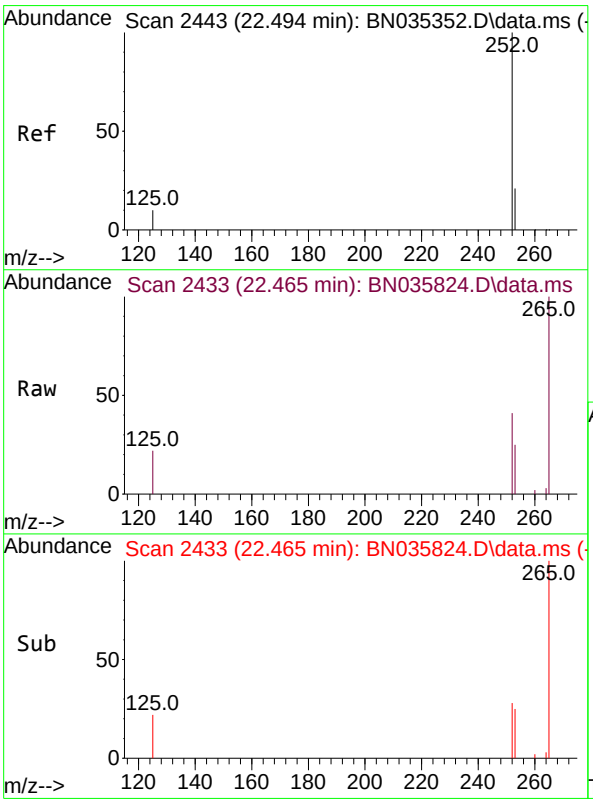
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 58.7 | 19.6 | 29.4# |
| 125 | 49.4 | 9.6 | 14.4# |




**Instrument :**
BNA_N
**ClientSampleId :**
RW10A-MW01S-20241218

**Manual Integrations**
**APPROVED**

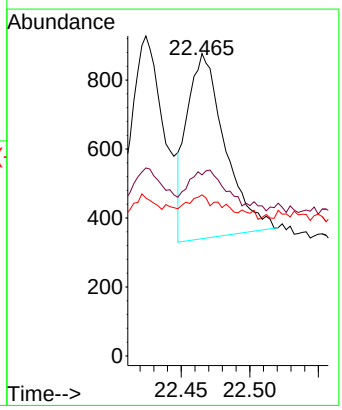
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

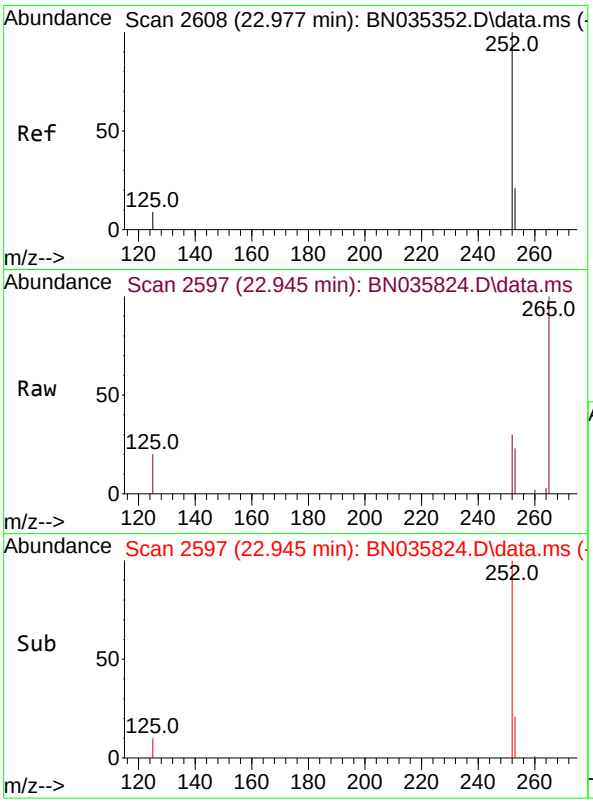



#38
Benzo(k)fluoranthene
Concen: 0.031 ng
RT: 22.465 min Scan# 2433
Delta R.T. -0.006 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

Tgt Ion:252 Resp: 1028

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 59.9 | 19.5 | 29.3# |
| 125 | 53.2 | 10.2 | 15.4# |

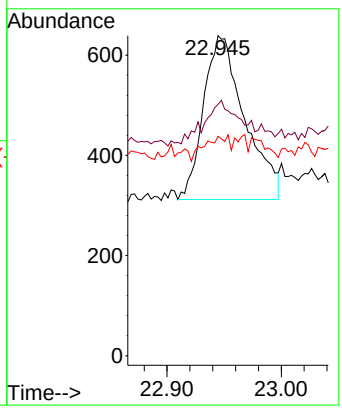





#39
Benzo(a)pyrene
Concen: 0.030 ng
RT: 22.945 min Scan# 2
Delta R.T. -0.006 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

Tgt Ion:252 Resp: 82

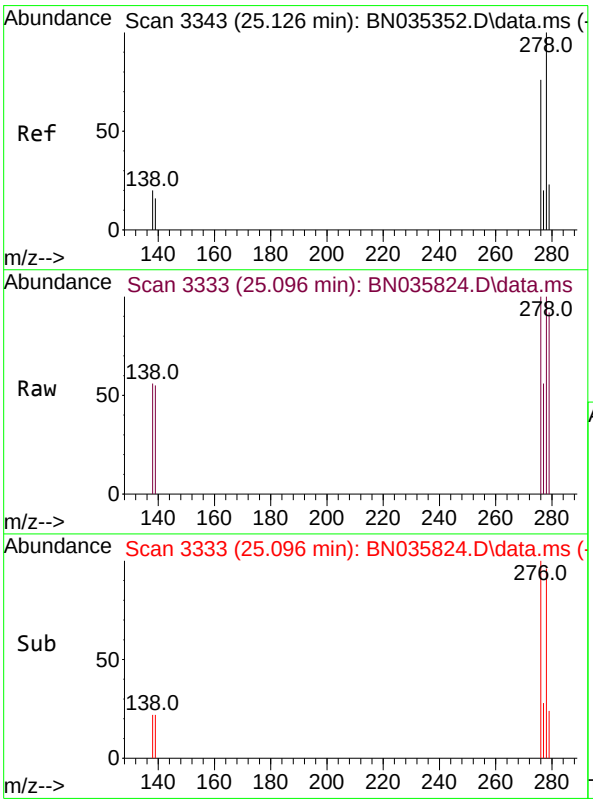
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 78.6 | 20.2 | 30.4# |
| 125 | 68.5 | 10.9 | 16.3# |




**Instrument :**
BNA_N
**ClientSampleId :**
RW10A-MW01S-20241218

**Manual Integrations**
**APPROVED**

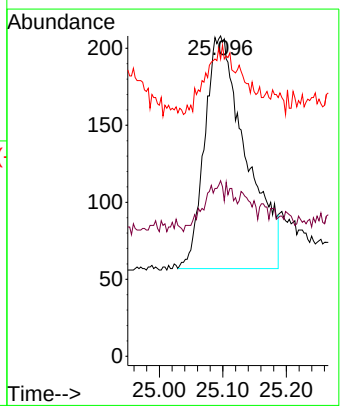
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

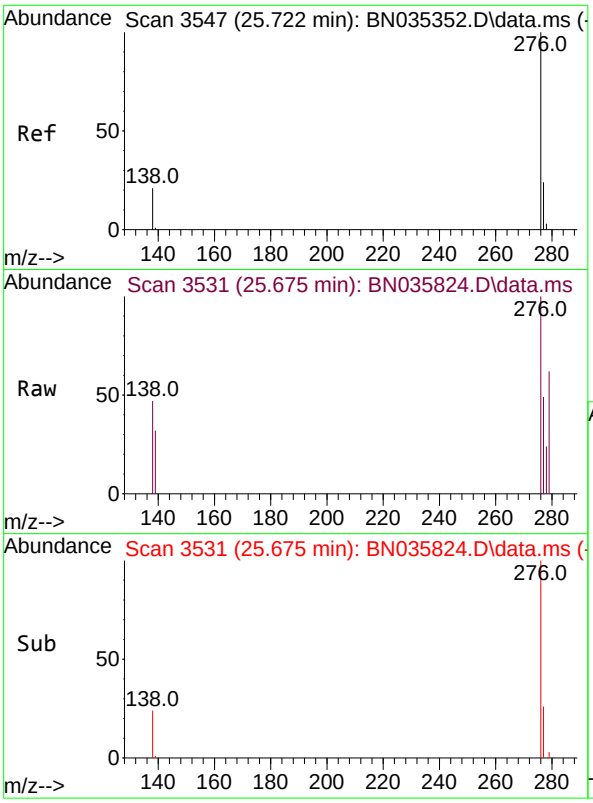



#40
Dibenzo(a,h)anthracene
Concen: 0.024 ng
RT: 25.096 min Scan# 3333
Delta R.T. 0.015 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

Tgt Ion:278 Resp: 685

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 54.8 | 14.2 | 21.4# |
| 279 | 92.8 | 20.5 | 30.7# |

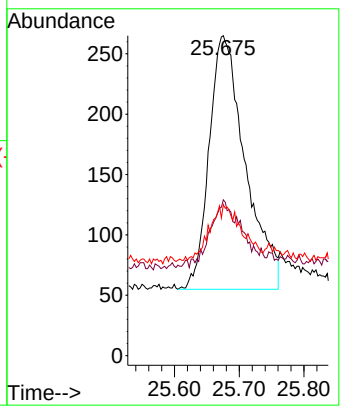





#41
Benzo(g,h,i)perylene
Concen: 0.028 ng
RT: 25.675 min Scan# 3
Delta R.T. -0.003 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

Tgt Ion:276 Resp: 81

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 48.7 | 19.9 | 29.9# |
| 138 | 47.2 | 17.8 | 26.8# |




**Instrument :**
BNA_N
**ClientSampleId :**
RW10A-MW01S-20241218

**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | AECOM Technical Services, Inc. | Date Collected: | 12/18/24 |
| Project: | NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258 | Date Received: | 12/20/24 |
| Client Sample ID: | RW10A-MW01I-20241218 | SDG No.: | P5376 |
| Lab Sample ID: | P5376-12 | Matrix: | Water |
| Analytical Method: | SW8270ESIM | % Solid: | 0 |
| Sample Wt/Vol: | 990 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-SIMGroup1 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BN035825.D | 1 | 12/23/24 13:29 | 12/24/24 17:18 | PB165828 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 123-91-1 | 1,4-Dioxane | 0.20 | U | 0.070 | 0.20 | 0.20 | ug/L |
| **SURROGATES** | | | | | | | |
| 7297-45-2 | 2-Methylnaphthalene-d10 | 0.37 | | 30 - 150 | | 94% | SPK: 0.4 |
| 93951-69-0 | Fluoranthene-d10 | 0.39 | | 30 - 150 | | 98% | SPK: 0.4 |
| 4165-60-0 | Nitrobenzene-d5 | 0.42 | | 55 - 111 | | 106% | SPK: 0.4 |
| 321-60-8 | 2-Fluorobiphenyl | 0.39 | | 53 - 106 | | 97% | SPK: 0.4 |
| 1718-51-0 | Terphenyl-d14 | 0.54 | * | 58 - 132 | | 134% | SPK: 0.4 |
| **INTERNAL STANDARDS** | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 3190 | 7.264 | | | | |
| 1146-65-2 | Naphthalene-d8 | 7280 | 10.009 | | | | |
| 15067-26-2 | Acenaphthene-d10 | 4570 | 13.924 | | | | |
| 1517-22-2 | Phenanthrene-d10 | 9050 | 16.698 | | | | |
| 1719-03-5 | Chrysene-d12 | 6940 | 20.947 | | | | |
| 1520-96-3 | Perylene-d12 | 6790 | 23.029 | | | | |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035825.D
Acq On : 24 Dec 2024 17:18
Operator : RC/JU
Sample : P5376-12
Misc :
ALS Vial : 16 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
RW10A-MW01I-20241218

**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

Quant Time: Dec 24 23:20:05 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.264 | 152 | 3186 | 0.400 | ng | 0.00 |
| 7) Naphthalene-d8 | 10.009 | 136 | 7275 | 0.400 | ng | -0.01 |
| 13) Acenaphthene-d10 | 13.924 | 164 | 4568 | 0.400 | ng | -0.01 |
| 19) Phenanthrene-d10 | 16.698 | 188 | 9048 | 0.400 | ng | # 0.00 |
| 29) Chrysene-d12 | 20.947 | 240 | 6943 | 0.400 | ng | # 0.00 |
| 35) Perylene-d12 | 23.029 | 264 | 6791 | 0.400 | ng | #-0.01 |
| System Monitoring Compounds | | | | | | |
| 4) 2-Fluorophenol | 4.924 | 112 | 881 | 0.110 | ng | -0.01 |
| 5) Phenol-d6 | 6.484 | 99 | 395 | 0.041 | ng | 0.00 |
| 8) Nitrobenzene-d5 | 8.408 | 82 | 1883m | 0.424 | ng | 0.00 |
| 11) 2-Methylnaphthalene-d10 | 11.610 | 152 | 4263 | 0.374 | ng | -0.01 |
| 14) 2,4,6-Tribromophenol | 15.443 | 330 | 626 | 0.193 | ng | -0.01 |
| 15) 2-Fluorobiphenyl | 12.528 | 172 | 6668 | 0.386 | ng | -0.02 |
| 27) Fluoranthene-d10 | 18.752 | 212 | 10051 | 0.392 | ng | 0.00 |
| 31) Terphenyl-d14 | 19.379 | 244 | 7353 | 0.537 | ng | 0.00 |
| Target Compounds | | | | | | Qvalue |
| 9) Naphthalene | 10.052 | 128 | 451 | 0.024 | ng | # 49 |
| 16) Acenaphthylene | 13.636 | 152 | 407 | 0.021 | ng | # 89 |
| 17) Acenaphthene | 13.989 | 154 | 278 | 0.022 | ng | 94 |
| 26) Anthracene | 16.835 | 178 | 519 | 0.023 | ng | # 88 |
| 28) Fluoranthene | 18.780 | 202 | 792 | 0.024 | ng | # 98 |
| 30) Pyrene | 19.152 | 202 | 780 | 0.030 | ng | 99 |
| 33) Chrysene | 20.983 | 228 | 620 | 0.025 | ng | # 78 |
| 34) Bis(2-ethylhexyl)phtha... | 20.893 | 149 | 598 | 0.062 | ng | # 95 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

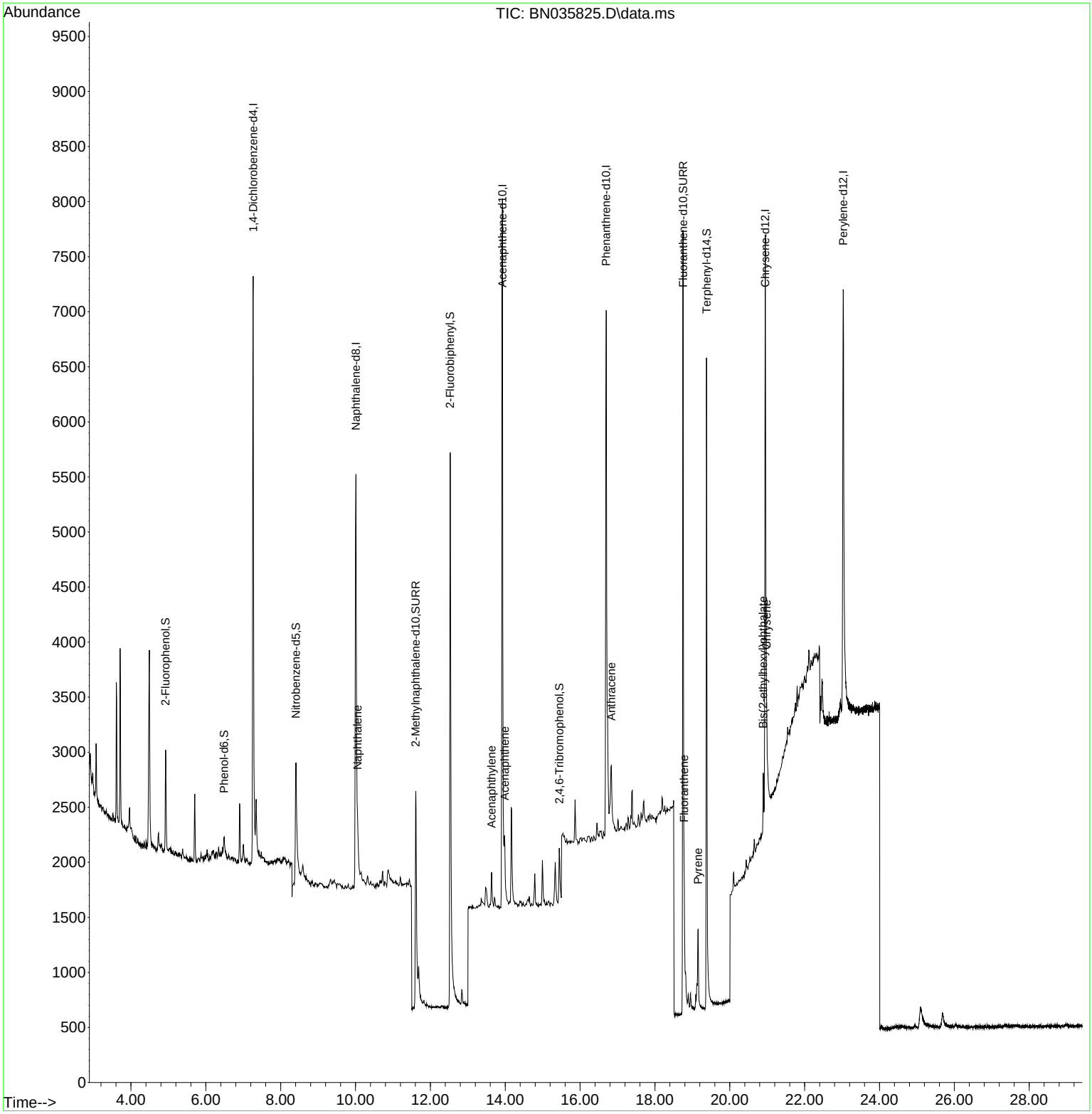
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035825.D
Acq On : 24 Dec 2024 17:18
Operator : RC/JU
Sample : P5376-12
Misc :
ALS Vial : 16 Sample Multiplier: 1

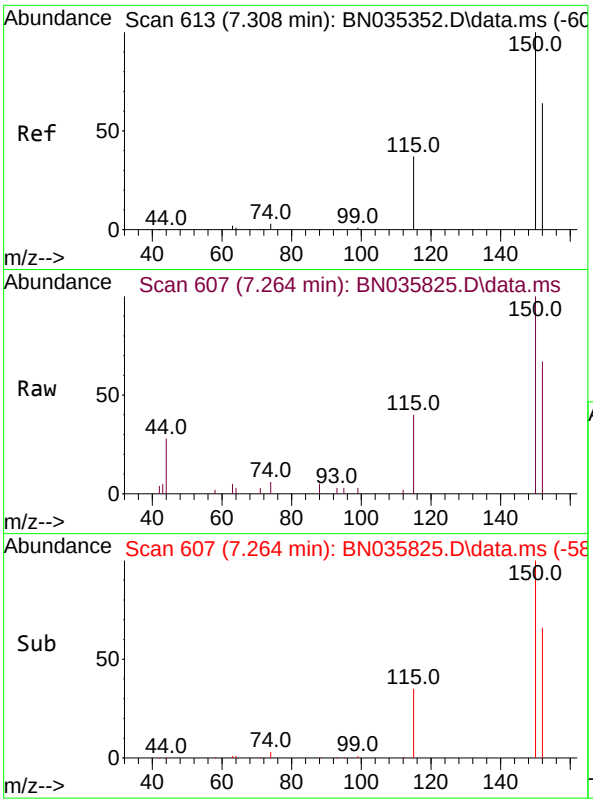
Quant Time: Dec 24 23:20:05 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

**Instrument :**
BNA_N
**ClientSampleId :**
RW10A-MW01I-20241218

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

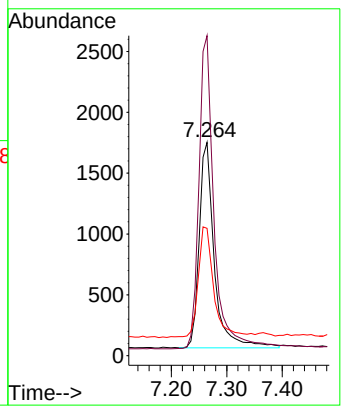





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.264 min Scan# 6(
Delta R.T. -0.008 min
Lab File: BN035825.D
Acq: 24 Dec 2024 17:18

Tgt Ion:152 Resp: 318(

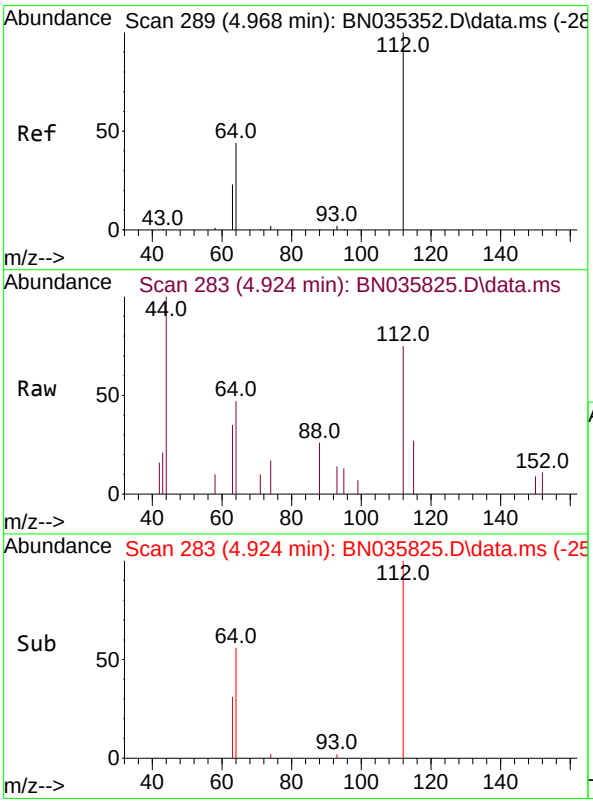
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 150.0 | 124.0 | 186.0 |
| 115 | 59.7 | 49.6 | 74.4 |




**Instrument :**
BNA_N
**ClientSampleId :**
RW10A-MW01I-20241218

**Manual Integrations**
**APPROVED**

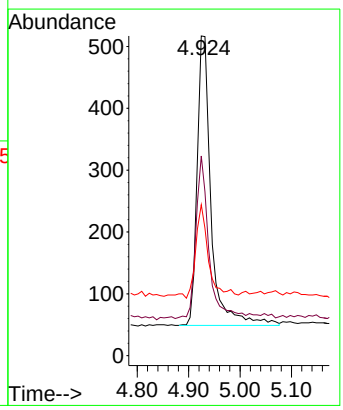
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

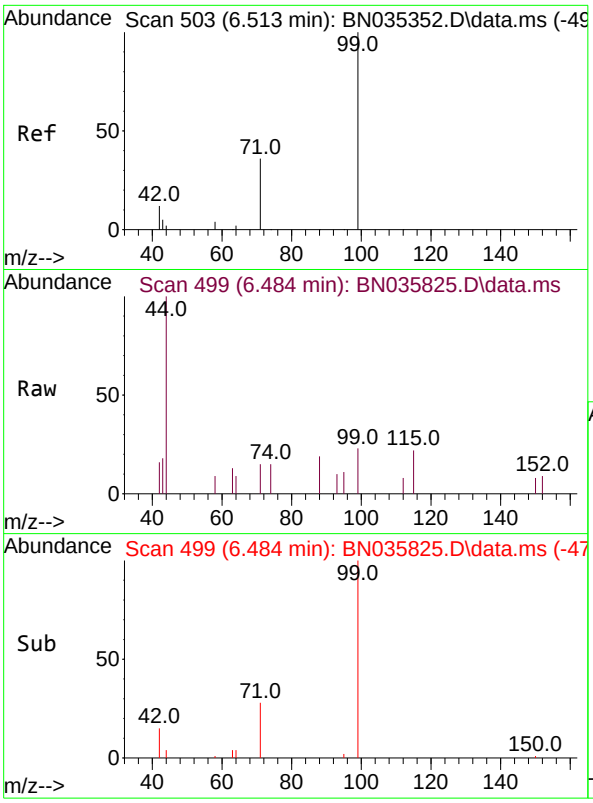



#4
2-Fluorophenol
Concen: 0.110 ng
RT: 4.924 min Scan# 283
Delta R.T. -0.015 min
Lab File: BN035825.D
Acq: 24 Dec 2024 17:18

Tgt Ion:112 Resp: 881

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 52.0 | 39.8 | 59.8 |
| 63 | 28.1 | 21.0 | 31.6 |

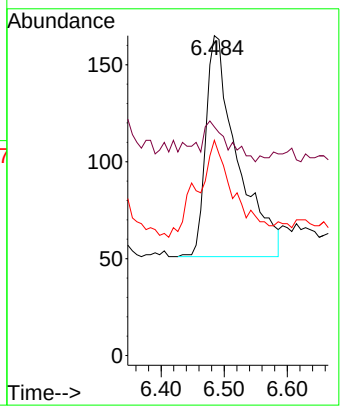





#5
Phenol-d6
Concen: 0.041 ng
RT: 6.484 min Scan# 4
Delta R.T. -0.007 min
Lab File: BN035825.D
Acq: 24 Dec 2024 17:18

Tgt Ion: 99 Resp: 39

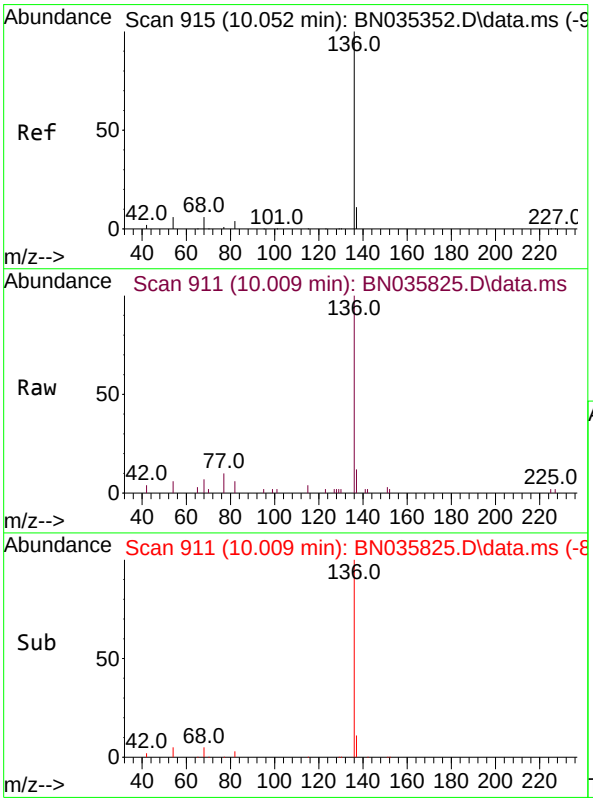
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 14.9 | 11.4 | 17.2 |
| 71 | 31.4 | 29.3 | 43.9 |




**Instrument :**
BNA_N
**ClientSampleId :**
RW10A-MW01I-20241218

**Manual Integrations**
**APPROVED**

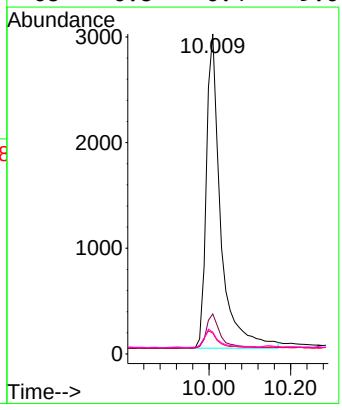
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

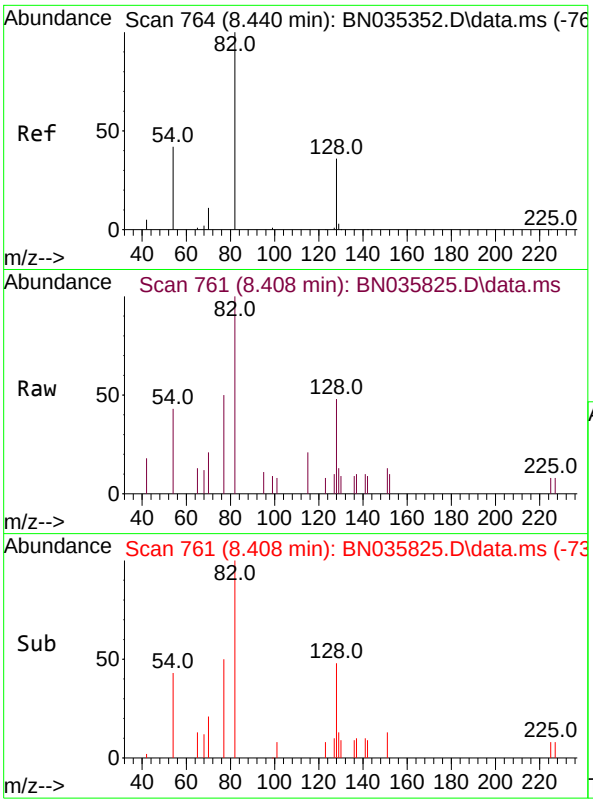



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 911
Delta R.T. -0.011 min
Lab File: BN035825.D
Acq: 24 Dec 2024 17:18

Tgt Ion:136 Resp: 7275

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 12.5 | 10.2 | 15.2 |
| 54 | 6.5 | 6.1 | 9.1 |
| 68 | 6.8 | 6.4 | 9.6 |

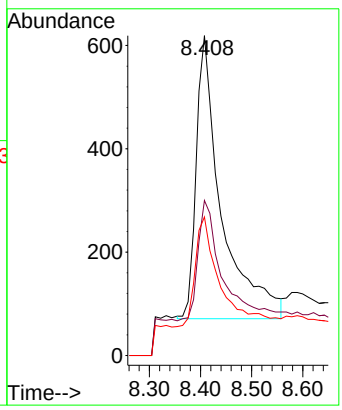





#8
Nitrobenzene-d5
Concen: 0.424 ng m
RT: 8.408 min Scan# 7
Delta R.T. -0.000 min
Lab File: BN035825.D
Acq: 24 Dec 2024 17:18

Tgt Ion: 82 Resp: 188

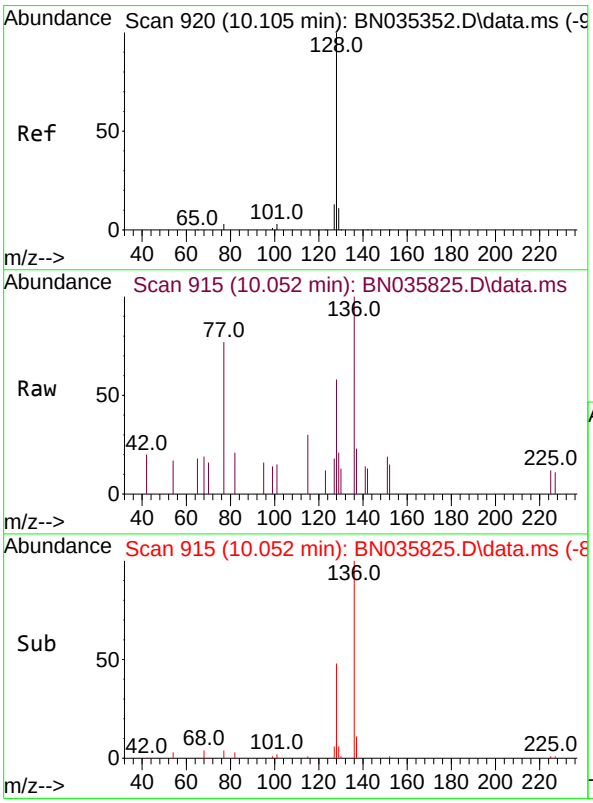
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 48.5 | 33.4 | 50.0 |
| 54 | 43.3 | 36.7 | 55.1 |




**Instrument :**
BNA_N
**ClientSampleId :**
RW10A-MW01I-20241218

**Manual Integrations**
**APPROVED**

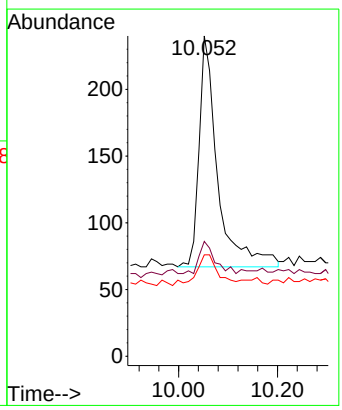
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

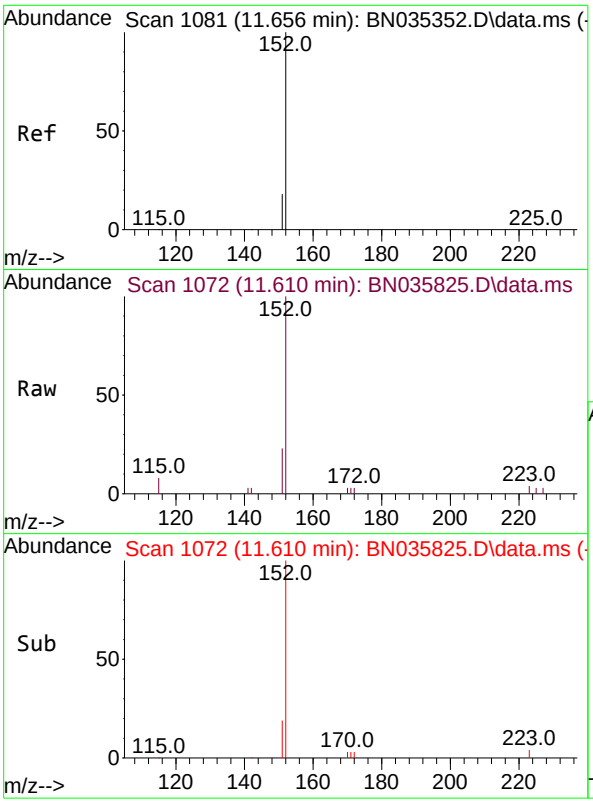



#9
Naphthalene
Concen: 0.024 ng
RT: 10.052 min Scan# 915
Delta R.T. -0.011 min
Lab File: BN035825.D
Acq: 24 Dec 2024 17:18

Tgt Ion:128 Resp: 451

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 35.8 | 9.8 | 14.6# |
| 127 | 31.7 | 11.4 | 17.2# |

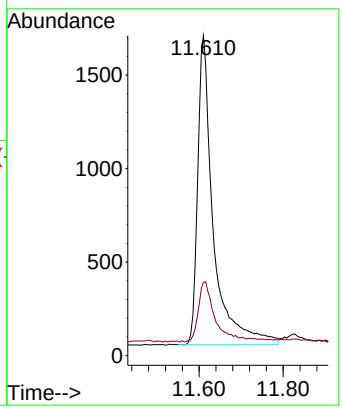





#11
2-Methylnaphthalene-d10
Concen: 0.374 ng
RT: 11.610 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035825.D
Acq: 24 Dec 2024 17:18

Tgt Ion:152 Resp: 426

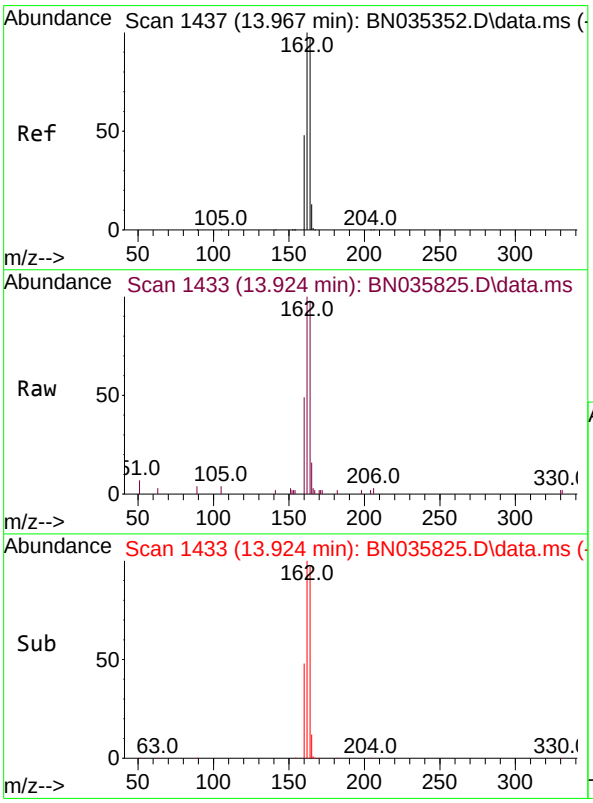
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.4 | 16.6 | 25.0 |




**Instrument :**
BNA_N
**ClientSampleId :**
RW10A-MW01I-20241218

**Manual Integrations**
**APPROVED**

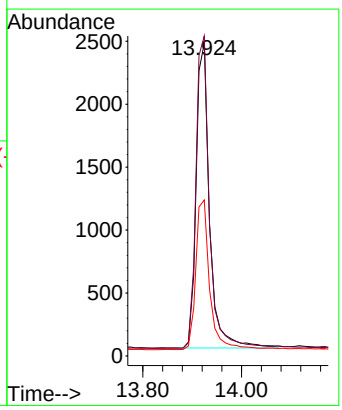
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

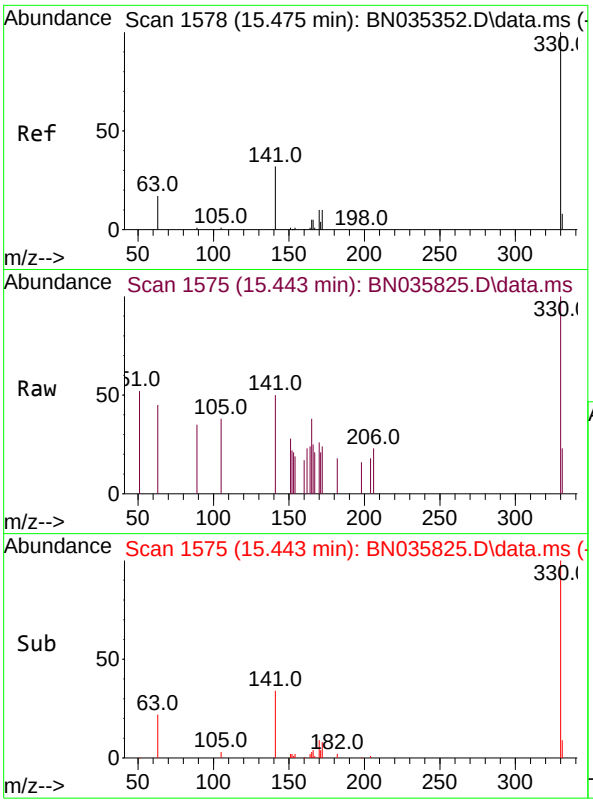



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.924 min Scan# 1433
Delta R.T. -0.011 min
Lab File: BN035825.D
Acq: 24 Dec 2024 17:18

Tgt Ion:164 Resp: 4568

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 102.3 | 82.2 | 123.2 |
| 160 | 49.9 | 40.1 | 60.1 |

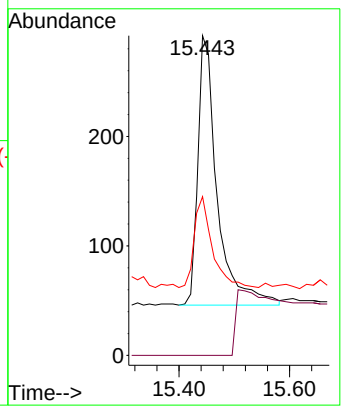





#14
2,4,6-Tribromophenol
Concen: 0.193 ng
RT: 15.443 min Scan# 1
Delta R.T. -0.011 min
Lab File: BN035825.D
Acq: 24 Dec 2024 17:18

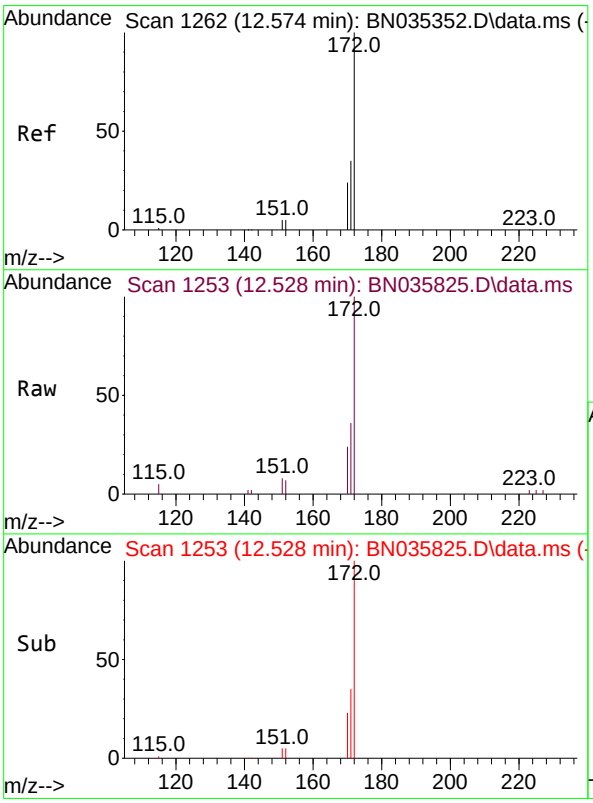
Tgt Ion:330 Resp: 62

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 0.0 | 0.0 | 0.0 |
| 141 | 30.7 | 26.6 | 40.0 |




**Instrument :**
BNA_N
**ClientSampleId :**
RW10A-MW01I-20241218

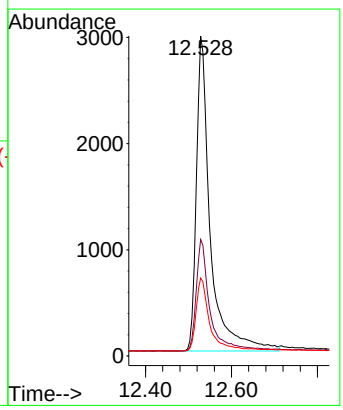
**Manual Integrations**
**APPROVED**
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

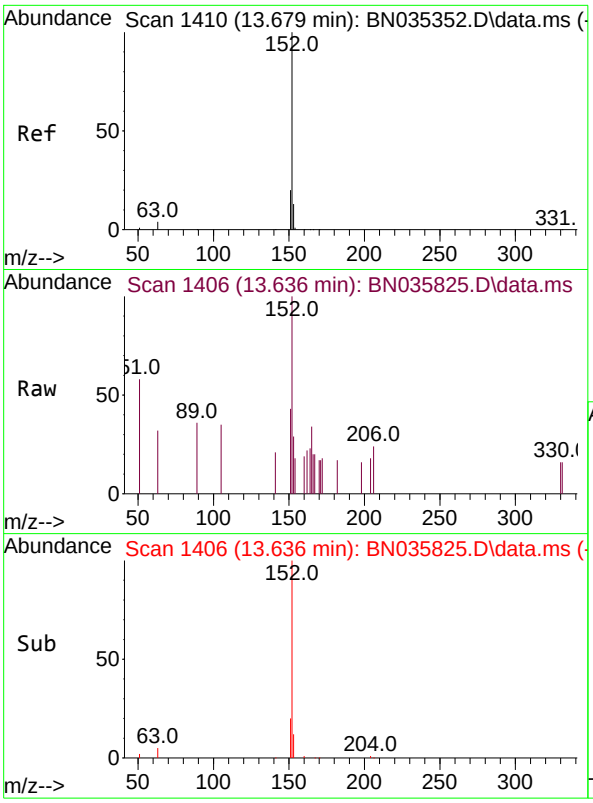



#15
2-Fluorobiphenyl
Concen: 0.386 ng
RT: 12.528 min Scan# 1253
Delta R.T. -0.015 min
Lab File: BN035825.D
Acq: 24 Dec 2024 17:18

Tgt Ion:172 Resp: 6668

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 36.4 | 29.0 | 43.4 |
| 170 | 24.4 | 19.8 | 29.8 |

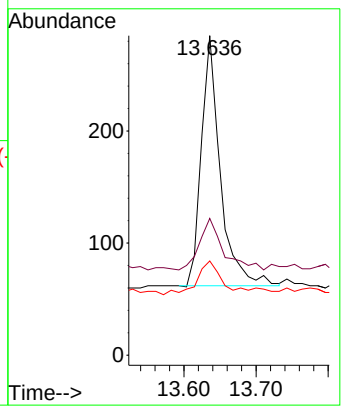





#16
Acenaphthylene
Concen: 0.021 ng
RT: 13.636 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035825.D
Acq: 24 Dec 2024 17:18

Tgt Ion:152 Resp: 40

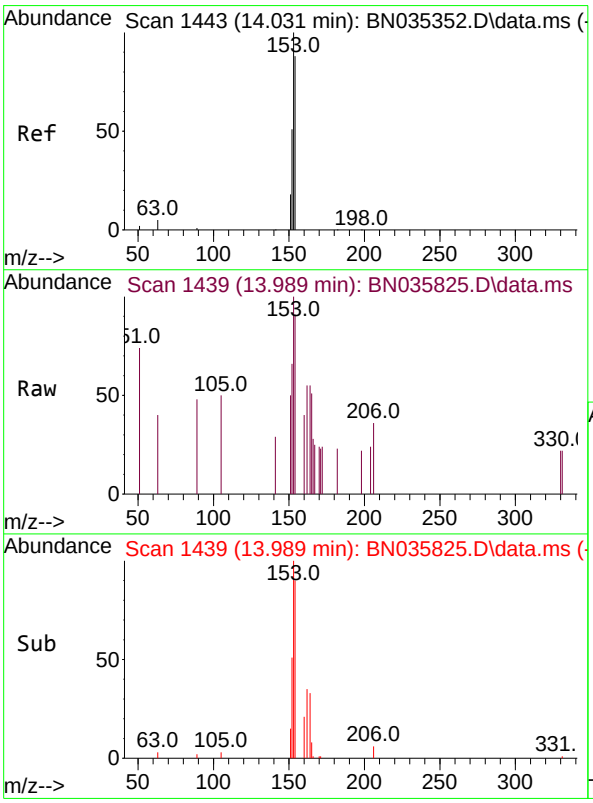
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 25.3 | 16.2 | 24.2# |
| 153 | 17.7 | 10.4 | 15.6# |




**Instrument :**
BNA_N
**ClientSampleId :**
RW10A-MW01I-20241218

**Manual Integrations**
**APPROVED**

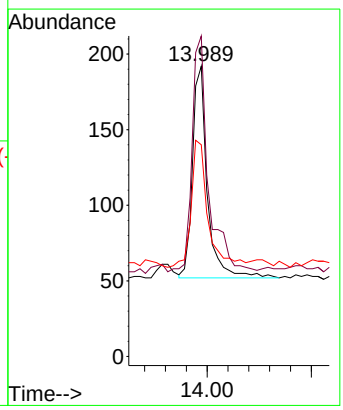
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

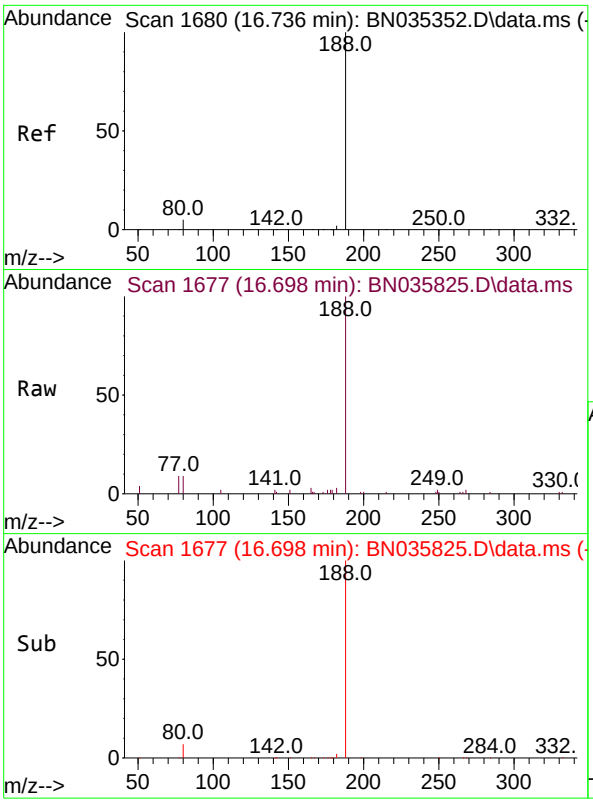



#17
Acenaphthene
Concen: 0.022 ng
RT: 13.989 min Scan# 1439
Delta R.T. -0.011 min
Lab File: BN035825.D
Acq: 24 Dec 2024 17:18

Tgt Ion:154 Resp: 278

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 121.9 | 92.6 | 139.0 |
| 152 | 67.3 | 49.0 | 73.6 |

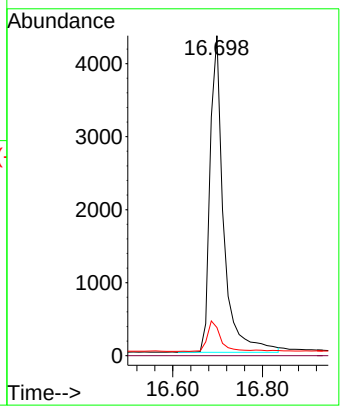





#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035825.D
Acq: 24 Dec 2024 17:18

Tgt Ion:188 Resp: 904

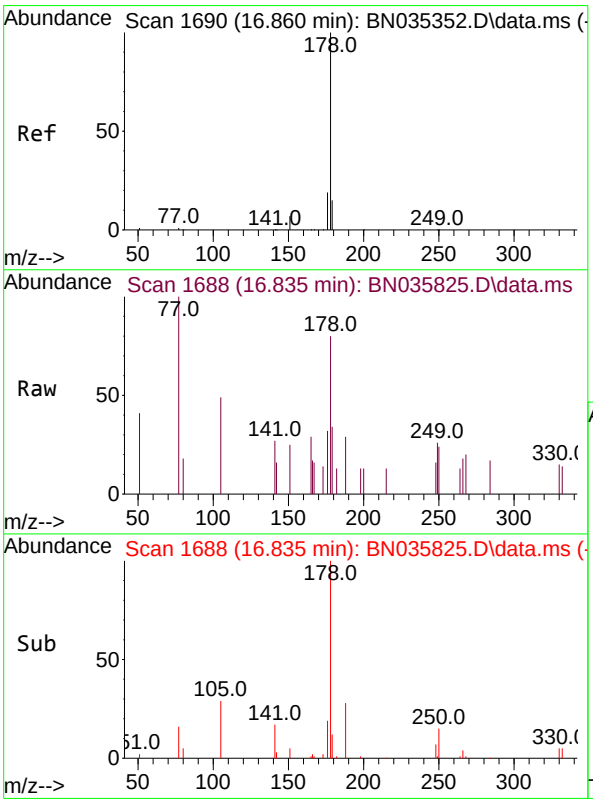
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 8.8 | 4.6 | 6.8# |




**Instrument :**
BNA_N
**ClientSampleId :**
RW10A-MW01I-20241218

**Manual Integrations**
**APPROVED**

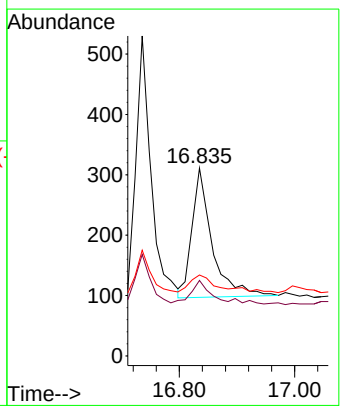
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

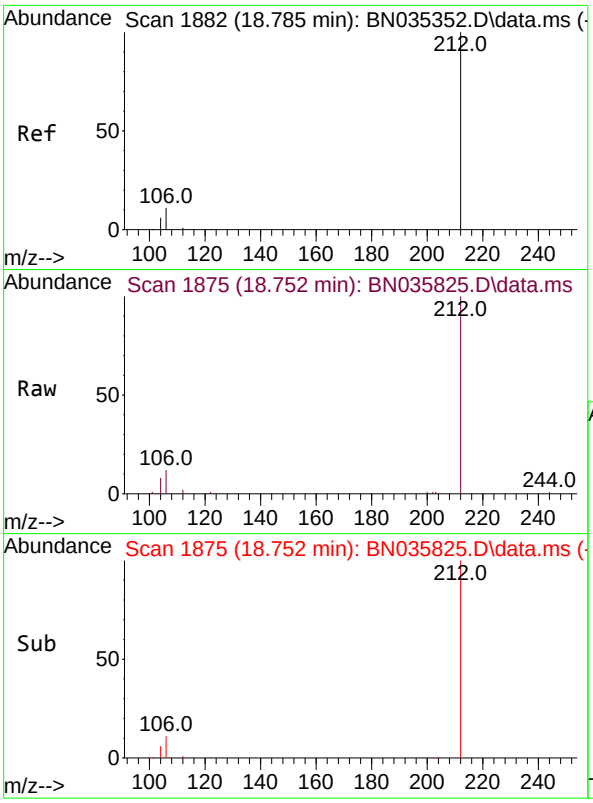



#26
Anthracene
Concen: 0.023 ng
RT: 16.835 min Scan# 1688
Delta R.T. -0.000 min
Lab File: BN035825.D
Acq: 24 Dec 2024 17:18

Tgt Ion:178 Resp: 519

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 15.4 | 15.0 | 22.6 |
| 179 | 23.1 | 12.6 | 18.8# |

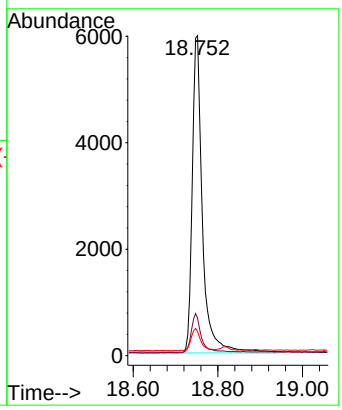





#27
Fluoranthene-d10
Concen: 0.392 ng
RT: 18.752 min Scan# 1
Delta R.T. -0.009 min
Lab File: BN035825.D
Acq: 24 Dec 2024 17:18

Tgt Ion:212 Resp: 1005

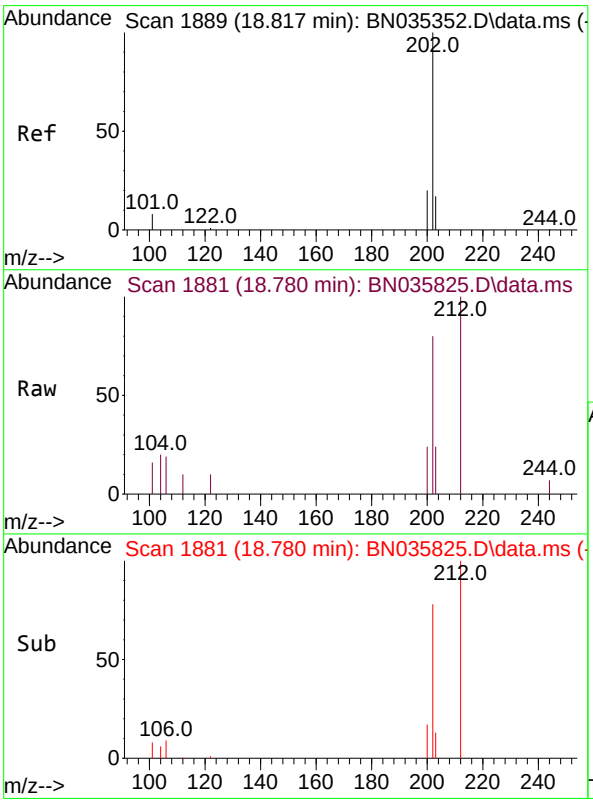
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 11.8 | 9.2 | 13.8 |
| 104 | 6.5 | 5.3 | 7.9 |




**Instrument :**
BNA_N
**ClientSampleId :**
RW10A-MW01I-20241218

**Manual Integrations**
**APPROVED**

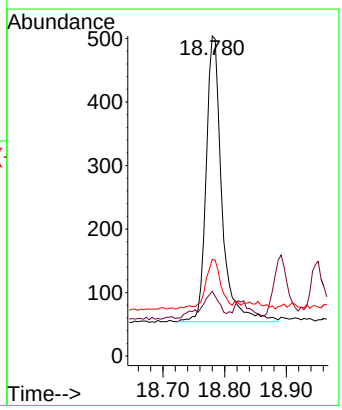
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

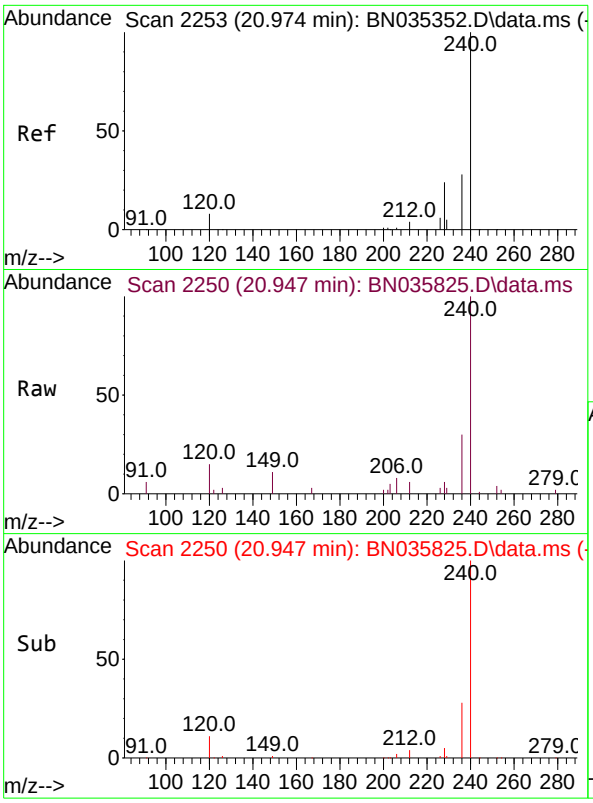



#28
Fluoranthene
Concen: 0.024 ng
RT: 18.780 min Scan# 1881
Delta R.T. -0.009 min
Lab File: BN035825.D
Acq: 24 Dec 2024 17:18

Tgt Ion:202 Resp: 792

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 11.1 | 7.4 | 11.0# |
| 203 | 17.2 | 13.7 | 20.5 |

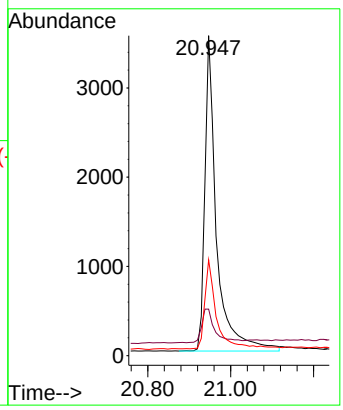





#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035825.D
Acq: 24 Dec 2024 17:18

Tgt Ion:240 Resp: 694

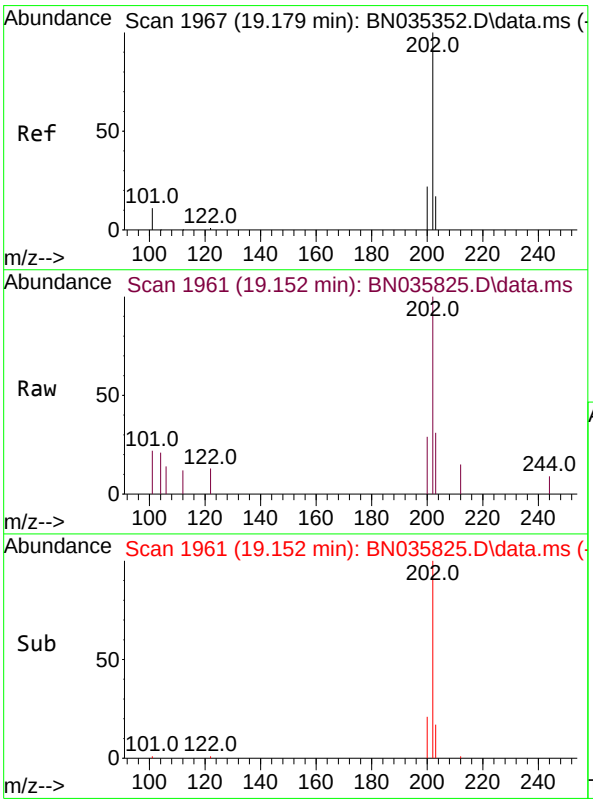
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 14.5 | 7.9 | 11.9 |
| 236 | 29.9 | 22.9 | 34.3 |




**Instrument :**
BNA_N
**ClientSampleId :**
RW10A-MW01I-20241218

**Manual Integrations**
**APPROVED**

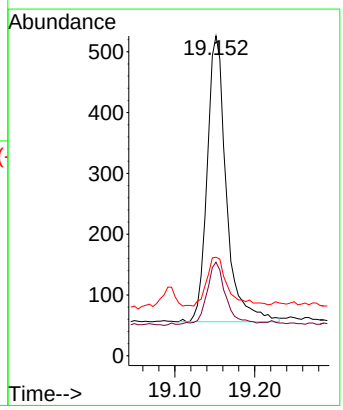
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

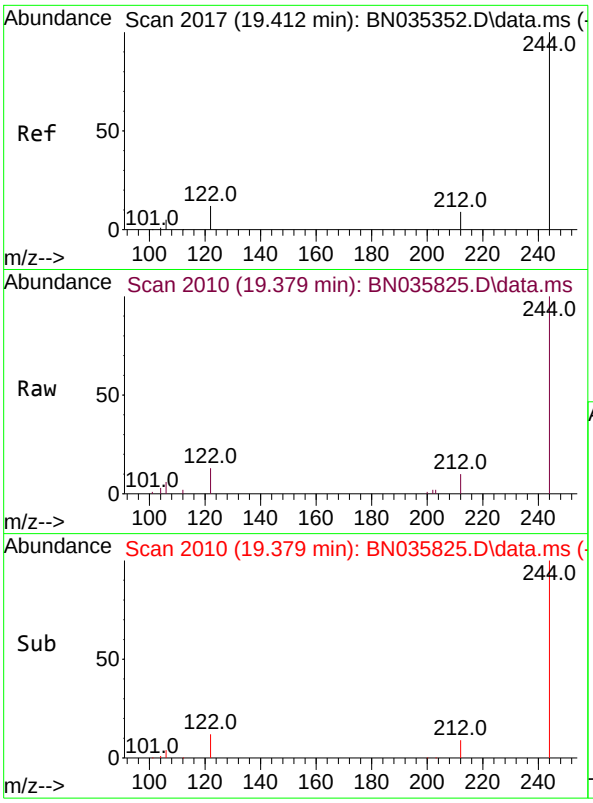



#30
Pyrene
Concen: 0.030 ng
RT: 19.152 min Scan# 1961
Delta R.T. -0.009 min
Lab File: BN035825.D
Acq: 24 Dec 2024 17:18

Tgt Ion:202 Resp: 780

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.0 | 17.0 | 25.4 |
| 203 | 18.5 | 14.3 | 21.5 |

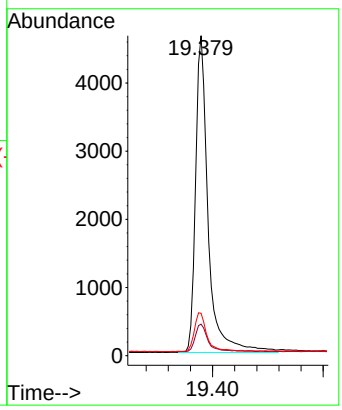





#31
Terphenyl-d14
Concen: 0.537 ng
RT: 19.379 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035825.D
Acq: 24 Dec 2024 17:18

Tgt Ion:244 Resp: 735

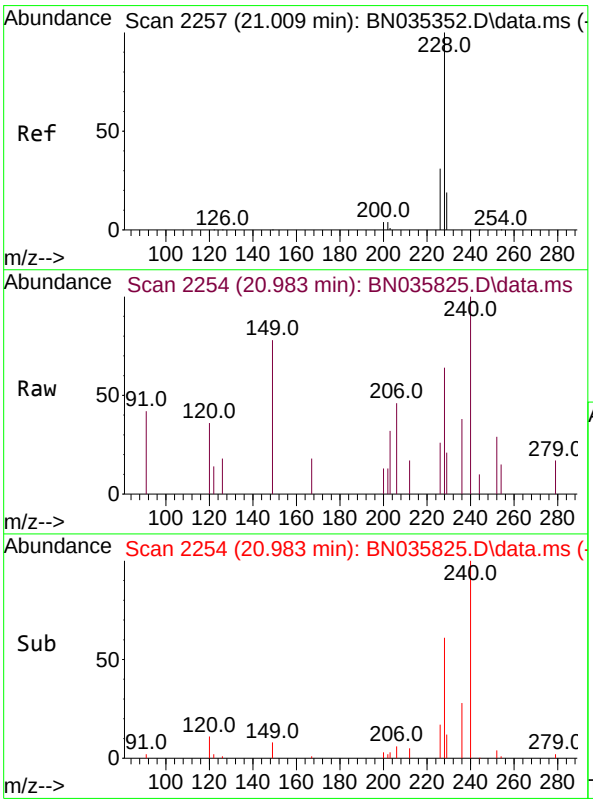
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 9.9 | 8.1 | 12.1 |
| 122 | 13.3 | 10.3 | 15.5 |




**Instrument :**
BNA_N
**ClientSampleId :**
RW10A-MW01I-20241218

**Manual Integrations APPROVED**

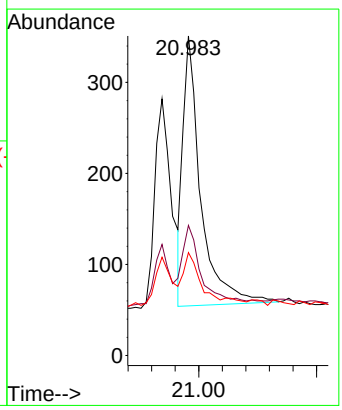
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

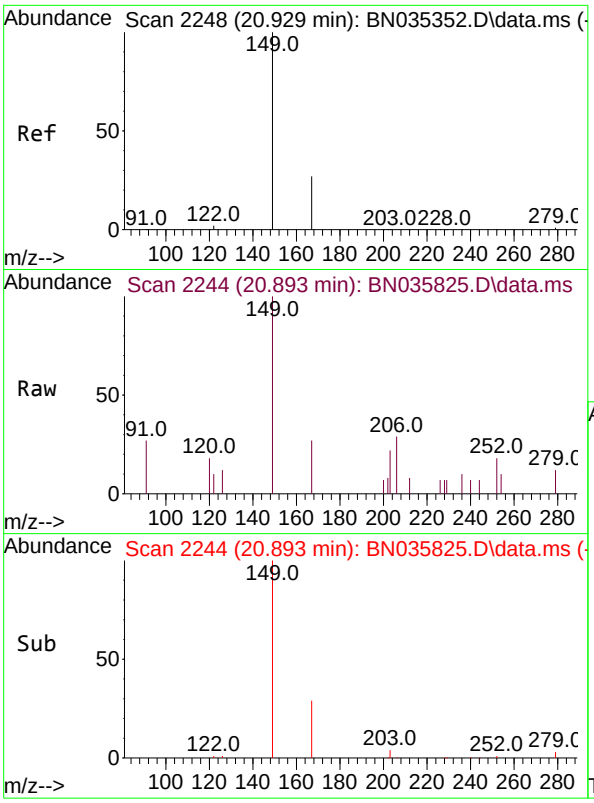



#33
Chrysene
Concen: 0.025 ng
RT: 20.983 min Scan# 2254
Delta R.T. -0.009 min
Lab File: BN035825.D
Acq: 24 Dec 2024 17:18

Tgt Ion:228 Resp: 620

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 40.7 | 24.6 | 37.0# |
| 229 | 32.2 | 15.9 | 23.9# |






#34
Bis(2-ethylhexyl)phthalate
Concen: 0.062 ng
RT: 20.893 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035825.D
Acq: 24 Dec 2024 17:18

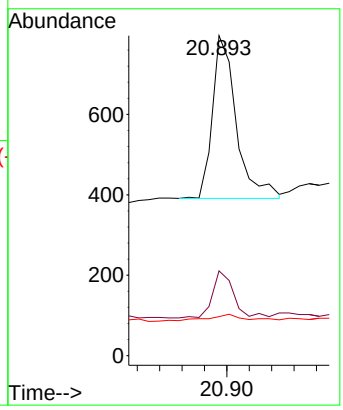
Tgt Ion:149 Resp: 59

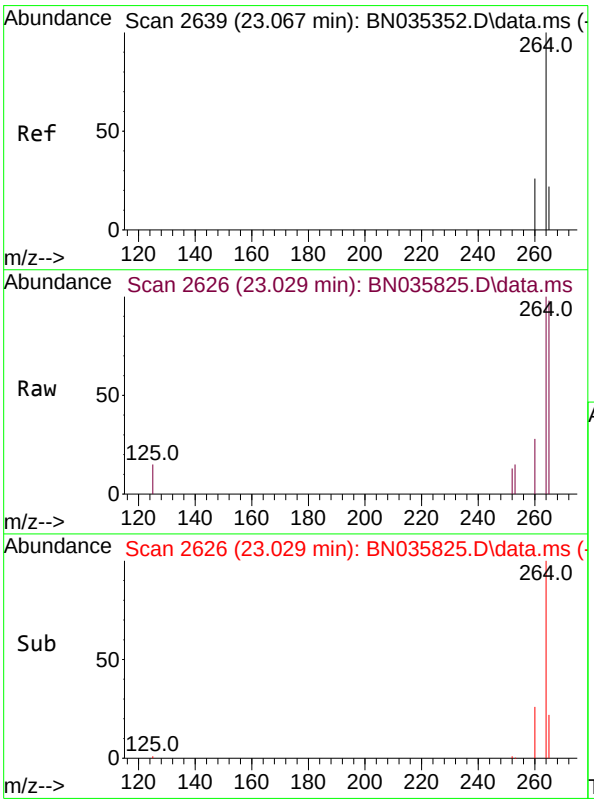
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 25.4 | 22.2 | 33.4 |
| 279 | 5.5 | 2.7 | 4.1# |

**Instrument :**
BNA_N
**ClientSampleId :**
RW10A-MW01I-20241218

**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

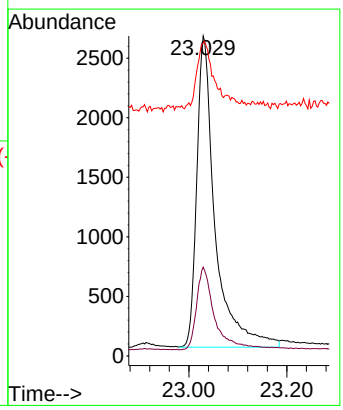



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.029 min Scan# 2626
Delta R.T. -0.012 min
Lab File: BN035825.D
Acq: 24 Dec 2024 17:18

Tgt Ion:264 Resp: 6791

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 27.8 | 21.4 | 32.2 |
| 265 | 97.8 | 40.2 | 60.4# |



Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | AECOM Technical Services, Inc. | Date Collected: | 12/18/24 |
| Project: | NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258 | Date Received: | 12/20/24 |
| Client Sample ID: | RE117D2-20241218 | SDG No.: | P5376 |
| Lab Sample ID: | P5376-13 | Matrix: | Water |
| Analytical Method: | SW8270ESIM | % Solid: | 0 |
| Sample Wt/Vol: | 960 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-SIMGroup1 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BN035826.D | 1 | 12/23/24 13:29 | 12/24/24 17:53 | PB165828 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 123-91-1 | 1,4-Dioxane | 0.21 | U | 0.070 | 0.21 | 0.21 | ug/L |
| **SURROGATES** | | | | | | | |
| 7297-45-2 | 2-Methylnaphthalene-d10 | 0.37 | | 30 - 150 | | 92% | SPK: 0.4 |
| 93951-69-0 | Fluoranthene-d10 | 0.42 | | 30 - 150 | | 104% | SPK: 0.4 |
| 4165-60-0 | Nitrobenzene-d5 | 0.40 | | 55 - 111 | | 101% | SPK: 0.4 |
| 321-60-8 | 2-Fluorobiphenyl | 0.38 | | 53 - 106 | | 96% | SPK: 0.4 |
| 1718-51-0 | Terphenyl-d14 | 0.56 | * | 58 - 132 | | 141% | SPK: 0.4 |
| **INTERNAL STANDARDS** | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 3380 | 7.264 | | | | |
| 1146-65-2 | Naphthalene-d8 | 7930 | 10.009 | | | | |
| 15067-26-2 | Acenaphthene-d10 | 4970 | 13.924 | | | | |
| 1517-22-2 | Phenanthrene-d10 | 10400 | 16.698 | | | | |
| 1719-03-5 | Chrysene-d12 | 8530 | 20.947 | | | | |
| 1520-96-3 | Perylene-d12 | 8300 | 23.029 | | | | |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035826.D
Acq On : 24 Dec 2024 17:53
Operator : RC/JU
Sample : P5376-13
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
RE117D2-20241218

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

Quant Time: Dec 24 23:20:19 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.264 | 152 | 3378 | 0.400 | ng | 0.00 |
| 7) Naphthalene-d8 | 10.009 | 136 | 7925 | 0.400 | ng | #-0.01 |
| 13) Acenaphthene-d10 | 13.924 | 164 | 4973 | 0.400 | ng | -0.01 |
| 19) Phenanthrene-d10 | 16.698 | 188 | 10383 | 0.400 | ng | # 0.00 |
| 29) Chrysene-d12 | 20.947 | 240 | 8532 | 0.400 | ng | # 0.00 |
| 35) Perylene-d12 | 23.029 | 264 | 8295 | 0.400 | ng | #-0.01 |
| System Monitoring Compounds | | | | | | |
| 4) 2-Fluorophenol | 4.924 | 112 | 971 | 0.115 | ng | -0.01 |
| 5) Phenol-d6 | 6.477 | 99 | 466 | 0.046 | ng | -0.01 |
| 8) Nitrobenzene-d5 | 8.408 | 82 | 1954m | 0.404 | ng | 0.00 |
| 11) 2-Methylnaphthalene-d10 | 11.610 | 152 | 4563 | 0.368 | ng | -0.01 |
| 14) 2,4,6-Tribromophenol | 15.442 | 330 | 723 | 0.205 | ng | -0.01 |
| 15) 2-Fluorobiphenyl | 12.528 | 172 | 7227 | 0.384 | ng | -0.02 |
| 27) Fluoranthene-d10 | 18.747 | 212 | 12295 | 0.418 | ng | -0.01 |
| 31) Terphenyl-d14 | 19.379 | 244 | 9489 | 0.564 | ng | 0.00 |
| Target Compounds | | | | | | Qvalue |
| 9) Naphthalene | 10.052 | 128 | 457 | 0.022 | ng | # 56 |
| 28) Fluoranthene | 18.780 | 202 | 782 | 0.020 | ng | # 95 |
| 30) Pyrene | 19.151 | 202 | 811 | 0.026 | ng | 98 |
| 34) Bis(2-ethylhexyl)phtha... | 20.893 | 149 | 1313 | 0.111 | ng | 93 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

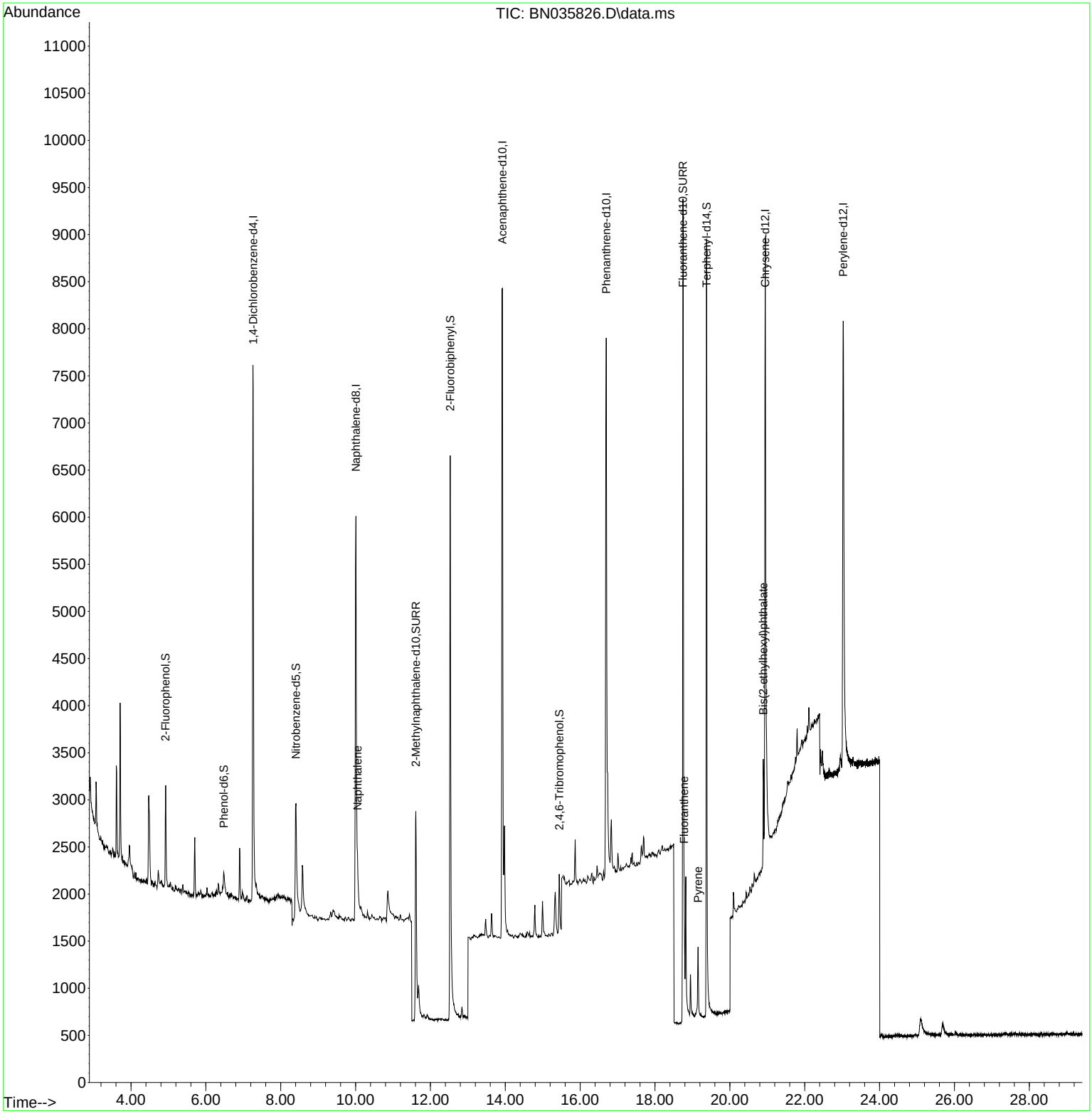
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035826.D
Acq On : 24 Dec 2024 17:53
Operator : RC/JU
Sample : P5376-13
Misc :
ALS Vial : 17 Sample Multiplier: 1

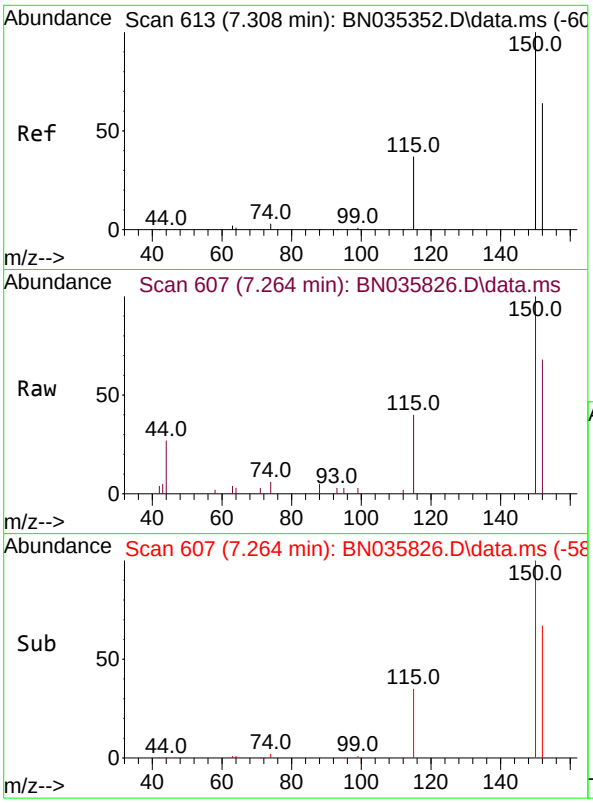
Quant Time: Dec 24 23:20:19 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

**Instrument :**
BNA_N
**ClientSampleId :**
RE117D2-20241218

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

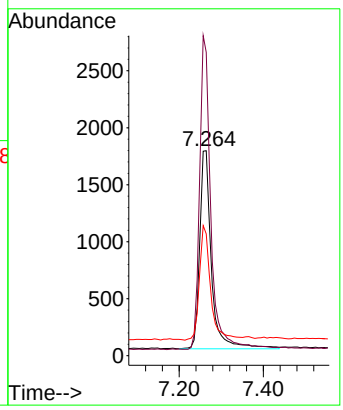





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.264 min Scan# 6(
Delta R.T. -0.008 min
Lab File: BN035826.D
Acq: 24 Dec 2024 17:53

Tgt Ion:152 Resp: 337

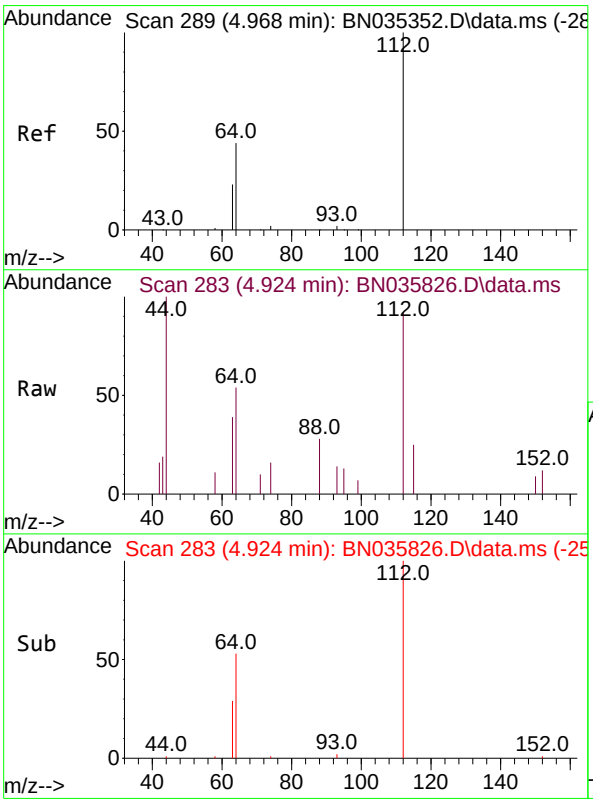
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 148.1 | 124.0 | 186.0 |
| 115 | 59.4 | 49.6 | 74.4 |




**Instrument :**
BNA_N
**ClientSampleId :**
RE117D2-20241218

**Manual Integrations**
**APPROVED**

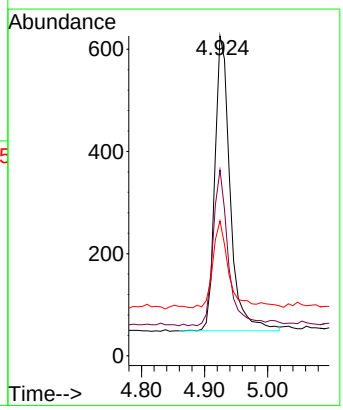
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

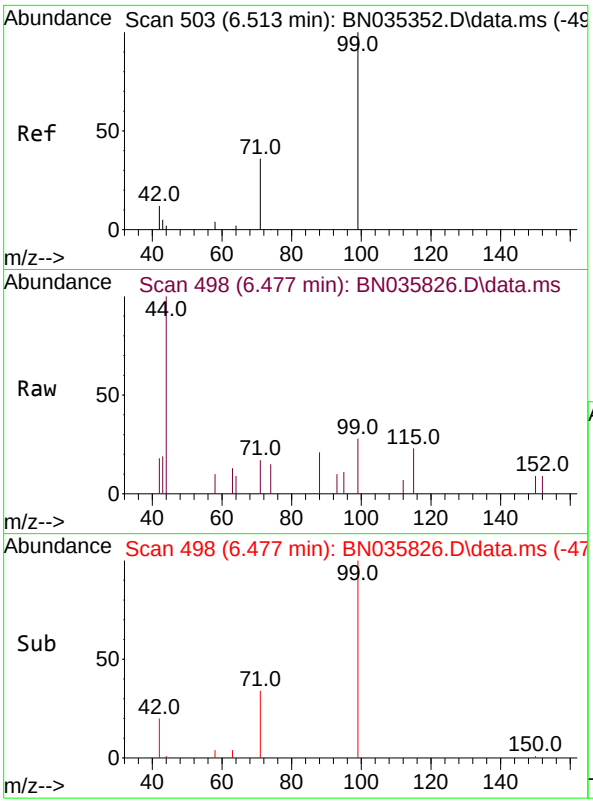



#4
2-Fluorophenol
Concen: 0.115 ng
RT: 4.924 min Scan# 283
Delta R.T. -0.015 min
Lab File: BN035826.D
Acq: 24 Dec 2024 17:53

Tgt Ion:112 Resp: 971

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 52.3 | 39.8 | 59.8 |
| 63 | 29.4 | 21.0 | 31.6 |

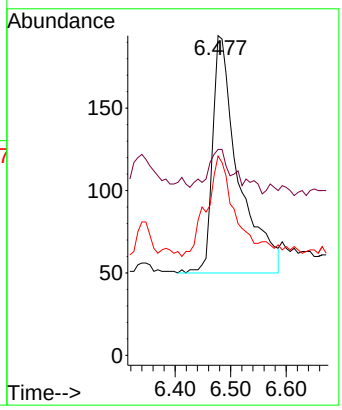





#5
Phenol-d6
Concen: 0.046 ng
RT: 6.477 min Scan# 4
Delta R.T. -0.015 min
Lab File: BN035826.D
Acq: 24 Dec 2024 17:53

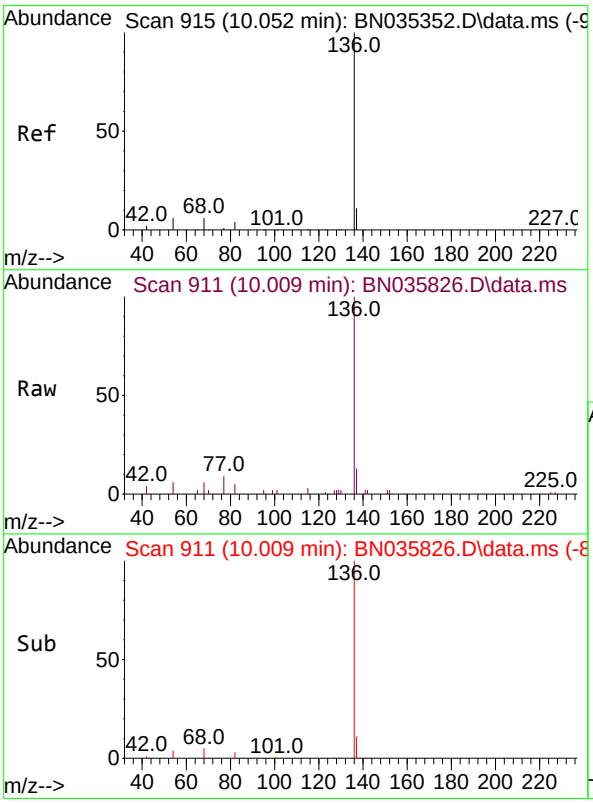
Tgt Ion: 99 Resp: 46

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 20.2 | 11.4 | 17.2# |
| 71 | 44.6 | 29.3 | 43.9# |




**Instrument :**
BNA_N
**ClientSampleId :**
RE117D2-20241218

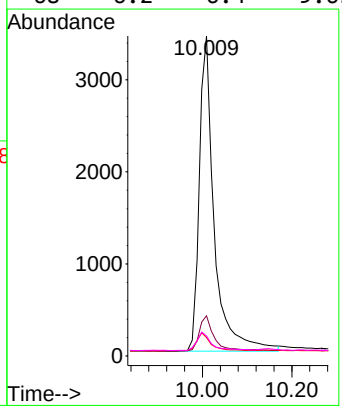
**Manual Integrations**
**APPROVED**
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

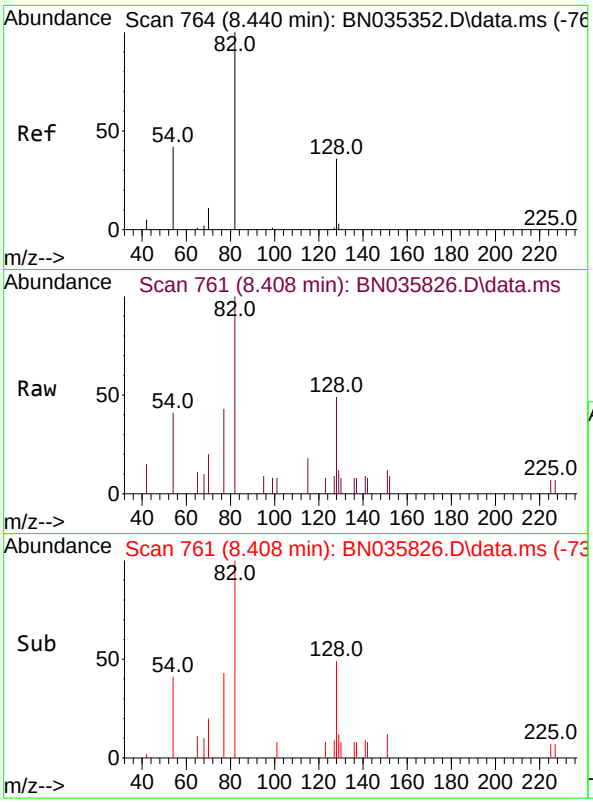



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 911
Delta R.T. -0.011 min
Lab File: BN035826.D
Acq: 24 Dec 2024 17:53

Tgt Ion:136 Resp: 7925

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 12.5 | 10.2 | 15.2 |
| 54 | 5.8 | 6.1 | 9.1# |
| 68 | 6.2 | 6.4 | 9.6# |

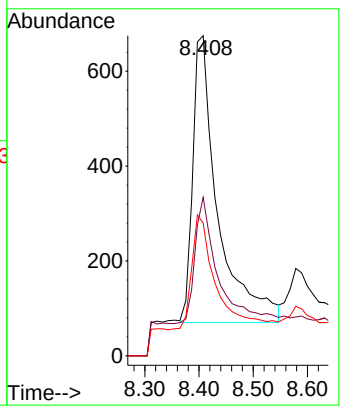





#8
Nitrobenzene-d5
Concen: 0.404 ng m
RT: 8.408 min Scan# 7
Delta R.T. -0.000 min
Lab File: BN035826.D
Acq: 24 Dec 2024 17:53

Tgt Ion: 82 Resp: 195

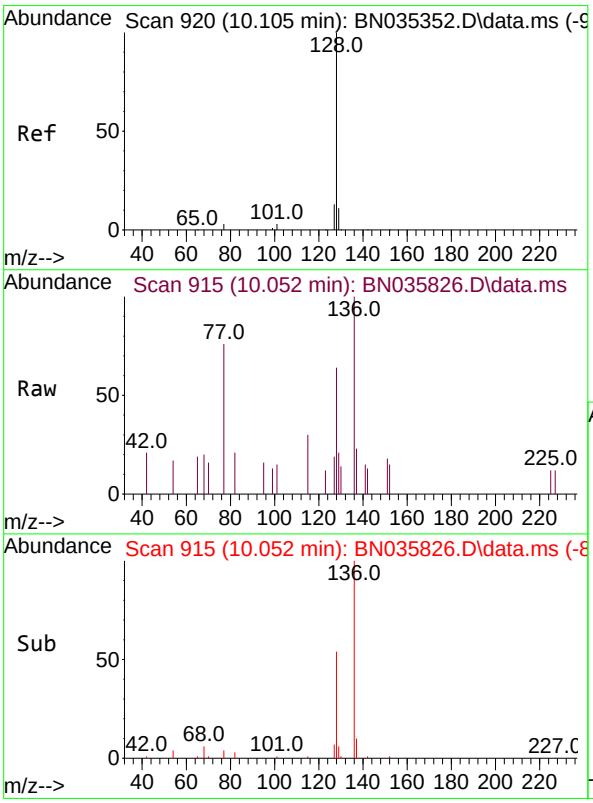
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 49.5 | 33.4 | 50.0 |
| 54 | 41.5 | 36.7 | 55.1 |




**Instrument :**
BNA_N
**ClientSampleId :**
RE117D2-20241218

**Manual Integrations**
**APPROVED**

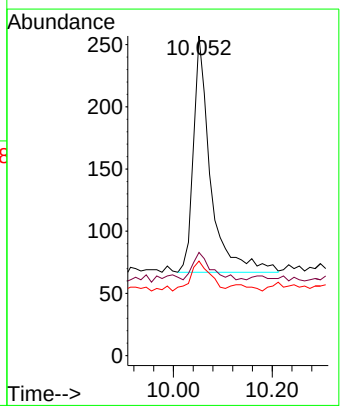
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

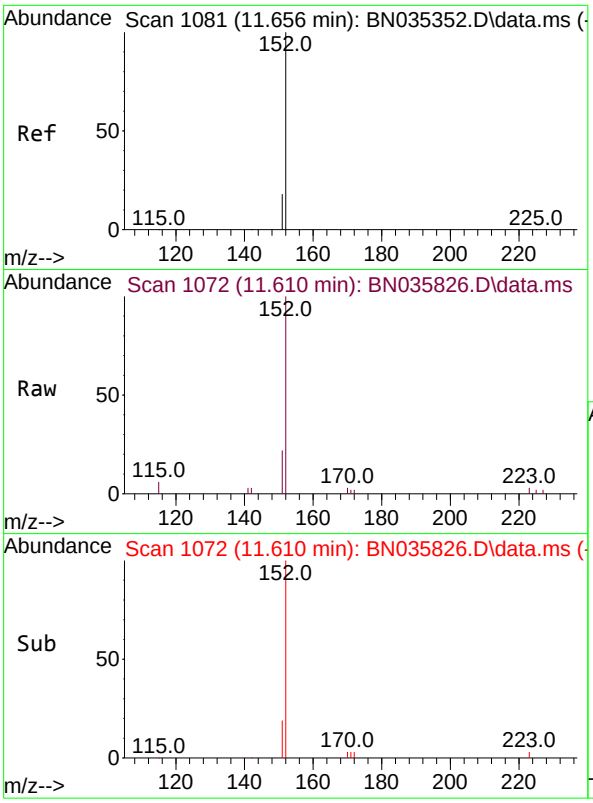



#9
Naphthalene
Concen: 0.022 ng
RT: 10.052 min Scan# 915
Delta R.T. -0.011 min
Lab File: BN035826.D
Acq: 24 Dec 2024 17:53

Tgt Ion:128 Resp: 457

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 32.3 | 9.8 | 14.6# |
| 127 | 29.6 | 11.4 | 17.2# |

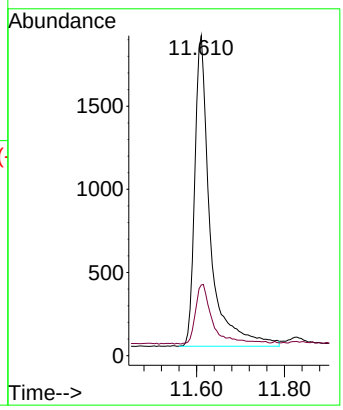





#11
2-Methylnaphthalene-d10
Concen: 0.368 ng
RT: 11.610 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035826.D
Acq: 24 Dec 2024 17:53

Tgt Ion:152 Resp: 456

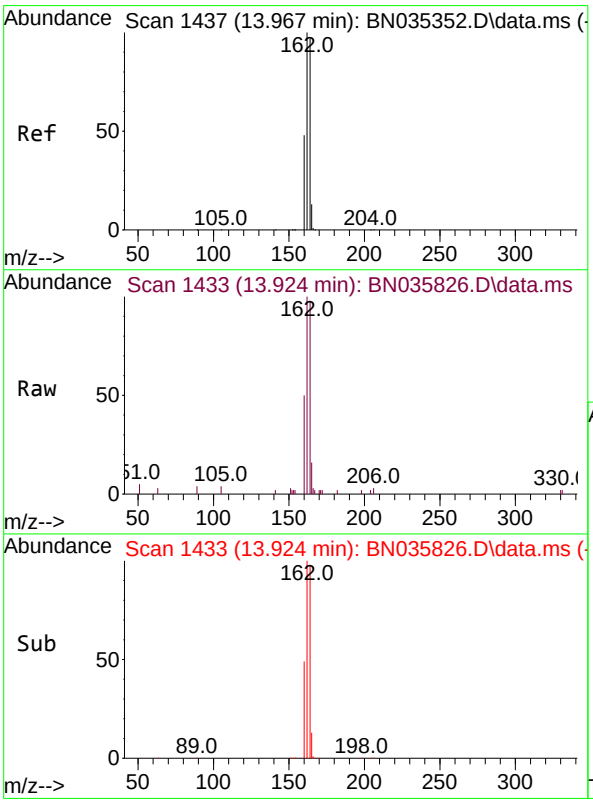
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 21.5 | 16.6 | 25.0 |




**Instrument :**
BNA_N
**ClientSampleId :**
RE117D2-20241218

**Manual Integrations**
**APPROVED**

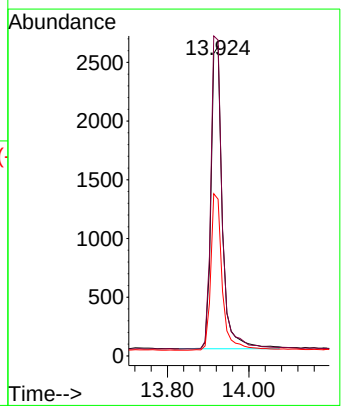
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

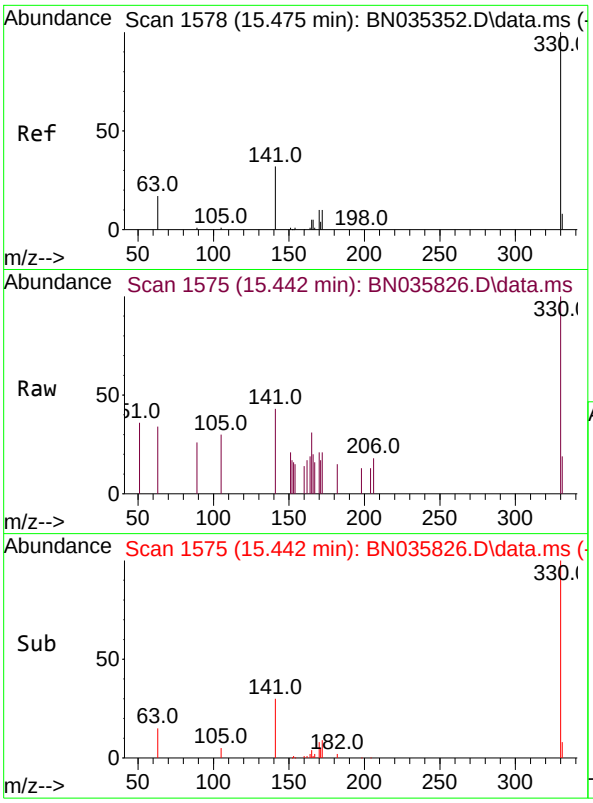



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.924 min Scan# 1433
Delta R.T. -0.011 min
Lab File: BN035826.D
Acq: 24 Dec 2024 17:53

Tgt Ion:164 Resp: 4973

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 102.0 | 82.2 | 123.2 |
| 160 | 50.6 | 40.1 | 60.1 |






#14
2,4,6-Tribromophenol
Concen: 0.205 ng
RT: 15.442 min Scan# 1
Delta R.T. -0.011 min
Lab File: BN035826.D
Acq: 24 Dec 2024 17:53

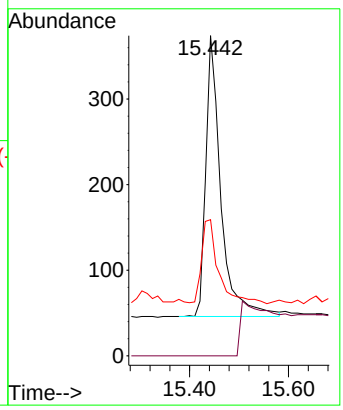
Tgt Ion:330 Resp: 72

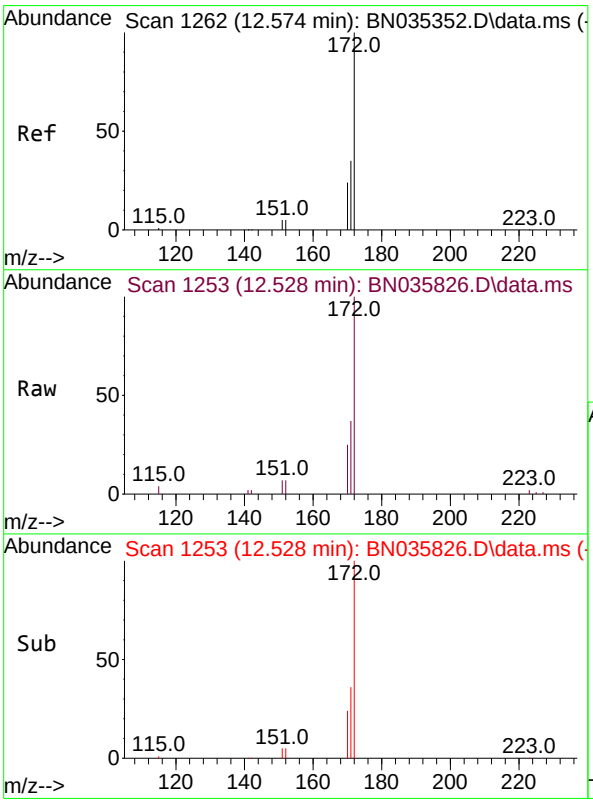
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 0.0 | 0.0 | 0.0 |
| 141 | 33.2 | 26.6 | 40.0 |

**Instrument :**
BNA_N
**ClientSampleId :**
RE117D2-20241218

**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

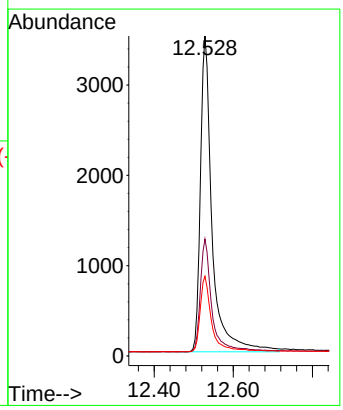


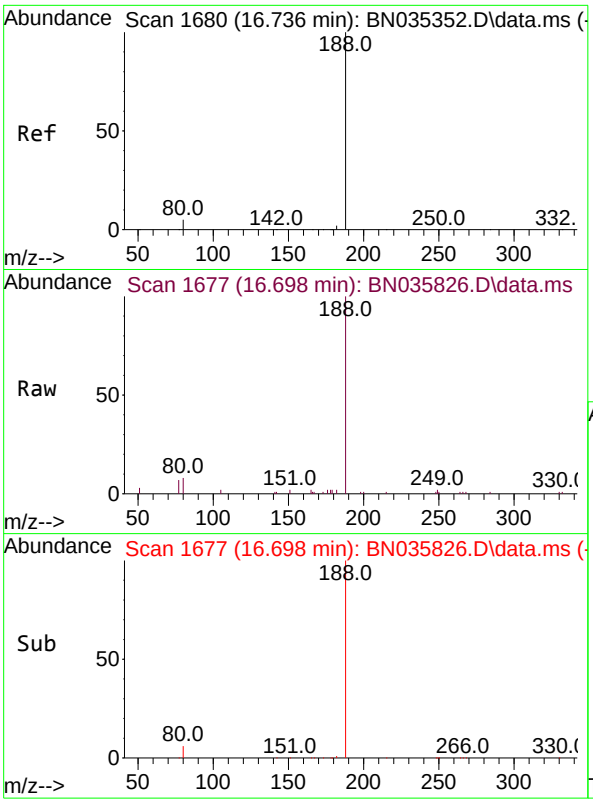




#15
2-Fluorobiphenyl
Concen: 0.384 ng
RT: 12.528 min Scan# 1253
Delta R.T. -0.015 min
Lab File: BN035826.D
Acq: 24 Dec 2024 17:53

Tgt Ion:172 Resp: 7227

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 36.6 | 29.0 | 43.4 |
| 170 | 24.9 | 19.8 | 29.8 |

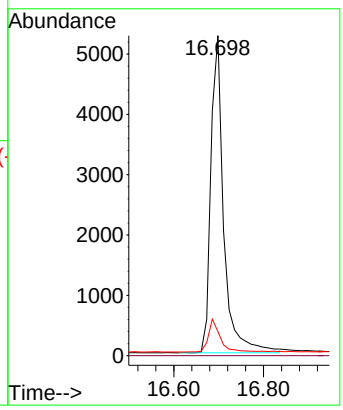





#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035826.D
Acq: 24 Dec 2024 17:53

Tgt Ion:188 Resp: 1038

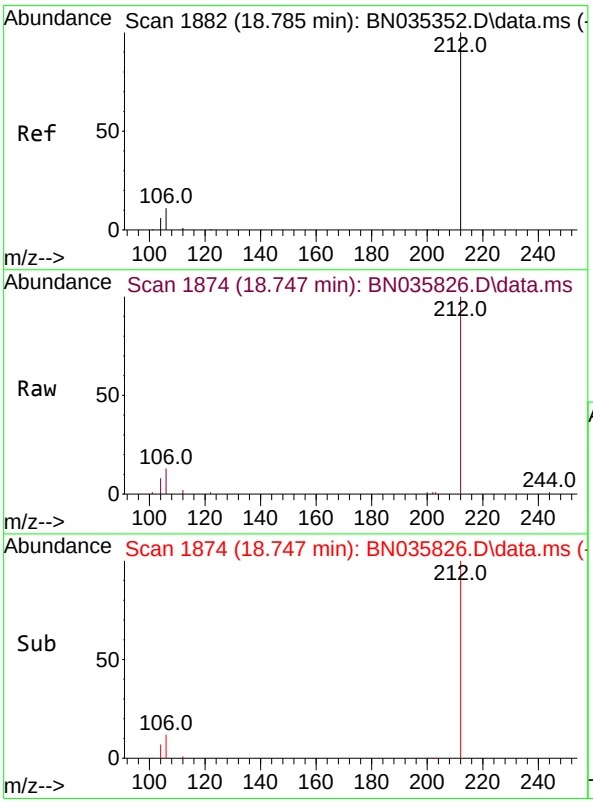
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 7.6 | 4.6 | 6.8# |




**Instrument :**
BNA_N
**ClientSampleId :**
RE117D2-20241218

**Manual Integrations**
**APPROVED**

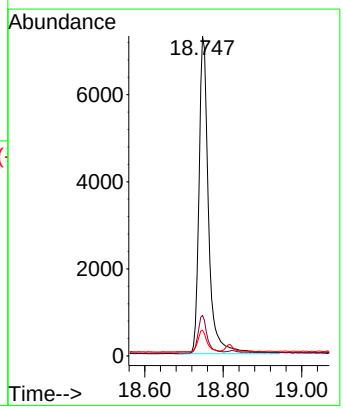
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

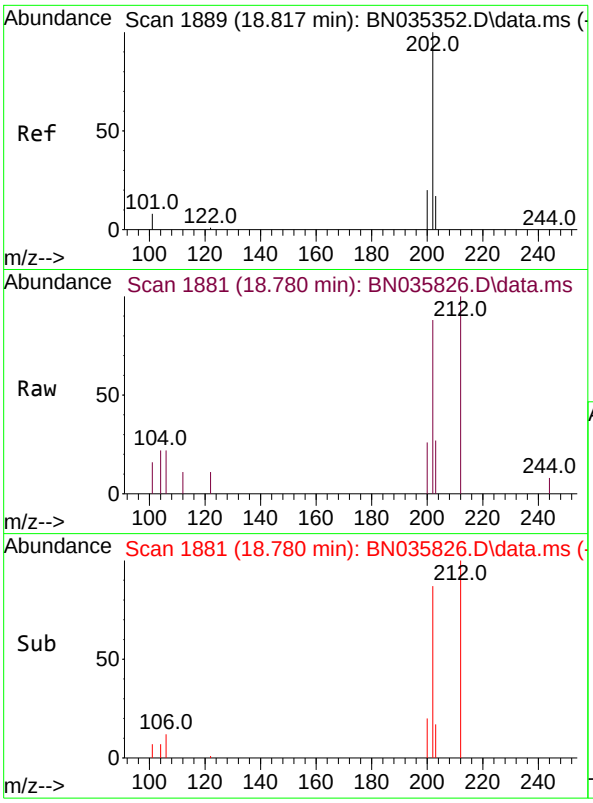



#27
Fluoranthene-d10
Concen: 0.418 ng
RT: 18.747 min Scan# 1874
Delta R.T. -0.014 min
Lab File: BN035826.D
Acq: 24 Dec 2024 17:53

Tgt Ion:212 Resp: 12295

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 11.2 | 9.2 | 13.8 |
| 104 | 6.3 | 5.3 | 7.9 |






#28
Fluoranthene
Concen: 0.020 ng
RT: 18.780 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035826.D
Acq: 24 Dec 2024 17:53

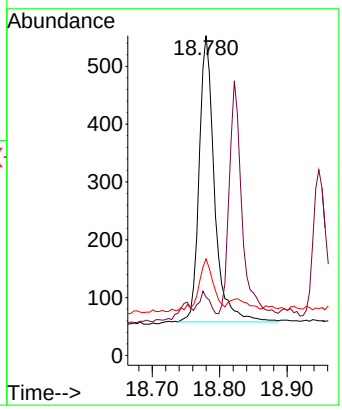
Tgt Ion:202 Resp: 78

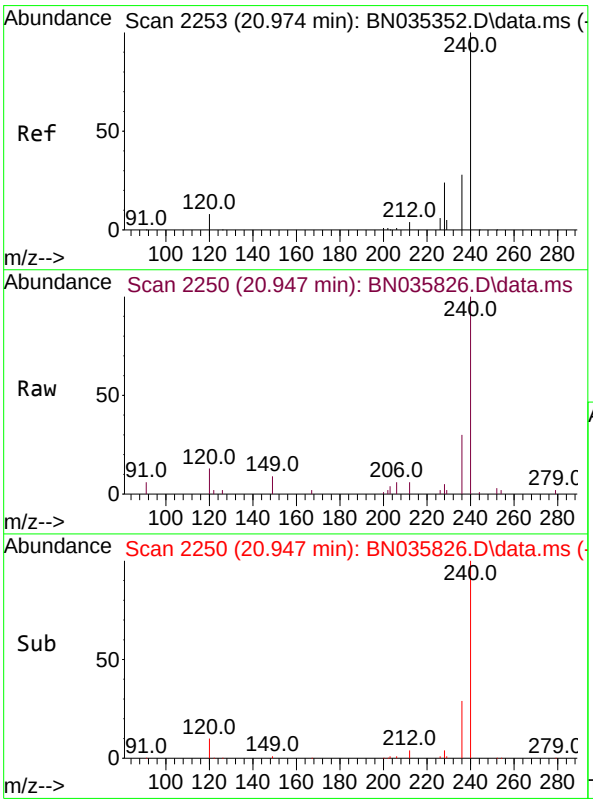
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 5.5 | 7.4 | 11.0# |
| 203 | 18.2 | 13.7 | 20.5 |

**Instrument :**
BNA_N
**ClientSampleId :**
RE117D2-20241218

**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

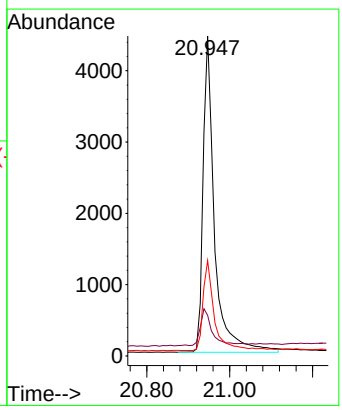


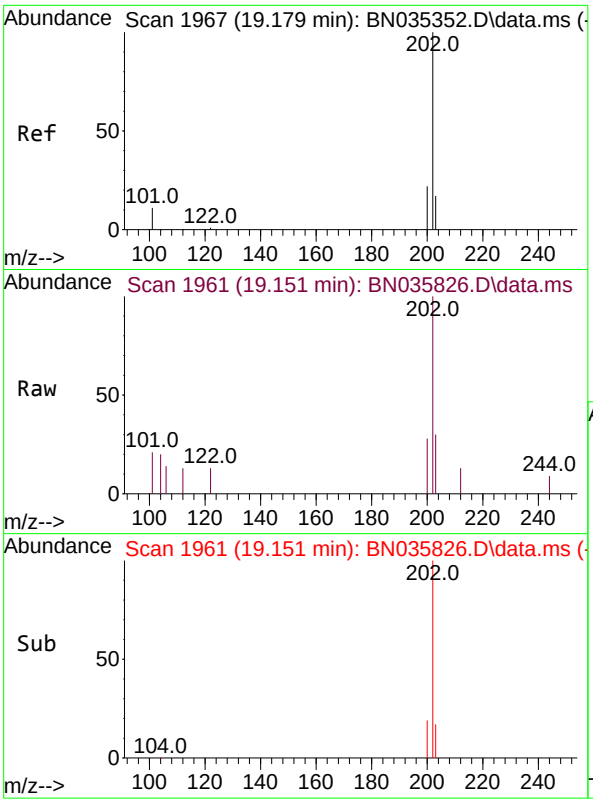




#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2250
Delta R.T. -0.009 min
Lab File: BN035826.D
Acq: 24 Dec 2024 17:53

Tgt Ion:240 Resp: 8532

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 12.7 | 7.9 | 11.9# |
| 236 | 29.8 | 22.9 | 34.3 |

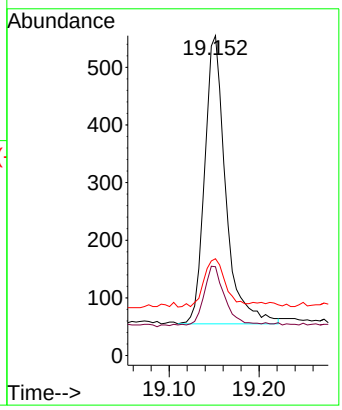





#30
Pyrene
Concen: 0.026 ng
RT: 19.151 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035826.D
Acq: 24 Dec 2024 17:53

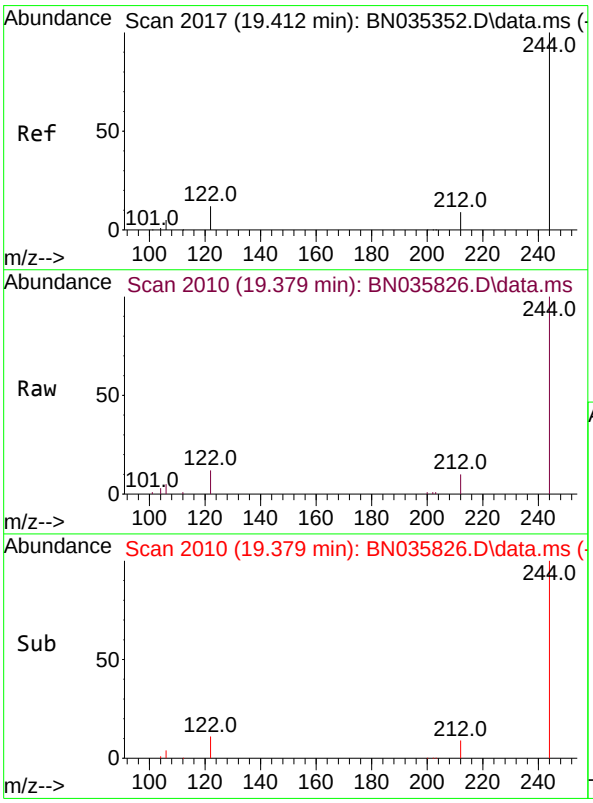
Tgt Ion:202 Resp: 81

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 20.8 | 17.0 | 25.4 |
| 203 | 16.8 | 14.3 | 21.5 |




**Instrument :**
BNA_N
**ClientSampleId :**
RE117D2-20241218

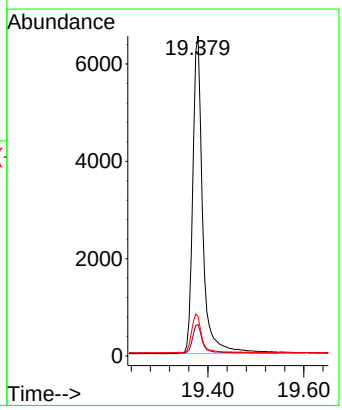
**Manual Integrations**
**APPROVED**
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

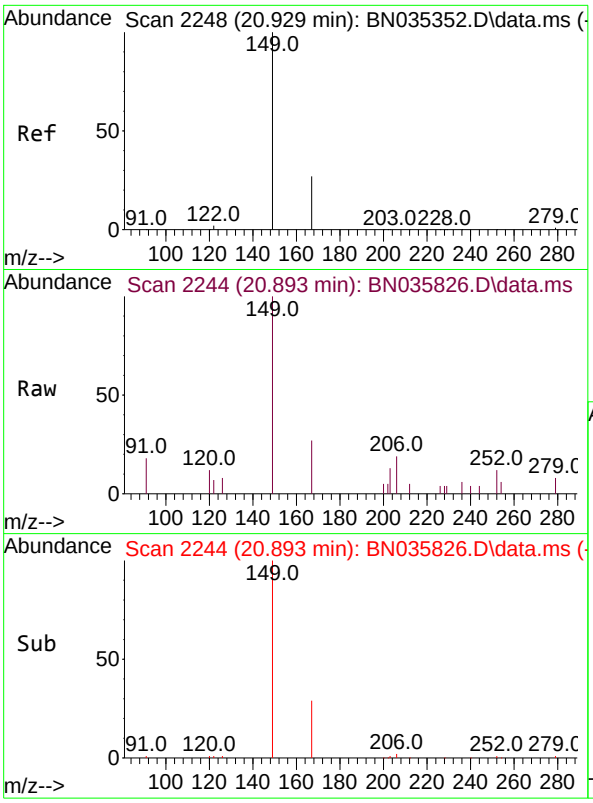



#31
Terphenyl-d14
Concen: 0.564 ng
RT: 19.379 min Scan# 2010
Delta R.T. -0.010 min
Lab File: BN035826.D
Acq: 24 Dec 2024 17:53

Tgt Ion:244 Resp: 9489

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 9.8 | 8.1 | 12.1 |
| 122 | 12.3 | 10.3 | 15.5 |






#34
Bis(2-ethylhexyl)phthalate
Concen: 0.111 ng
RT: 20.893 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035826.D
Acq: 24 Dec 2024 17:53

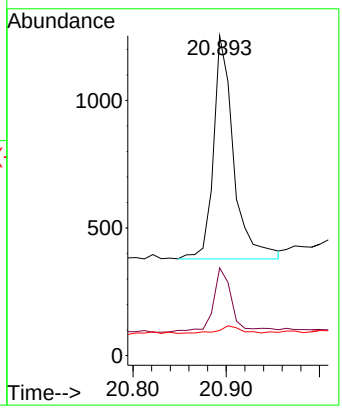
Tgt Ion:149 Resp: 131

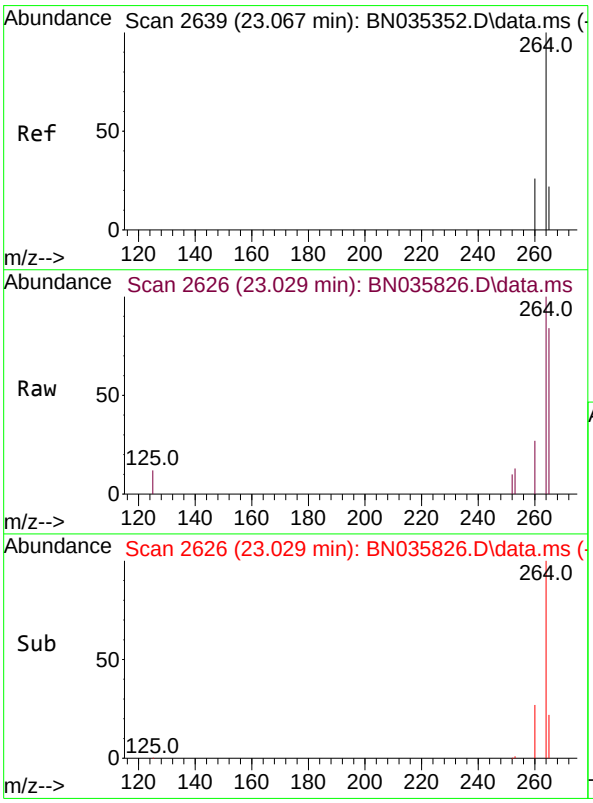
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 23.5 | 22.2 | 33.4 |
| 279 | 3.8 | 2.7 | 4.1 |

**Instrument :**
BNA_N
**ClientSampleId :**
RE117D2-20241218

**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

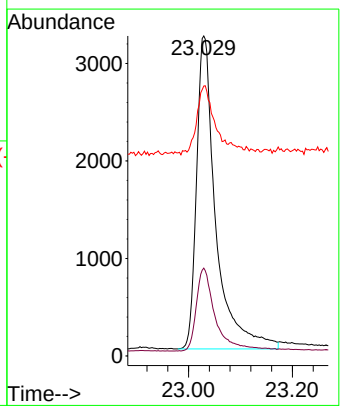



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.029 min Scan# 2626
Delta R.T. -0.012 min
Lab File: BN035826.D
Acq: 24 Dec 2024 17:53

Tgt Ion:264 Resp: 8295

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 27.5 | 21.4 | 32.2 |
| 265 | 84.4 | 40.2 | 60.4# |



Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | AECOM Technical Services, Inc. | Date Collected: | 12/19/24 |
| Project: | NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258 | Date Received: | 12/20/24 |
| Client Sample ID: | TT161S1-20241219 | SDG No.: | P5376 |
| Lab Sample ID: | P5376-14 | Matrix: | Water |
| Analytical Method: | SW8270ESIM | % Solid: | 0 |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-SIMGroup1 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BN035827.D | 1 | 12/23/24 13:29 | 12/24/24 18:29 | PB165828 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 123-91-1 | 1,4-Dioxane | 0.33 | | 0.070 | 0.20 | 0.20 | ug/L |
| **SURROGATES** | | | | | | | |
| 7297-45-2 | 2-Methylnaphthalene-d10 | 0.36 | | 30 - 150 | | 91% | SPK: 0.4 |
| 93951-69-0 | Fluoranthene-d10 | 0.40 | | 30 - 150 | | 99% | SPK: 0.4 |
| 4165-60-0 | Nitrobenzene-d5 | 0.42 | | 55 - 111 | | 105% | SPK: 0.4 |
| 321-60-8 | 2-Fluorobiphenyl | 0.40 | | 53 - 106 | | 99% | SPK: 0.4 |
| 1718-51-0 | Terphenyl-d14 | 0.56 | * | 58 - 132 | | 140% | SPK: 0.4 |
| **INTERNAL STANDARDS** | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 3270 | 7.264 | | | | |
| 1146-65-2 | Naphthalene-d8 | 7880 | 10.009 | | | | |
| 15067-26-2 | Acenaphthene-d10 | 4840 | 13.924 | | | | |
| 1517-22-2 | Phenanthrene-d10 | 9400 | 16.698 | | | | |
| 1719-03-5 | Chrysene-d12 | 7090 | 20.947 | | | | |
| 1520-96-3 | Perylene-d12 | 6740 | 23.032 | | | | |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035827.D
Acq On : 24 Dec 2024 18:29
Operator : RC/JU
Sample : P5376-14
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
TT161S1-20241219

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

Quant Time: Dec 24 23:20:32 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.264 | 152 | 3265 | 0.400 | ng | 0.00 |
| 7) Naphthalene-d8 | 10.009 | 136 | 7883 | 0.400 | ng | #-0.01 |
| 13) Acenaphthene-d10 | 13.924 | 164 | 4842 | 0.400 | ng | -0.01 |
| 19) Phenanthrene-d10 | 16.698 | 188 | 9395 | 0.400 | ng | # 0.00 |
| 29) Chrysene-d12 | 20.947 | 240 | 7091 | 0.400 | ng | # 0.00 |
| 35) Perylene-d12 | 23.032 | 264 | 6735 | 0.400 | ng | # 0.00 |
| System Monitoring Compounds | | | | | | |
| 4) 2-Fluorophenol | 4.924 | 112 | 907 | 0.111 | ng | -0.01 |
| 5) Phenol-d6 | 6.484 | 99 | 487 | 0.050 | ng | 0.00 |
| 8) Nitrobenzene-d5 | 8.408 | 82 | 2033m | 0.422 | ng | 0.00 |
| 11) 2-Methylnaphthalene-d10 | 11.610 | 152 | 4487 | 0.364 | ng | -0.01 |
| 14) 2,4,6-Tribromophenol | 15.443 | 330 | 681 | 0.198 | ng | -0.01 |
| 15) 2-Fluorobiphenyl | 12.528 | 172 | 7221 | 0.395 | ng | -0.02 |
| 27) Fluoranthene-d10 | 18.747 | 212 | 10577 | 0.397 | ng | -0.01 |
| 31) Terphenyl-d14 | 19.379 | 244 | 7825 | 0.559 | ng | 0.00 |
| Target Compounds | | | | | | Qvalue |
| 2) 1,4-Dioxane | 2.974 | 88 | 1019 | 0.326 | ng | # 95 |
| 34) Bis(2-ethylhexyl)phtha... | 20.893 | 149 | 896 | 0.091 | ng | # 98 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

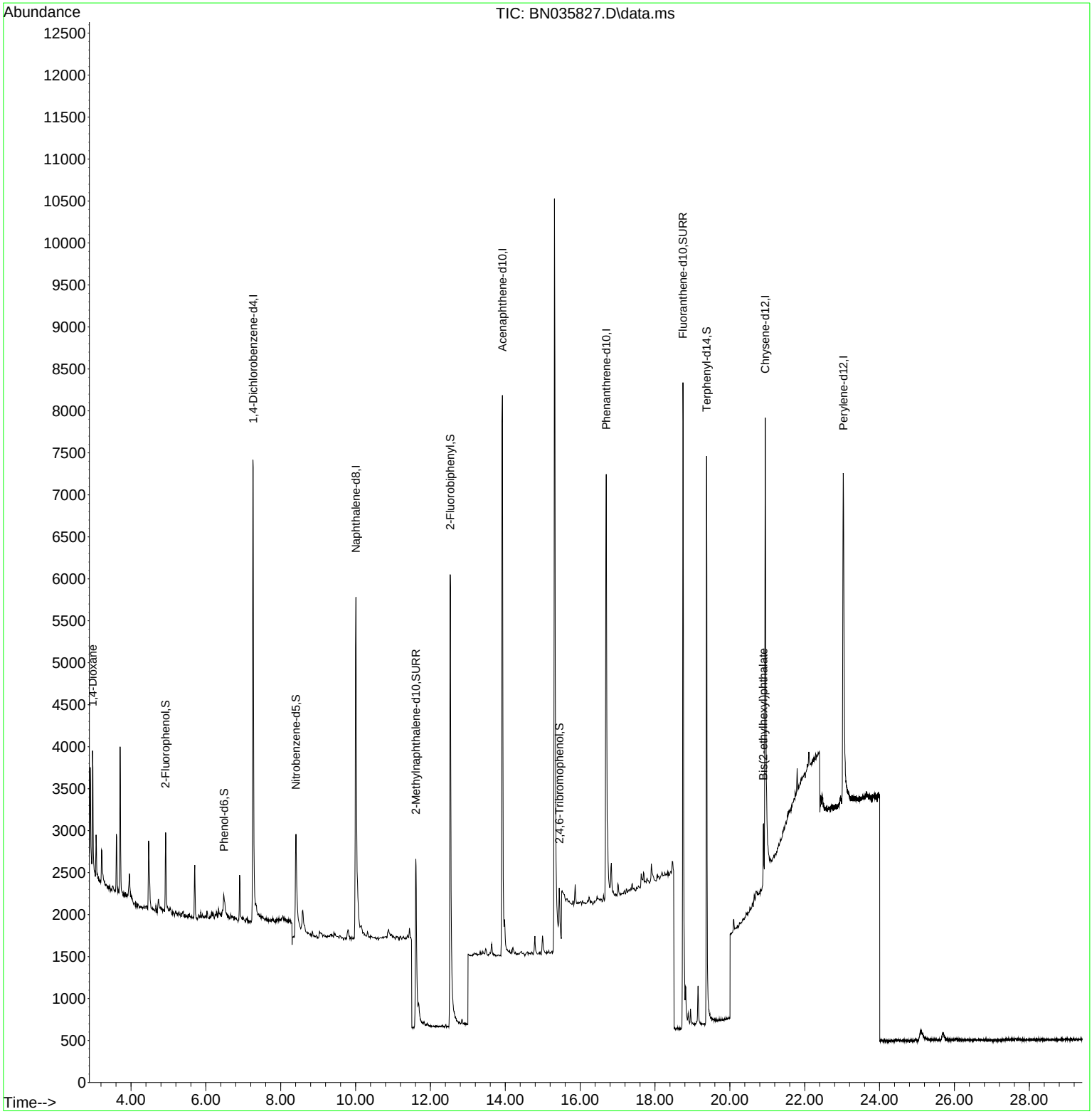
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035827.D
Acq On : 24 Dec 2024 18:29
Operator : RC/JU
Sample : P5376-14
Misc :
ALS Vial : 18 Sample Multiplier: 1

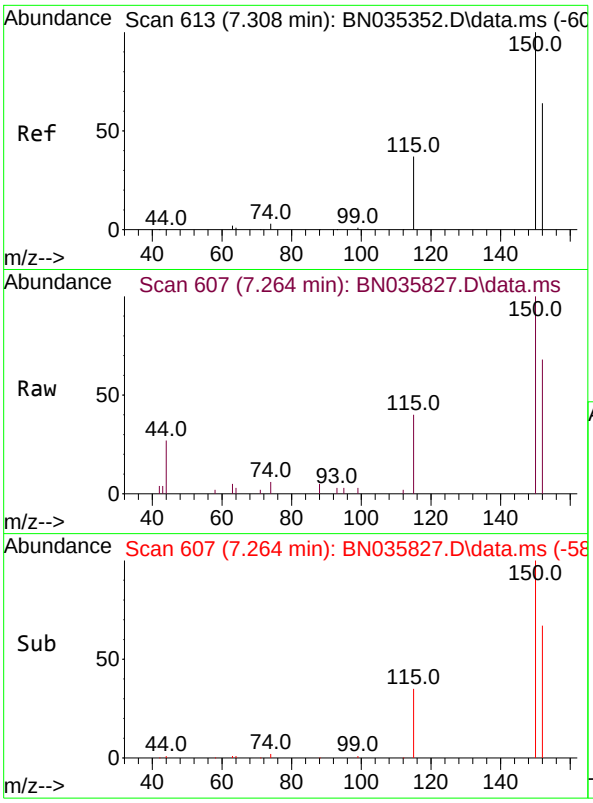
Quant Time: Dec 24 23:20:32 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

**Instrument :**
BNA_N
**ClientSampleId :**
TT161S1-20241219

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 12/25/2024
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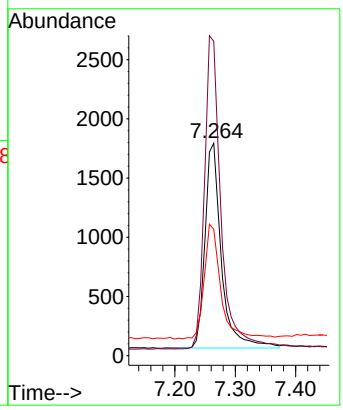





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.264 min Scan# 6
Delta R.T. -0.008 min
Lab File: BN035827.D
Acq: 24 Dec 2024 18:29

Tgt Ion:152 Resp: 326

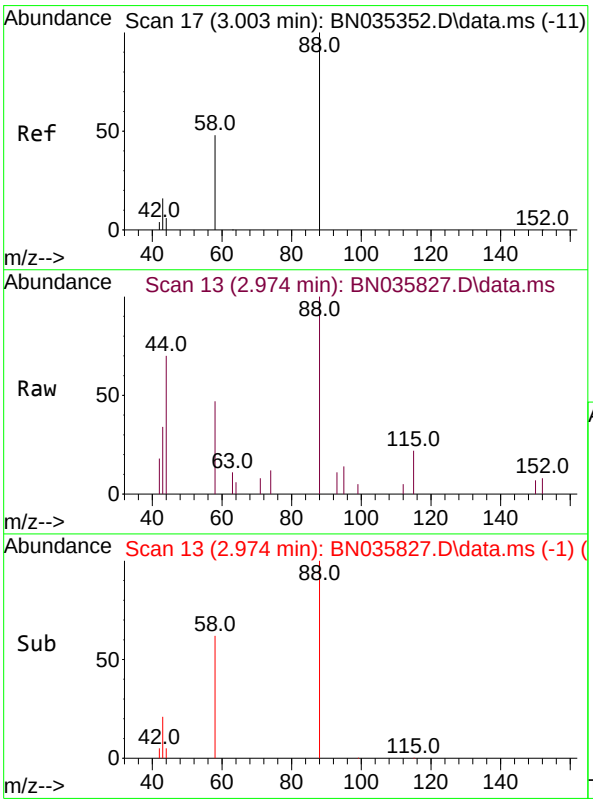
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 148.0 | 124.0 | 186.0 |
| 115 | 59.5 | 49.6 | 74.4 |




**Instrument :**
BNA_N
**ClientSampleId :**
TT161S1-20241219

**Manual Integrations**
**APPROVED**

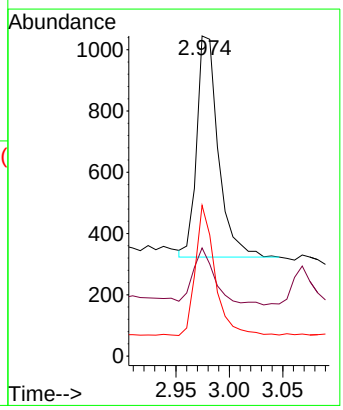
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

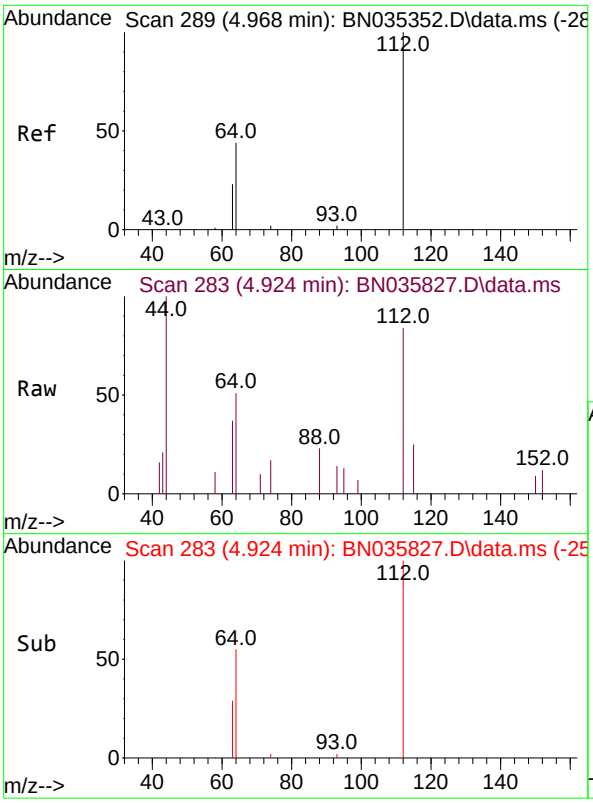



#2
1,4-Dioxane
Concen: 0.326 ng
RT: 2.974 min Scan# 13
Delta R.T. -0.007 min
Lab File: BN035827.D
Acq: 24 Dec 2024 18:29

Tgt Ion: 88 Resp: 1019

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 26.0 | 17.2 | 25.8# |
| 58 | 53.1 | 44.5 | 66.7 |






#4
2-Fluorophenol
Concen: 0.111 ng
RT: 4.924 min Scan# 2
Delta R.T. -0.015 min
Lab File: BN035827.D
Acq: 24 Dec 2024 18:29

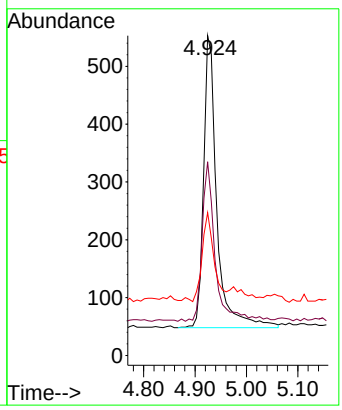
Tgt Ion:112 Resp: 90

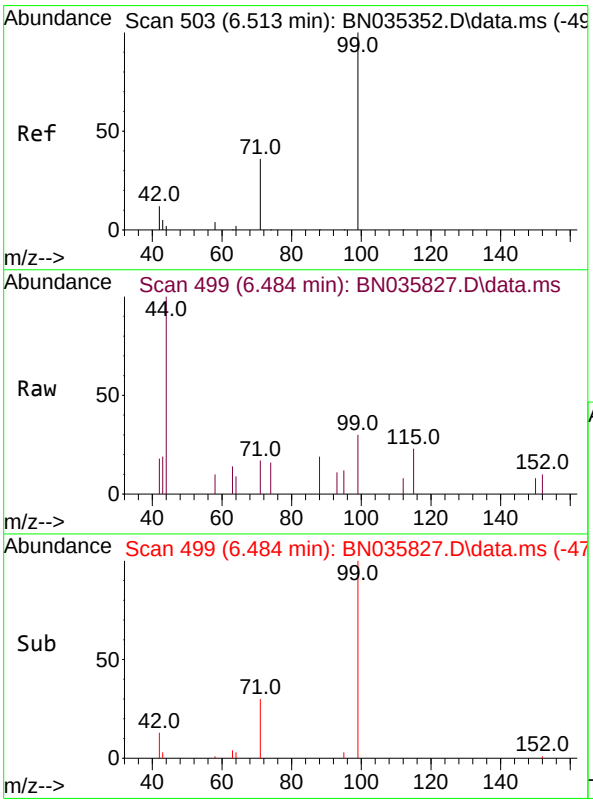
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 53.8 | 39.8 | 59.8 |
| 63 | 26.7 | 21.0 | 31.6 |

**Instrument :**
BNA_N
**ClientSampleId :**
TT161S1-20241219

**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

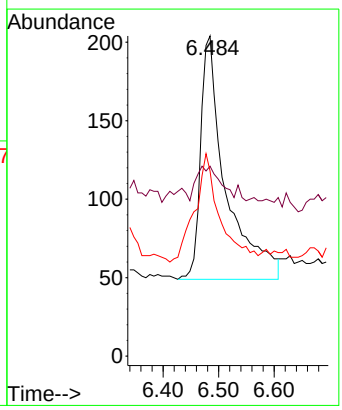


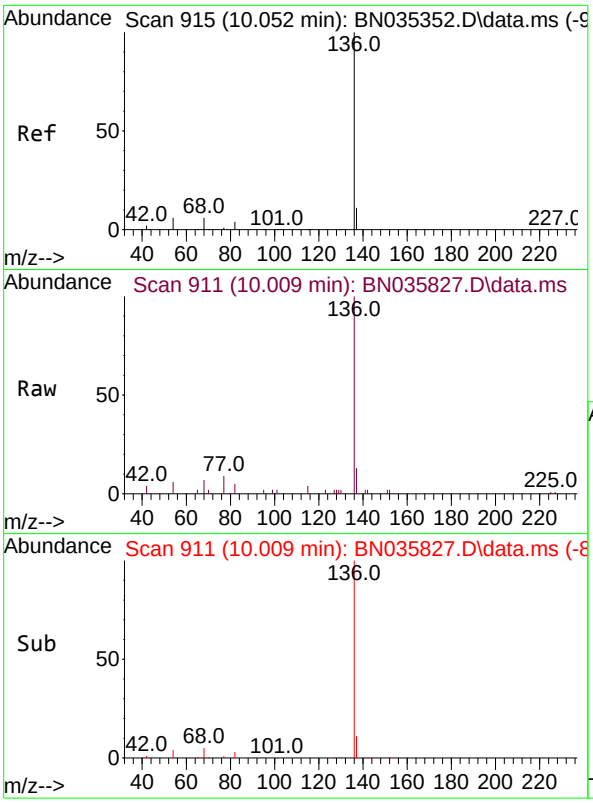




#5
Phenol-d6
Concen: 0.050 ng
RT: 6.484 min Scan# 499
Delta R.T. -0.007 min
Lab File: BN035827.D
Acq: 24 Dec 2024 18:29

Tgt Ion: 99 Resp: 487

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 13.3 | 11.4 | 17.2 |
| 71 | 44.6 | 29.3 | 43.9# |

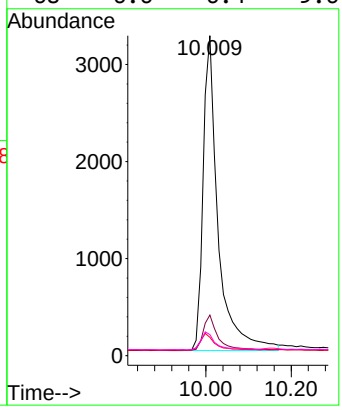





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN035827.D
Acq: 24 Dec 2024 18:29

Tgt Ion:136 Resp: 788

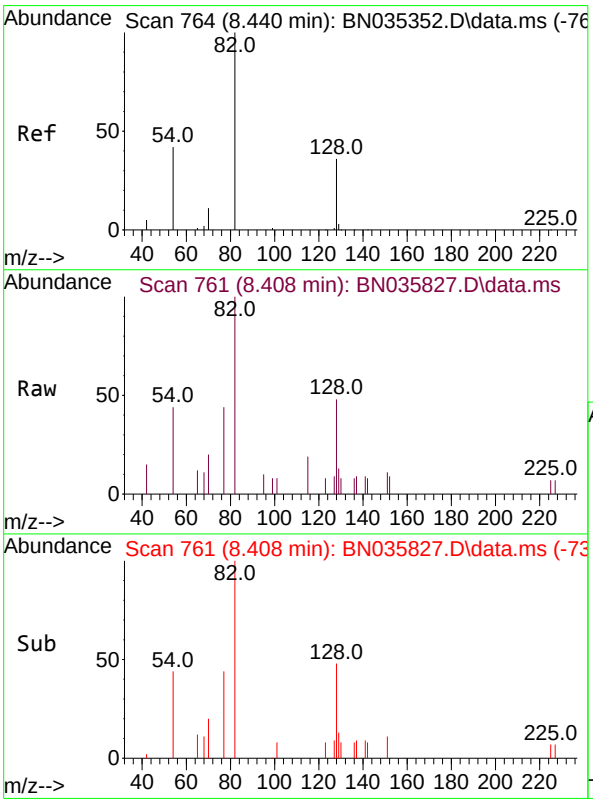
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 12.7 | 10.2 | 15.2 |
| 54 | 5.7 | 6.1 | 9.1 |
| 68 | 6.6 | 6.4 | 9.6 |




**Instrument :**
BNA_N
**ClientSampleId :**
TT161S1-20241219

**Manual Integrations**
**APPROVED**

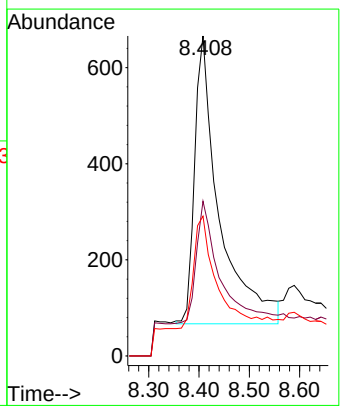
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

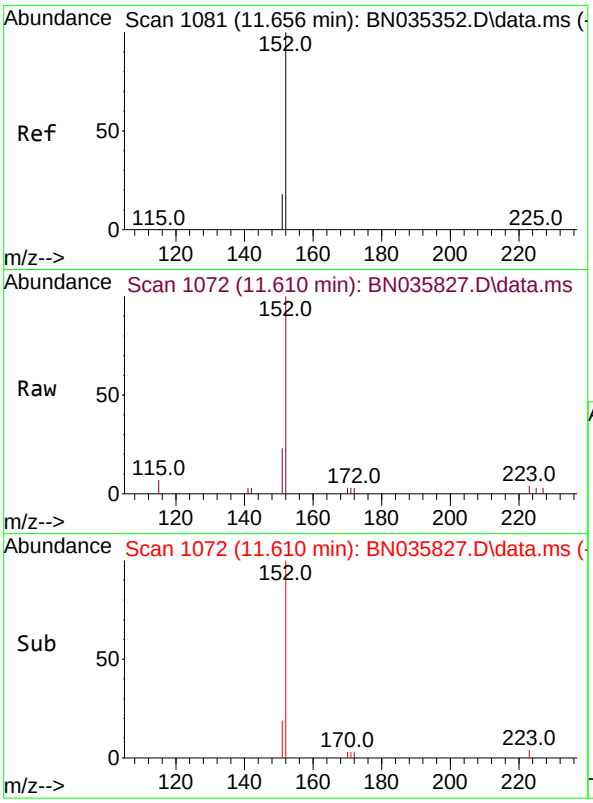



#8
Nitrobenzene-d5
Concen: 0.422 ng m
RT: 8.408 min Scan# 761
Delta R.T. -0.000 min
Lab File: BN035827.D
Acq: 24 Dec 2024 18:29

Tgt Ion: 82 Resp: 2033

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 48.3 | 33.4 | 50.0 |
| 54 | 43.7 | 36.7 | 55.1 |

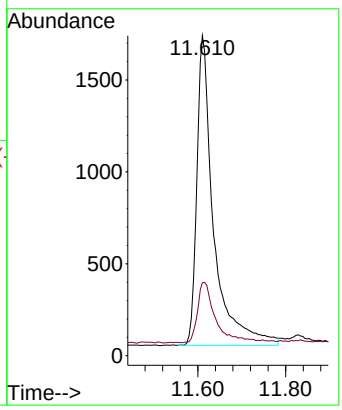





#11
2-Methylnaphthalene-d10
Concen: 0.364 ng
RT: 11.610 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035827.D
Acq: 24 Dec 2024 18:29

Tgt Ion:152 Resp: 448

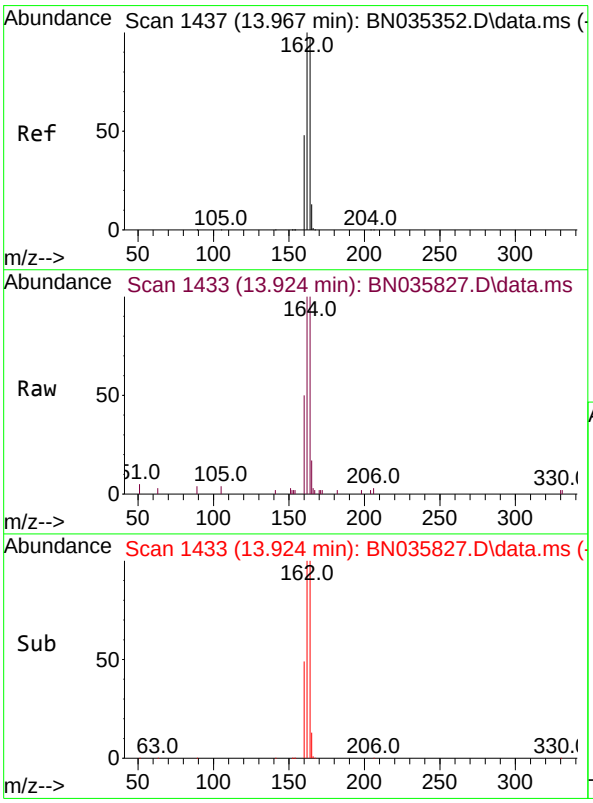
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.8 | 16.6 | 25.0 |




**Instrument :**
BNA_N
**ClientSampleId :**
TT161S1-20241219

**Manual Integrations**
**APPROVED**

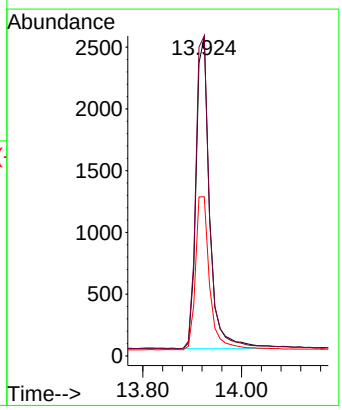
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

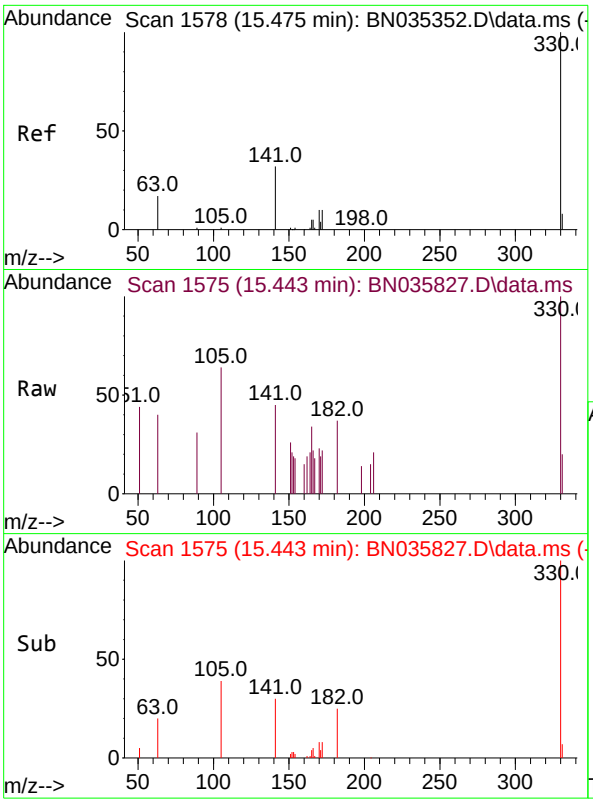



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.924 min Scan# 1433
Delta R.T. -0.011 min
Lab File: BN035827.D
Acq: 24 Dec 2024 18:29

Tgt Ion:164 Resp: 4842

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 100.3 | 82.2 | 123.2 |
| 160 | 49.9 | 40.1 | 60.1 |

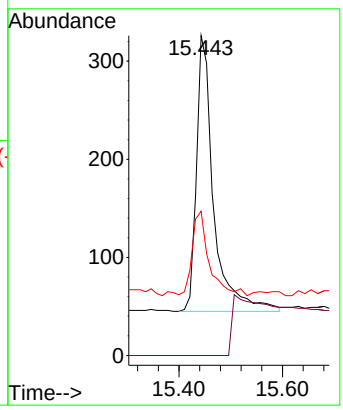





#14
2,4,6-Tribromophenol
Concen: 0.198 ng
RT: 15.443 min Scan# 1
Delta R.T. -0.011 min
Lab File: BN035827.D
Acq: 24 Dec 2024 18:29

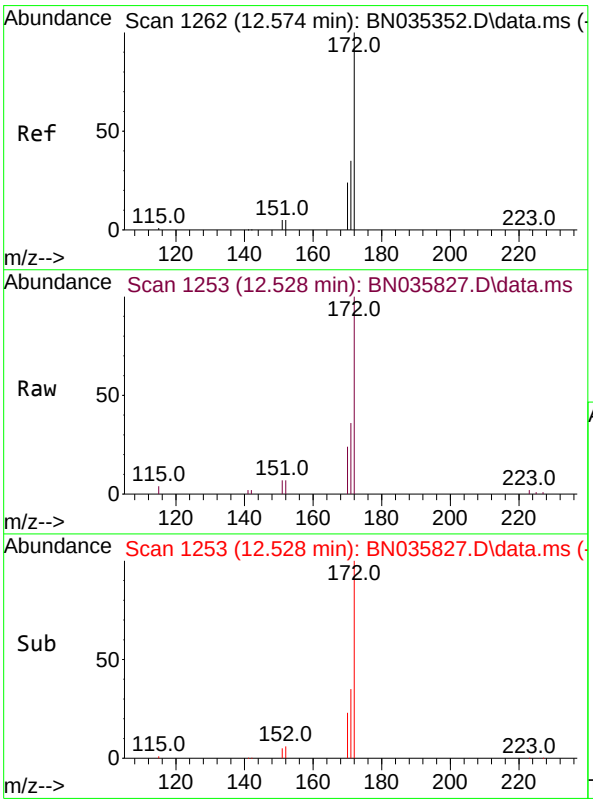
Tgt Ion:330 Resp: 68

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 0.0 | 0.0 | 0.0 |
| 141 | 29.8 | 26.6 | 40.0 |




**Instrument :**
BNA_N
**ClientSampleId :**
TT161S1-20241219

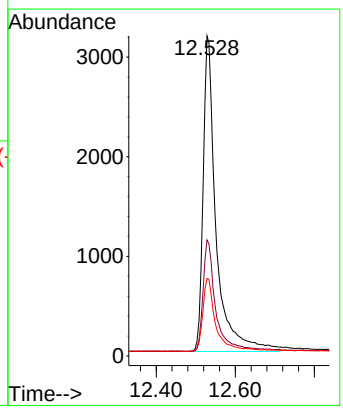
**Manual Integrations**
**APPROVED**
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

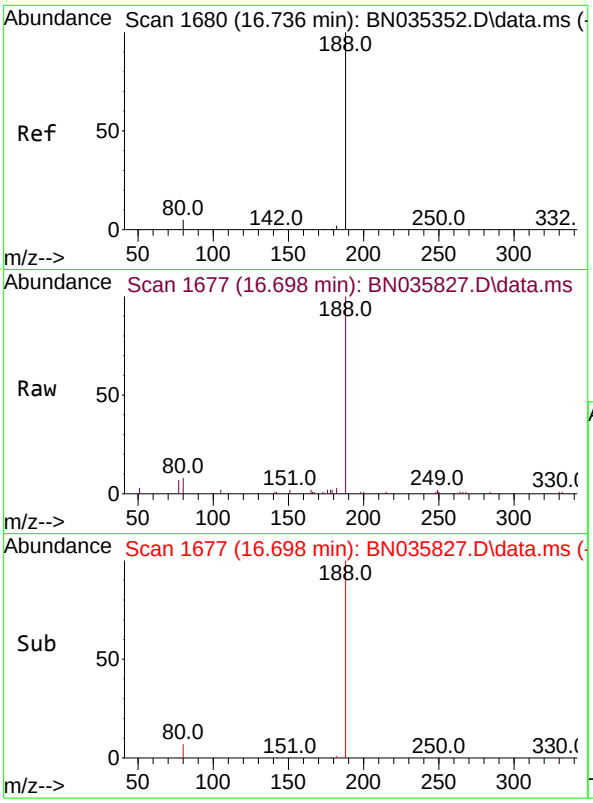



#15
2-Fluorobiphenyl
Concen: 0.395 ng
RT: 12.528 min Scan# 1253
Delta R.T. -0.015 min
Lab File: BN035827.D
Acq: 24 Dec 2024 18:29

Tgt Ion:172 Resp: 7221

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 36.3 | 29.0 | 43.4 |
| 170 | 24.2 | 19.8 | 29.8 |

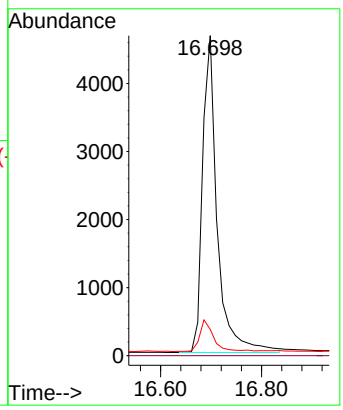





#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035827.D
Acq: 24 Dec 2024 18:29

Tgt Ion:188 Resp: 939

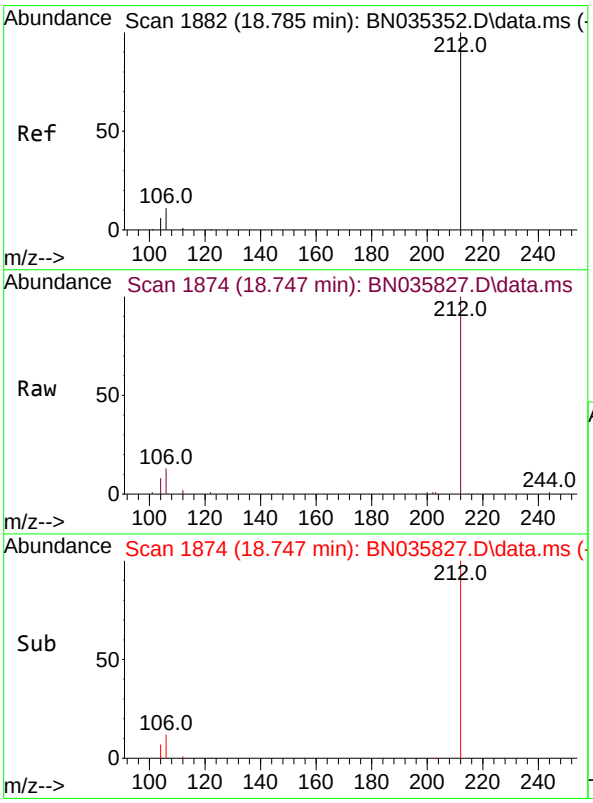
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 8.2 | 4.6 | 6.8 |




**Instrument :**
BNA_N
**ClientSampleId :**
TT161S1-20241219

**Manual Integrations**
**APPROVED**

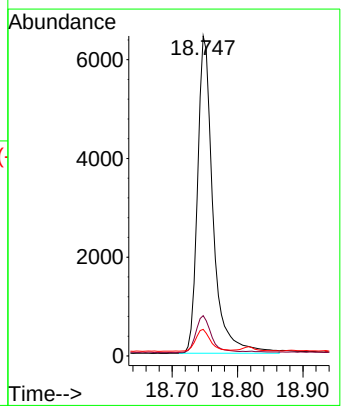
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

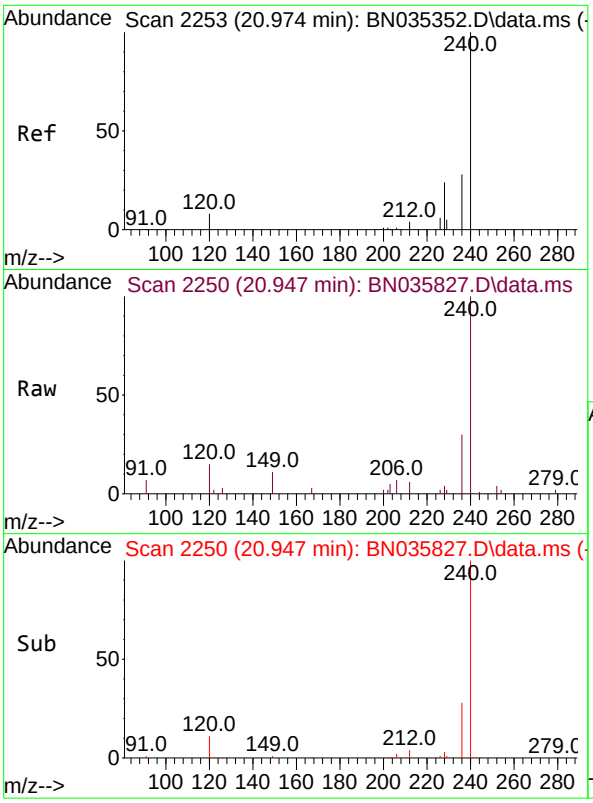



#27
Fluoranthene-d10
Concen: 0.397 ng
RT: 18.747 min Scan# 1874
Delta R.T. -0.014 min
Lab File: BN035827.D
Acq: 24 Dec 2024 18:29

Tgt Ion:212 Resp: 10577

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 11.7 | 9.2 | 13.8 |
| 104 | 6.7 | 5.3 | 7.9 |

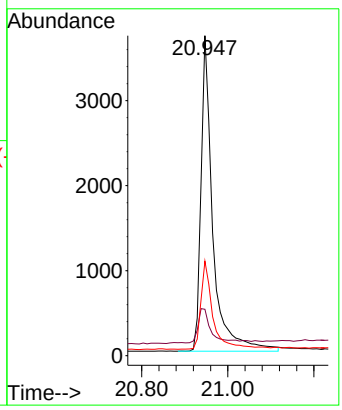





#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035827.D
Acq: 24 Dec 2024 18:29

Tgt Ion:240 Resp: 709

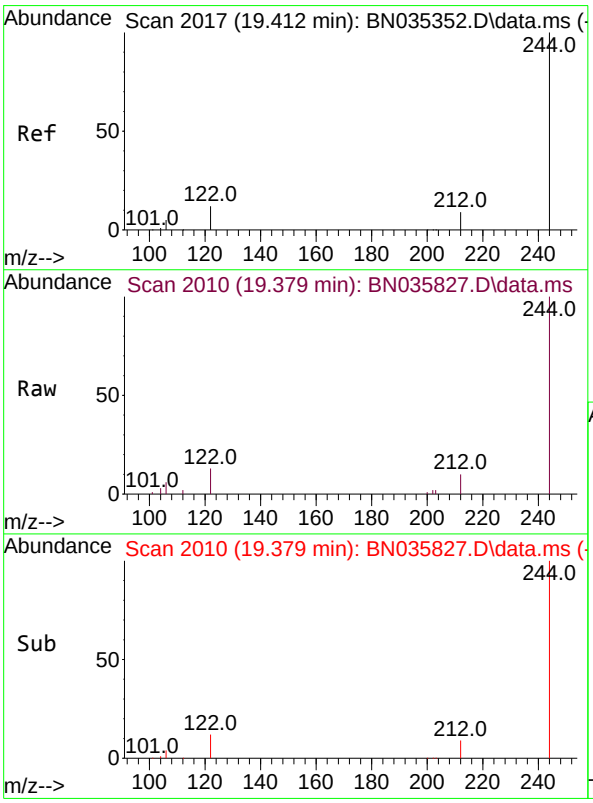
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 14.5 | 7.9 | 11.9 |
| 236 | 29.6 | 22.9 | 34.3 |




**Instrument :**
BNA_N
**ClientSampleId :**
TT161S1-20241219

**Manual Integrations**
**APPROVED**

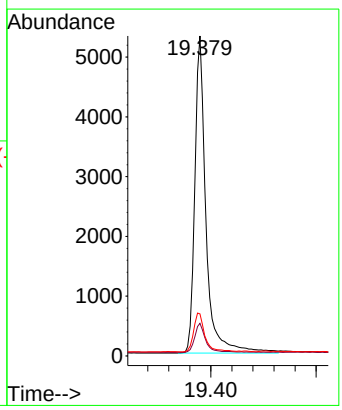
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

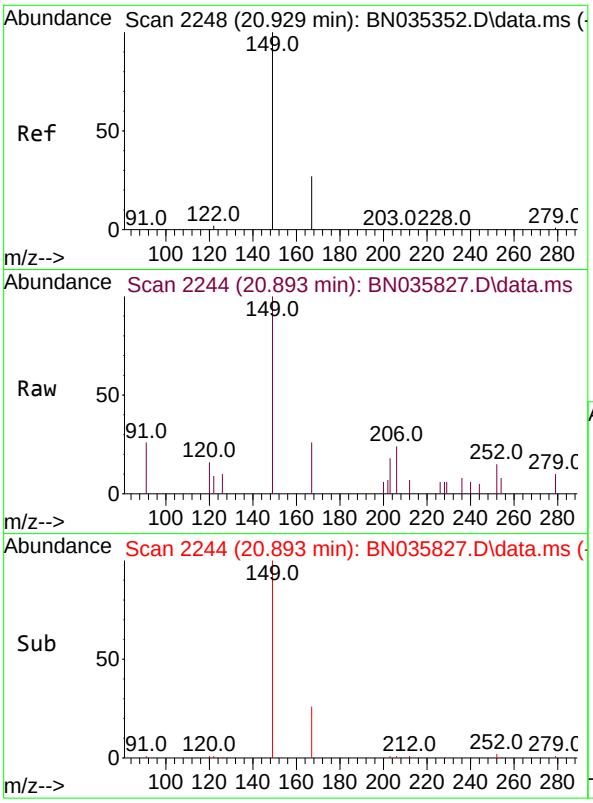



#31
Terphenyl-d14
Concen: 0.559 ng
RT: 19.379 min Scan# 2010
Delta R.T. -0.009 min
Lab File: BN035827.D
Acq: 24 Dec 2024 18:29

Tgt Ion:244 Resp: 7825

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 10.2 | 8.1 | 12.1 |
| 122 | 13.1 | 10.3 | 15.5 |

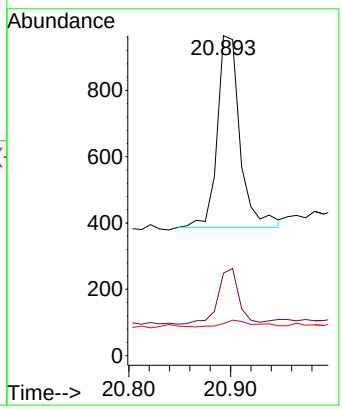





#34
Bis(2-ethylhexyl)phthalate
Concen: 0.091 ng
RT: 20.893 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035827.D
Acq: 24 Dec 2024 18:29

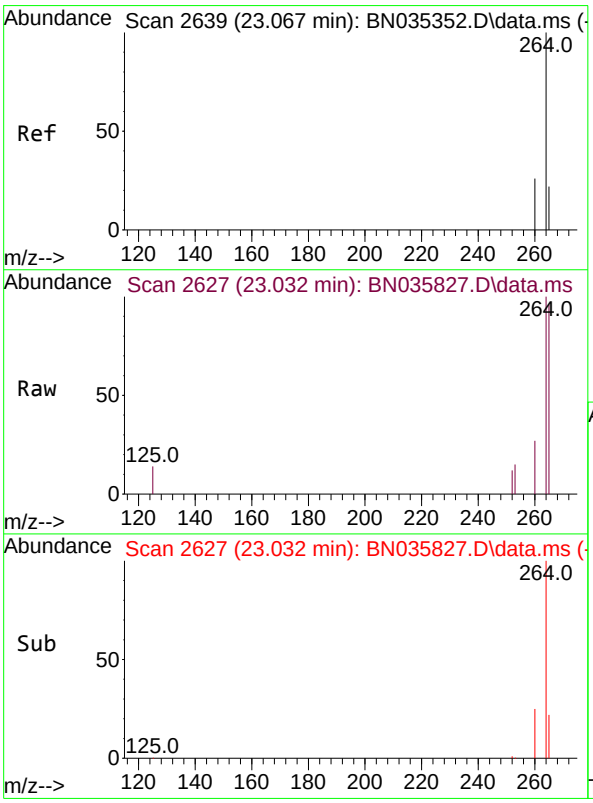
Tgt Ion:149 Resp: 89

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 26.8 | 22.2 | 33.4 |
| 279 | 4.6 | 2.7 | 4.1# |




**Instrument :**
BNA_N
**ClientSampleId :**
TT161S1-20241219

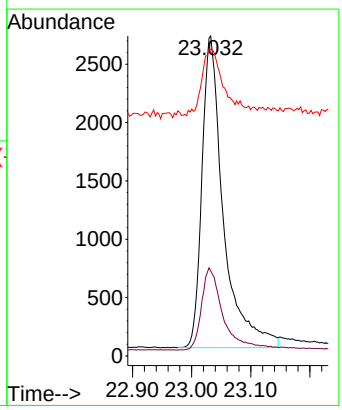
**Manual Integrations**
**APPROVED**
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.032 min Scan# 2627
Delta R.T. -0.009 min
Lab File: BN035827.D
Acq: 24 Dec 2024 18:29

Tgt Ion:264 Resp: 6735

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 26.6 | 21.4 | 32.2 |
| 265 | 95.8 | 40.2 | 60.4# |



Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | AECOM Technical Services, Inc. | Date Collected: | 12/19/24 |
| Project: | NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258 | Date Received: | 12/20/24 |
| Client Sample ID: | TT162S1-20241219 | SDG No.: | P5376 |
| Lab Sample ID: | P5376-15 | Matrix: | Water |
| Analytical Method: | SW8270ESIM | % Solid: | 0 |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-SIMGroup1 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BN035847.D | 1 | 12/23/24 13:29 | 12/26/24 11:20 | PB165828 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 123-91-1 | 1,4-Dioxane | 0.34 | | 0.070 | 0.20 | 0.20 | ug/L |
| **SURROGATES** | | | | | | | |
| 7297-45-2 | 2-Methylnaphthalene-d10 | 0.35 | | 30 - 150 | | 88% | SPK: 0.4 |
| 93951-69-0 | Fluoranthene-d10 | 0.39 | | 30 - 150 | | 98% | SPK: 0.4 |
| 4165-60-0 | Nitrobenzene-d5 | 0.46 | * | 55 - 111 | | 114% | SPK: 0.4 |
| 321-60-8 | 2-Fluorobiphenyl | 0.39 | | 53 - 106 | | 98% | SPK: 0.4 |
| 1718-51-0 | Terphenyl-d14 | 0.54 | * | 58 - 132 | | 134% | SPK: 0.4 |
| **INTERNAL STANDARDS** | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 3700 | 7.257 | | | | |
| 1146-65-2 | Naphthalene-d8 | 8880 | 9.999 | | | | |
| 15067-26-2 | Acenaphthene-d10 | 5150 | 13.914 | | | | |
| 1517-22-2 | Phenanthrene-d10 | 10600 | 16.686 | | | | |
| 1719-03-5 | Chrysene-d12 | 8140 | 20.947 | | | | |
| 1520-96-3 | Perylene-d12 | 8010 | 23.026 | | | | |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
Data File : BN035847.D
Acq On : 26 Dec 2024 11:20
Operator : RC/JU
Sample : P5376-15
Misc :
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
TT162S1-20241219

**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

Quant Time: Dec 27 00:40:32 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.257 | 152 | 3703 | 0.400 | ng | -0.01 |
| 7) Naphthalene-d8 | 9.999 | 136 | 8876 | 0.400 | ng | #-0.02 |
| 13) Acenaphthene-d10 | 13.914 | 164 | 5154 | 0.400 | ng | -0.02 |
| 19) Phenanthrene-d10 | 16.686 | 188 | 10596 | 0.400 | ng | #-0.01 |
| 29) Chrysene-d12 | 20.947 | 240 | 8138 | 0.400 | ng | 0.00 |
| 35) Perylene-d12 | 23.026 | 264 | 8007 | 0.400 | ng | #-0.01 |
| System Monitoring Compounds | | | | | | |
| 4) 2-Fluorophenol | 4.917 | 112 | 1078 | 0.116 | ng | -0.02 |
| 5) Phenol-d6 | 6.470 | 99 | 611 | 0.055 | ng | -0.02 |
| 8) Nitrobenzene-d5 | 8.397 | 82 | 2468m | 0.455 | ng | -0.01 |
| 11) 2-Methylnaphthalene-d10 | 11.600 | 152 | 4895 | 0.352 | ng | -0.02 |
| 14) 2,4,6-Tribromophenol | 15.443 | 330 | 808 | 0.221 | ng | -0.01 |
| 15) 2-Fluorobiphenyl | 12.523 | 172 | 7648 | 0.393 | ng | -0.02 |
| 27) Fluoranthene-d10 | 18.747 | 212 | 11741 | 0.391 | ng | -0.01 |
| 31) Terphenyl-d14 | 19.375 | 244 | 8616 | 0.537 | ng | -0.01 |
| Target Compounds | | | | | | Qvalue |
| 2) 1,4-Dioxane | 2.974 | 88 | 1214 | 0.343 | ng | 98 |
| 30) Pyrene | 19.147 | 202 | 618 | 0.021 | ng | 97 |
| 34) Bis(2-ethylhexyl)phtha... | 20.893 | 149 | 1284 | 0.114 | ng | # 96 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

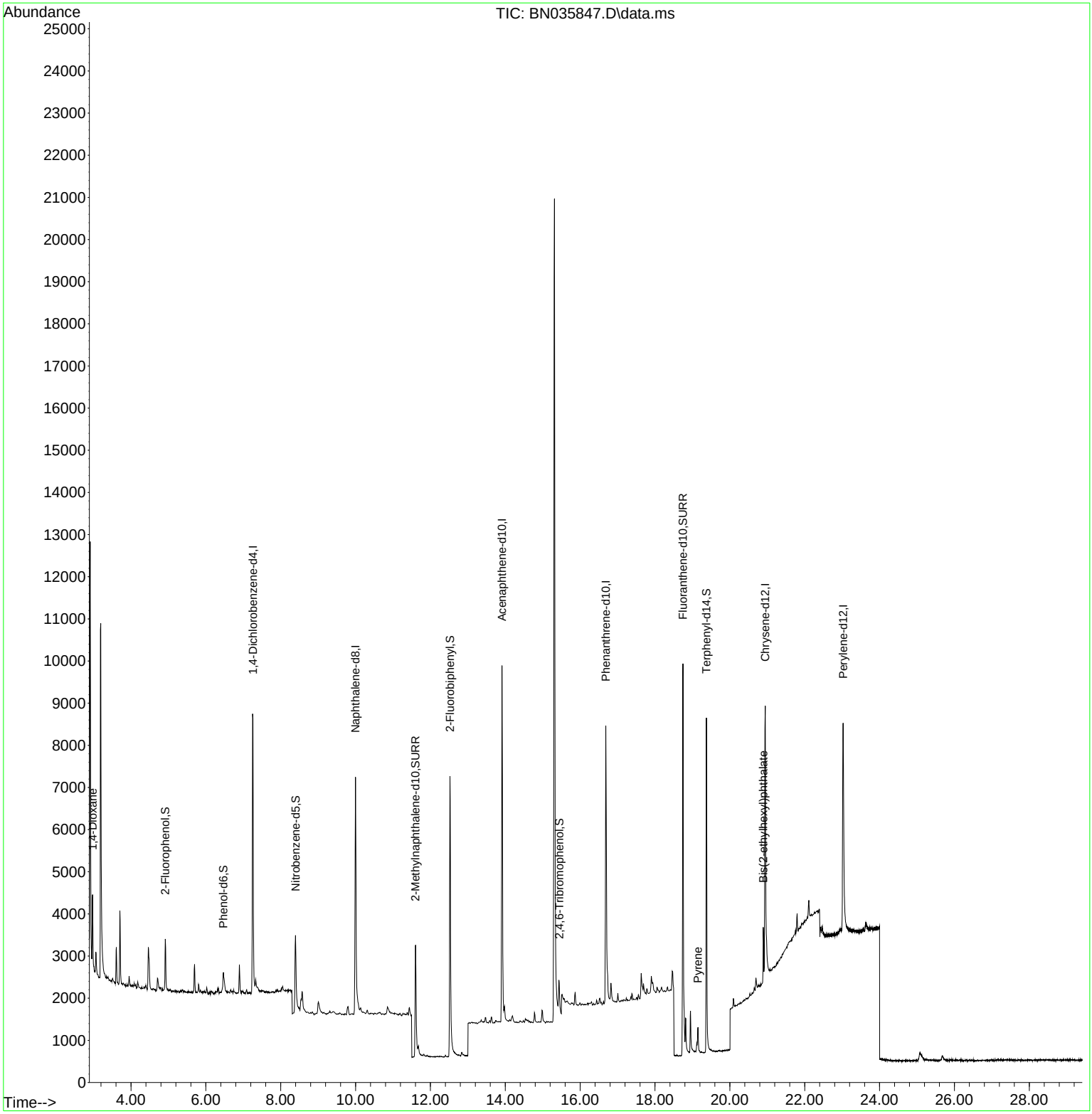
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
Data File : BN035847.D
Acq On : 26 Dec 2024 11:20
Operator : RC/JU
Sample : P5376-15
Misc :
ALS Vial : 4 Sample Multiplier: 1

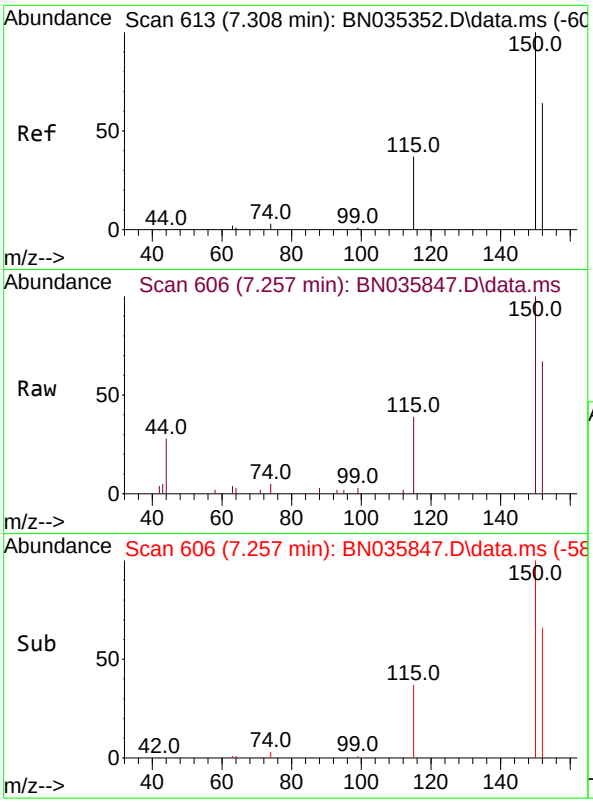
Quant Time: Dec 27 00:40:32 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

**Instrument :**
BNA_N
**ClientSampleId :**
TT162S1-20241219

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

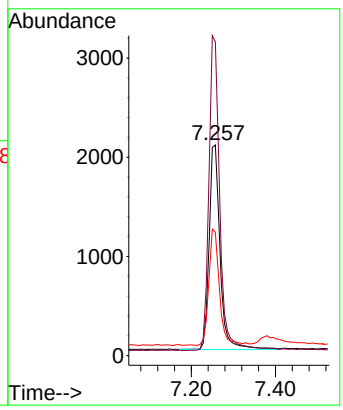





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 6
Delta R.T. -0.015 min
Lab File: BN035847.D
Acq: 26 Dec 2024 11:20

Tgt Ion:152 Resp: 370

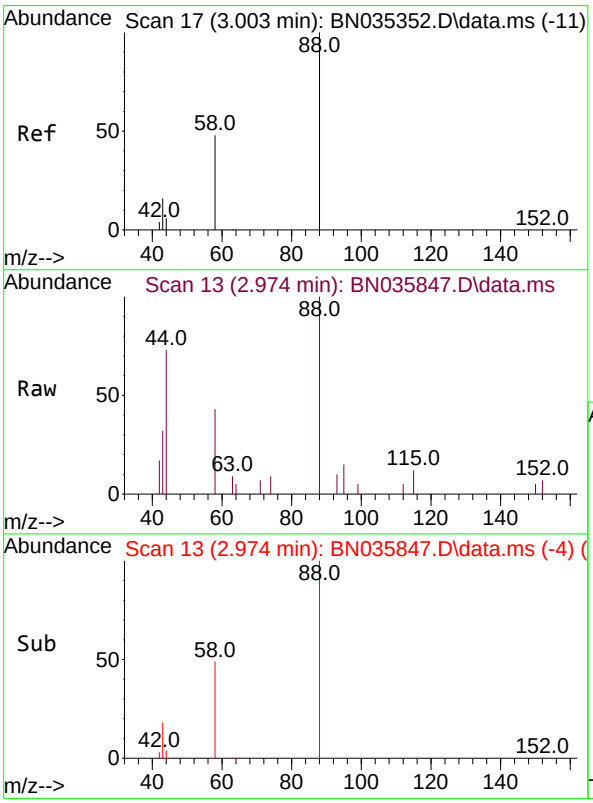
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 148.9 | 124.0 | 186.0 |
| 115 | 58.5 | 49.6 | 74.4 |




**Instrument :**
BNA_N
**ClientSampleId :**
TT162S1-20241219

**Manual Integrations**
**APPROVED**

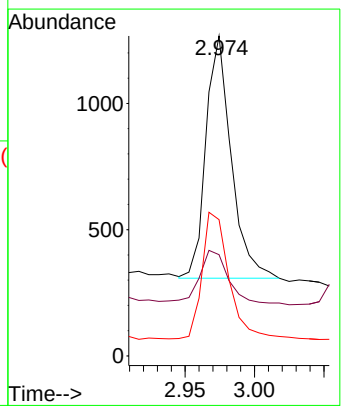
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

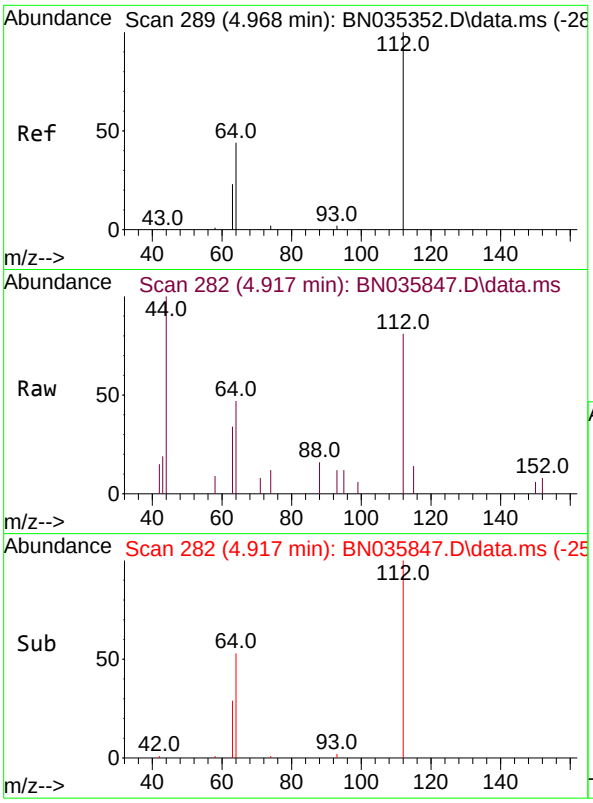



#2
1,4-Dioxane
Concen: 0.343 ng
RT: 2.974 min Scan# 13
Delta R.T. -0.008 min
Lab File: BN035847.D
Acq: 26 Dec 2024 11:20

Tgt Ion: 88 Resp: 1214

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 24.0 | 17.2 | 25.8 |
| 58 | 55.2 | 44.5 | 66.7 |






#4
2-Fluorophenol
Concen: 0.116 ng
RT: 4.917 min Scan# 2
Delta R.T. -0.022 min
Lab File: BN035847.D
Acq: 26 Dec 2024 11:20

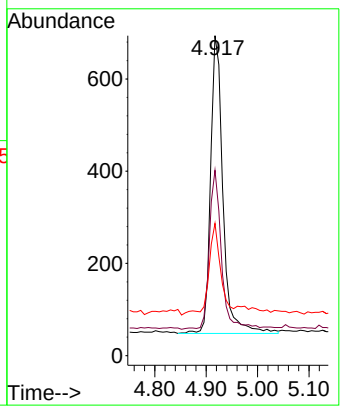
Tgt Ion:112 Resp: 107

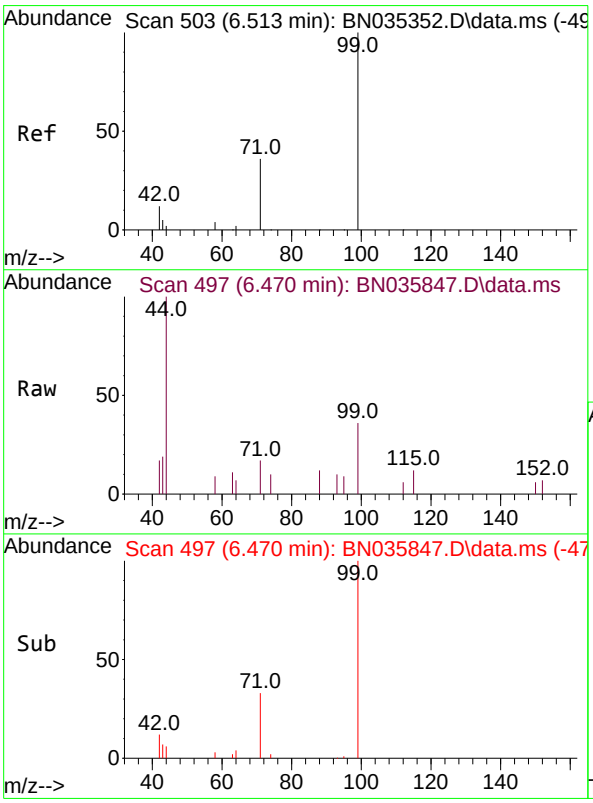
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 52.5 | 39.8 | 59.8 |
| 63 | 29.4 | 21.0 | 31.6 |

**Instrument :**
BNA_N
**ClientSampleId :**
TT162S1-20241219

**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

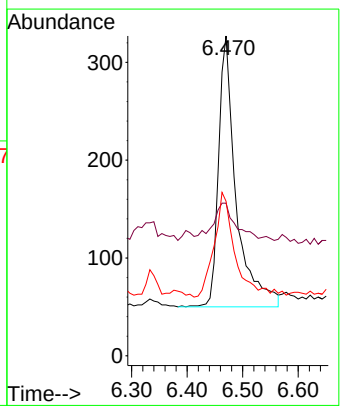


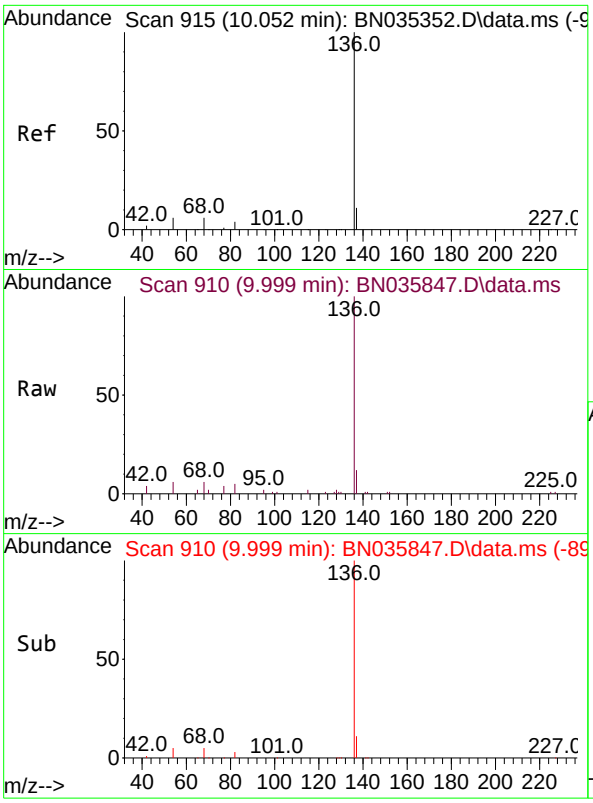




#5
Phenol-d6
Concen: 0.055 ng
RT: 6.470 min Scan# 497
Delta R.T. -0.022 min
Lab File: BN035847.D
Acq: 26 Dec 2024 11:20

Tgt Ion: 99 Resp: 611

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 20.9 | 11.4 | 17.2# |
| 71 | 46.6 | 29.3 | 43.9# |

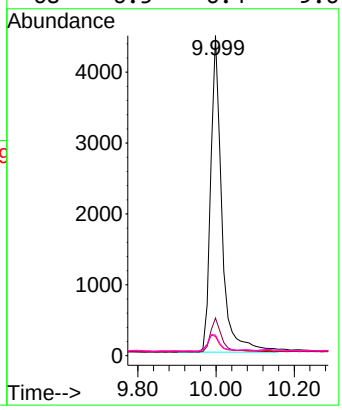





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 9.999 min Scan# 9
Delta R.T. -0.021 min
Lab File: BN035847.D
Acq: 26 Dec 2024 11:20

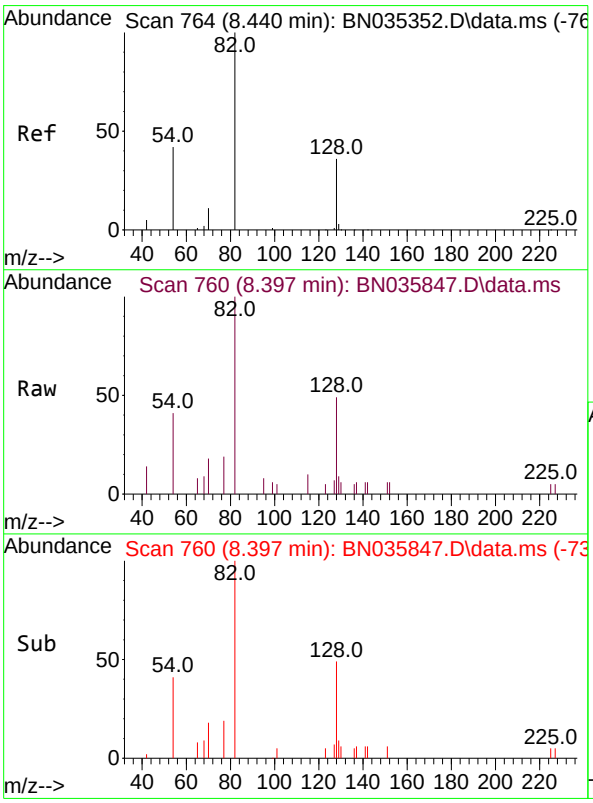
Tgt Ion:136 Resp: 887

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.7 | 10.2 | 15.2 |
| 54 | 6.0 | 6.1 | 9.1 |
| 68 | 6.5 | 6.4 | 9.6 |




**Instrument :**
BNA_N
**ClientSampleId :**
TT162S1-20241219

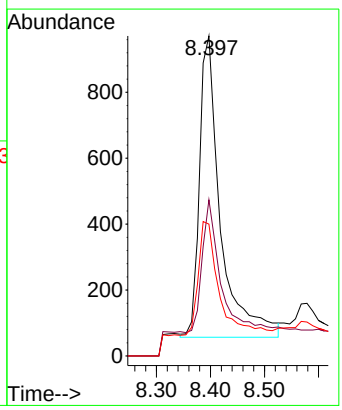
**Manual Integrations**
**APPROVED**
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

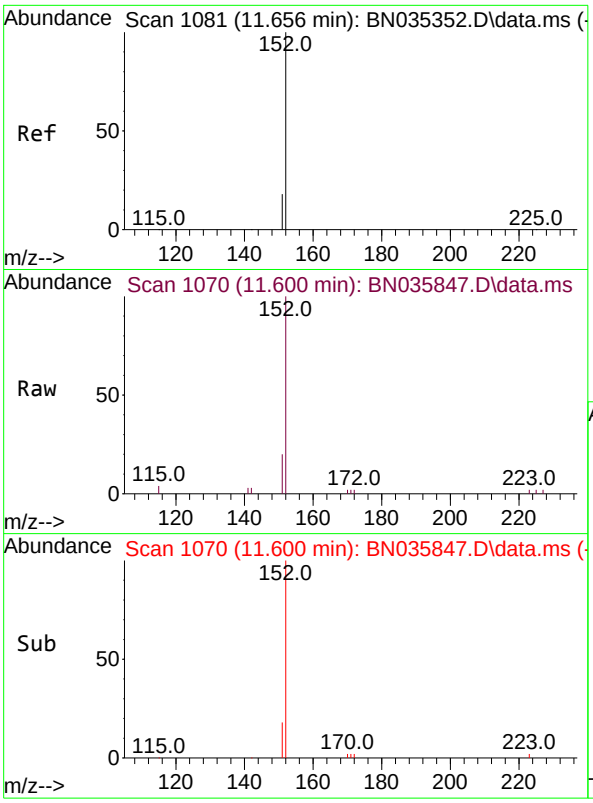



#8
Nitrobenzene-d5
Concen: 0.455 ng m
RT: 8.397 min Scan# 760
Delta R.T. -0.011 min
Lab File: BN035847.D
Acq: 26 Dec 2024 11:20

Tgt Ion: 82 Resp: 2468

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 48.8 | 33.4 | 50.0 |
| 54 | 41.2 | 36.7 | 55.1 |

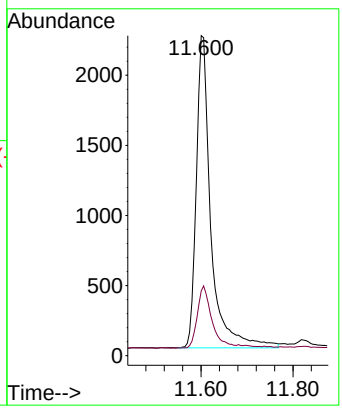





#11
2-Methylnaphthalene-d10
Concen: 0.352 ng
RT: 11.600 min Scan# 1
Delta R.T. -0.020 min
Lab File: BN035847.D
Acq: 26 Dec 2024 11:20

Tgt Ion:152 Resp: 489

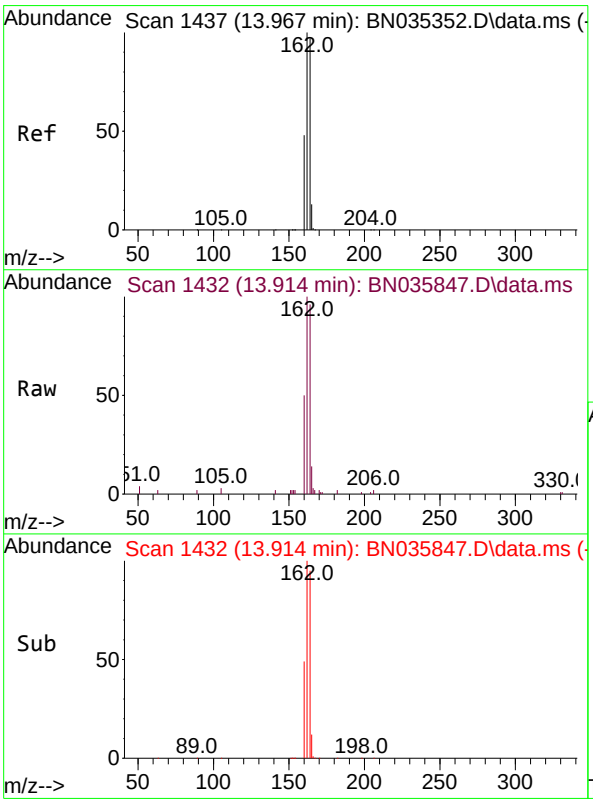
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 19.7 | 16.6 | 25.0 |




**Instrument :**
BNA_N
**ClientSampleId :**
TT162S1-20241219

**Manual Integrations**
**APPROVED**

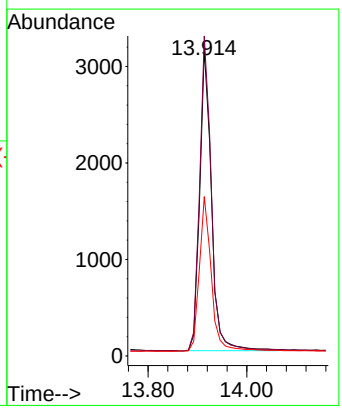
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

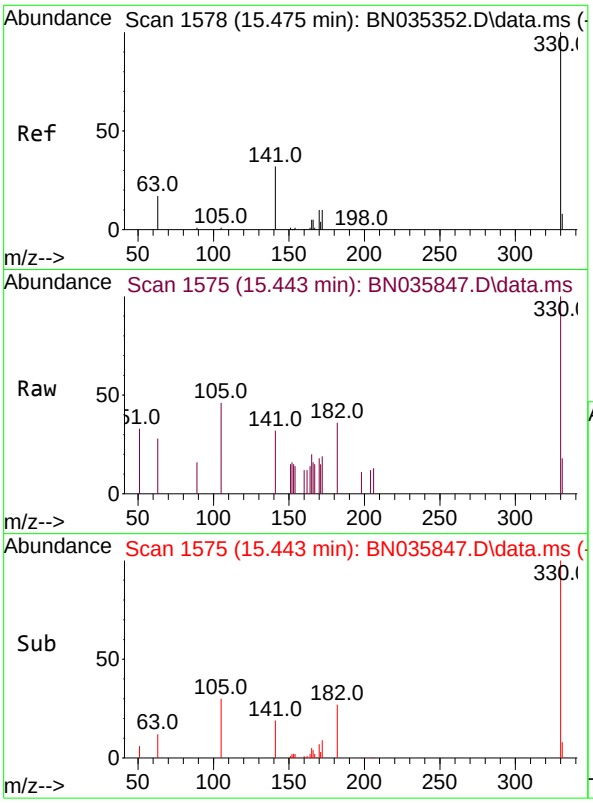



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.914 min Scan# 1432
Delta R.T. -0.021 min
Lab File: BN035847.D
Acq: 26 Dec 2024 11:20

Tgt Ion:164 Resp: 5154

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 104.4 | 82.2 | 123.2 |
| 160 | 52.0 | 40.1 | 60.1 |

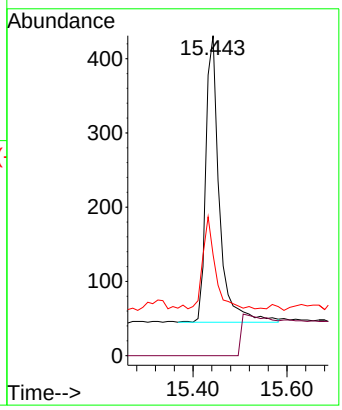





#14
2,4,6-Tribromophenol
Concen: 0.221 ng
RT: 15.443 min Scan# 1
Delta R.T. -0.011 min
Lab File: BN035847.D
Acq: 26 Dec 2024 11:20

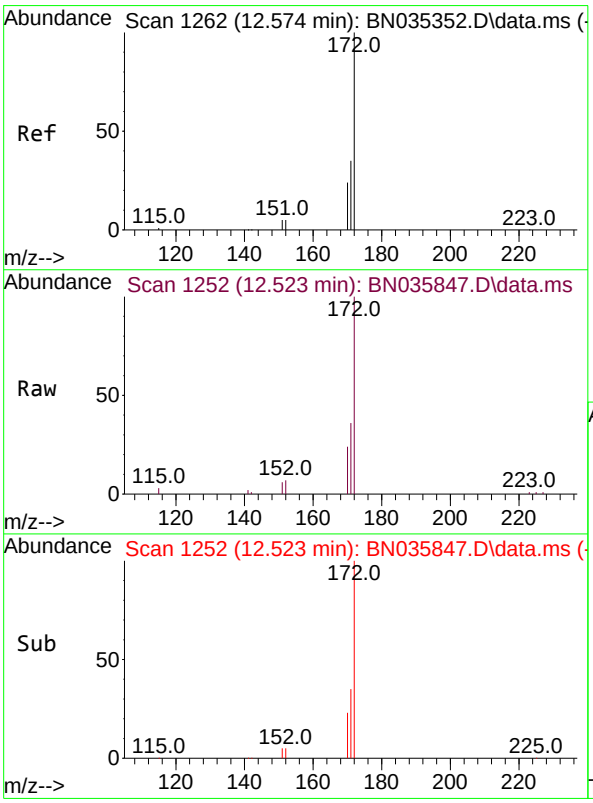
Tgt Ion:330 Resp: 80

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 0.0 | 0.0 | 0.0 |
| 141 | 28.6 | 26.6 | 40.0 |




**Instrument :**
BNA_N
**ClientSampleId :**
TT162S1-20241219

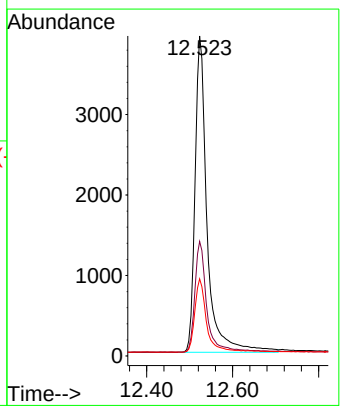
**Manual Integrations**
**APPROVED**
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

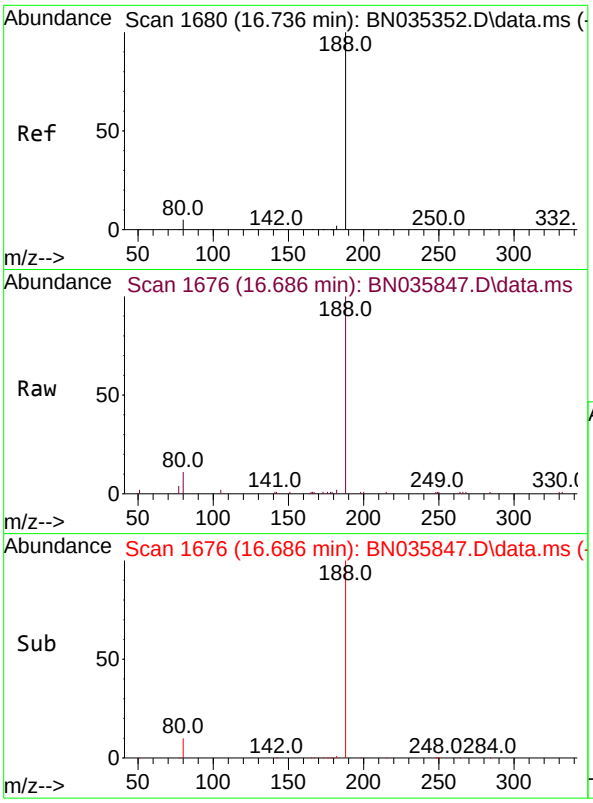



#15
2-Fluorobiphenyl
Concen: 0.393 ng
RT: 12.523 min Scan# 1252
Delta R.T. -0.020 min
Lab File: BN035847.D
Acq: 26 Dec 2024 11:20

Tgt Ion:172 Resp: 7648

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 35.8 | 29.0 | 43.4 |
| 170 | 24.1 | 19.8 | 29.8 |

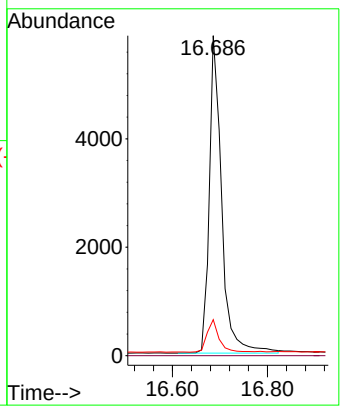





#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.686 min Scan# 1(
Delta R.T. -0.013 min
Lab File: BN035847.D
Acq: 26 Dec 2024 11:20

Tgt Ion:188 Resp: 1059(

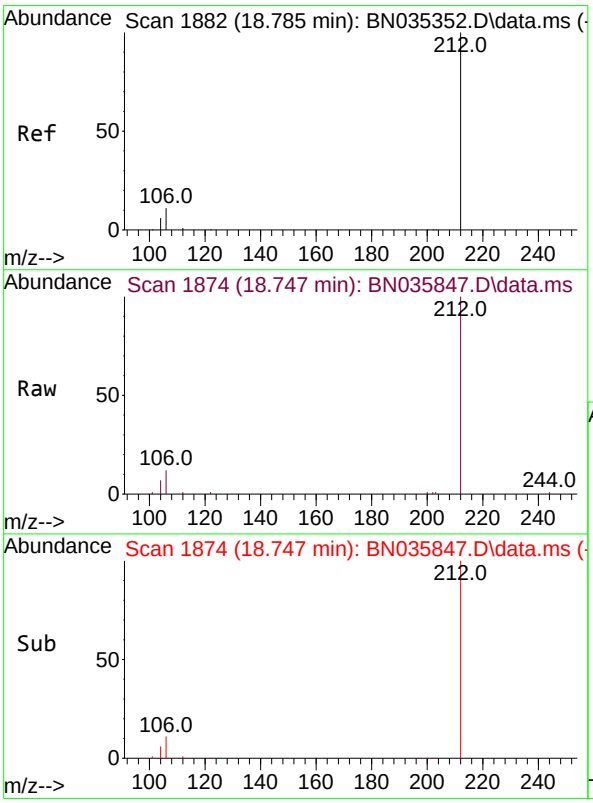
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 11.2 | 4.6 | 6.8# |




**Instrument :**
BNA_N
**ClientSampleId :**
TT162S1-20241219

**Manual Integrations**
**APPROVED**

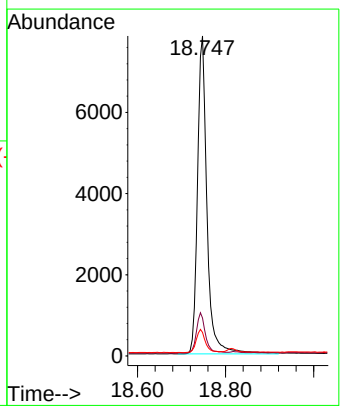
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

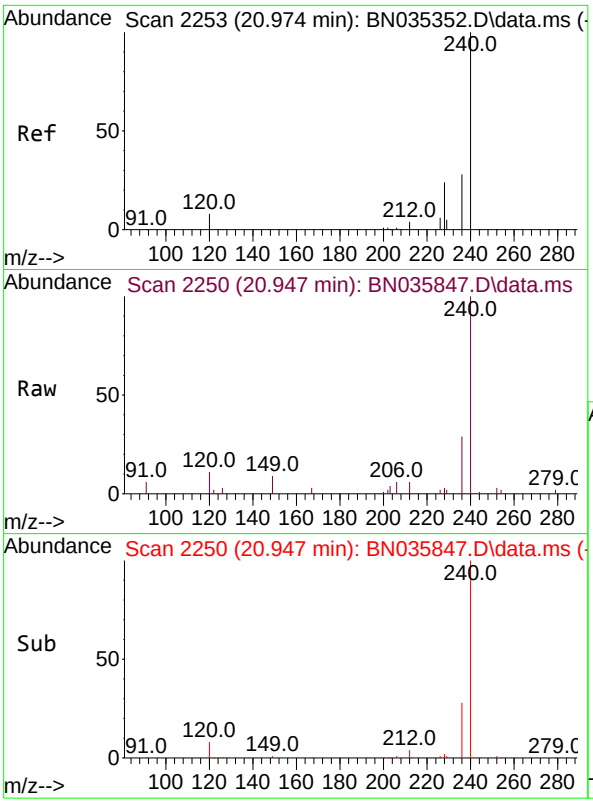



#27
Fluoranthene-d10
Concen: 0.391 ng
RT: 18.747 min Scan# 1874
Delta R.T. -0.014 min
Lab File: BN035847.D
Acq: 26 Dec 2024 11:20

Tgt Ion:212 Resp: 11741

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 11.9 | 9.2 | 13.8 |
| 104 | 6.9 | 5.3 | 7.9 |

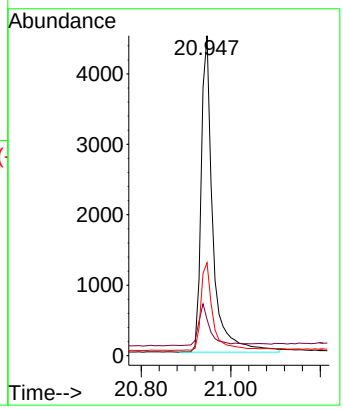





#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035847.D
Acq: 26 Dec 2024 11:20

Tgt Ion:240 Resp: 813

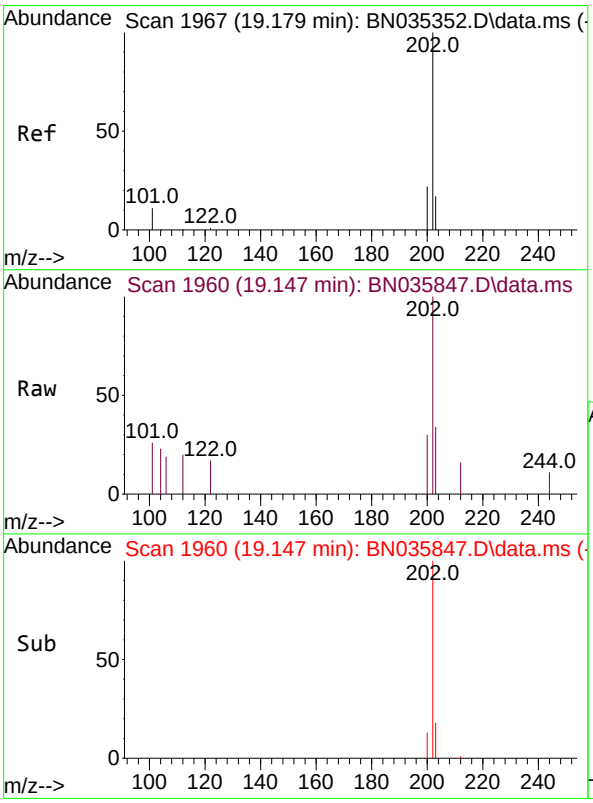
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 11.3 | 7.9 | 11.9 |
| 236 | 29.1 | 22.9 | 34.3 |




**Instrument :**
BNA_N
**ClientSampleId :**
TT162S1-20241219

**Manual Integrations**
**APPROVED**

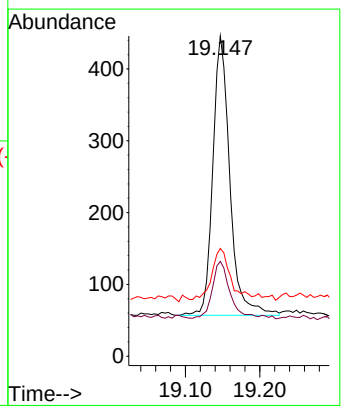
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

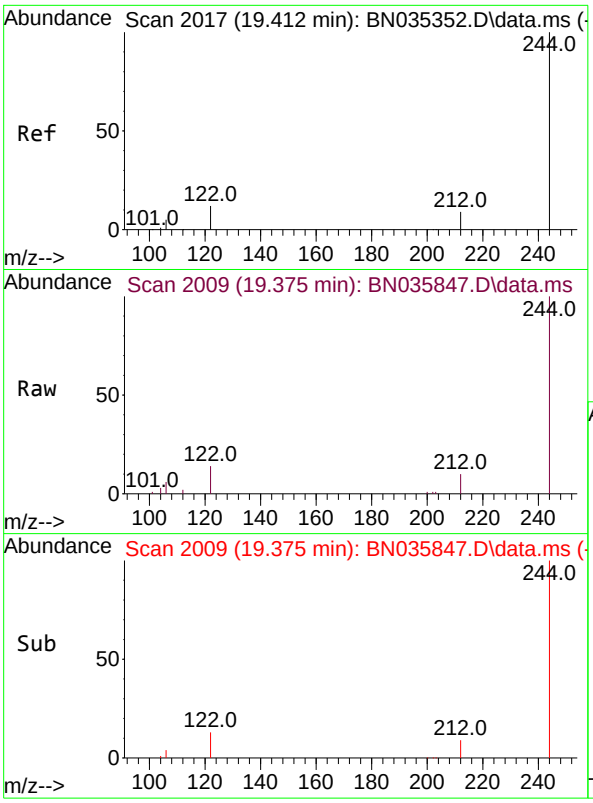



#30
Pyrene
Concen: 0.021 ng
RT: 19.147 min Scan# 1960
Delta R.T. -0.014 min
Lab File: BN035847.D
Acq: 26 Dec 2024 11:20

Tgt Ion:202 Resp: 618

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 20.7 | 17.0 | 25.4 |
| 203 | 20.2 | 14.3 | 21.5 |

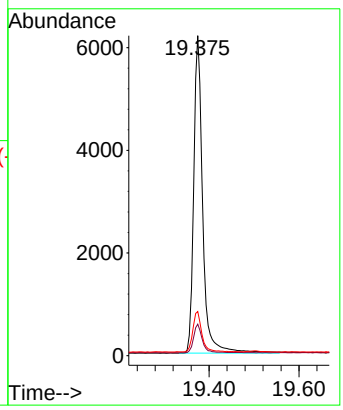





#31
Terphenyl-d14
Concen: 0.537 ng
RT: 19.375 min Scan# 2(
Delta R.T. -0.014 min
Lab File: BN035847.D
Acq: 26 Dec 2024 11:20

Tgt Ion:244 Resp: 861(

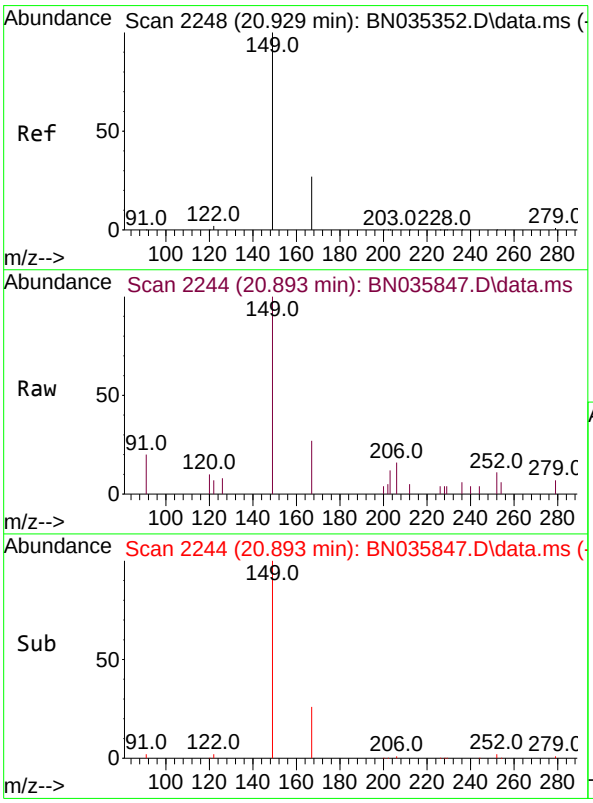
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 9.8 | 8.1 | 12.1 |
| 122 | 13.8 | 10.3 | 15.5 |




**Instrument :**
BNA_N
**ClientSampleId :**
TT162S1-20241219

**Manual Integrations**
**APPROVED**

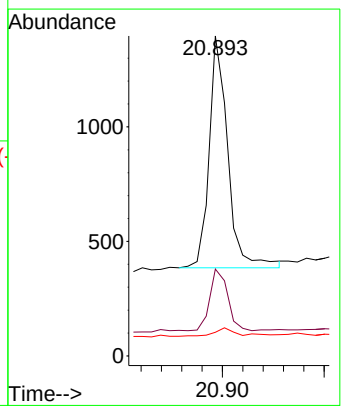
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

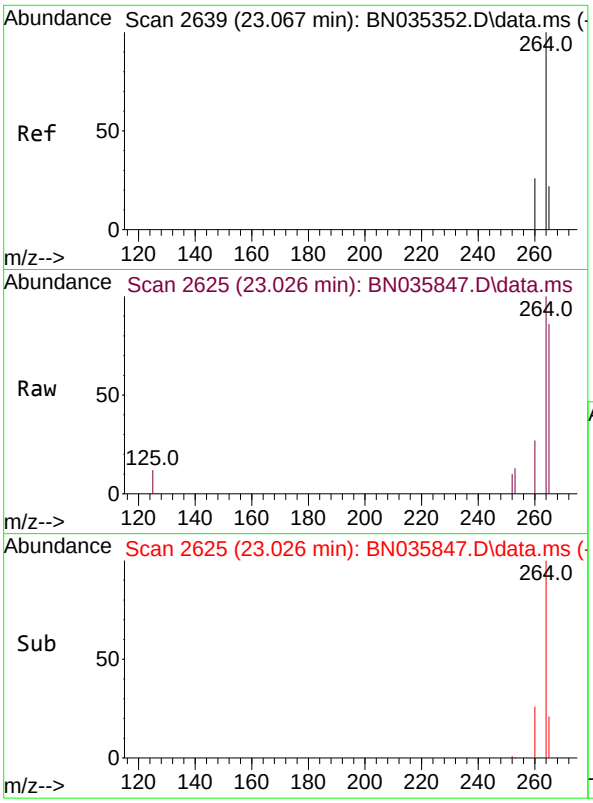



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.114 ng
RT: 20.893 min Scan# 2244
Delta R.T. -0.018 min
Lab File: BN035847.D
Acq: 26 Dec 2024 11:20

Tgt Ion:149 Resp: 1284

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 25.5 | 22.2 | 33.4 |
| 279 | 4.3 | 2.7 | 4.1# |

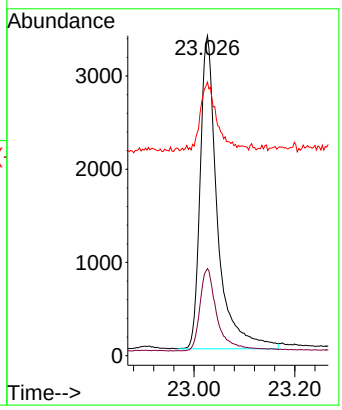





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.026 min Scan# 2
Delta R.T. -0.015 min
Lab File: BN035847.D
Acq: 26 Dec 2024 11:20

Tgt Ion:264 Resp: 800

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 27.2 | 21.4 | 32.2 |
| 265 | 85.5 | 40.2 | 60.4 |




**Instrument :**
BNA_N
**ClientSampleId :**
TT162S1-20241219

**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | AECOM Technical Services, Inc. | Date Collected: | 12/19/24 |
| Project: | NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258 | Date Received: | 12/20/24 |
| Client Sample ID: | RW11-MW01S-20241219 | SDG No.: | P5376 |
| Lab Sample ID: | P5376-16 | Matrix: | Water |
| Analytical Method: | SW8270ESIM | % Solid: | 0 |
| Sample Wt/Vol: | 990 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-SIMGroup1 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BN035833.D | 1 | 12/23/24 13:29 | 12/24/24 23:18 | PB165828 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 123-91-1 | 1,4-Dioxane | 0.16 | J | 0.070 | 0.20 | 0.20 | ug/L |
| **SURROGATES** | | | | | | | |
| 7297-45-2 | 2-Methylnaphthalene-d10 | 0.37 | | 30 - 150 | | 93% | SPK: 0.4 |
| 93951-69-0 | Fluoranthene-d10 | 0.41 | | 30 - 150 | | 103% | SPK: 0.4 |
| 4165-60-0 | Nitrobenzene-d5 | 0.42 | | 55 - 111 | | 105% | SPK: 0.4 |
| 321-60-8 | 2-Fluorobiphenyl | 0.39 | | 53 - 106 | | 98% | SPK: 0.4 |
| 1718-51-0 | Terphenyl-d14 | 0.53 | | 58 - 132 | | 132% | SPK: 0.4 |
| **INTERNAL STANDARDS** | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 3280 | 7.257 | | | | |
| 1146-65-2 | Naphthalene-d8 | 7720 | 10.009 | | | | |
| 15067-26-2 | Acenaphthene-d10 | 4820 | 13.914 | | | | |
| 1517-22-2 | Phenanthrene-d10 | 10000 | 16.698 | | | | |
| 1719-03-5 | Chrysene-d12 | 8070 | 20.947 | | | | |
| 1520-96-3 | Perylene-d12 | 7780 | 23.026 | | | | |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035833.D
Acq On : 24 Dec 2024 23:18
Operator : RC/JU
Sample : P5376-16
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
RW11-MW01S-20241219

**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024

Quant Time: Dec 25 02:35:03 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.257 | 152 | 3277 | 0.400 | ng | -0.01 |
| 7) Naphthalene-d8 | 10.009 | 136 | 7724 | 0.400 | ng | #-0.01 |
| 13) Acenaphthene-d10 | 13.914 | 164 | 4815 | 0.400 | ng | -0.02 |
| 19) Phenanthrene-d10 | 16.698 | 188 | 10024 | 0.400 | ng | # 0.00 |
| 29) Chrysene-d12 | 20.947 | 240 | 8069 | 0.400 | ng | 0.00 |
| 35) Perylene-d12 | 23.026 | 264 | 7784 | 0.400 | ng | #-0.01 |
| System Monitoring Compounds | | | | | | |
| 4) 2-Fluorophenol | 4.924 | 112 | 965 | 0.118 | ng | -0.01 |
| 5) Phenol-d6 | 6.477 | 99 | 504 | 0.051 | ng | -0.01 |
| 8) Nitrobenzene-d5 | 8.408 | 82 | 1978m | 0.419 | ng | 0.00 |
| 11) 2-Methylnaphthalene-d10 | 11.605 | 152 | 4512 | 0.373 | ng | -0.02 |
| 14) 2,4,6-Tribromophenol | 15.443 | 330 | 723 | 0.212 | ng | -0.01 |
| 15) 2-Fluorobiphenyl | 12.528 | 172 | 7112 | 0.391 | ng | -0.02 |
| 27) Fluoranthene-d10 | 18.747 | 212 | 11675 | 0.411 | ng | -0.01 |
| 31) Terphenyl-d14 | 19.375 | 244 | 8422 | 0.529 | ng | -0.01 |
| Target Compounds | | | | | | Qvalue |
| 2) 1,4-Dioxane | 2.982 | 88 | 506 | 0.162 | ng | # 77 |
| 25) Phenanthrene | 16.736 | 178 | 582 | 0.021 | ng | # 92 |
| 34) Bis(2-ethylhexyl)phtha... | 20.893 | 149 | 981 | 0.088 | ng | # 98 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

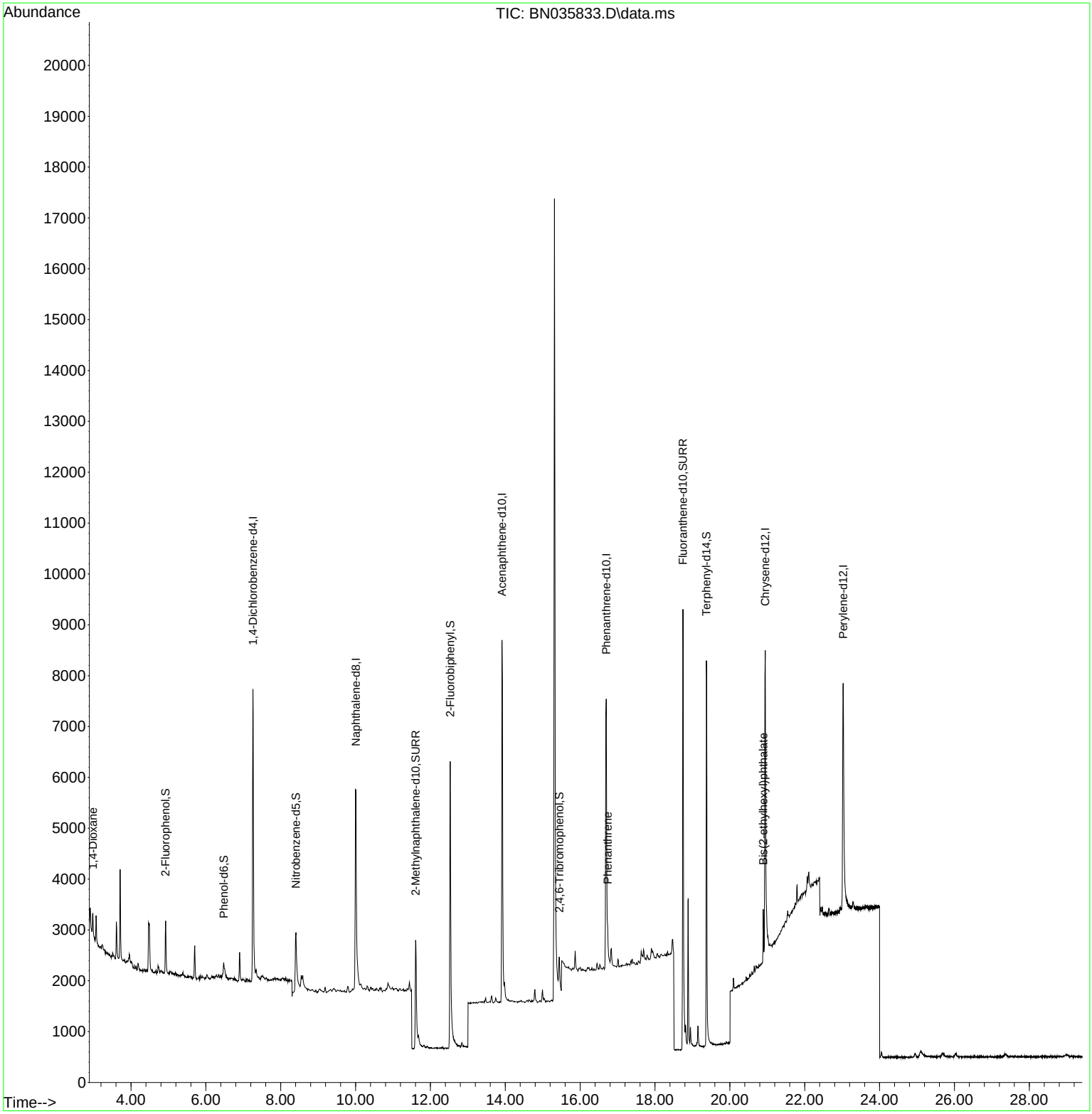
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035833.D
Acq On : 24 Dec 2024 23:18
Operator : RC/JU
Sample : P5376-16
Misc :
ALS Vial : 25 Sample Multiplier: 1

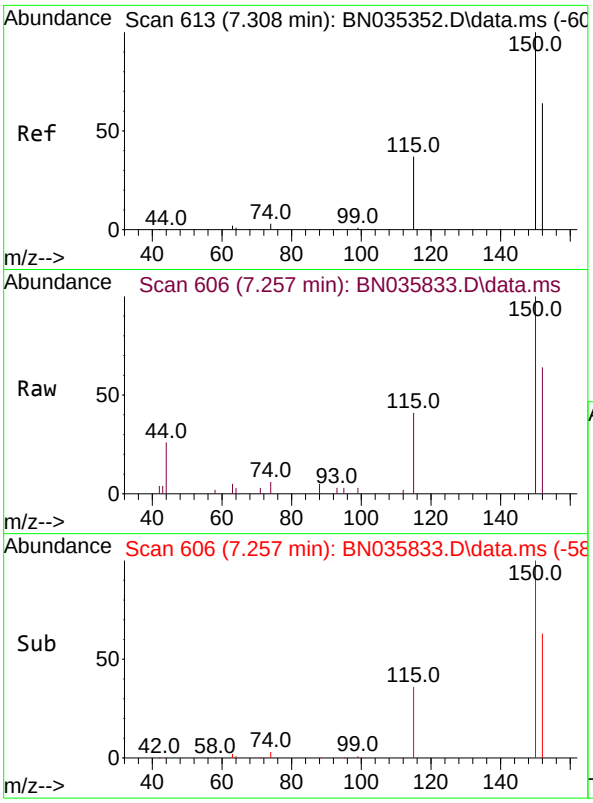
Quant Time: Dec 25 02:35:03 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

**Instrument :**
BNA_N
**ClientSampleId :**
RW11-MW01S-20241219

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 12/26/2024
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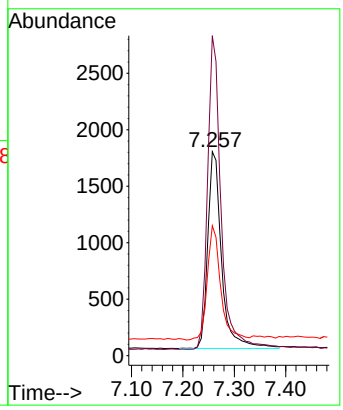





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 6
Delta R.T. -0.015 min
Lab File: BN035833.D
Acq: 24 Dec 2024 23:18

Tgt Ion:152 Resp: 327

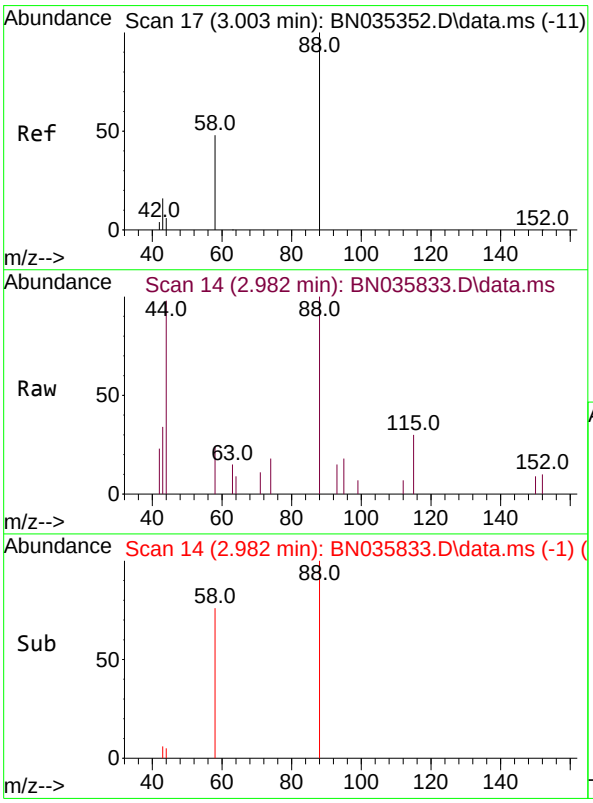
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 156.9 | 124.0 | 186.0 |
| 115 | 63.7 | 49.6 | 74.4 |




**Instrument :**
BNA_N
**ClientSampleId :**
RW11-MW01S-20241219

**Manual Integrations**
**APPROVED**

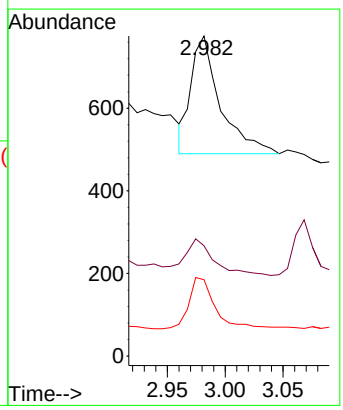
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024

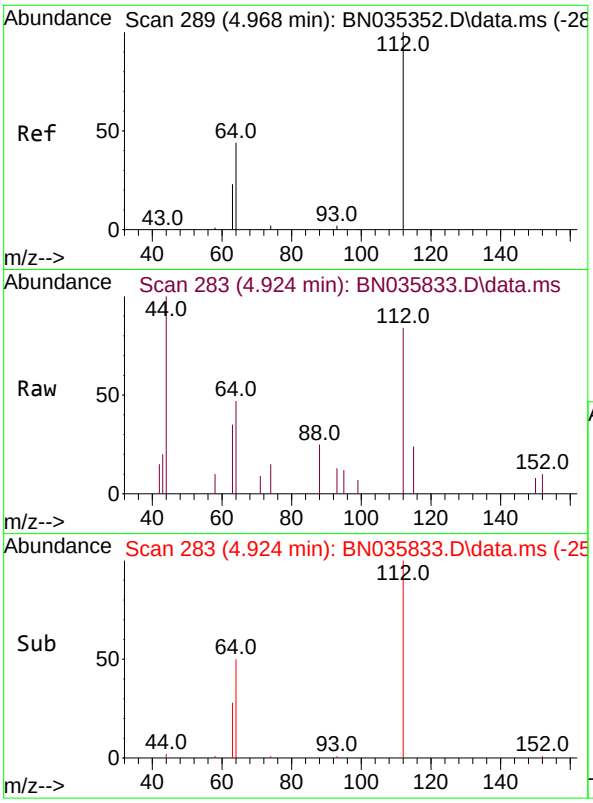



#2
1,4-Dioxane
Concen: 0.162 ng
RT: 2.982 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035833.D
Acq: 24 Dec 2024 23:18

Tgt Ion: 88 Resp: 506

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 32.0 | 17.2 | 25.8# |
| 58 | 38.5 | 44.5 | 66.7# |






#4
2-Fluorophenol
Concen: 0.118 ng
RT: 4.924 min Scan# 2
Delta R.T. -0.015 min
Lab File: BN035833.D
Acq: 24 Dec 2024 23:18

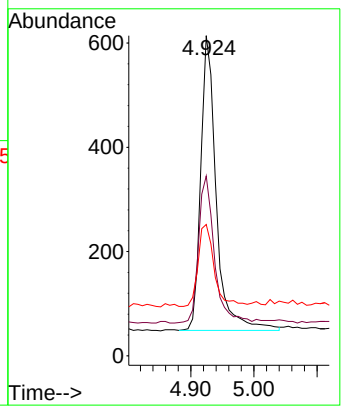
Tgt Ion:112 Resp: 96

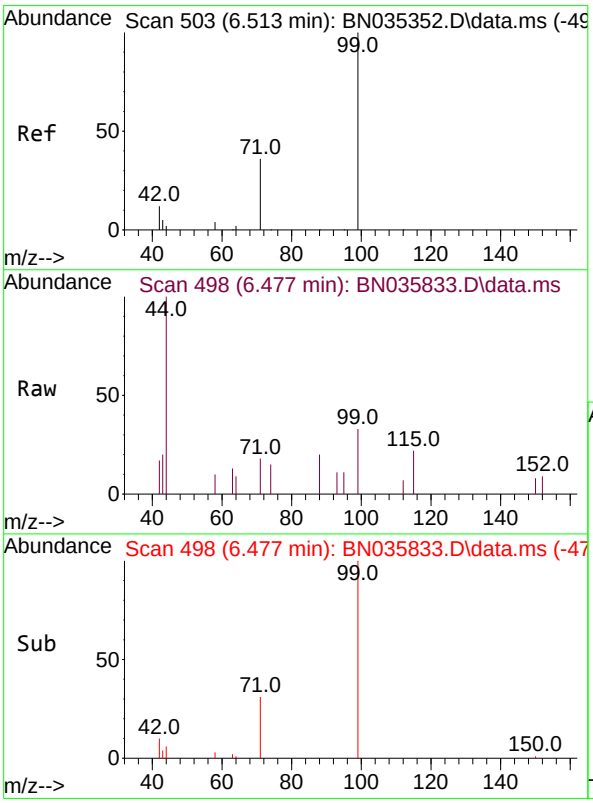
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 50.8 | 39.8 | 59.8 |
| 63 | 28.6 | 21.0 | 31.6 |

**Instrument :**
BNA_N
**ClientSampleId :**
RW11-MW01S-20241219

**Manual Integrations**
**APPROVED**

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Supervised By :mohammad ahmed 12/26/2024

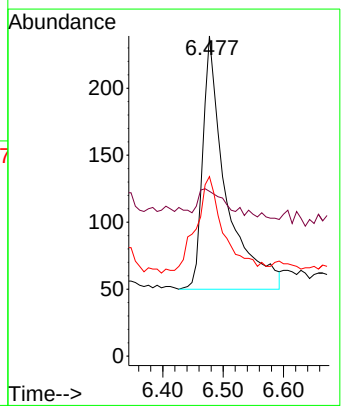


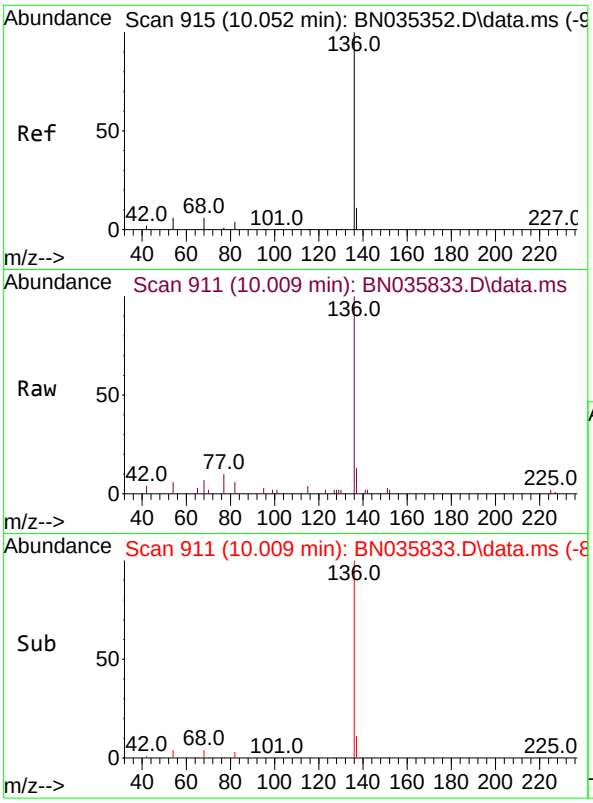




#5
Phenol-d6
Concen: 0.051 ng
RT: 6.477 min Scan# 498
Delta R.T. -0.015 min
Lab File: BN035833.D
Acq: 24 Dec 2024 23:18

Tgt Ion: 99 Resp: 504

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 12.7 | 11.4 | 17.2 |
| 71 | 47.0 | 29.3 | 43.9# |

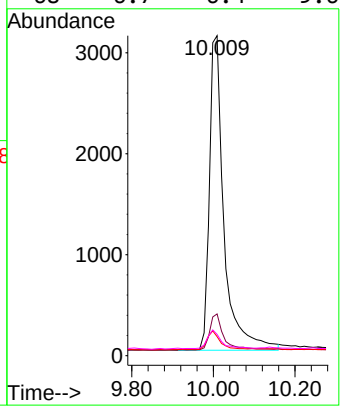





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN035833.D
Acq: 24 Dec 2024 23:18

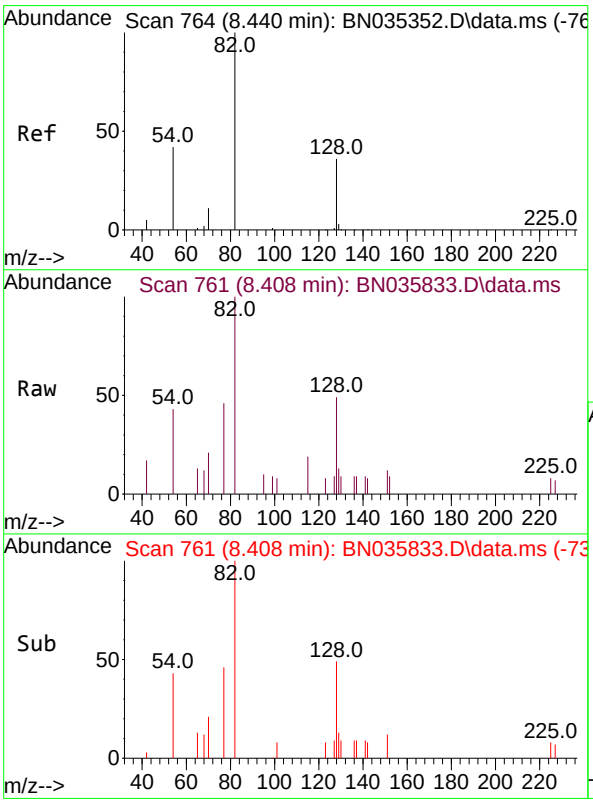
Tgt Ion:136 Resp: 772

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 13.0 | 10.2 | 15.2 |
| 54 | 6.0 | 6.1 | 9.1 |
| 68 | 6.7 | 6.4 | 9.6 |




**Instrument :**
BNA_N
**ClientSampleId :**
RW11-MW01S-20241219

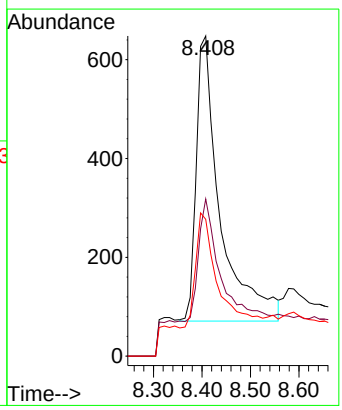
**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024

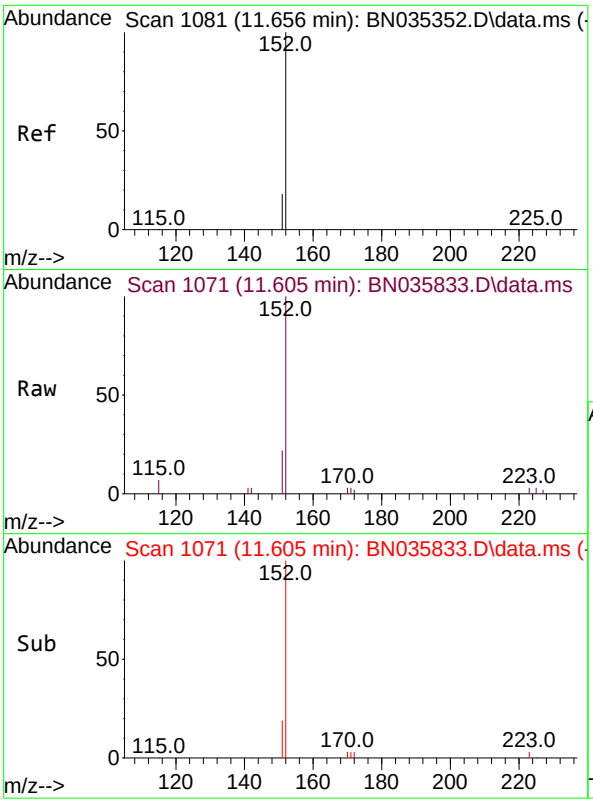



#8
Nitrobenzene-d5
Concen: 0.419 ng m
RT: 8.408 min Scan# 761
Delta R.T. -0.000 min
Lab File: BN035833.D
Acq: 24 Dec 2024 23:18

Tgt Ion: 82 Resp: 1978

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 49.1 | 33.4 | 50.0 |
| 54 | 42.7 | 36.7 | 55.1 |

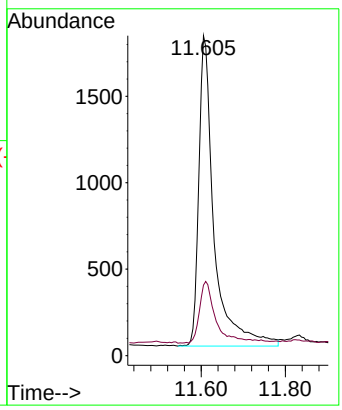





#11
2-Methylnaphthalene-d10
Concen: 0.373 ng
RT: 11.605 min Scan# 1
Delta R.T. -0.015 min
Lab File: BN035833.D
Acq: 24 Dec 2024 23:18

Tgt Ion:152 Resp: 451

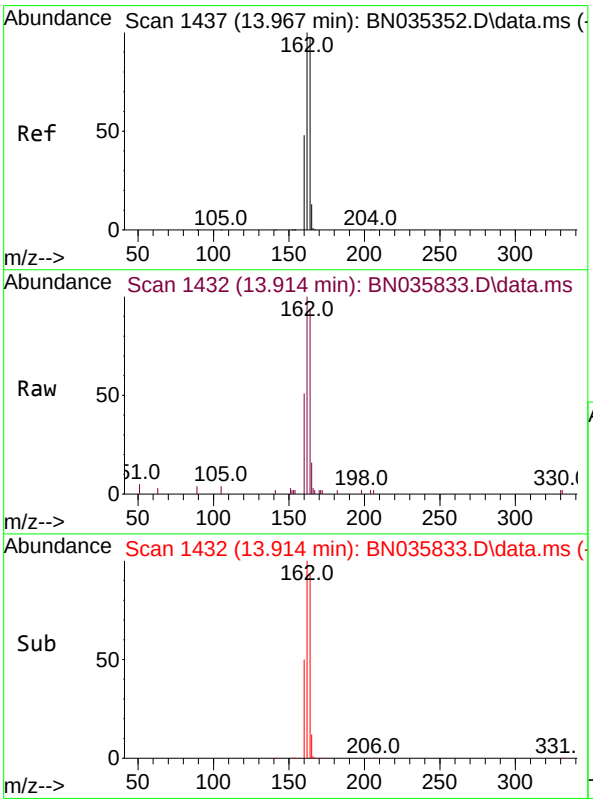
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 21.5 | 16.6 | 25.0 |




**Instrument :**
BNA_N
**ClientSampleId :**
RW11-MW01S-20241219

**Manual Integrations**
**APPROVED**

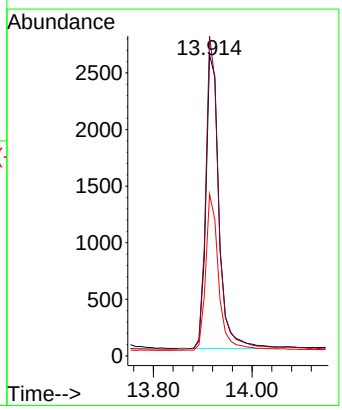
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024

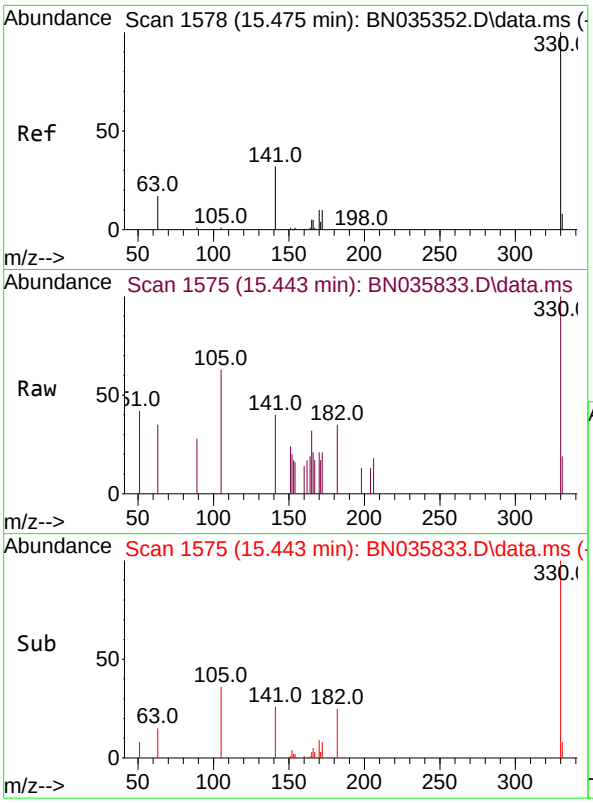



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.914 min Scan# 1432
Delta R.T. -0.021 min
Lab File: BN035833.D
Acq: 24 Dec 2024 23:18

Tgt Ion:164 Resp: 4815

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 106.3 | 82.2 | 123.2 |
| 160 | 53.8 | 40.1 | 60.1 |






#14
2,4,6-Tribromophenol
Concen: 0.212 ng
RT: 15.443 min Scan# 1
Delta R.T. -0.011 min
Lab File: BN035833.D
Acq: 24 Dec 2024 23:18

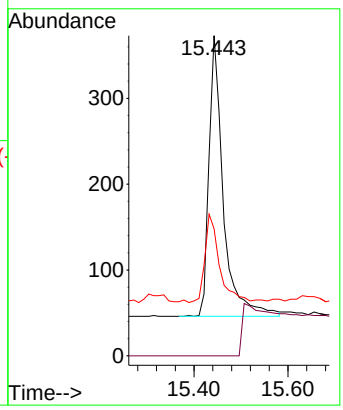
Tgt Ion:330 Resp: 72

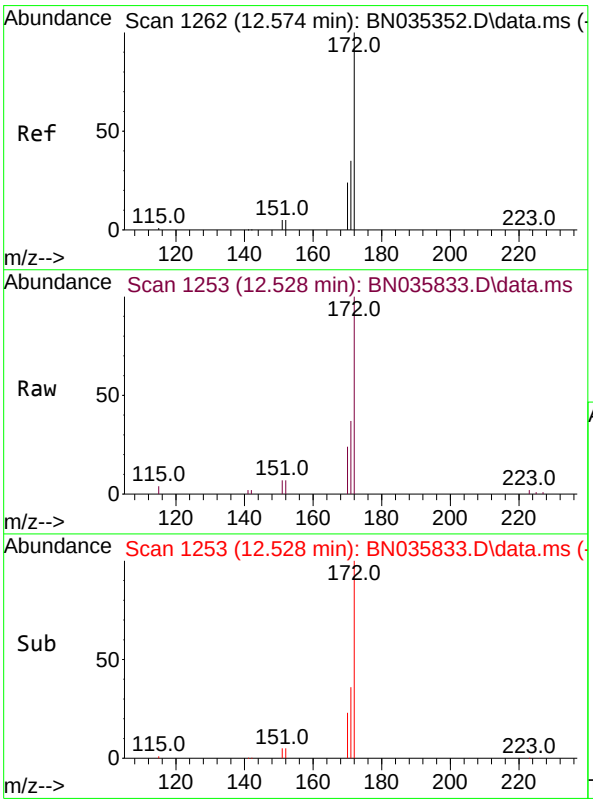
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 0.0 | 0.0 | 0.0 |
| 141 | 31.5 | 26.6 | 40.0 |

**Instrument :**
BNA_N
**ClientSampleId :**
RW11-MW01S-20241219

**Manual Integrations**
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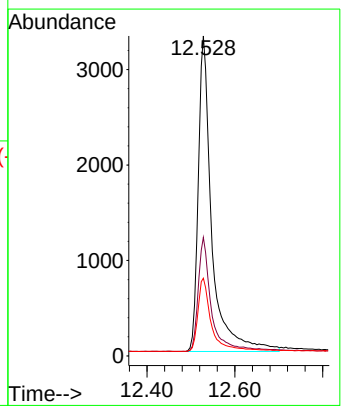


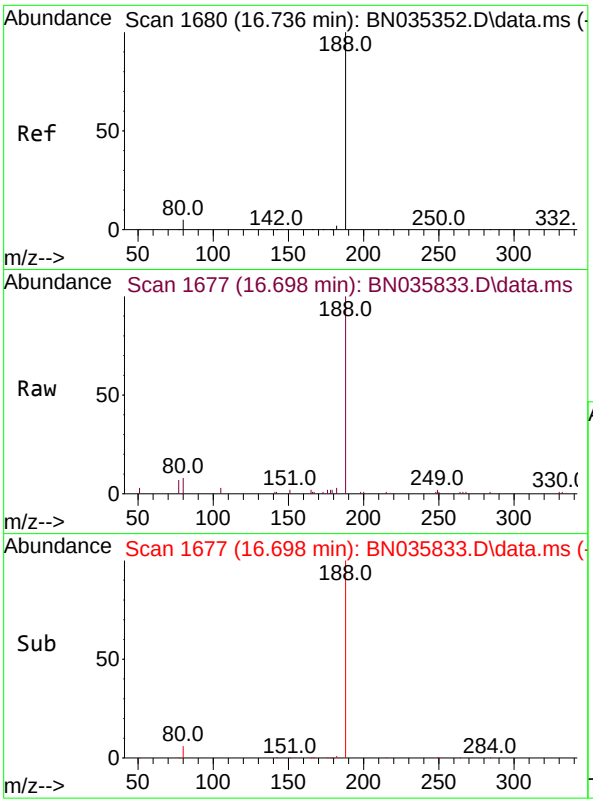




#15
2-Fluorobiphenyl
Concen: 0.391 ng
RT: 12.528 min Scan# 1253
Delta R.T. -0.015 min
Lab File: BN035833.D
Acq: 24 Dec 2024 23:18

Tgt Ion:172 Resp: 7112

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 37.1 | 29.0 | 43.4 |
| 170 | 24.3 | 19.8 | 29.8 |






#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035833.D
Acq: 24 Dec 2024 23:18

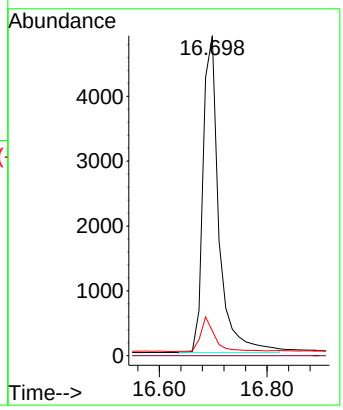
Tgt Ion:188 Resp: 1002

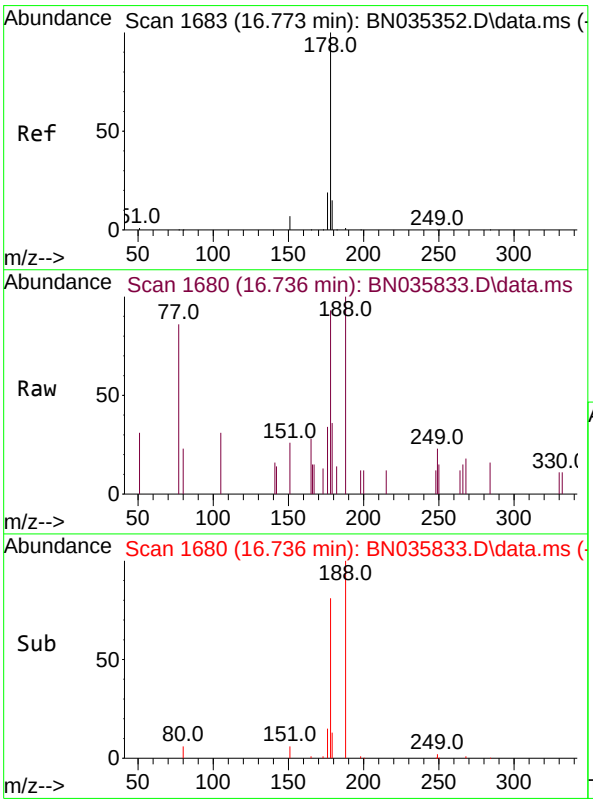
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 7.8 | 4.6 | 6.8# |

**Instrument :**
BNA_N
**ClientSampleId :**
RW11-MW01S-20241219

**Manual Integrations**
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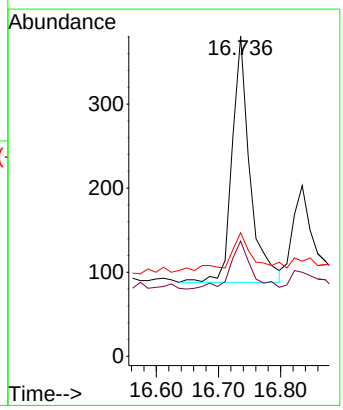


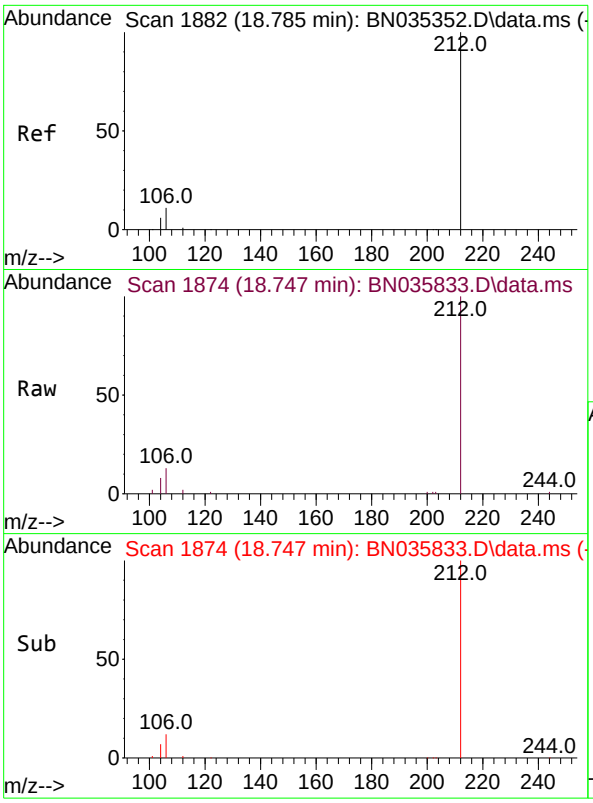




#25
Phenanthrene
Concen: 0.021 ng
RT: 16.736 min Scan# 1680
Delta R.T. -0.013 min
Lab File: BN035833.D
Acq: 24 Dec 2024 23:18

Tgt Ion:178 Resp: 582

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 23.0 | 15.4 | 23.2 |
| 179 | 18.7 | 12.3 | 18.5# |

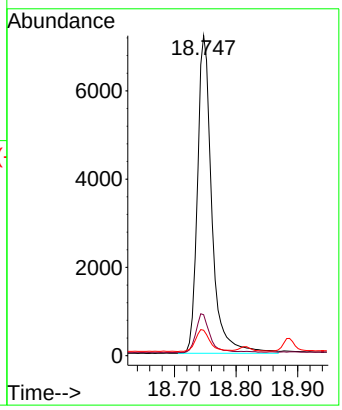





#27
Fluoranthene-d10
Concen: 0.411 ng
RT: 18.747 min Scan# 1
Delta R.T. -0.014 min
Lab File: BN035833.D
Acq: 24 Dec 2024 23:18

Tgt Ion:212 Resp: 1167

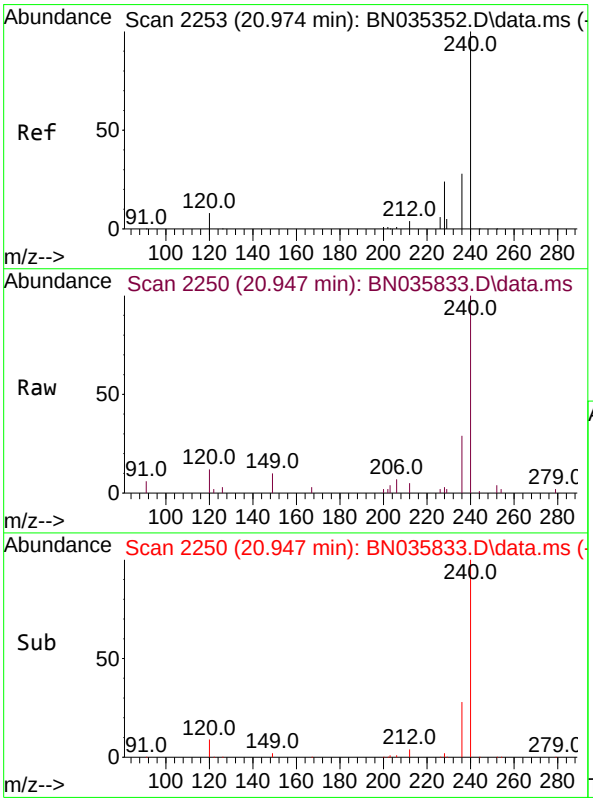
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 11.7 | 9.2 | 13.8 |
| 104 | 7.0 | 5.3 | 7.9 |




**Instrument :**
BNA_N
**ClientSampleId :**
RW11-MW01S-20241219

**Manual Integrations**
**APPROVED**

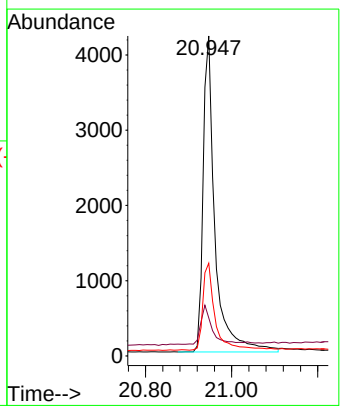
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024

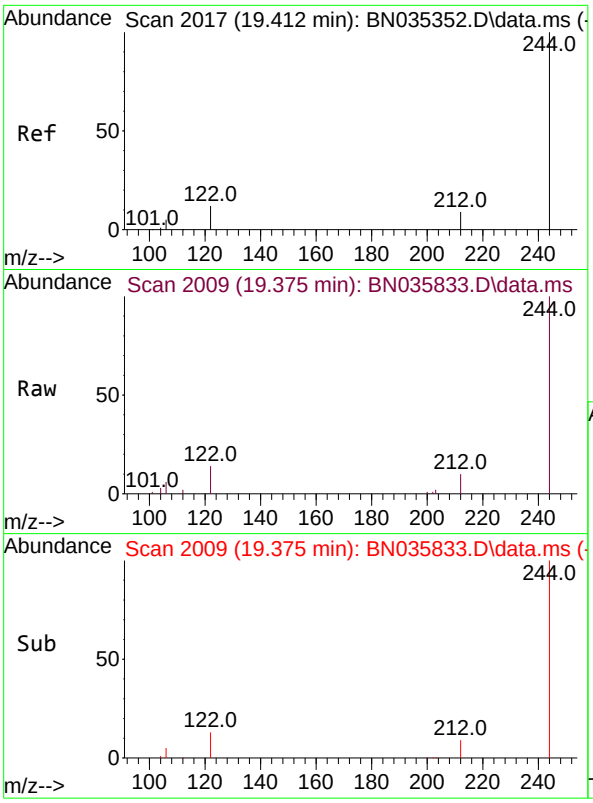



#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2250
Delta R.T. -0.009 min
Lab File: BN035833.D
Acq: 24 Dec 2024 23:18

Tgt Ion:240 Resp: 8069

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 11.9 | 7.9 | 11.9 |
| 236 | 29.0 | 22.9 | 34.3 |






#31
Terphenyl-d14
Concen: 0.529 ng
RT: 19.375 min Scan# 2
Delta R.T. -0.014 min
Lab File: BN035833.D
Acq: 24 Dec 2024 23:18

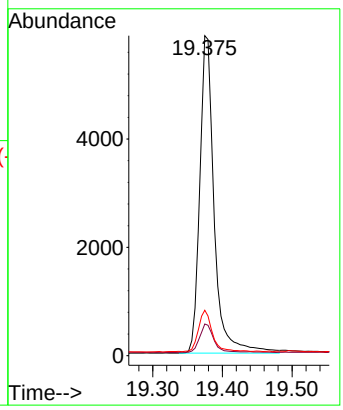
Tgt Ion:244 Resp: 842

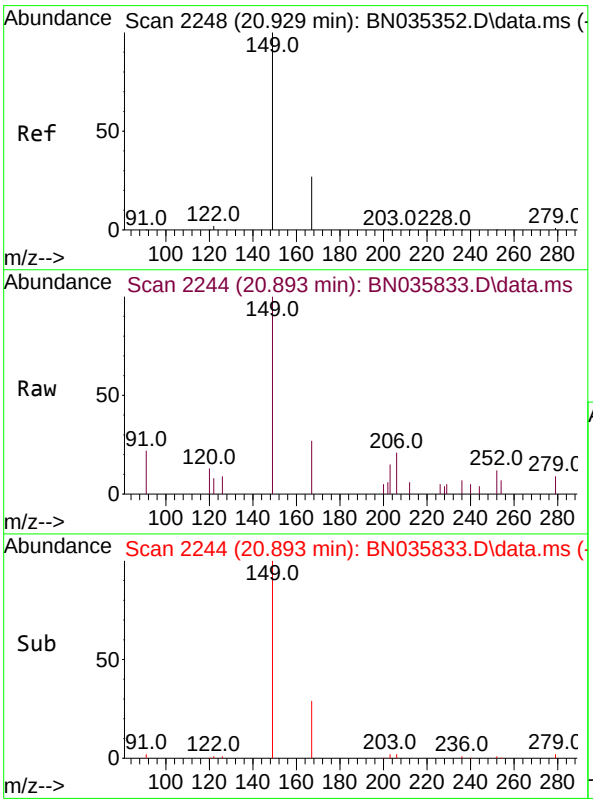
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 9.9 | 8.1 | 12.1 |
| 122 | 14.2 | 10.3 | 15.5 |

**Instrument :**
BNA_N
**ClientSampleId :**
RW11-MW01S-20241219

**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024

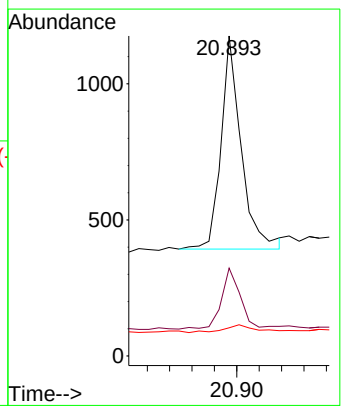


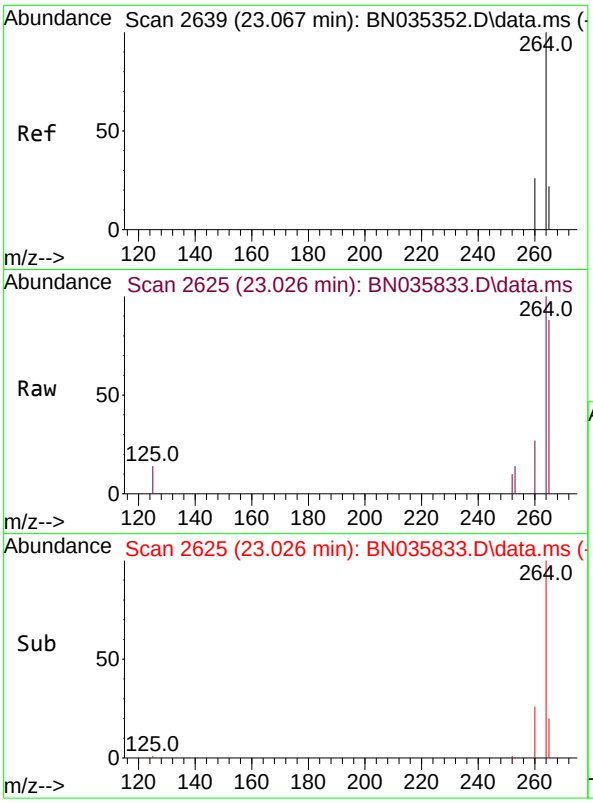




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.088 ng
RT: 20.893 min Scan# 2244
Delta R.T. -0.018 min
Lab File: BN035833.D
Acq: 24 Dec 2024 23:18

Tgt Ion:149 Resp: 981

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 27.2 | 22.2 | 33.4 |
| 279 | 6.7 | 2.7 | 4.1# |

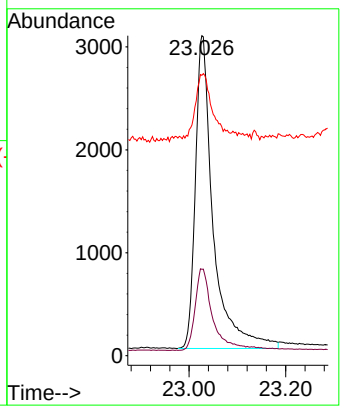





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.026 min Scan# 2
Delta R.T. -0.015 min
Lab File: BN035833.D
Acq: 24 Dec 2024 23:18

Tgt Ion:264 Resp: 778

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 27.0 | 21.4 | 32.2 |
| 265 | 87.6 | 40.2 | 60.4 |




**Instrument :**
BNA_N
**ClientSampleId :**
RW11-MW01S-20241219

**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | AECOM Technical Services, Inc. | Date Collected: | 12/19/24 |
| Project: | NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258 | Date Received: | 12/20/24 |
| Client Sample ID: | RW11-MW01I-20241219 | SDG No.: | P5376 |
| Lab Sample ID: | P5376-17 | Matrix: | Water |
| Analytical Method: | SW8270ESIM | % Solid: | 0 |
| Sample Wt/Vol: | 980 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-SIMGroup1 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BN035834.D | 1 | 12/23/24 13:29 | 12/24/24 23:53 | PB165828 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 123-91-1 | 1,4-Dioxane | 0.20 | U | 0.070 | 0.20 | 0.20 | ug/L |
| **SURROGATES** | | | | | | | |
| 7297-45-2 | 2-Methylnaphthalene-d10 | 0.34 | | 30 - 150 | | 86% | SPK: 0.4 |
| 93951-69-0 | Fluoranthene-d10 | 0.40 | | 30 - 150 | | 100% | SPK: 0.4 |
| 4165-60-0 | Nitrobenzene-d5 | 0.39 | | 55 - 111 | | 97% | SPK: 0.4 |
| 321-60-8 | 2-Fluorobiphenyl | 0.37 | | 53 - 106 | | 91% | SPK: 0.4 |
| 1718-51-0 | Terphenyl-d14 | 0.51 | | 58 - 132 | | 128% | SPK: 0.4 |
| **INTERNAL STANDARDS** | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 3210 | 7.257 | | | | |
| 1146-65-2 | Naphthalene-d8 | 7680 | 10.009 | | | | |
| 15067-26-2 | Acenaphthene-d10 | 4790 | 13.925 | | | | |
| 1517-22-2 | Phenanthrene-d10 | 10000 | 16.698 | | | | |
| 1719-03-5 | Chrysene-d12 | 8230 | 20.947 | | | | |
| 1520-96-3 | Perylene-d12 | 7810 | 23.026 | | | | |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035834.D
Acq On : 24 Dec 2024 23:53
Operator : RC/JU
Sample : P5376-17
Misc :
ALS Vial : 26 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
RW11-MW01I-20241219

**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024

Quant Time: Dec 25 02:35:10 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.257 | 152 | 3211 | 0.400 | ng | -0.01 |
| 7) Naphthalene-d8 | 10.009 | 136 | 7680 | 0.400 | ng | -0.01 |
| 13) Acenaphthene-d10 | 13.925 | 164 | 4788 | 0.400 | ng | -0.01 |
| 19) Phenanthrene-d10 | 16.698 | 188 | 10028 | 0.400 | ng | # 0.00 |
| 29) Chrysene-d12 | 20.947 | 240 | 8231 | 0.400 | ng | # 0.00 |
| 35) Perylene-d12 | 23.026 | 264 | 7812 | 0.400 | ng | #-0.01 |
| System Monitoring Compounds | | | | | | |
| 4) 2-Fluorophenol | 4.924 | 112 | 770 | 0.096 | ng | -0.01 |
| 5) Phenol-d6 | 6.477 | 99 | 388 | 0.040 | ng | -0.01 |
| 8) Nitrobenzene-d5 | 8.408 | 82 | 1810m | 0.386 | ng | 0.00 |
| 11) 2-Methylnaphthalene-d10 | 11.616 | 152 | 4135 | 0.344 | ng | 0.00 |
| 14) 2,4,6-Tribromophenol | 15.453 | 330 | 529 | 0.156 | ng | 0.00 |
| 15) 2-Fluorobiphenyl | 12.533 | 172 | 6614 | 0.365 | ng | -0.01 |
| 27) Fluoranthene-d10 | 18.747 | 212 | 11419 | 0.402 | ng | -0.01 |
| 31) Terphenyl-d14 | 19.379 | 244 | 8341 | 0.514 | ng | 0.00 |
| Target Compounds | | | | | | Qvalue |
| 34) Bis(2-ethylhexyl)phtha... | 20.893 | 149 | 474 | 0.042 | ng | # 96 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

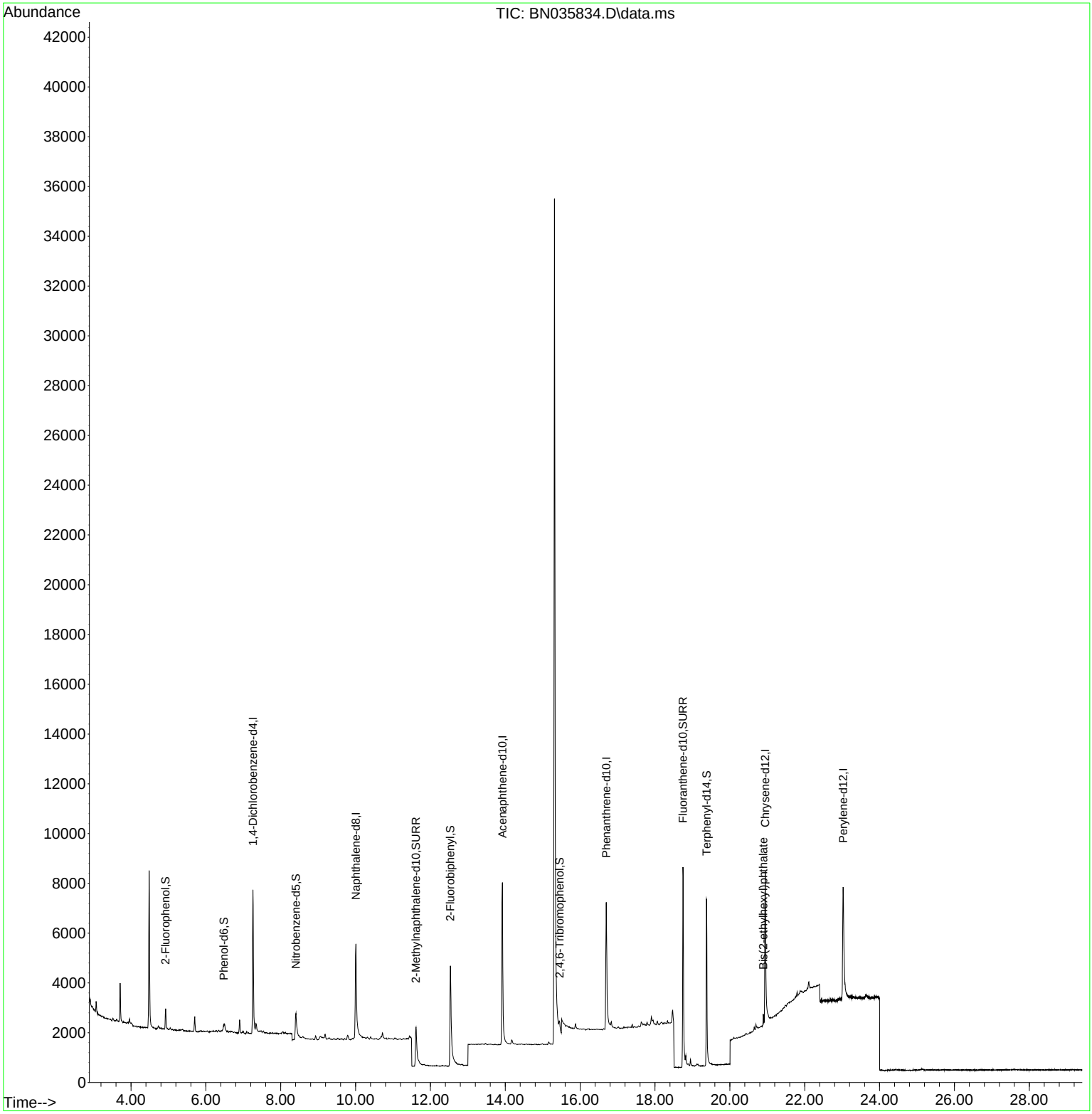
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035834.D
Acq On : 24 Dec 2024 23:53
Operator : RC/JU
Sample : P5376-17
Misc :
ALS Vial : 26 Sample Multiplier: 1

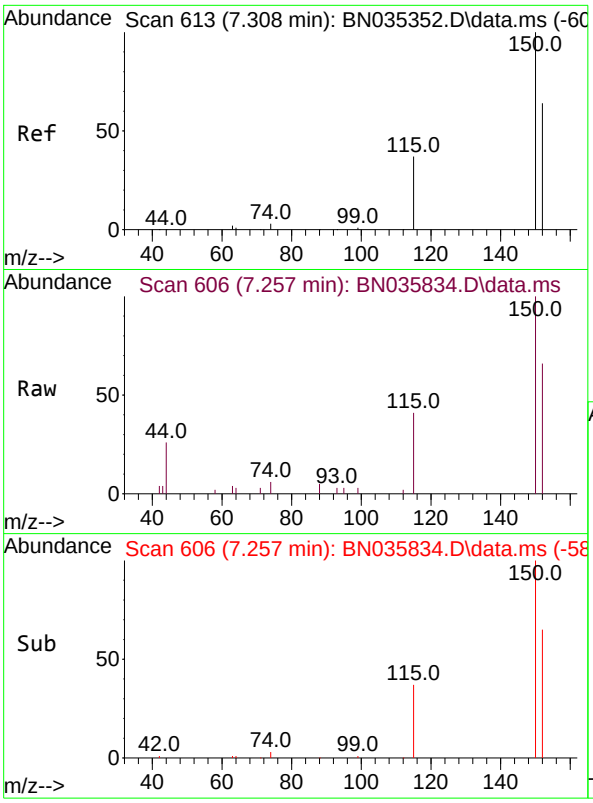
Quant Time: Dec 25 02:35:10 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

**Instrument :**
BNA_N
**ClientSampleId :**
RW11-MW01I-20241219

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 12/26/2024
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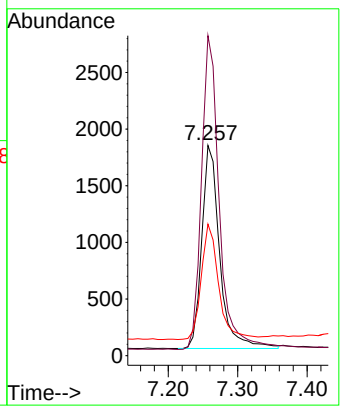





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 6(
Delta R.T. -0.015 min
Lab File: BN035834.D
Acq: 24 Dec 2024 23:53

Tgt Ion:152 Resp: 321

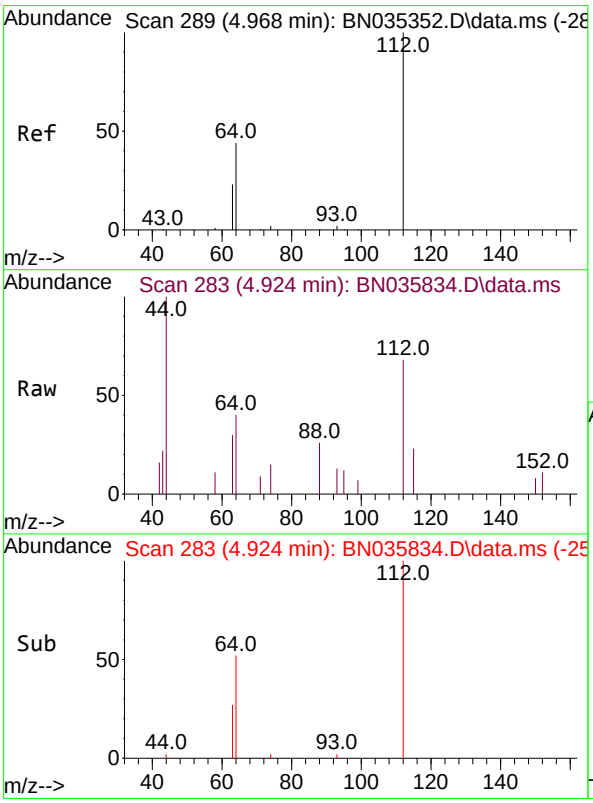
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 152.2 | 124.0 | 186.0 |
| 115 | 62.6 | 49.6 | 74.4 |




**Instrument :**
BNA_N
**ClientSampleId :**
RW11-MW01I-20241219

**Manual Integrations APPROVED**

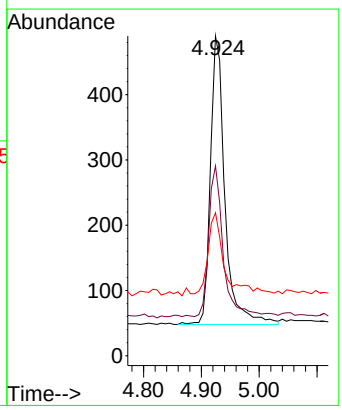
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024

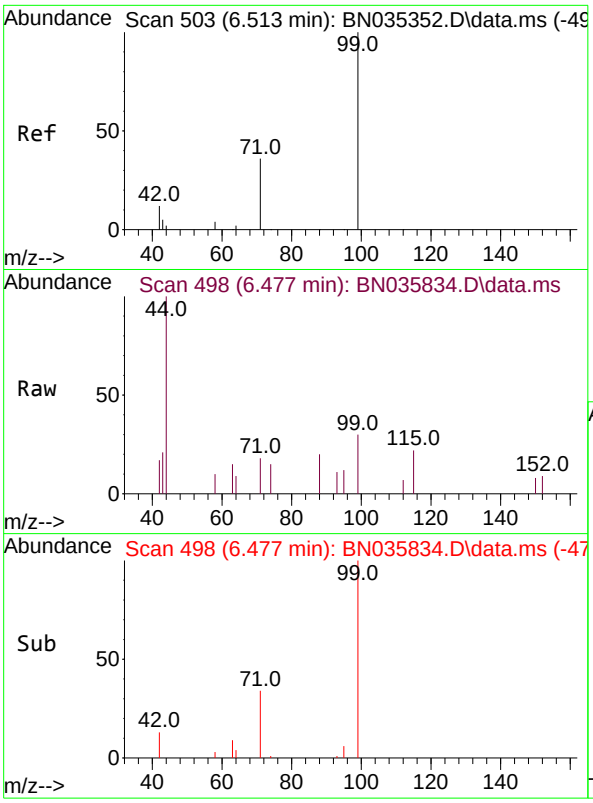



#4
2-Fluorophenol
Concen: 0.096 ng
RT: 4.924 min Scan# 283
Delta R.T. -0.015 min
Lab File: BN035834.D
Acq: 24 Dec 2024 23:53

Tgt Ion:112 Resp: 770

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 53.1 | 39.8 | 59.8 |
| 63 | 31.9 | 21.0 | 31.6# |

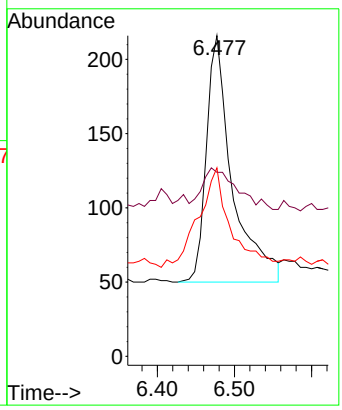





#5
Phenol-d6
Concen: 0.040 ng
RT: 6.477 min Scan# 4
Delta R.T. -0.015 min
Lab File: BN035834.D
Acq: 24 Dec 2024 23:53

Tgt Ion: 99 Resp: 38

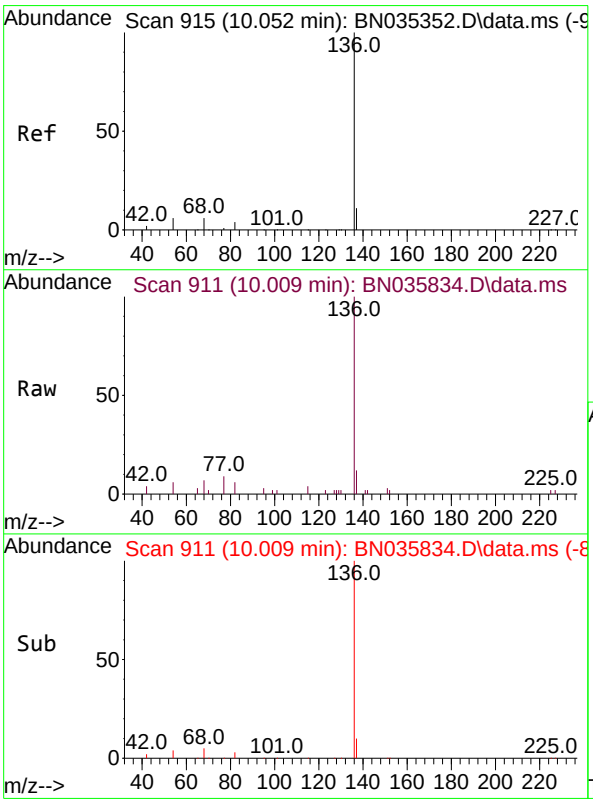
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 25.5 | 11.4 | 17.2 |
| 71 | 49.7 | 29.3 | 43.9 |




**Instrument :**
BNA_N
**ClientSampleId :**
RW11-MW01I-20241219

**Manual Integrations**
**APPROVED**

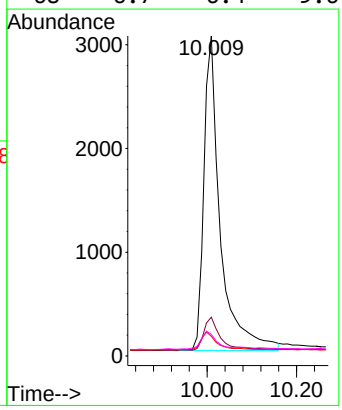
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024

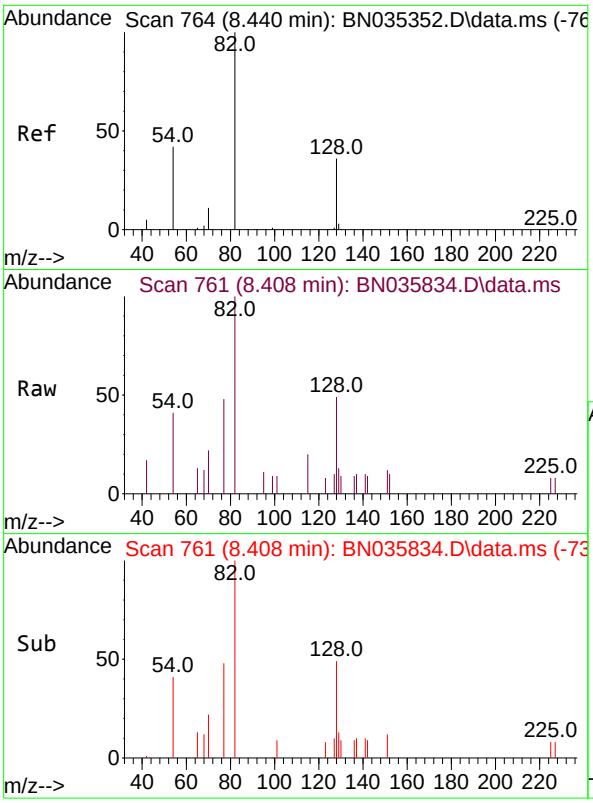



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 911
Delta R.T. -0.011 min
Lab File: BN035834.D
Acq: 24 Dec 2024 23:53

Tgt Ion:136 Resp: 7680

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 12.1 | 10.2 | 15.2 |
| 54 | 6.2 | 6.1 | 9.1 |
| 68 | 6.7 | 6.4 | 9.6 |

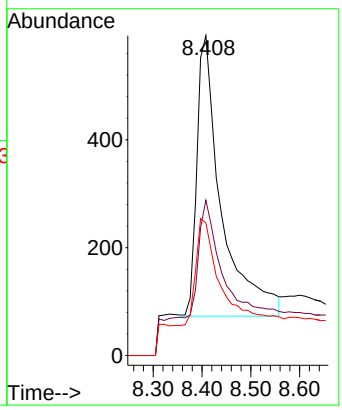





#8
Nitrobenzene-d5
Concen: 0.386 ng m
RT: 8.408 min Scan# 7
Delta R.T. -0.000 min
Lab File: BN035834.D
Acq: 24 Dec 2024 23:53

Tgt Ion: 82 Resp: 181

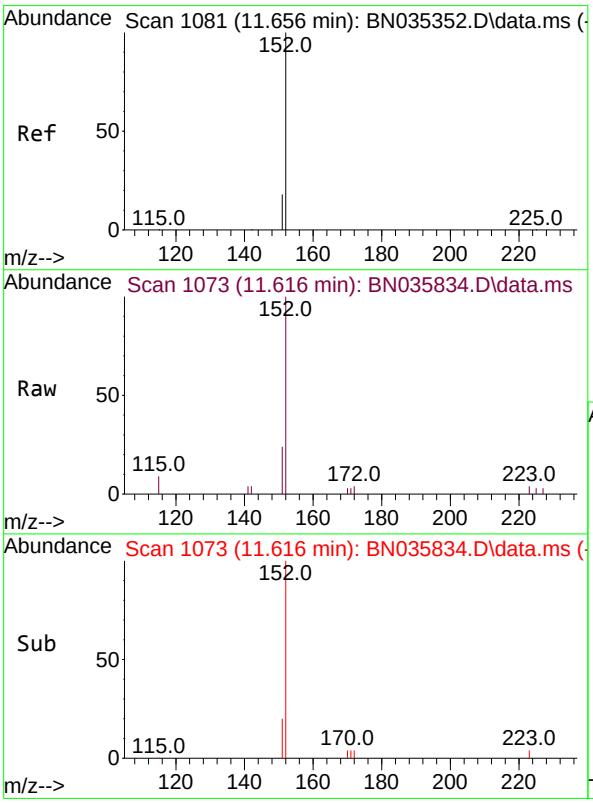
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 48.6 | 33.4 | 50.0 |
| 54 | 41.5 | 36.7 | 55.1 |




**Instrument :**
BNA_N
**ClientSampleId :**
RW11-MW01I-20241219

**Manual Integrations**
**APPROVED**

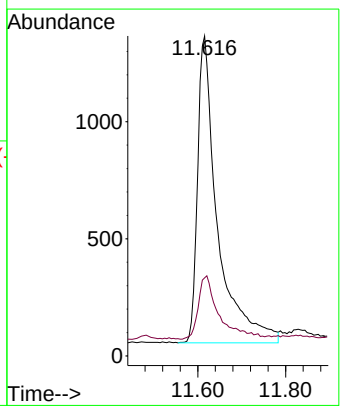
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024

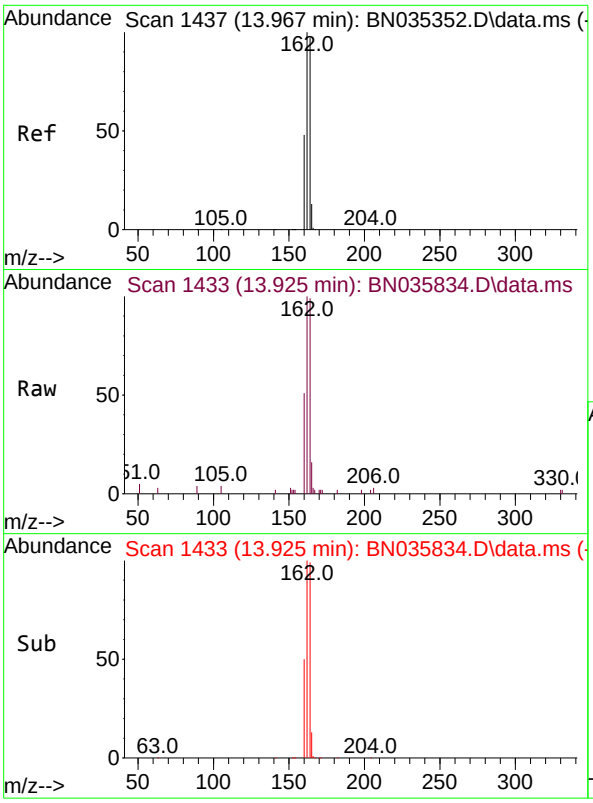



#11
2-Methylnaphthalene-d10
Concen: 0.344 ng
RT: 11.616 min Scan# 1073
Delta R.T. -0.005 min
Lab File: BN035834.D
Acq: 24 Dec 2024 23:53

Tgt Ion:152 Resp: 4135

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 21.4 | 16.6 | 25.0 |

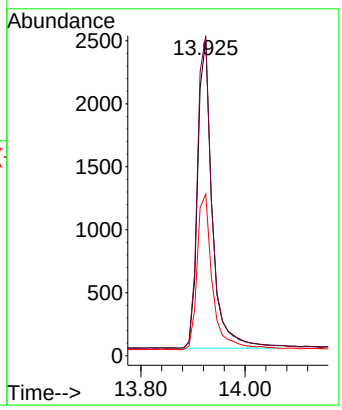





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.925 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035834.D
Acq: 24 Dec 2024 23:53

Tgt Ion:164 Resp: 478

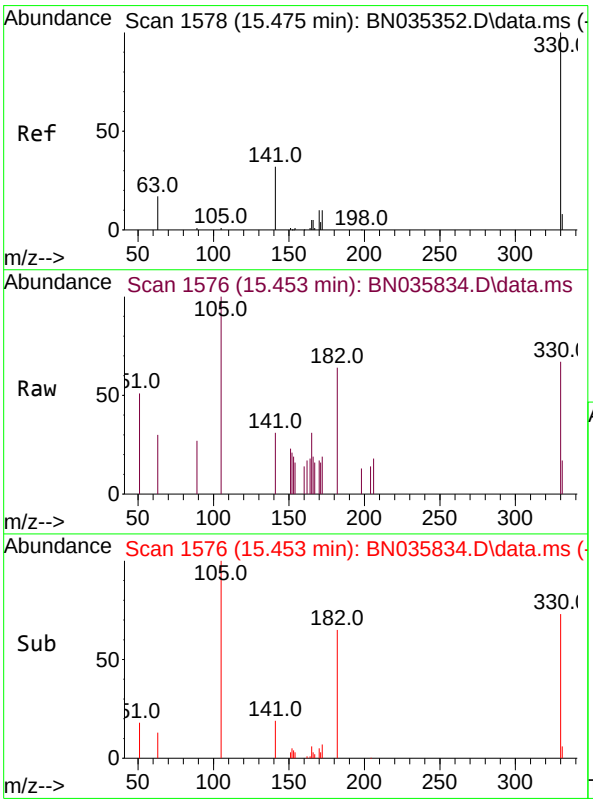
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 101.2 | 82.2 | 123.2 |
| 160 | 51.2 | 40.1 | 60.1 |




**Instrument :**
BNA_N
**ClientSampleId :**
RW11-MW01I-20241219

**Manual Integrations**
**APPROVED**

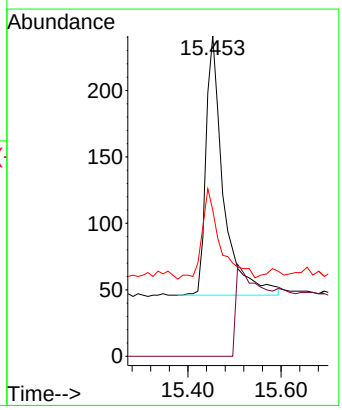
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024

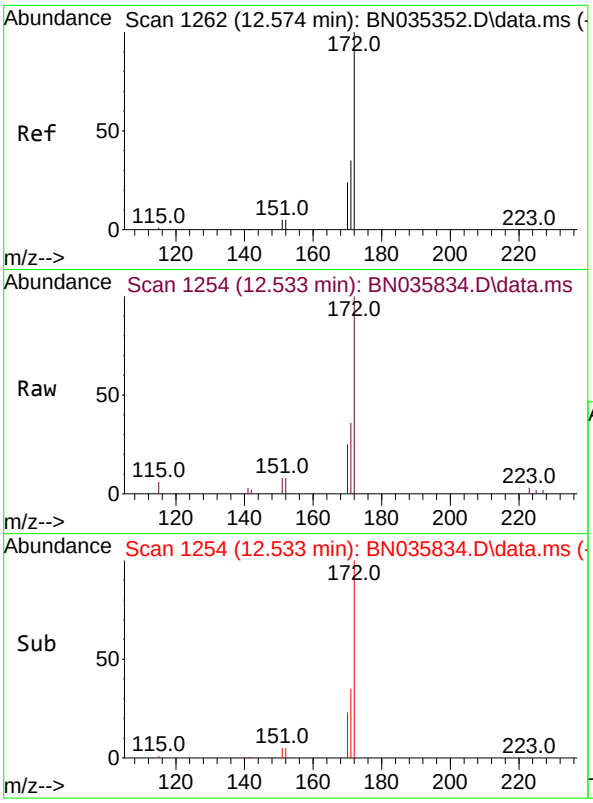



#14
2,4,6-Tribromophenol
Concen: 0.156 ng
RT: 15.453 min Scan# 1576
Delta R.T. -0.000 min
Lab File: BN035834.D
Acq: 24 Dec 2024 23:53

Tgt Ion:330 Resp: 529

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 0.0 | 0.0 | 0.0 |
| 141 | 35.3 | 26.6 | 40.0 |






#15
2-Fluorobiphenyl
Concen: 0.365 ng
RT: 12.533 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035834.D
Acq: 24 Dec 2024 23:53

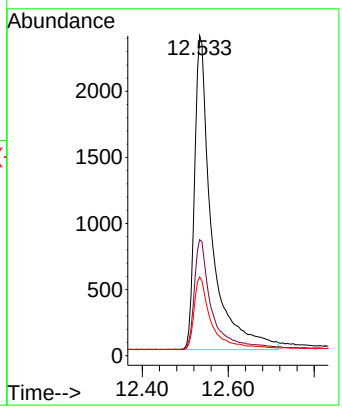
Tgt Ion:172 Resp: 661

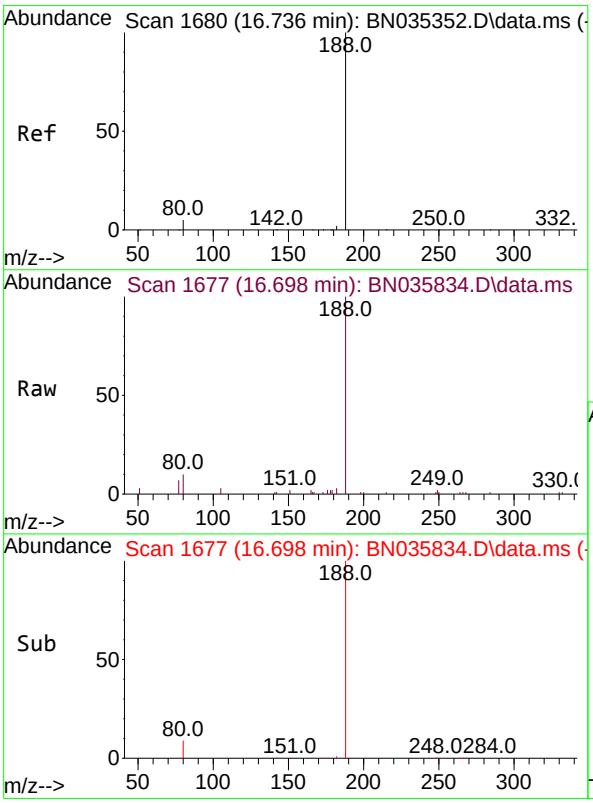
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 36.3 | 29.0 | 43.4 |
| 170 | 24.6 | 19.8 | 29.8 |

**Instrument :**
BNA_N
**ClientSampleId :**
RW11-MW01I-20241219

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024

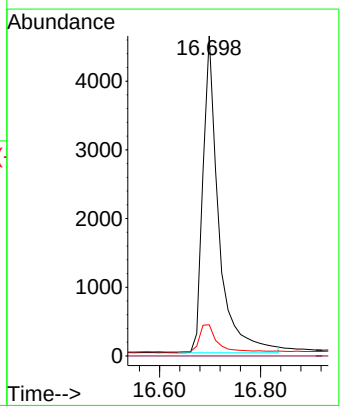


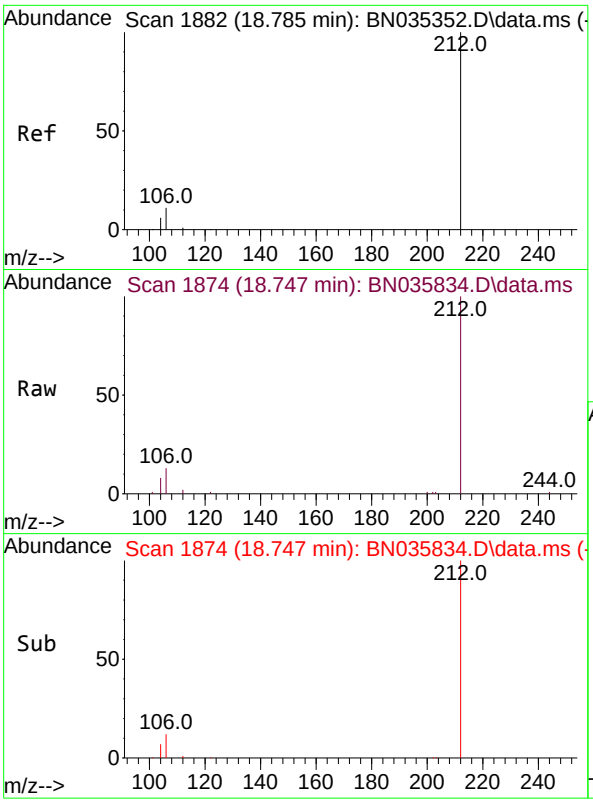




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1677
Delta R.T. -0.000 min
Lab File: BN035834.D
Acq: 24 Dec 2024 23:53

Tgt Ion:188 Resp: 10028

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 9.7 | 4.6 | 6.8# |

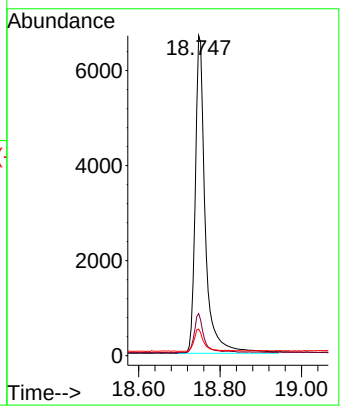





#27
Fluoranthene-d10
Concen: 0.402 ng
RT: 18.747 min Scan# 1
Delta R.T. -0.014 min
Lab File: BN035834.D
Acq: 24 Dec 2024 23:53

Tgt Ion:212 Resp: 1141

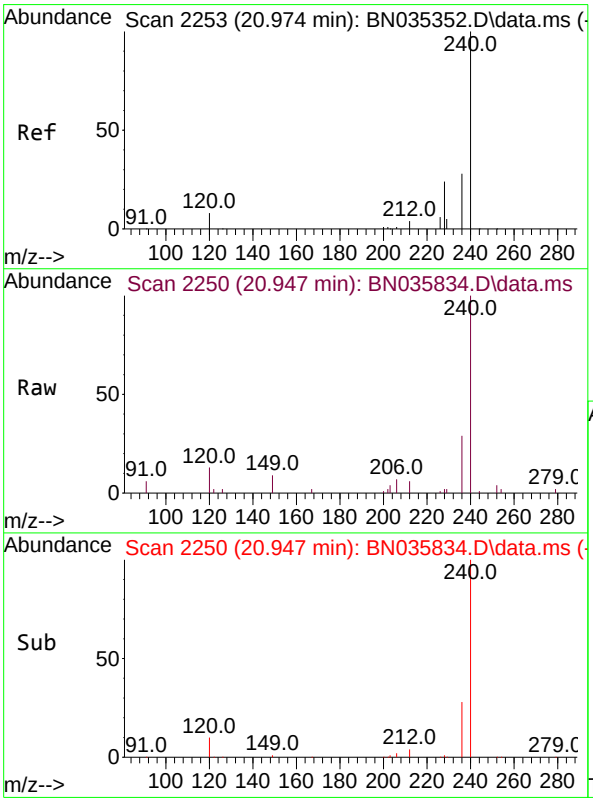
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 11.2 | 9.2 | 13.8 |
| 104 | 6.7 | 5.3 | 7.9 |




**Instrument :**
BNA_N
**ClientSampleId :**
RW11-MW01I-20241219

**Manual Integrations APPROVED**

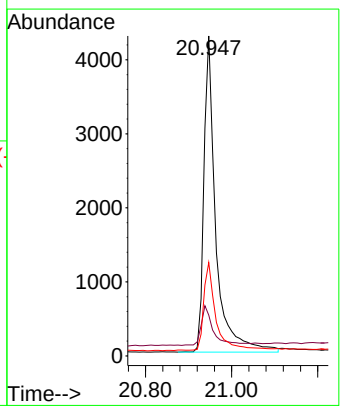
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024

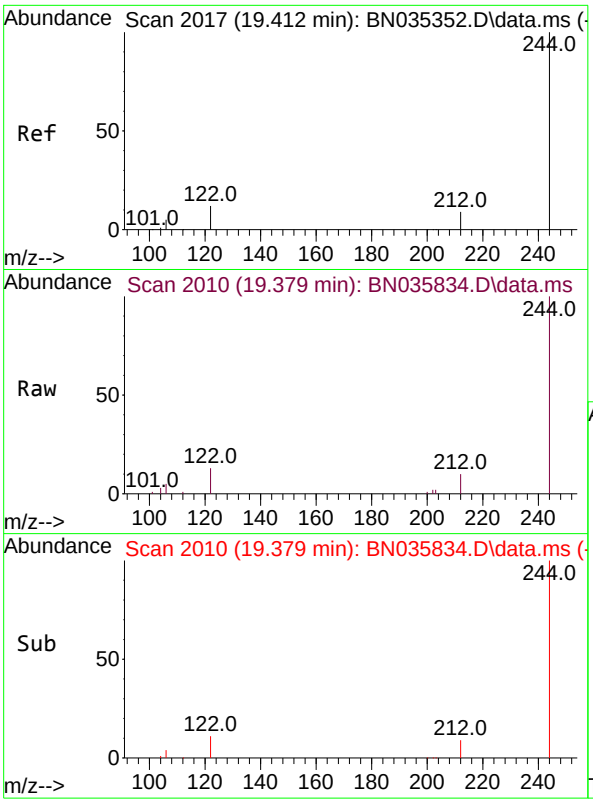



#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2250
Delta R.T. -0.009 min
Lab File: BN035834.D
Acq: 24 Dec 2024 23:53

Tgt Ion:240 Resp: 8231

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 12.7 | 7.9 | 11.9# |
| 236 | 29.2 | 22.9 | 34.3 |

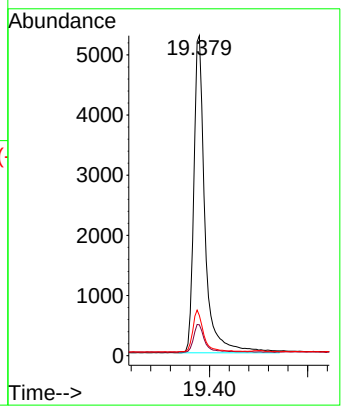





#31
Terphenyl-d14
Concen: 0.514 ng
RT: 19.379 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035834.D
Acq: 24 Dec 2024 23:53

Tgt Ion:244 Resp: 834

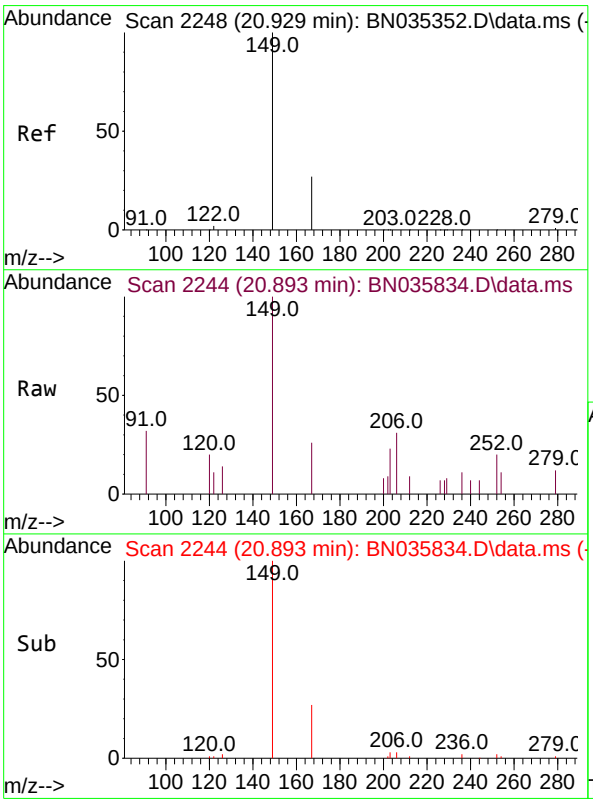
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 9.7 | 8.1 | 12.1 |
| 122 | 12.6 | 10.3 | 15.5 |




**Instrument :**
BNA_N
**ClientSampleId :**
RW11-MW01I-20241219

**Manual Integrations**
**APPROVED**

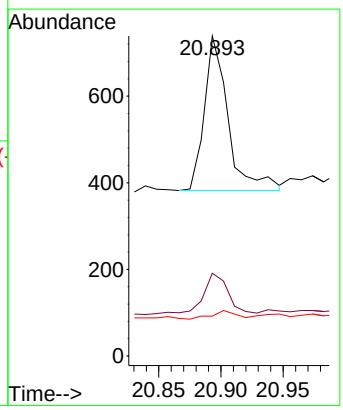
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024

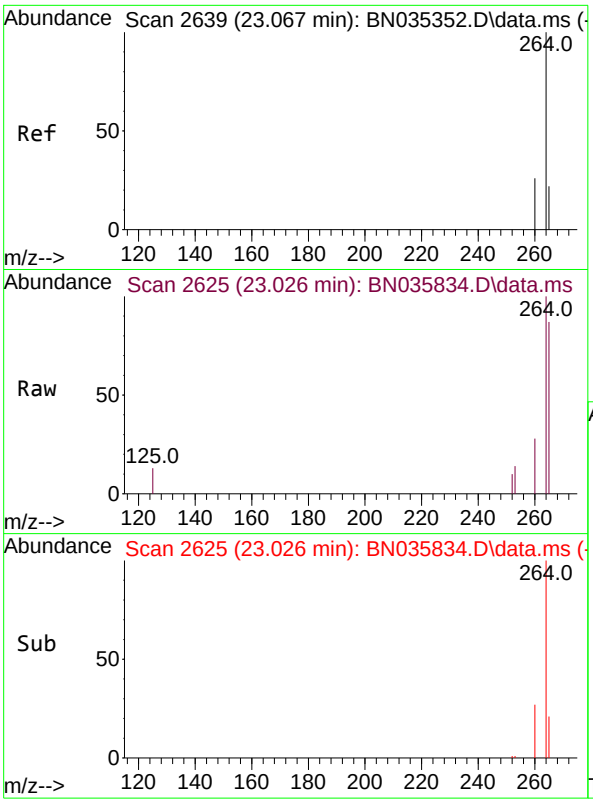



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.042 ng
RT: 20.893 min Scan# 2244
Delta R.T. -0.018 min
Lab File: BN035834.D
Acq: 24 Dec 2024 23:53

Tgt Ion:149 Resp: 474

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 26.2 | 22.2 | 33.4 |
| 279 | 5.7 | 2.7 | 4.1# |

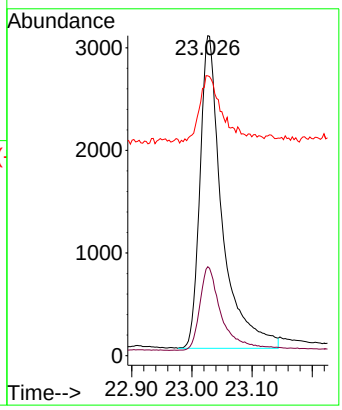





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.026 min Scan# 2
Delta R.T. -0.015 min
Lab File: BN035834.D
Acq: 24 Dec 2024 23:53

Tgt Ion:264 Resp: 781

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 27.8 | 21.4 | 32.2 |
| 265 | 87.5 | 40.2 | 60.4 |




**Instrument :**
BNA_N
**ClientSampleId :**
RW11-MW01I-20241219

**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | AECOM Technical Services, Inc. | Date Collected: | 12/19/24 |
| Project: | NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258 | Date Received: | 12/20/24 |
| Client Sample ID: | TT119S1-20241219 | SDG No.: | P5376 |
| Lab Sample ID: | P5376-18 | Matrix: | Water |
| Analytical Method: | SW8270ESIM | % Solid: | 0 |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-SIMGroup1 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BN035835.D | 1 | 12/23/24 13:29 | 12/25/24 00:29 | PB165828 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 123-91-1 | 1,4-Dioxane | 0.20 | U | 0.070 | 0.20 | 0.20 | ug/L |
| **SURROGATES** | | | | | | | |
| 7297-45-2 | 2-Methylnaphthalene-d10 | 0.34 | | 30 - 150 | | 84% | SPK: 0.4 |
| 93951-69-0 | Fluoranthene-d10 | 0.41 | | 30 - 150 | | 102% | SPK: 0.4 |
| 4165-60-0 | Nitrobenzene-d5 | 0.38 | | 55 - 111 | | 94% | SPK: 0.4 |
| 321-60-8 | 2-Fluorobiphenyl | 0.36 | | 53 - 106 | | 90% | SPK: 0.4 |
| 1718-51-0 | Terphenyl-d14 | 0.53 | * | 58 - 132 | | 133% | SPK: 0.4 |
| **INTERNAL STANDARDS** | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 3270 | 7.264 | | | | |
| 1146-65-2 | Naphthalene-d8 | 7390 | 10.009 | | | | |
| 15067-26-2 | Acenaphthene-d10 | 4620 | 13.925 | | | | |
| 1517-22-2 | Phenanthrene-d10 | 9150 | 16.698 | | | | |
| 1719-03-5 | Chrysene-d12 | 7440 | 20.947 | | | | |
| 1520-96-3 | Perylene-d12 | 7070 | 23.029 | | | | |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035835.D
Acq On : 25 Dec 2024 00:29
Operator : RC/JU
Sample : P5376-18
Misc :
ALS Vial : 27 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
TT119S1-20241219

**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024

Quant Time: Dec 25 04:21:48 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.264 | 152 | 3270 | 0.400 | ng | 0.00 |
| 7) Naphthalene-d8 | 10.009 | 136 | 7393 | 0.400 | ng | -0.01 |
| 13) Acenaphthene-d10 | 13.925 | 164 | 4622 | 0.400 | ng | -0.01 |
| 19) Phenanthrene-d10 | 16.698 | 188 | 9153 | 0.400 | ng | # 0.00 |
| 29) Chrysene-d12 | 20.947 | 240 | 7437 | 0.400 | ng | # 0.00 |
| 35) Perylene-d12 | 23.029 | 264 | 7071 | 0.400 | ng | #-0.01 |
| System Monitoring Compounds | | | | | | |
| 4) 2-Fluorophenol | 4.924 | 112 | 859 | 0.105 | ng | -0.01 |
| 5) Phenol-d6 | 6.484 | 99 | 361 | 0.037 | ng | 0.00 |
| 8) Nitrobenzene-d5 | 8.408 | 82 | 1707m | 0.378 | ng | 0.00 |
| 11) 2-Methylnaphthalene-d10 | 11.626 | 152 | 3916 | 0.338 | ng | 0.00 |
| 14) 2,4,6-Tribromophenol | 15.453 | 330 | 618 | 0.188 | ng | 0.00 |
| 15) 2-Fluorobiphenyl | 12.539 | 172 | 6261 | 0.358 | ng | 0.00 |
| 27) Fluoranthene-d10 | 18.747 | 212 | 10636 | 0.410 | ng | -0.01 |
| 31) Terphenyl-d14 | 19.379 | 244 | 7814 | 0.533 | ng | 0.00 |
| Target Compounds | | | | | | Qvalue |
| 2) 1,4-Dioxane | 2.982 | 88 | 63 | 0.020 | ng | # 71 |
| 34) Bis(2-ethylhexyl)phtha... | 20.893 | 149 | 496 | 0.048 | ng | 99 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

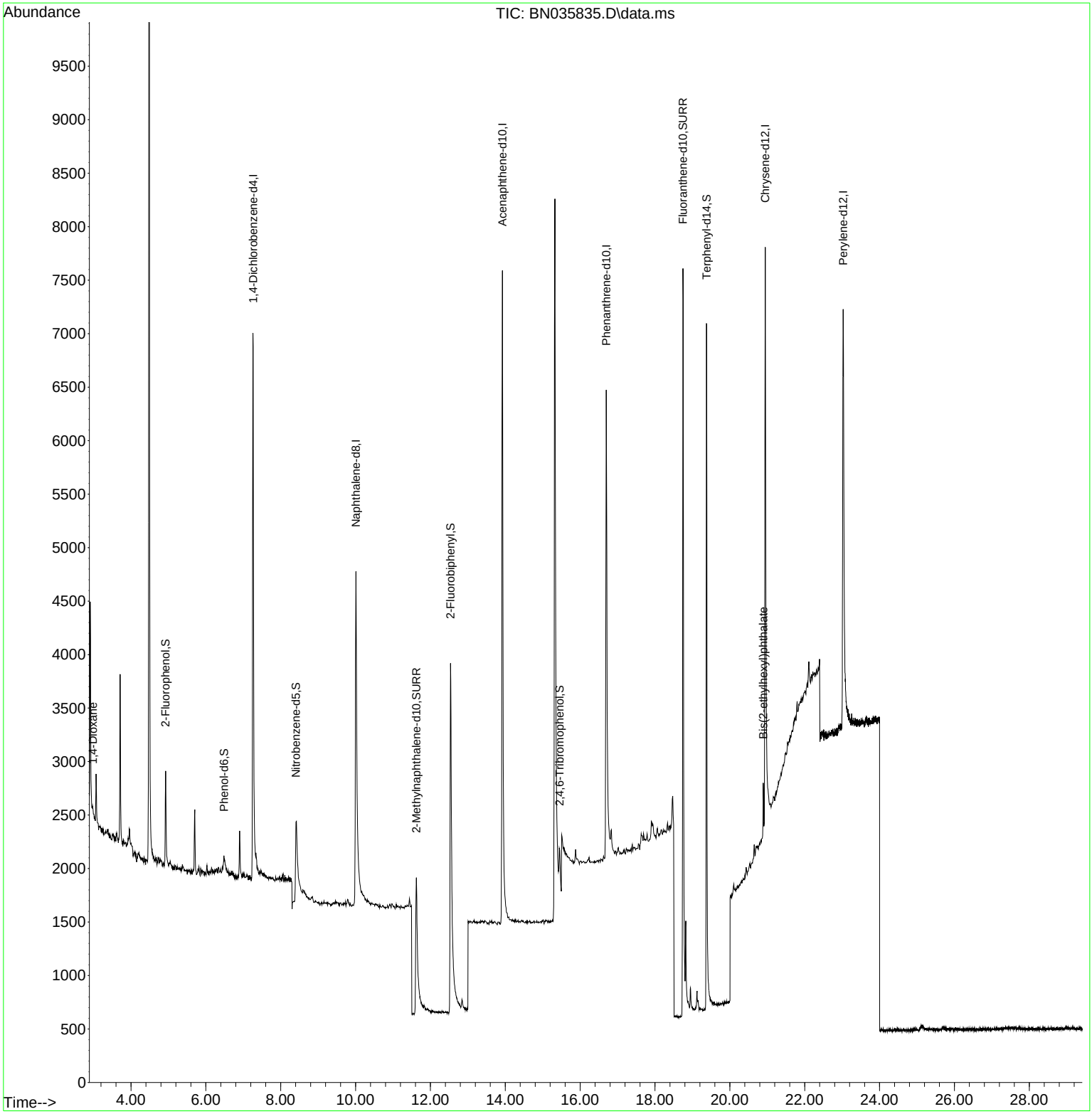
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035835.D
Acq On : 25 Dec 2024 00:29
Operator : RC/JU
Sample : P5376-18
Misc :
ALS Vial : 27 Sample Multiplier: 1

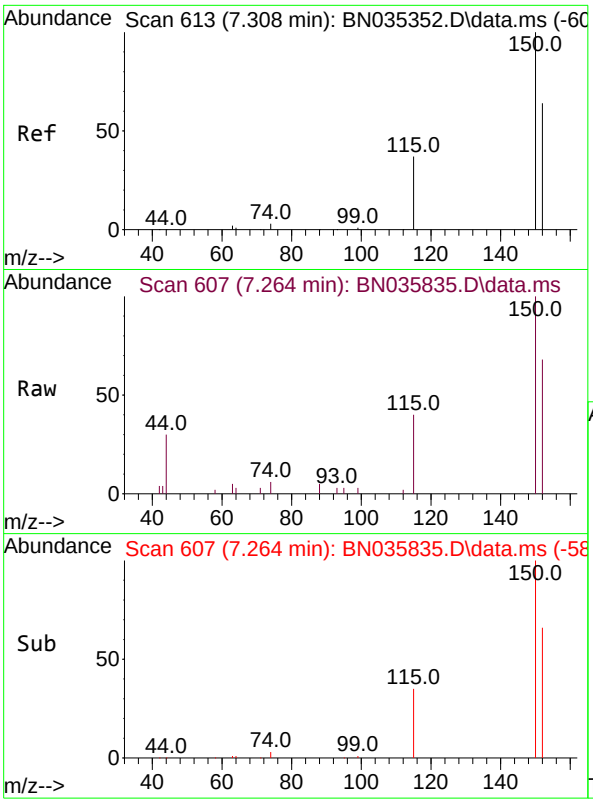
Quant Time: Dec 25 04:21:48 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

**Instrument :**
BNA_N
**ClientSampleId :**
TT119S1-20241219

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 12/26/2024
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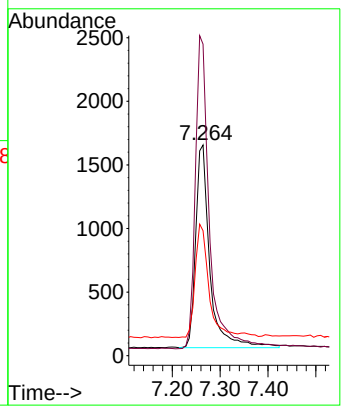





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.264 min Scan# 6(
Delta R.T. -0.008 min
Lab File: BN035835.D
Acq: 25 Dec 2024 00:29

Tgt Ion:152 Resp: 327(

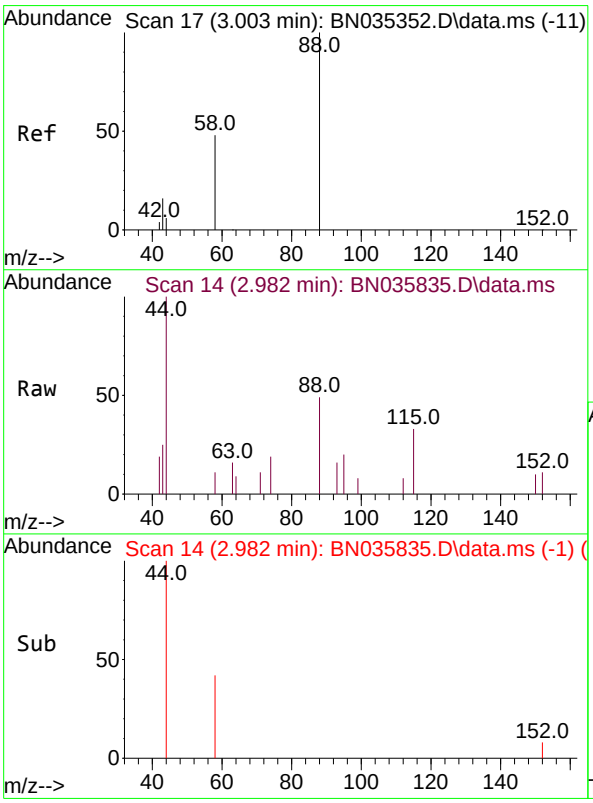
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 147.9 | 124.0 | 186.0 |
| 115 | 59.3 | 49.6 | 74.4 |




**Instrument :**
BNA_N
**ClientSampleId :**
TT119S1-20241219

**Manual Integrations**
**APPROVED**

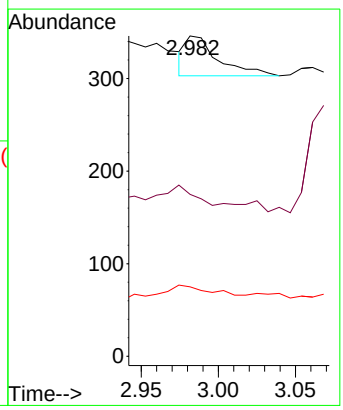
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024

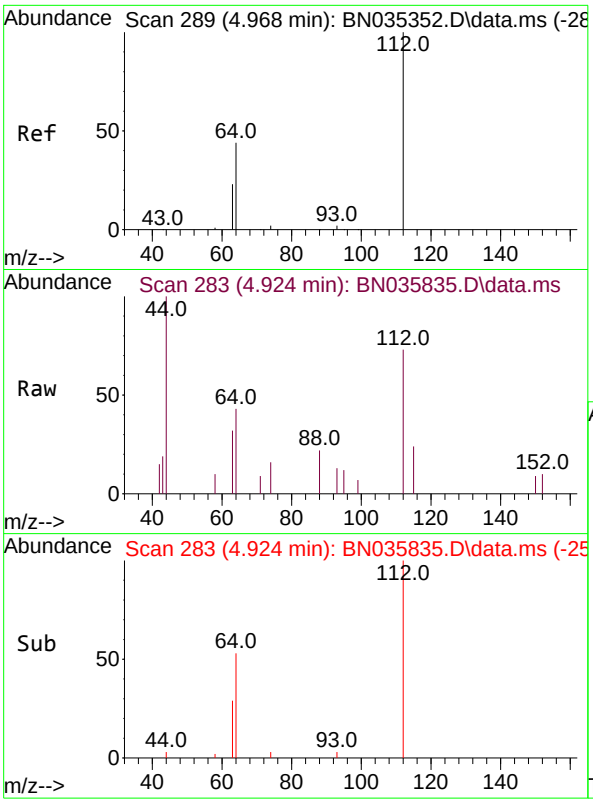



#2
1,4-Dioxane
Concen: 0.020 ng
RT: 2.982 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035835.D
Acq: 25 Dec 2024 00:29

Tgt Ion: 88 Resp: 63

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 41.3 | 17.2 | 25.8# |
| 58 | 38.1 | 44.5 | 66.7# |

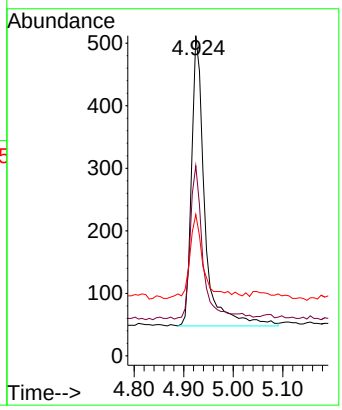





#4
2-Fluorophenol
Concen: 0.105 ng
RT: 4.924 min Scan# 2
Delta R.T. -0.015 min
Lab File: BN035835.D
Acq: 25 Dec 2024 00:29

Tgt Ion:112 Resp: 85

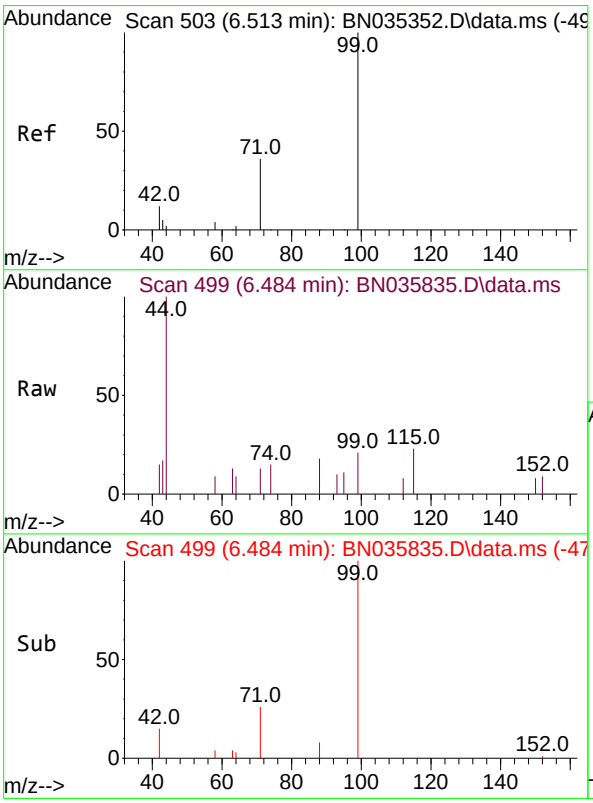
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 51.0 | 39.8 | 59.8 |
| 63 | 30.2 | 21.0 | 31.6 |




**Instrument :**
BNA_N
**ClientSampleId :**
TT119S1-20241219

**Manual Integrations**
**APPROVED**

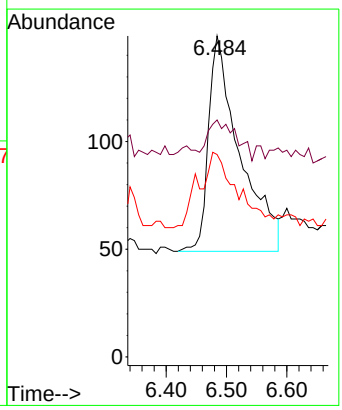
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024

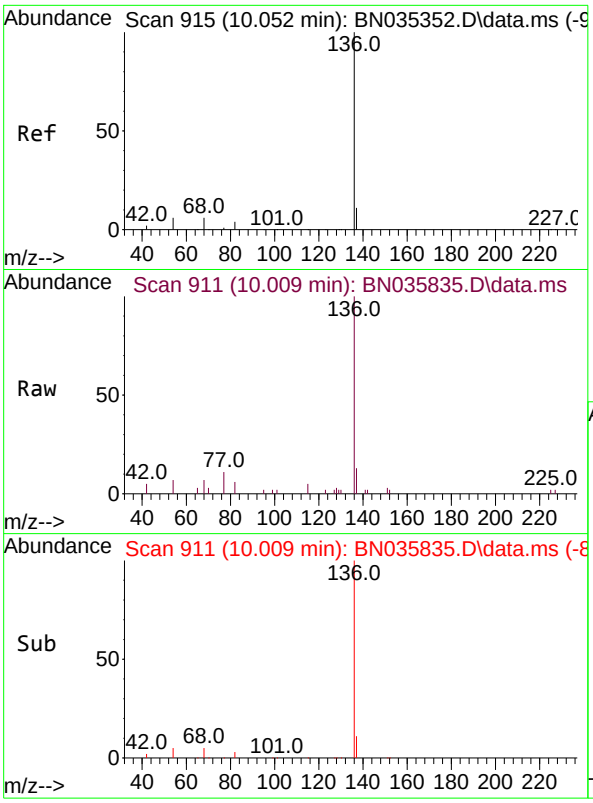



#5
Phenol-d6
Concen: 0.037 ng
RT: 6.484 min Scan# 499
Delta R.T. -0.007 min
Lab File: BN035835.D
Acq: 25 Dec 2024 00:29

Tgt Ion: 99 Resp: 361

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 16.9 | 11.4 | 17.2 |
| 71 | 25.8 | 29.3 | 43.9# |

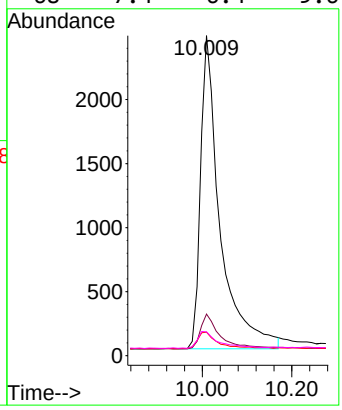





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN035835.D
Acq: 25 Dec 2024 00:29

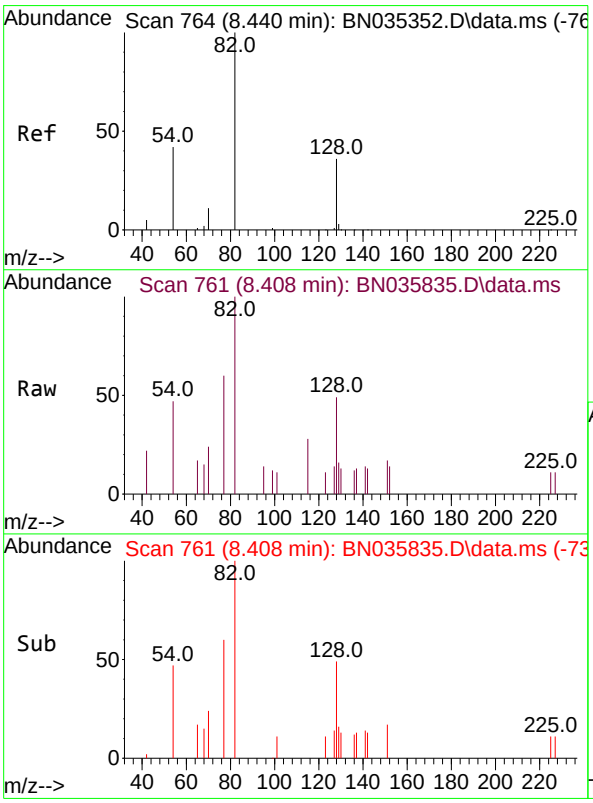
Tgt Ion:136 Resp: 739

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 13.0 | 10.2 | 15.2 |
| 54 | 7.4 | 6.1 | 9.1 |
| 68 | 7.4 | 6.4 | 9.6 |




**Instrument :**
BNA_N
**ClientSampleId :**
TT119S1-20241219

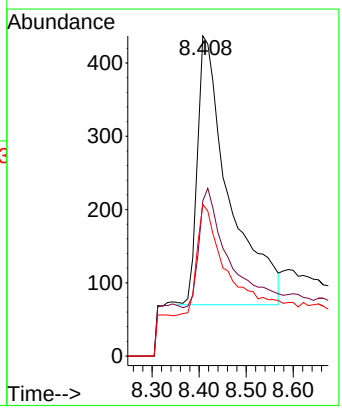
**Manual Integrations**
**APPROVED**
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024

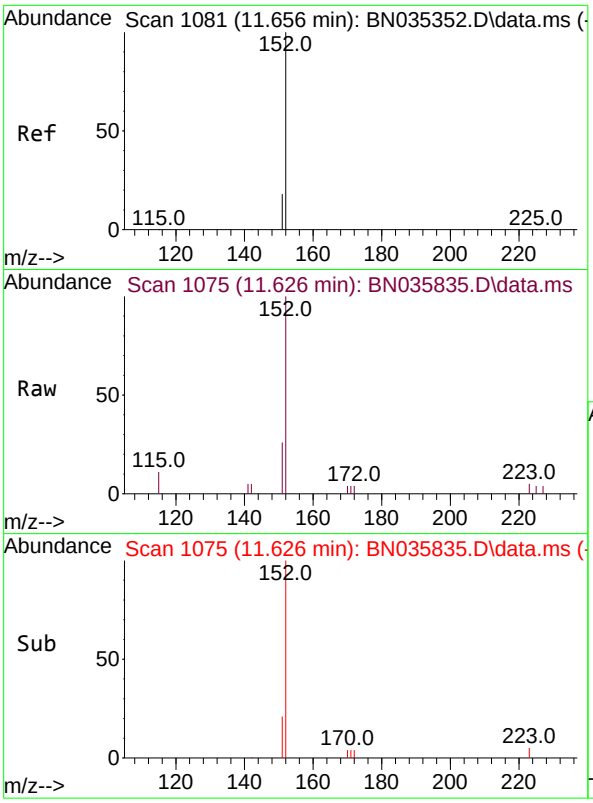



#8
Nitrobenzene-d5
Concen: 0.378 ng m
RT: 8.408 min Scan# 761
Delta R.T. -0.000 min
Lab File: BN035835.D
Acq: 25 Dec 2024 00:29

Tgt Ion: 82 Resp: 1707

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 48.5 | 33.4 | 50.0 |
| 54 | 47.4 | 36.7 | 55.1 |

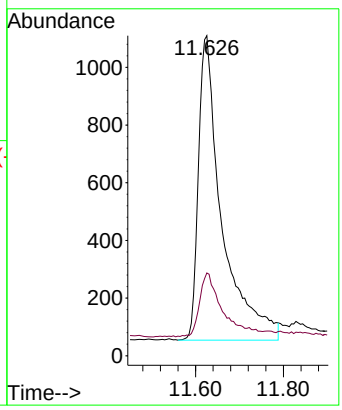





#11
2-Methylnaphthalene-d10
Concen: 0.338 ng
RT: 11.626 min Scan# 1(
Delta R.T. 0.005 min
Lab File: BN035835.D
Acq: 25 Dec 2024 00:29

Tgt Ion:152 Resp: 391(

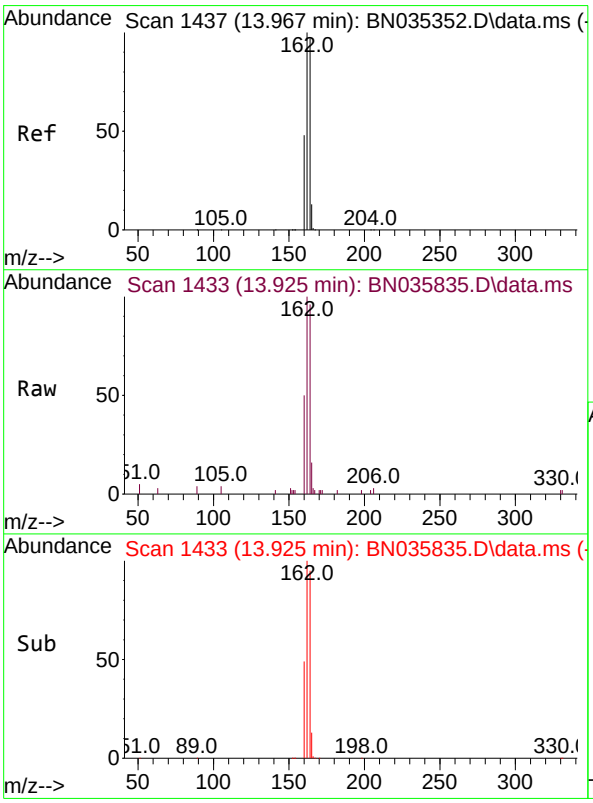
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.6 | 16.6 | 25.0 |




**Instrument :**
BNA_N
**ClientSampleId :**
TT119S1-20241219

**Manual Integrations**
**APPROVED**

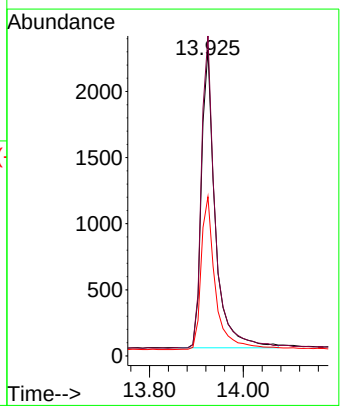
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024

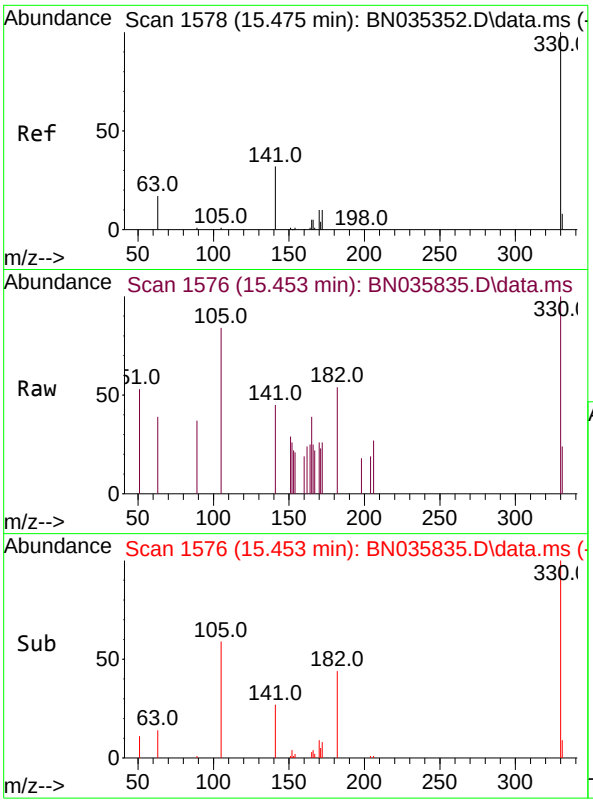



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.925 min Scan# 1433
Delta R.T. -0.011 min
Lab File: BN035835.D
Acq: 25 Dec 2024 00:29

Tgt Ion:164 Resp: 4622

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 104.5 | 82.2 | 123.2 |
| 160 | 52.0 | 40.1 | 60.1 |

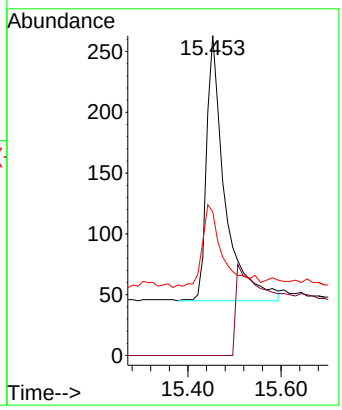





#14
2,4,6-Tribromophenol
Concen: 0.188 ng
RT: 15.453 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035835.D
Acq: 25 Dec 2024 00:29

Tgt Ion:330 Resp: 61

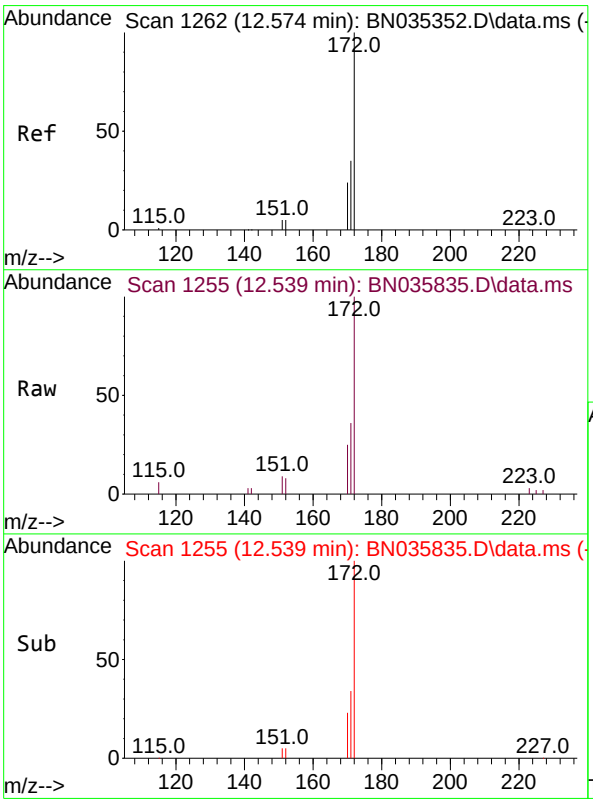
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 0.0 | 0.0 | 0.0 |
| 141 | 34.8 | 26.6 | 40.0 |




**Instrument :**
BNA_N
**ClientSampleId :**
TT119S1-20241219

**Manual Integrations**
**APPROVED**

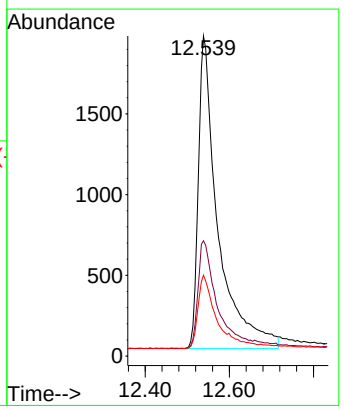
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024

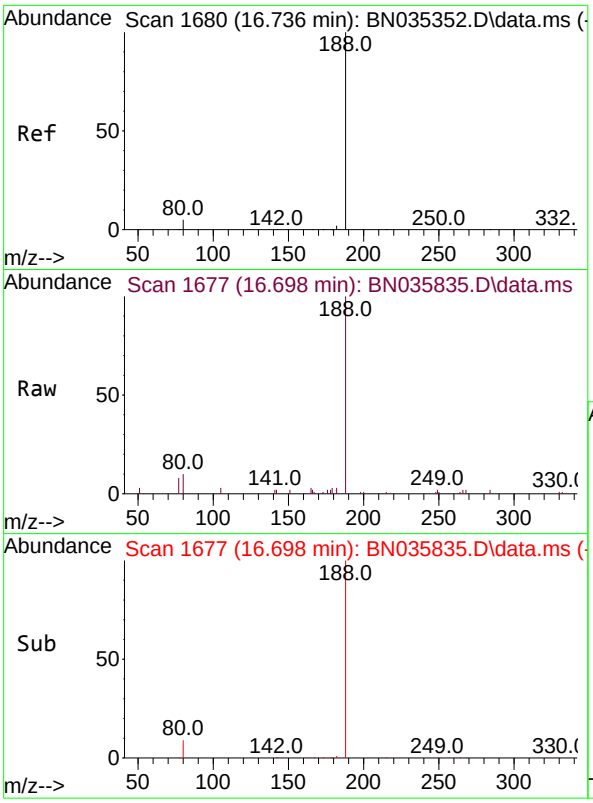



#15
2-Fluorobiphenyl
Concen: 0.358 ng
RT: 12.539 min Scan# 1255
Delta R.T. -0.005 min
Lab File: BN035835.D
Acq: 25 Dec 2024 00:29

Tgt Ion:172 Resp: 6261

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 36.0 | 29.0 | 43.4 |
| 170 | 25.3 | 19.8 | 29.8 |

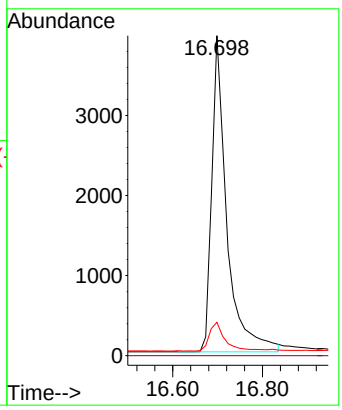





#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035835.D
Acq: 25 Dec 2024 00:29

Tgt Ion:188 Resp: 915

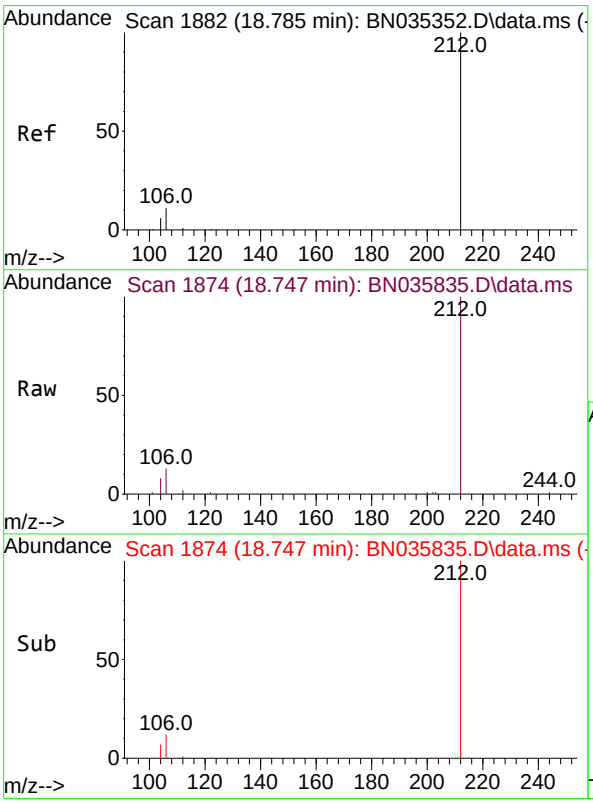
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 10.5 | 4.6 | 6.8 |




**Instrument :**
BNA_N
**ClientSampleId :**
TT119S1-20241219

**Manual Integrations**
**APPROVED**

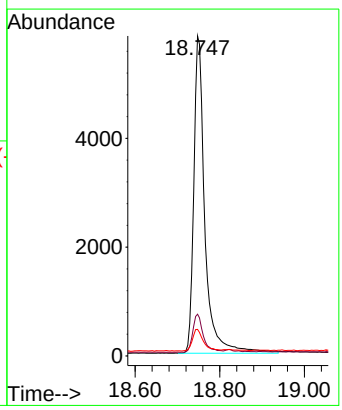
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024

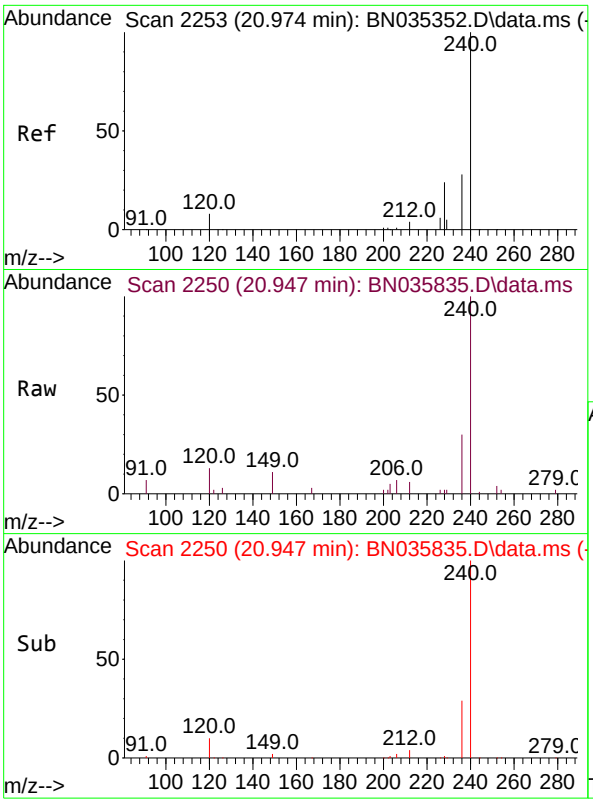



#27
Fluoranthene-d10
Concen: 0.410 ng
RT: 18.747 min Scan# 1874
Delta R.T. -0.014 min
Lab File: BN035835.D
Acq: 25 Dec 2024 00:29

Tgt Ion:212 Resp: 10636

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 11.4 | 9.2 | 13.8 |
| 104 | 6.7 | 5.3 | 7.9 |

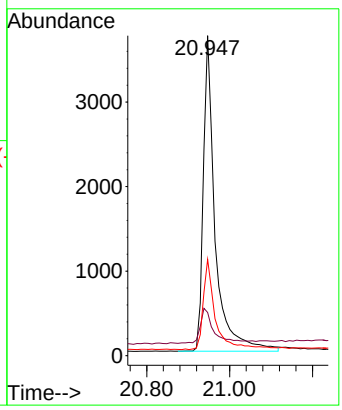





#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035835.D
Acq: 25 Dec 2024 00:29

Tgt Ion:240 Resp: 743

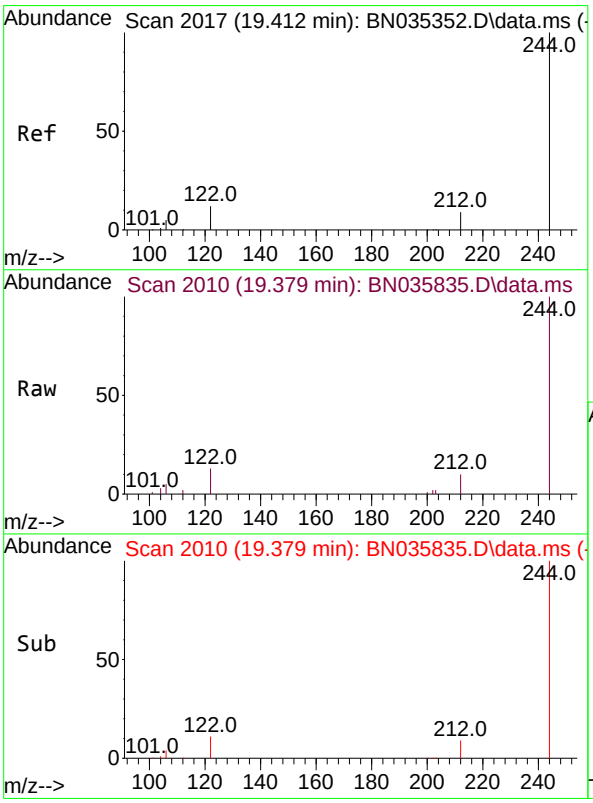
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 13.5 | 7.9 | 11.9# |
| 236 | 30.1 | 22.9 | 34.3 |




**Instrument :**
BNA_N
**ClientSampleId :**
TT119S1-20241219

**Manual Integrations**
**APPROVED**

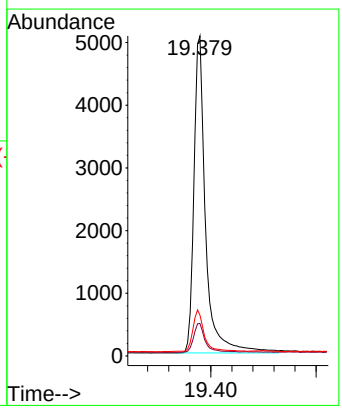
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024

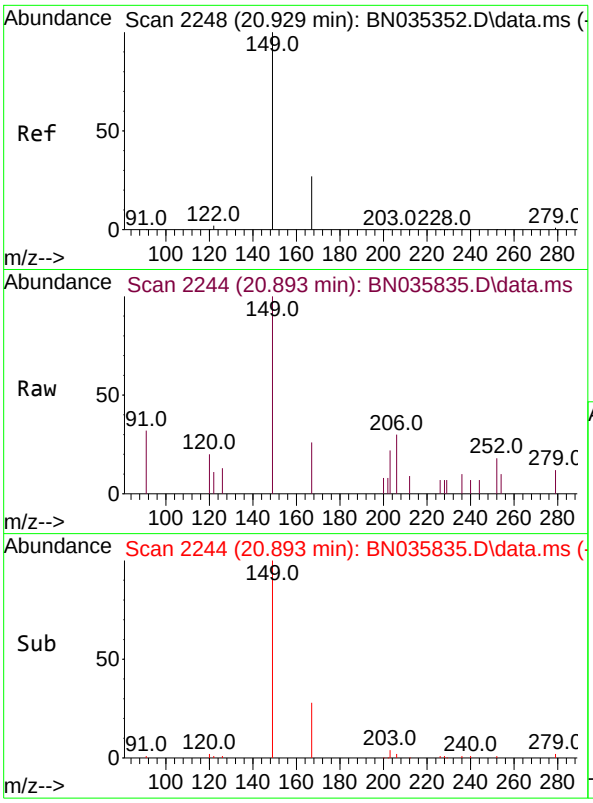



#31
Terphenyl-d14
Concen: 0.533 ng
RT: 19.379 min Scan# 2010
Delta R.T. -0.009 min
Lab File: BN035835.D
Acq: 25 Dec 2024 00:29

Tgt Ion:244 Resp: 7814

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 10.1 | 8.1 | 12.1 |
| 122 | 12.7 | 10.3 | 15.5 |






#34
Bis(2-ethylhexyl)phthalate
Concen: 0.048 ng
RT: 20.893 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035835.D
Acq: 25 Dec 2024 00:29

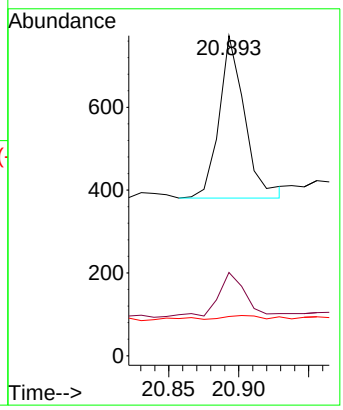
Tgt Ion:149 Resp: 49

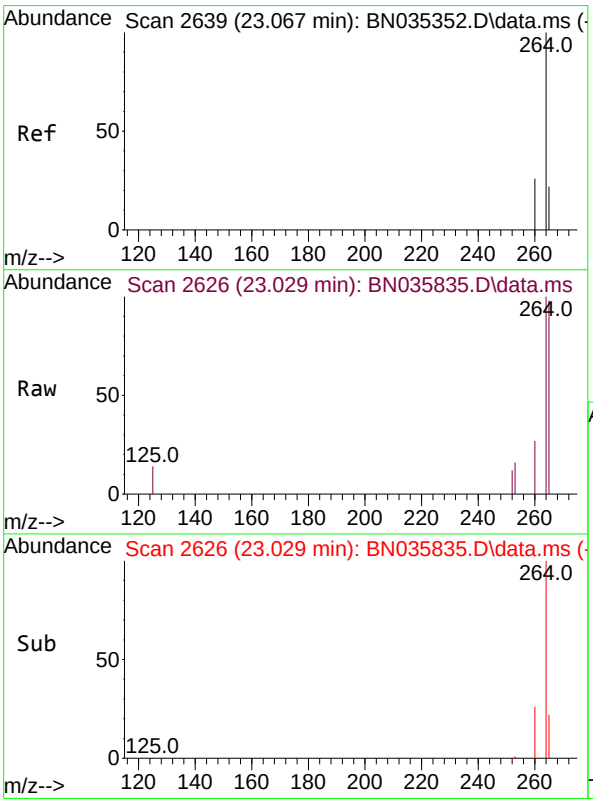
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 28.4 | 22.2 | 33.4 |
| 279 | 3.6 | 2.7 | 4.1 |

**Instrument :**
BNA_N
**ClientSampleId :**
TT119S1-20241219

**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024

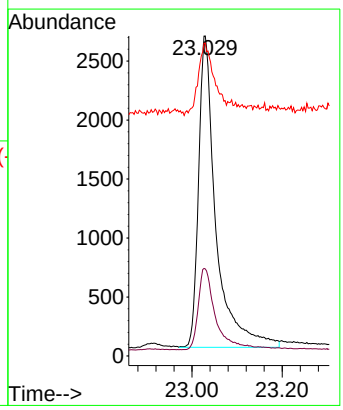



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.029 min Scan# 2626
Delta R.T. -0.012 min
Lab File: BN035835.D
Acq: 25 Dec 2024 00:29

Tgt Ion:264 Resp: 7071

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 27.2 | 21.4 | 32.2 |
| 265 | 97.8 | 40.2 | 60.4# |



Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | AECOM Technical Services, Inc. | Date Collected: | 12/19/24 |
| Project: | NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258 | Date Received: | 12/20/24 |
| Client Sample ID: | TT188S1-20241219 | SDG No.: | P5376 |
| Lab Sample ID: | P5376-19 | Matrix: | Water |
| Analytical Method: | SW8270ESIM | % Solid: | 0 |
| Sample Wt/Vol: | 990 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-SIMGroup1 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BN035848.D | 1 | 12/23/24 13:29 | 12/26/24 11:56 | PB165828 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 123-91-1 | 1,4-Dioxane | 0.17 | J | 0.070 | 0.20 | 0.20 | ug/L |
| **SURROGATES** | | | | | | | |
| 7297-45-2 | 2-Methylnaphthalene-d10 | 0.35 | | 30 - 150 | | 88% | SPK: 0.4 |
| 93951-69-0 | Fluoranthene-d10 | 0.44 | | 30 - 150 | | 109% | SPK: 0.4 |
| 4165-60-0 | Nitrobenzene-d5 | 0.44 | | 55 - 111 | | 111% | SPK: 0.4 |
| 321-60-8 | 2-Fluorobiphenyl | 0.36 | | 53 - 106 | | 91% | SPK: 0.4 |
| 1718-51-0 | Terphenyl-d14 | 0.57 | * | 58 - 132 | | 142% | SPK: 0.4 |
| **INTERNAL STANDARDS** | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 3480 | 7.257 | | | | |
| 1146-65-2 | Naphthalene-d8 | 8200 | 10.009 | | | | |
| 15067-26-2 | Acenaphthene-d10 | 5300 | 13.925 | | | | |
| 1517-22-2 | Phenanthrene-d10 | 11500 | 16.698 | | | | |
| 1719-03-5 | Chrysene-d12 | 9720 | 20.938 | | | | |
| 1520-96-3 | Perylene-d12 | 9430 | 23.024 | | | | |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
Data File : BN035848.D
Acq On : 26 Dec 2024 11:56
Operator : RC/JU
Sample : P5376-19
Misc :
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
TT188S1-20241219

**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

Quant Time: Dec 27 00:40:39 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.257 | 152 | 3480 | 0.400 | ng | -0.01 |
| 7) Naphthalene-d8 | 10.009 | 136 | 8196 | 0.400 | ng | -0.01 |
| 13) Acenaphthene-d10 | 13.925 | 164 | 5304 | 0.400 | ng | -0.01 |
| 19) Phenanthrene-d10 | 16.698 | 188 | 11548 | 0.400 | ng | # 0.00 |
| 29) Chrysene-d12 | 20.938 | 240 | 9719 | 0.400 | ng | #-0.02 |
| 35) Perylene-d12 | 23.024 | 264 | 9432 | 0.400 | ng | #-0.02 |
| System Monitoring Compounds | | | | | | |
| 4) 2-Fluorophenol | 4.925 | 112 | 914 | 0.105 | ng | -0.01 |
| 5) Phenol-d6 | 6.477 | 99 | 498 | 0.048 | ng | -0.01 |
| 8) Nitrobenzene-d5 | 8.397 | 82 | 2218m | 0.443 | ng | -0.01 |
| 11) 2-Methylnaphthalene-d10 | 11.611 | 152 | 4509 | 0.352 | ng | -0.01 |
| 14) 2,4,6-Tribromophenol | 15.443 | 330 | 838 | 0.223 | ng | -0.01 |
| 15) 2-Fluorobiphenyl | 12.534 | 172 | 7269 | 0.363 | ng | -0.01 |
| 27) Fluoranthene-d10 | 18.748 | 212 | 14226 | 0.435 | ng | -0.01 |
| 31) Terphenyl-d14 | 19.375 | 244 | 10878 | 0.567 | ng | -0.01 |
| Target Compounds | | | | | | Qvalue |
| 2) 1,4-Dioxane | 2.975 | 88 | 577 | 0.173 | ng | # 83 |
| 34) Bis(2-ethylhexyl)phtha... | 20.893 | 149 | 751 | 0.056 | ng | # 95 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

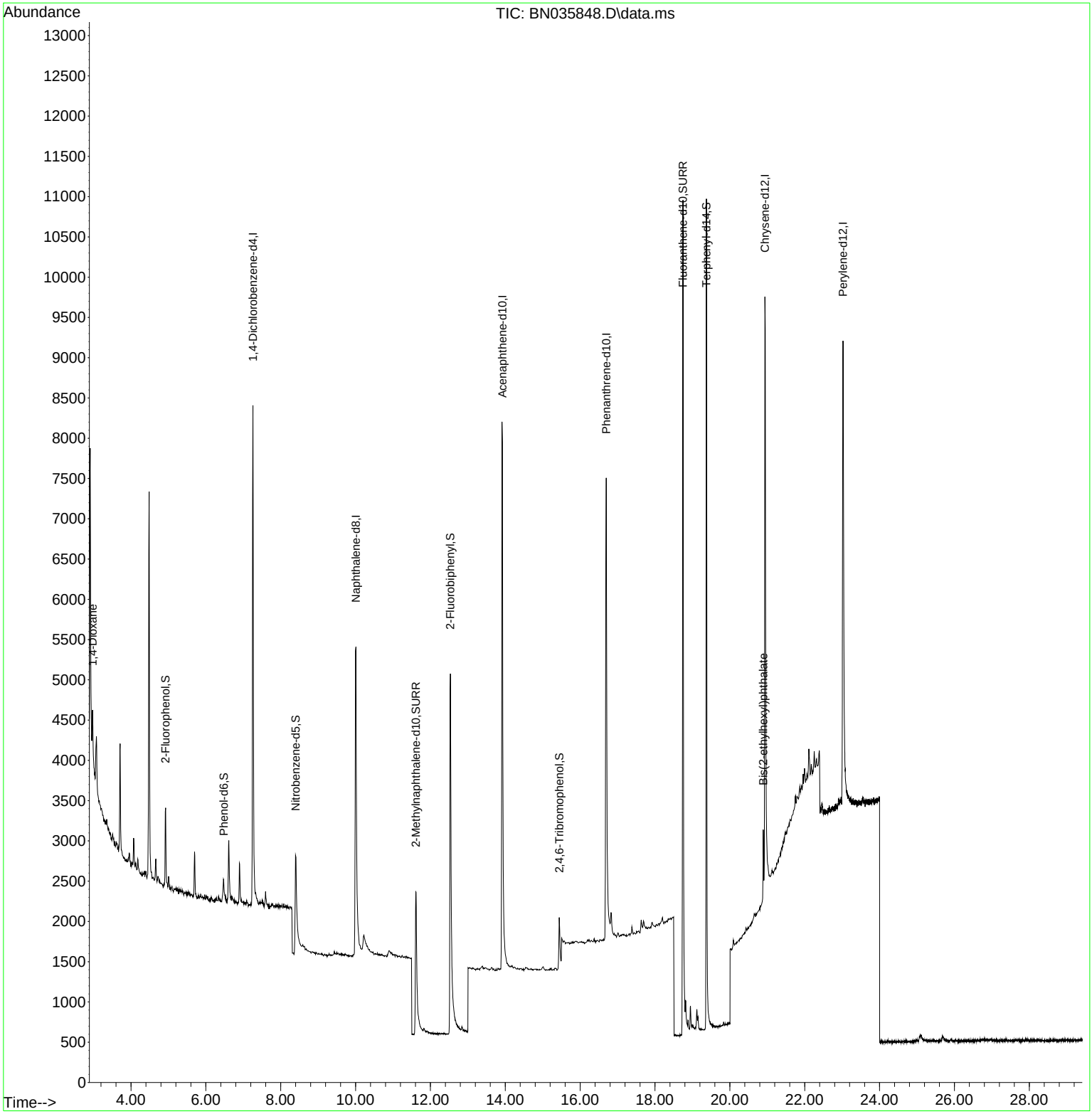
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
Data File : BN035848.D
Acq On : 26 Dec 2024 11:56
Operator : RC/JU
Sample : P5376-19
Misc :
ALS Vial : 5 Sample Multiplier: 1

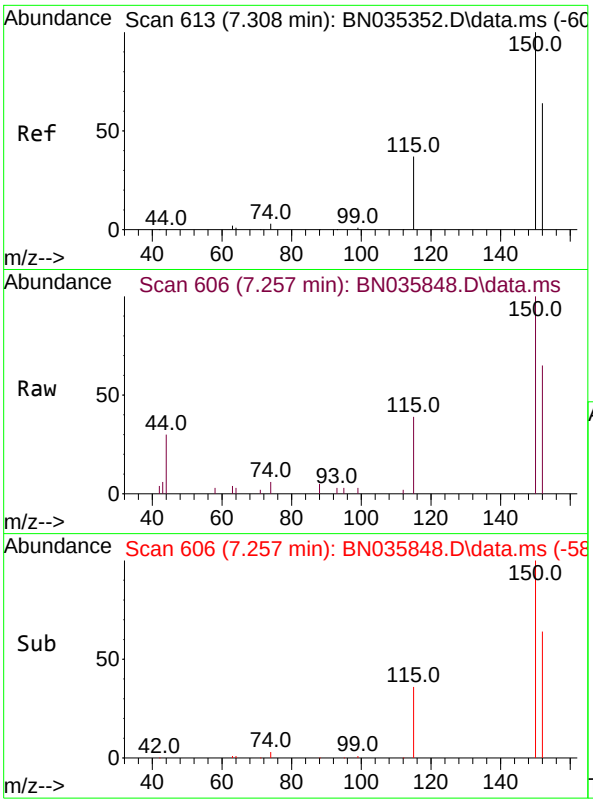
Quant Time: Dec 27 00:40:39 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

**Instrument :**
BNA_N
**ClientSampleId :**
TT188S1-20241219

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

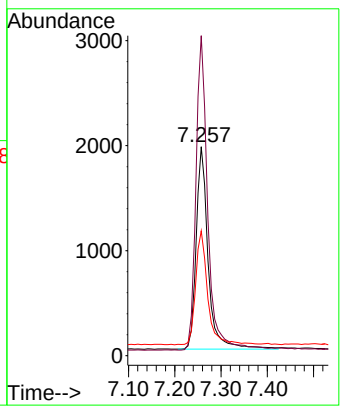





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 6
Delta R.T. -0.015 min
Lab File: BN035848.D
Acq: 26 Dec 2024 11:56

Tgt Ion:152 Resp: 348

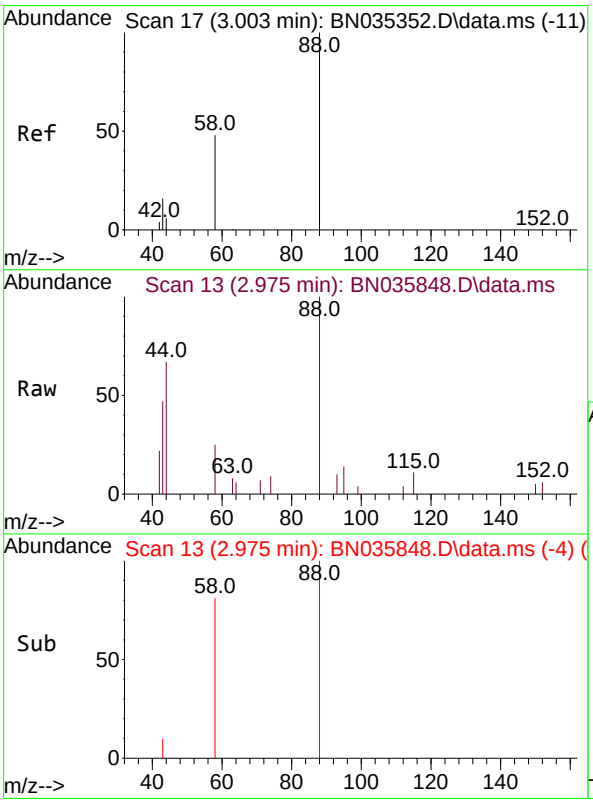
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 153.1 | 124.0 | 186.0 |
| 115 | 59.7 | 49.6 | 74.4 |




**Instrument :**
BNA_N
**ClientSampleId :**
TT188S1-20241219

**Manual Integrations**
**APPROVED**

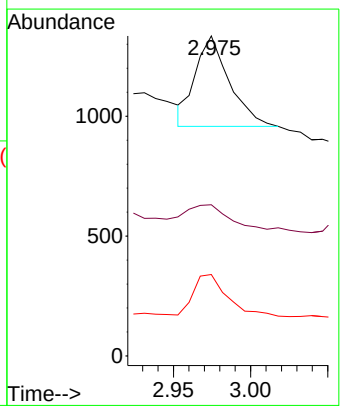
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

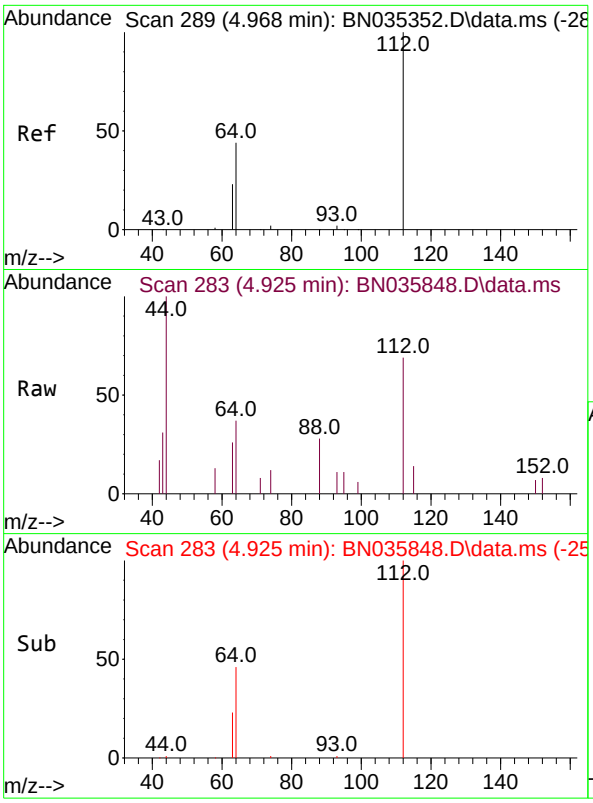



#2
1,4-Dioxane
Concen: 0.173 ng
RT: 2.975 min Scan# 13
Delta R.T. -0.007 min
Lab File: BN035848.D
Acq: 26 Dec 2024 11:56

Tgt Ion: 88 Resp: 577

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 34.5 | 17.2 | 25.8# |
| 58 | 46.1 | 44.5 | 66.7 |






#4
2-Fluorophenol
Concen: 0.105 ng
RT: 4.925 min Scan# 2
Delta R.T. -0.014 min
Lab File: BN035848.D
Acq: 26 Dec 2024 11:56

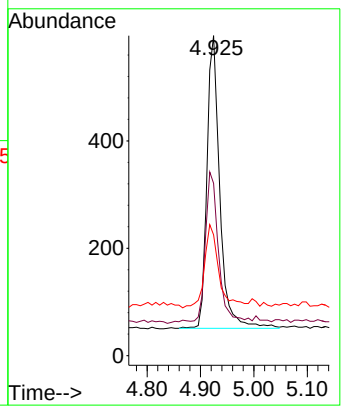
Tgt Ion:112 Resp: 91

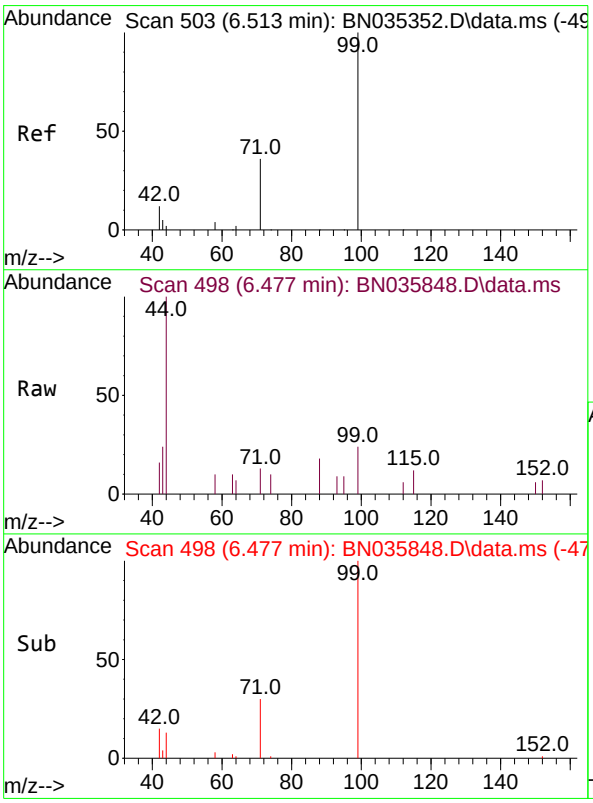
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 50.8 | 39.8 | 59.8 |
| 63 | 31.6 | 21.0 | 31.6# |

**Instrument :**
BNA_N
**ClientSampleId :**
TT188S1-20241219

**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

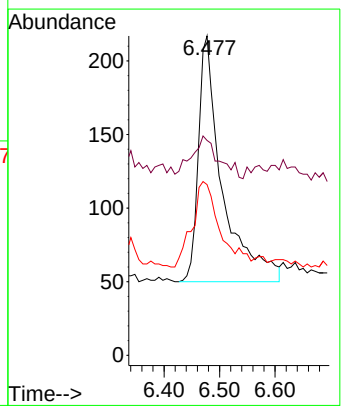


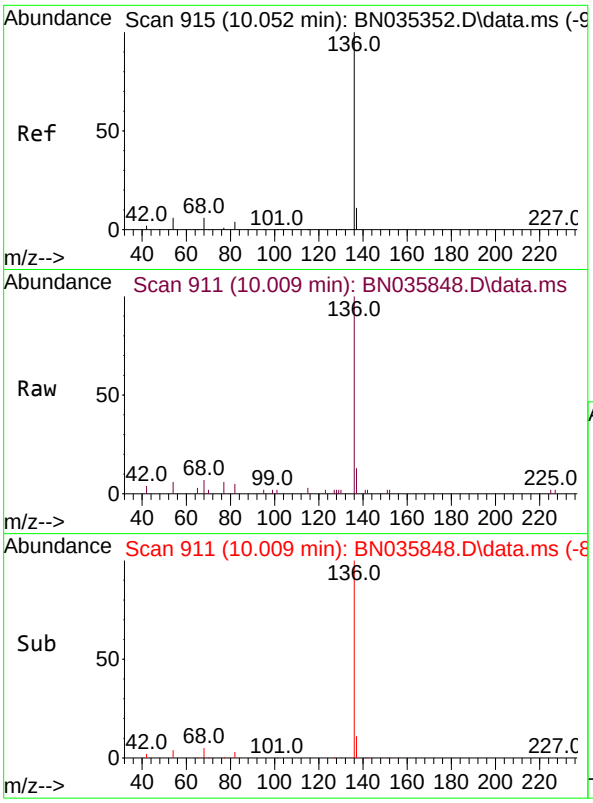




#5
Phenol-d6
Concen: 0.048 ng
RT: 6.477 min Scan# 498
Delta R.T. -0.014 min
Lab File: BN035848.D
Acq: 26 Dec 2024 11:56

Tgt Ion: 99 Resp: 498

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 19.5 | 11.4 | 17.2# |
| 71 | 40.4 | 29.3 | 43.9 |

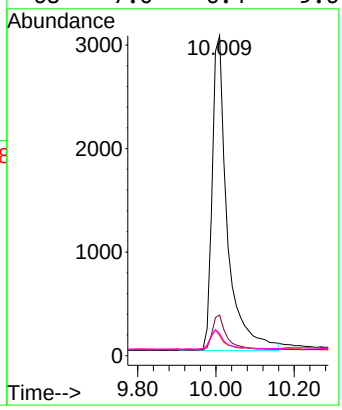





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN035848.D
Acq: 26 Dec 2024 11:56

Tgt Ion:136 Resp: 819

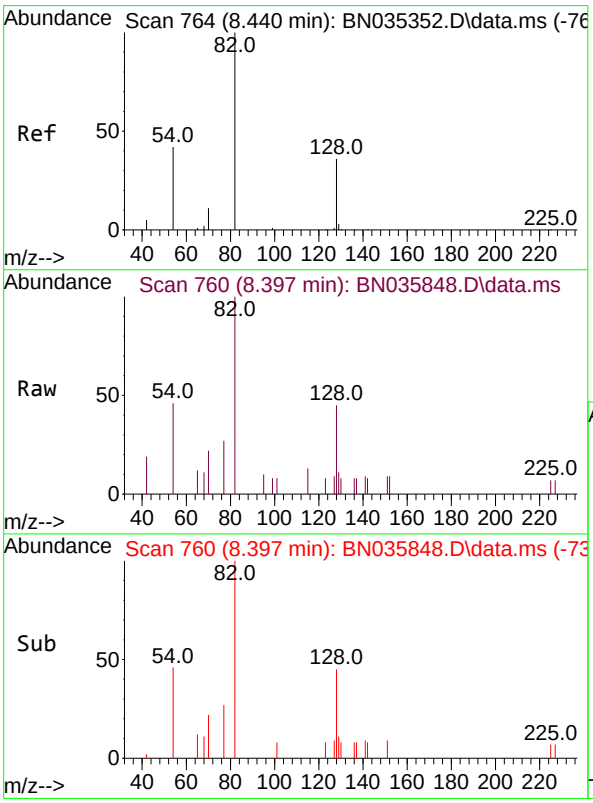
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 12.7 | 10.2 | 15.2 |
| 54 | 6.3 | 6.1 | 9.1 |
| 68 | 7.0 | 6.4 | 9.6 |




**Instrument :**
BNA_N
**ClientSampleId :**
TT188S1-20241219

**Manual Integrations**
**APPROVED**

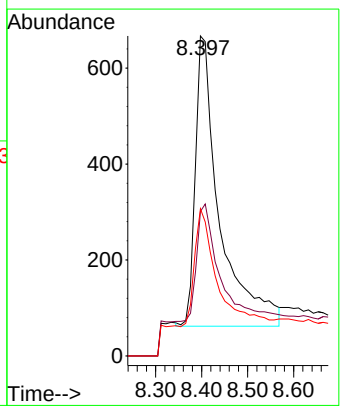
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

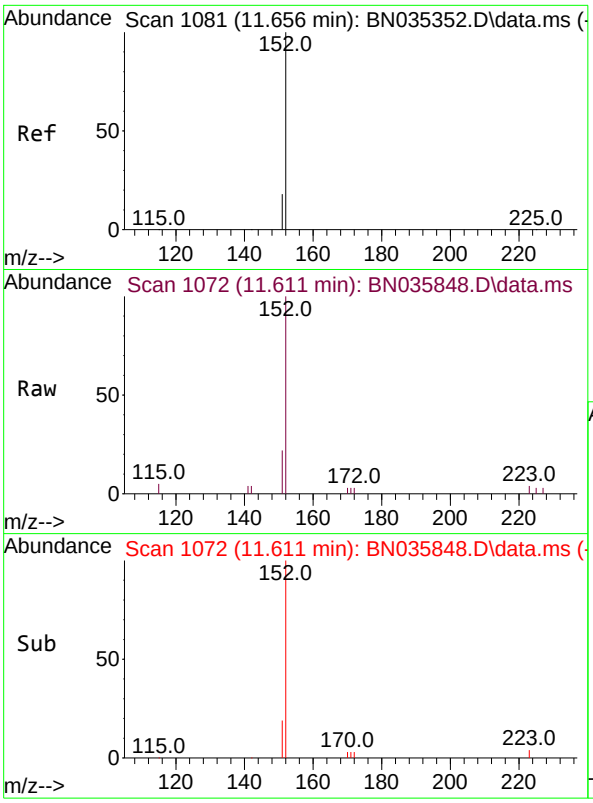



#8
Nitrobenzene-d5
Concen: 0.443 ng m
RT: 8.397 min Scan# 760
Delta R.T. -0.011 min
Lab File: BN035848.D
Acq: 26 Dec 2024 11:56

Tgt Ion: 82 Resp: 2218

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 45.1 | 33.4 | 50.0 |
| 54 | 46.0 | 36.7 | 55.1 |

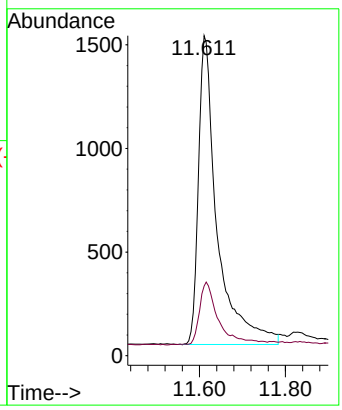





#11
2-Methylnaphthalene-d10
Concen: 0.352 ng
RT: 11.611 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035848.D
Acq: 26 Dec 2024 11:56

Tgt Ion:152 Resp: 450

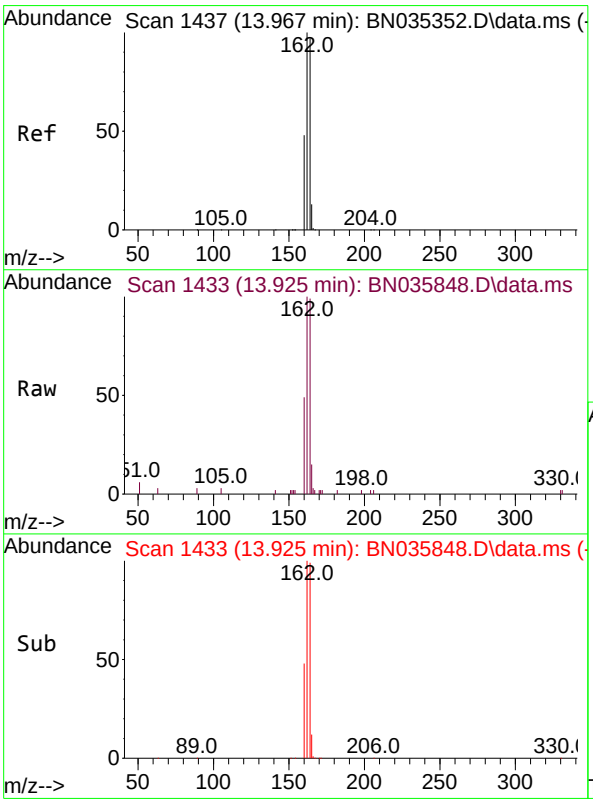
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 21.1 | 16.6 | 25.0 |




**Instrument :**
BNA_N
**ClientSampleId :**
TT188S1-20241219

**Manual Integrations**
**APPROVED**

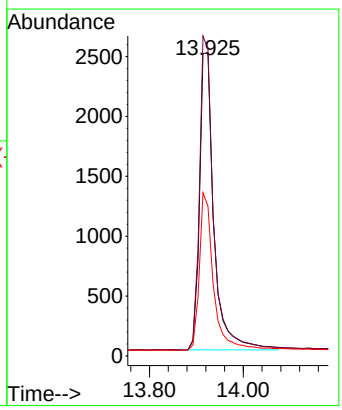
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

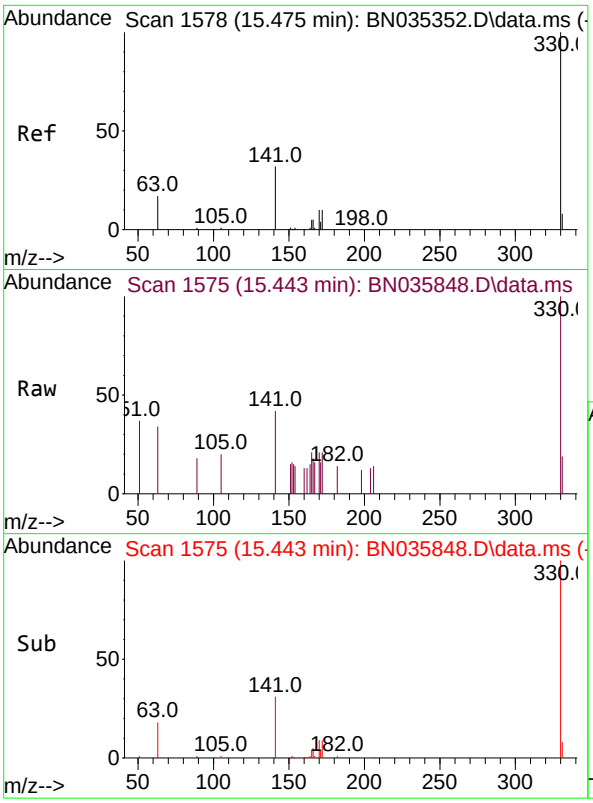



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.925 min Scan# 1433
Delta R.T. -0.011 min
Lab File: BN035848.D
Acq: 26 Dec 2024 11:56

Tgt Ion:164 Resp: 5304

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 101.1 | 82.2 | 123.2 |
| 160 | 49.4 | 40.1 | 60.1 |

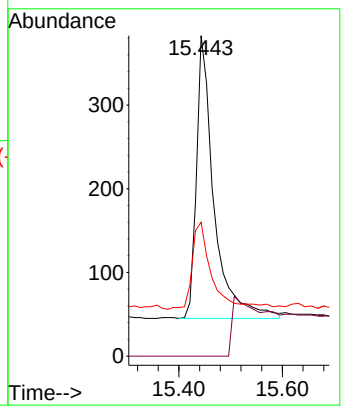





#14
2,4,6-Tribromophenol
Concen: 0.223 ng
RT: 15.443 min Scan# 1
Delta R.T. -0.011 min
Lab File: BN035848.D
Acq: 26 Dec 2024 11:56

Tgt Ion:330 Resp: 83

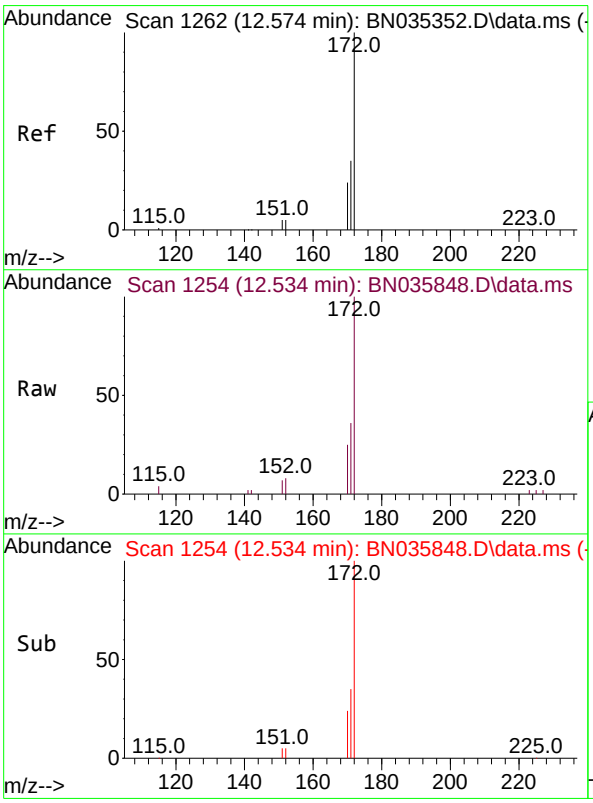
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 0.0 | 0.0 | 0.0 |
| 141 | 34.1 | 26.6 | 40.0 |




**Instrument :**
BNA_N
**ClientSampleId :**
TT188S1-20241219

**Manual Integrations**
**APPROVED**

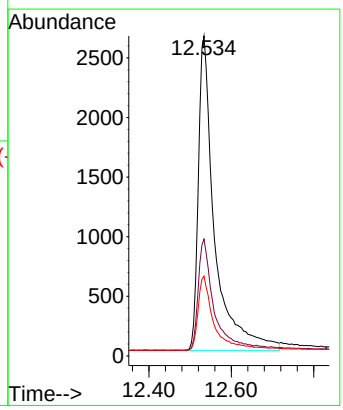
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

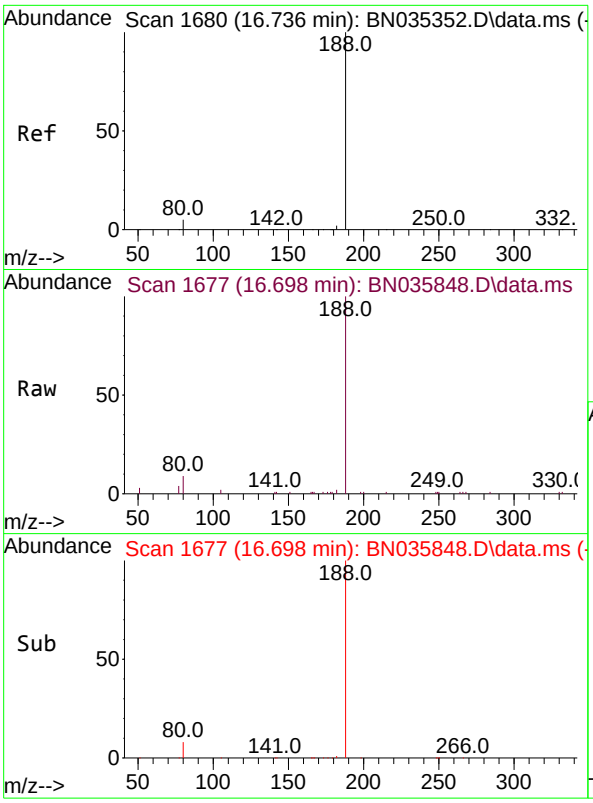



#15
2-Fluorobiphenyl
Concen: 0.363 ng
RT: 12.534 min Scan# 1254
Delta R.T. -0.010 min
Lab File: BN035848.D
Acq: 26 Dec 2024 11:56

Tgt Ion:172 Resp: 7269

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 36.5 | 29.0 | 43.4 |
| 170 | 24.9 | 19.8 | 29.8 |

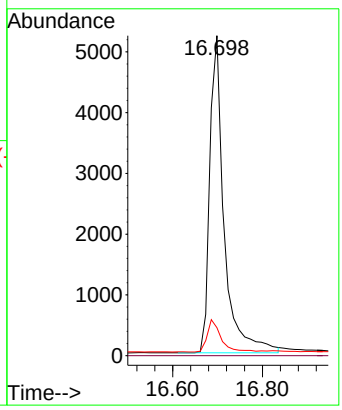





#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN035848.D
Acq: 26 Dec 2024 11:56

Tgt Ion:188 Resp: 1154

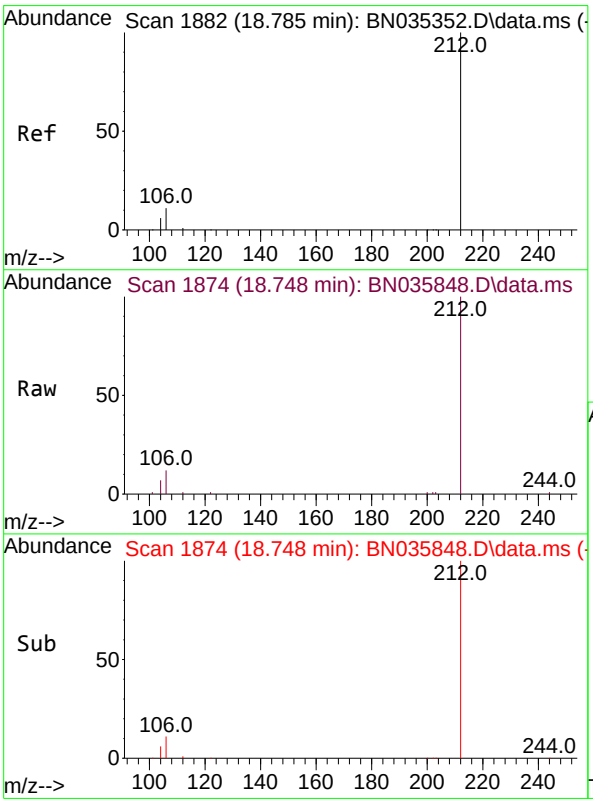
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 8.8 | 4.6 | 6.8 |




**Instrument :**
BNA_N
**ClientSampleId :**
TT188S1-20241219

**Manual Integrations**
**APPROVED**

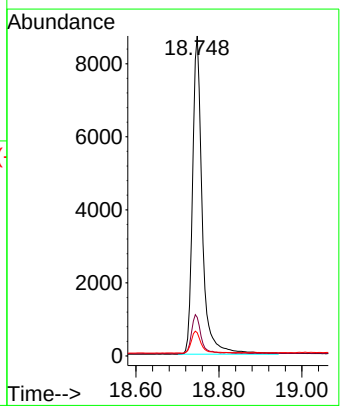
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

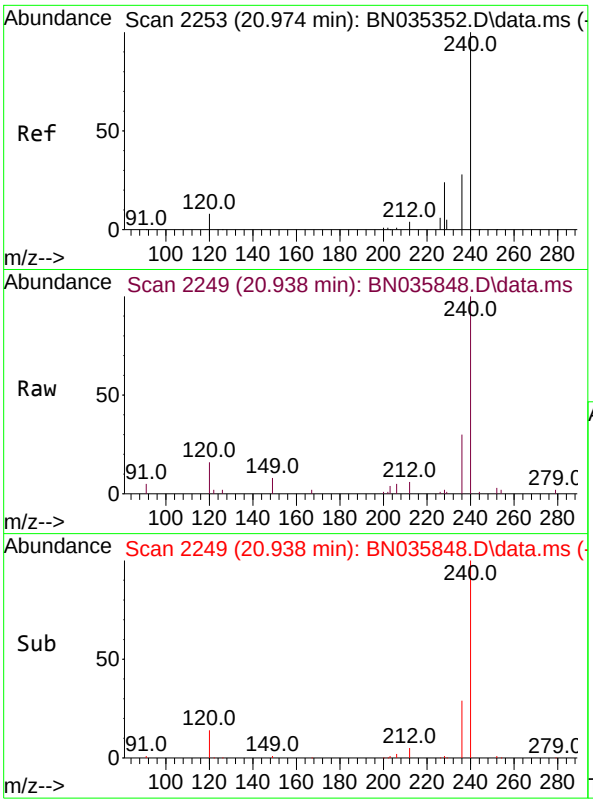



#27
Fluoranthene-d10
Concen: 0.435 ng
RT: 18.748 min Scan# 1874
Delta R.T. -0.014 min
Lab File: BN035848.D
Acq: 26 Dec 2024 11:56

Tgt Ion:212 Resp: 14226

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 12.1 | 9.2 | 13.8 |
| 104 | 7.2 | 5.3 | 7.9 |

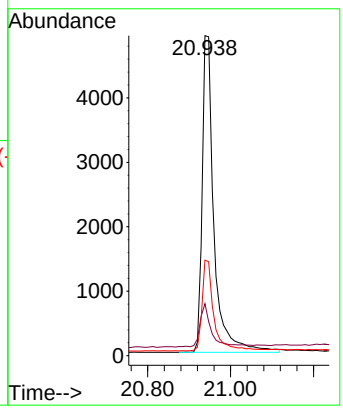





#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.938 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035848.D
Acq: 26 Dec 2024 11:56

Tgt Ion:240 Resp: 971

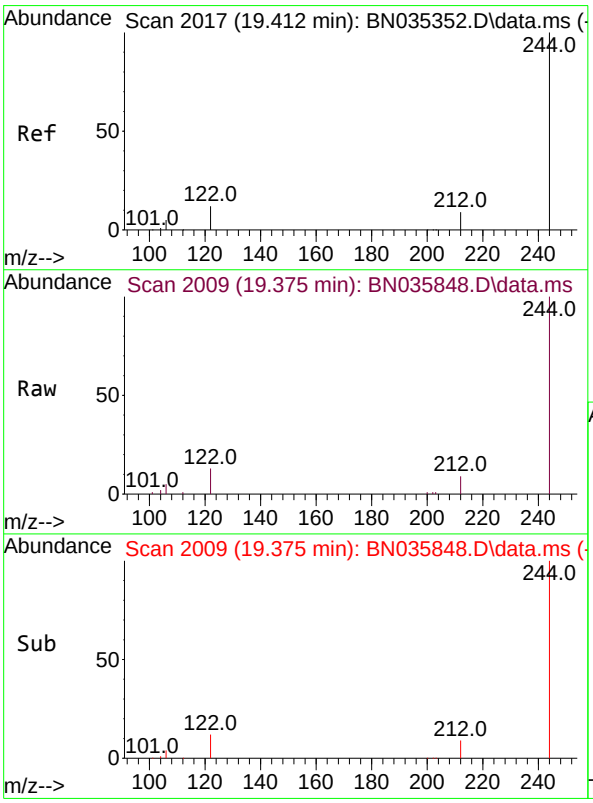
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 16.2 | 7.9 | 11.9 |
| 236 | 29.8 | 22.9 | 34.3 |




**Instrument :**
BNA_N
**ClientSampleId :**
TT188S1-20241219

**Manual Integrations**
**APPROVED**

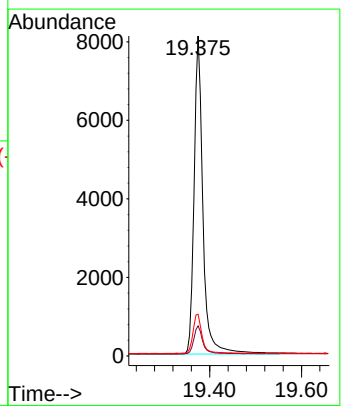
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

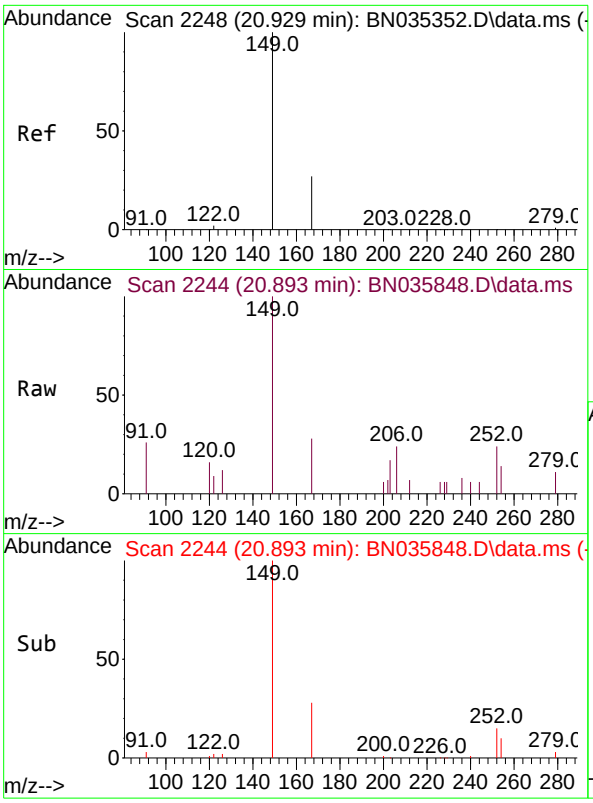



#31
Terphenyl-d14
Concen: 0.567 ng
RT: 19.375 min Scan# 2009
Delta R.T. -0.014 min
Lab File: BN035848.D
Acq: 26 Dec 2024 11:56

Tgt Ion:244 Resp: 10878

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 9.4 | 8.1 | 12.1 |
| 122 | 13.1 | 10.3 | 15.5 |

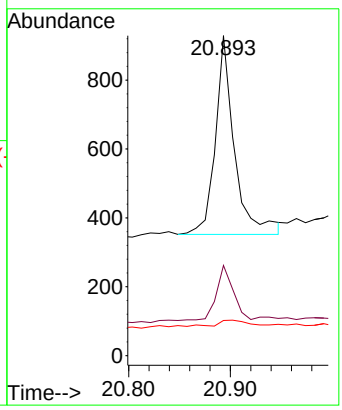





#34
Bis(2-ethylhexyl)phthalate
Concen: 0.056 ng
RT: 20.893 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035848.D
Acq: 26 Dec 2024 11:56

Tgt Ion:149 Resp: 75

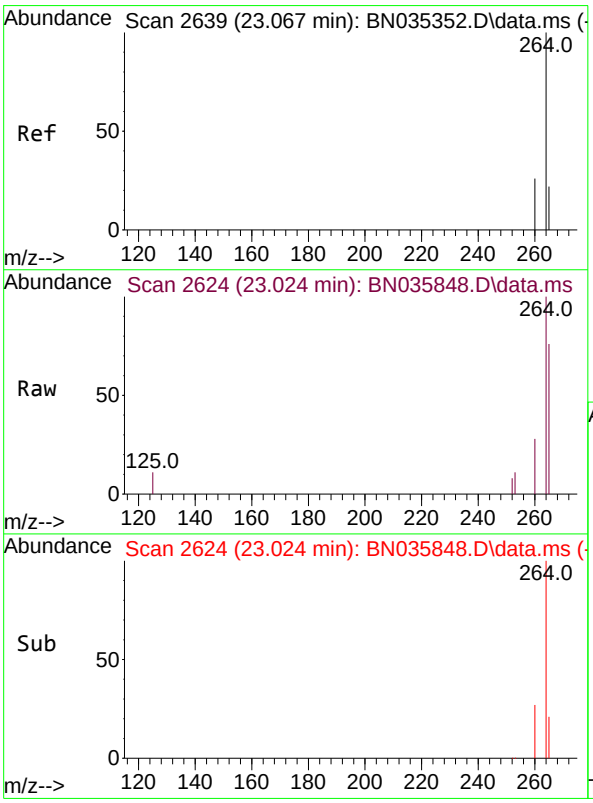
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 25.2 | 22.2 | 33.4 |
| 279 | 6.0 | 2.7 | 4.1# |




**Instrument :**
BNA_N
**ClientSampleId :**
TT188S1-20241219

**Manual Integrations**
**APPROVED**

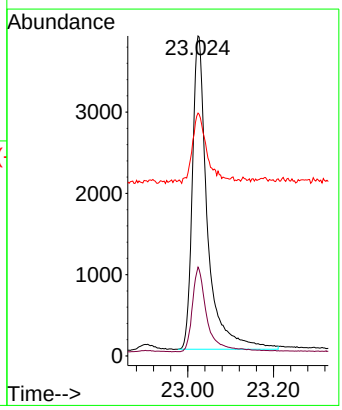
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.024 min Scan# 2624
Delta R.T. -0.018 min
Lab File: BN035848.D
Acq: 26 Dec 2024 11:56

Tgt Ion:264 Resp: 9432

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 27.7 | 21.4 | 32.2 |
| 265 | 75.9 | 40.2 | 60.4# |



Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | AECOM Technical Services, Inc. | Date Collected: | 12/19/24 |
| Project: | NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258 | Date Received: | 12/20/24 |
| Client Sample ID: | FB03-20241219 | SDG No.: | P5376 |
| Lab Sample ID: | P5376-20 | Matrix: | Water |
| Analytical Method: | SW8270ESIM | % Solid: | 0 |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-SIMGroup1 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BN035837.D | 1 | 12/23/24 13:29 | 12/25/24 01:40 | PB165828 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 123-91-1 | 1,4-Dioxane | 0.20 | U | 0.070 | 0.20 | 0.20 | ug/L |
| **SURROGATES** | | | | | | | |
| 7297-45-2 | 2-Methylnaphthalene-d10 | 0.36 | | 30 - 150 | | 90% | SPK: 0.4 |
| 93951-69-0 | Fluoranthene-d10 | 0.42 | | 30 - 150 | | 104% | SPK: 0.4 |
| 4165-60-0 | Nitrobenzene-d5 | 0.41 | | 55 - 111 | | 103% | SPK: 0.4 |
| 321-60-8 | 2-Fluorobiphenyl | 0.38 | | 53 - 106 | | 95% | SPK: 0.4 |
| 1718-51-0 | Terphenyl-d14 | 0.57 | * | 58 - 132 | | 143% | SPK: 0.4 |
| **INTERNAL STANDARDS** | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 2950 | 7.257 | | | | |
| 1146-65-2 | Naphthalene-d8 | 6790 | 10.009 | | | | |
| 15067-26-2 | Acenaphthene-d10 | 4280 | 13.924 | | | | |
| 1517-22-2 | Phenanthrene-d10 | 8230 | 16.698 | | | | |
| 1719-03-5 | Chrysene-d12 | 6630 | 20.947 | | | | |
| 1520-96-3 | Perylene-d12 | 5860 | 23.029 | | | | |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035837.D
Acq On : 25 Dec 2024 01:40
Operator : RC/JU
Sample : P5376-20
Misc :
ALS Vial : 29 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
FB03-20241219

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024

Quant Time: Dec 25 02:35:36 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.257 | 152 | 2951 | 0.400 | ng | -0.01 |
| 7) Naphthalene-d8 | 10.009 | 136 | 6785 | 0.400 | ng | -0.01 |
| 13) Acenaphthene-d10 | 13.924 | 164 | 4279 | 0.400 | ng | -0.01 |
| 19) Phenanthrene-d10 | 16.698 | 188 | 8231 | 0.400 | ng | # 0.00 |
| 29) Chrysene-d12 | 20.947 | 240 | 6628 | 0.400 | ng | # 0.00 |
| 35) Perylene-d12 | 23.029 | 264 | 5858 | 0.400 | ng | #-0.01 |
| System Monitoring Compounds | | | | | | |
| 4) 2-Fluorophenol | 4.924 | 112 | 738 | 0.100 | ng | -0.01 |
| 5) Phenol-d6 | 6.492 | 99 | 341 | 0.038 | ng | 0.00 |
| 8) Nitrobenzene-d5 | 8.408 | 82 | 1708m | 0.412 | ng | 0.00 |
| 11) 2-Methylnaphthalene-d10 | 11.610 | 152 | 3847 | 0.362 | ng | -0.01 |
| 14) 2,4,6-Tribromophenol | 15.453 | 330 | 557 | 0.183 | ng | 0.00 |
| 15) 2-Fluorobiphenyl | 12.538 | 172 | 6166 | 0.381 | ng | 0.00 |
| 27) Fluoranthene-d10 | 18.752 | 212 | 9755 | 0.418 | ng | 0.00 |
| 31) Terphenyl-d14 | 19.379 | 244 | 7505 | 0.574 | ng | 0.00 |
| Target Compounds | | | | | | Qvalue |
| 34) Bis(2-ethylhexyl)phtha... | 20.893 | 149 | 1349 | 0.147 | ng | # 100 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

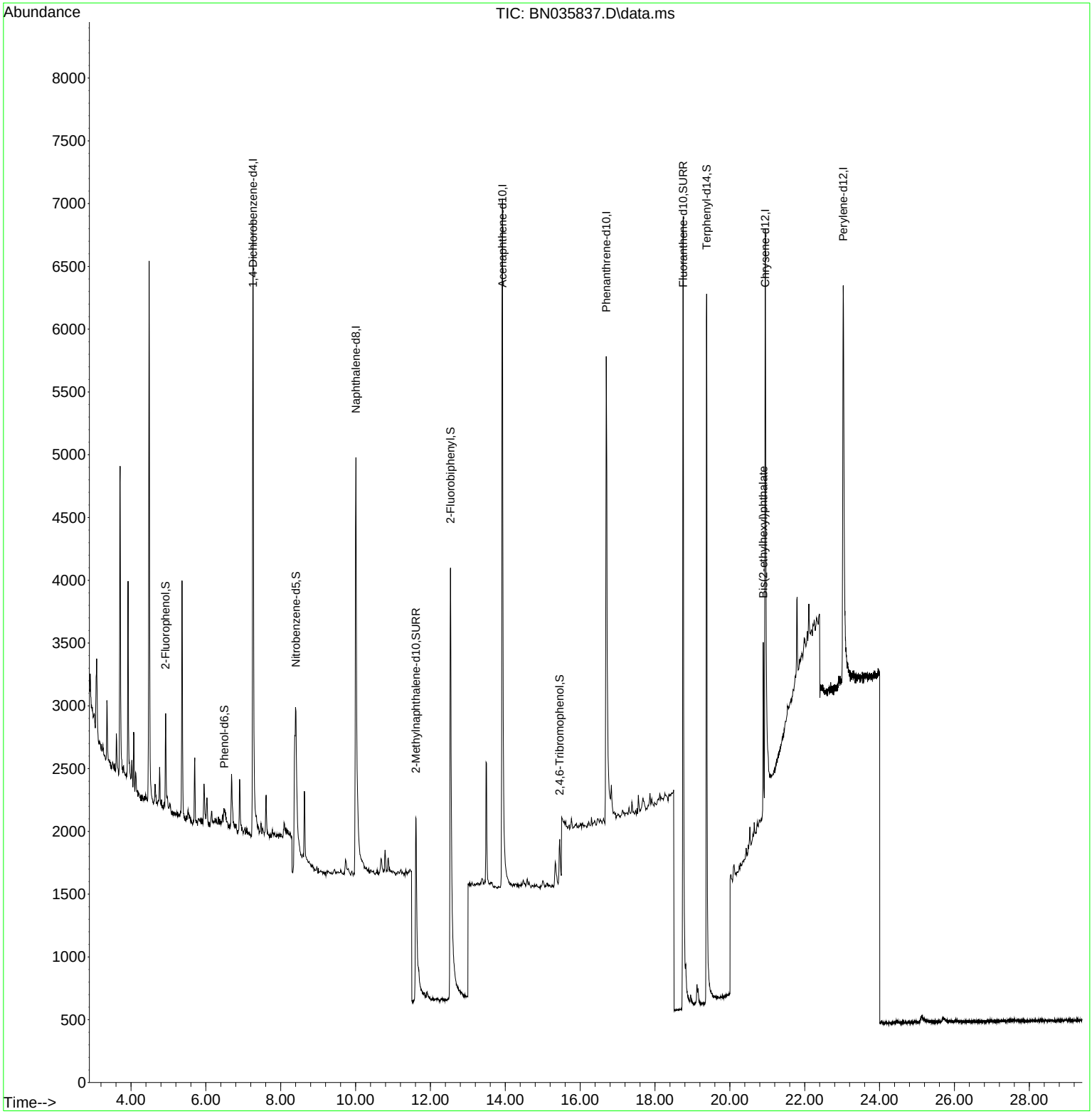
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035837.D
Acq On : 25 Dec 2024 01:40
Operator : RC/JU
Sample : P5376-20
Misc :
ALS Vial : 29 Sample Multiplier: 1

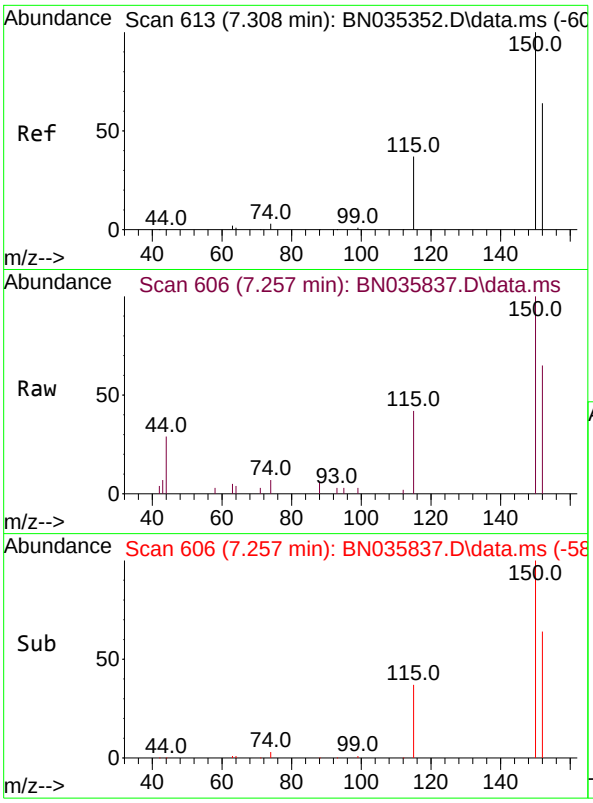
Quant Time: Dec 25 02:35:36 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

**Instrument :**
BNA_N
**ClientSampleId :**
FB03-20241219

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024

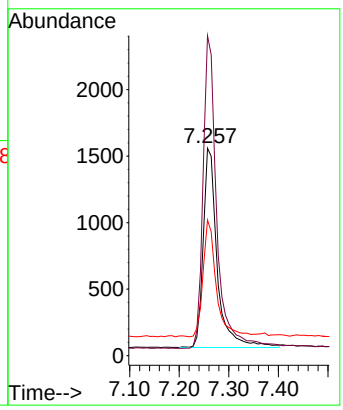





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 6
Delta R.T. -0.015 min
Lab File: BN035837.D
Acq: 25 Dec 2024 01:40

Tgt Ion:152 Resp: 295

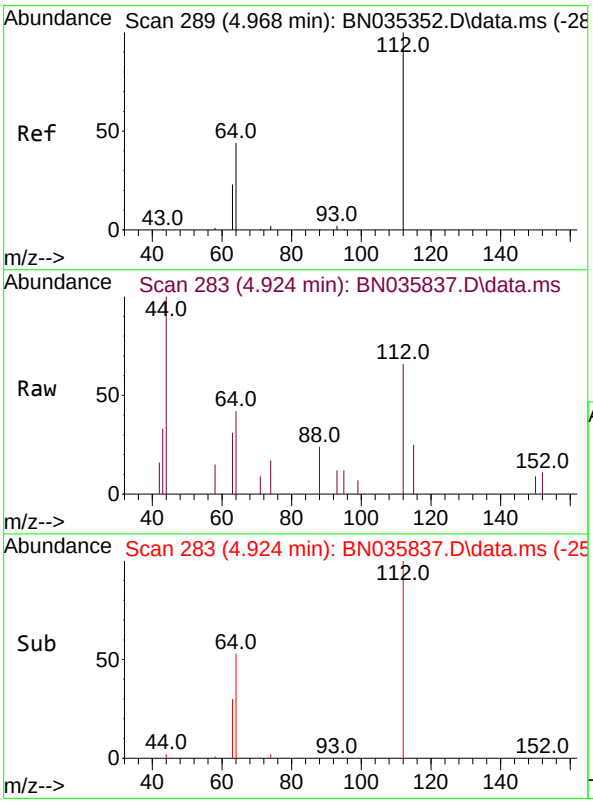
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 154.2 | 124.0 | 186.0 |
| 115 | 65.4 | 49.6 | 74.4 |




**Instrument :**
BNA_N
**ClientSampleId :**
FB03-20241219

**Manual Integrations**
**APPROVED**

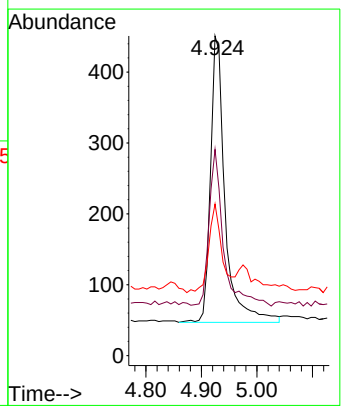
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024

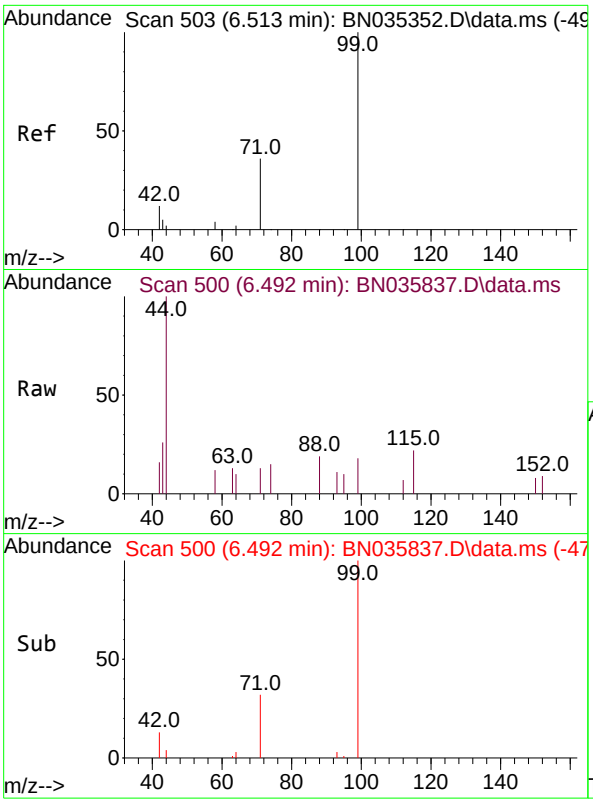



#4
2-Fluorophenol
Concen: 0.100 ng
RT: 4.924 min Scan# 283
Delta R.T. -0.015 min
Lab File: BN035837.D
Acq: 25 Dec 2024 01:40

Tgt Ion:112 Resp: 738

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 53.7 | 39.8 | 59.8 |
| 63 | 27.2 | 21.0 | 31.6 |

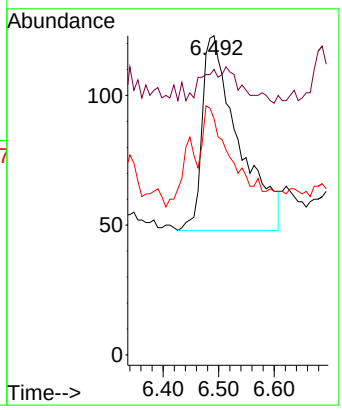





#5
Phenol-d6
Concen: 0.038 ng
RT: 6.492 min Scan# 5(
Delta R.T. -0.000 min
Lab File: BN035837.D
Acq: 25 Dec 2024 01:40

Tgt Ion: 99 Resp: 34

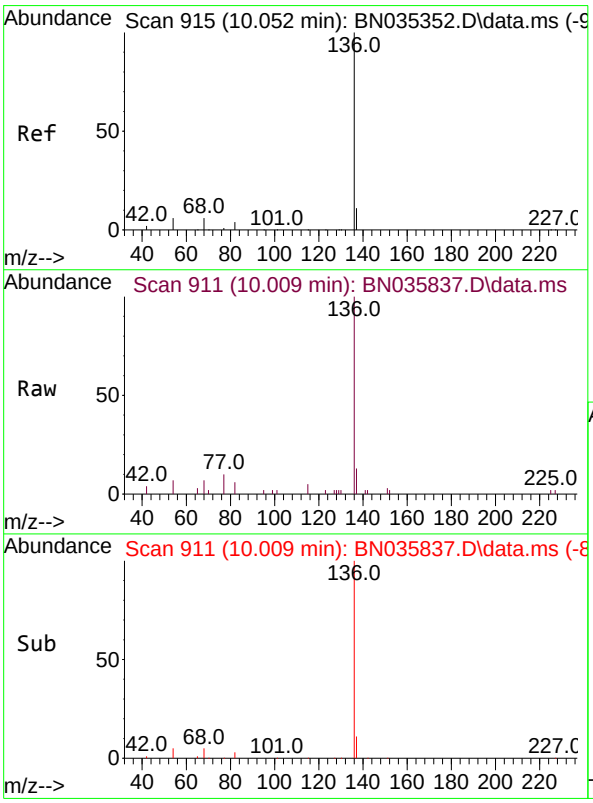
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 6.7 | 11.4 | 17.2 |
| 71 | 30.5 | 29.3 | 43.9 |




**Instrument :**
BNA_N
**ClientSampleId :**
FB03-20241219

**Manual Integrations**
**APPROVED**

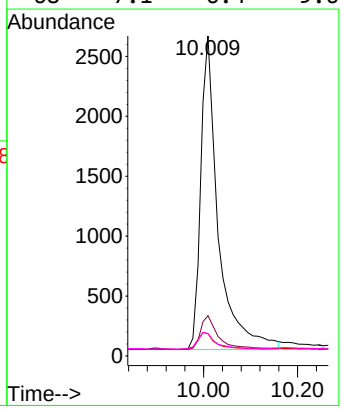
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024

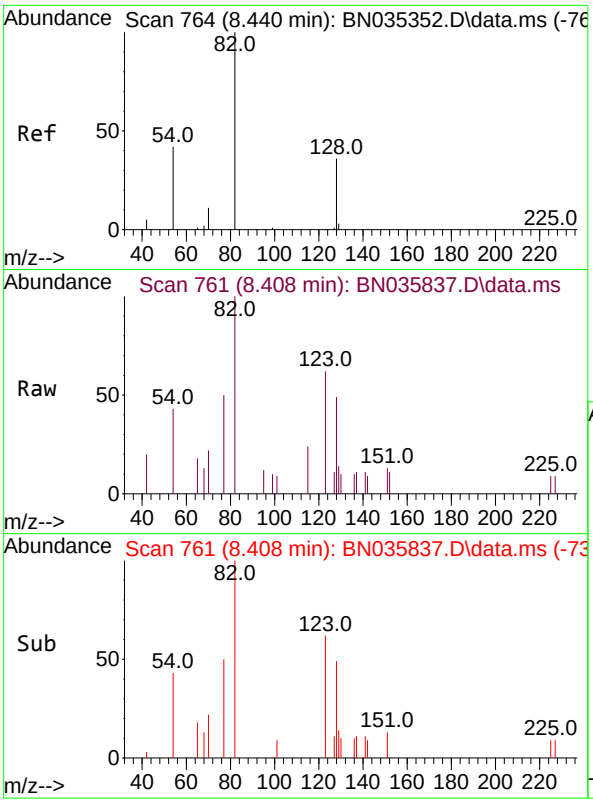



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 911
Delta R.T. -0.011 min
Lab File: BN035837.D
Acq: 25 Dec 2024 01:40

Tgt Ion:136 Resp: 6785

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 12.6 | 10.2 | 15.2 |
| 54 | 6.9 | 6.1 | 9.1 |
| 68 | 7.1 | 6.4 | 9.6 |

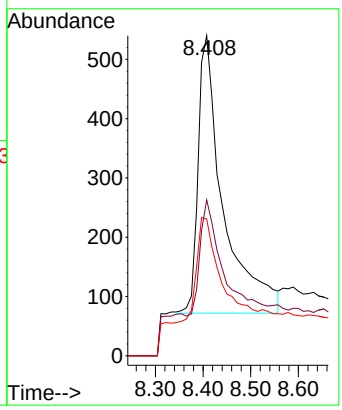





#8
Nitrobenzene-d5
Concen: 0.412 ng m
RT: 8.408 min Scan# 7
Delta R.T. -0.000 min
Lab File: BN035837.D
Acq: 25 Dec 2024 01:40

Tgt Ion: 82 Resp: 170

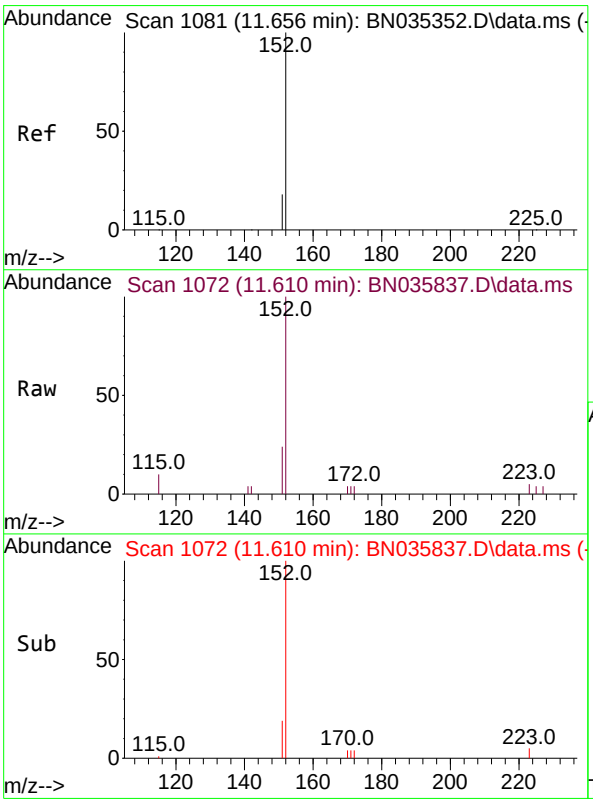
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 48.7 | 33.4 | 50.0 |
| 54 | 42.8 | 36.7 | 55.1 |




**Instrument :**
BNA_N
**ClientSampleId :**
FB03-20241219

**Manual Integrations**
**APPROVED**

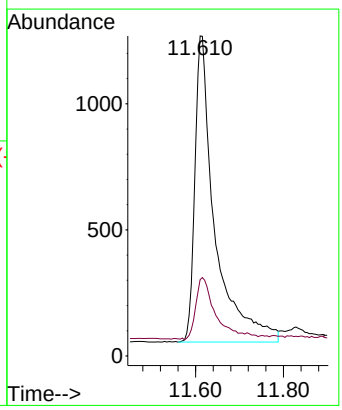
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024

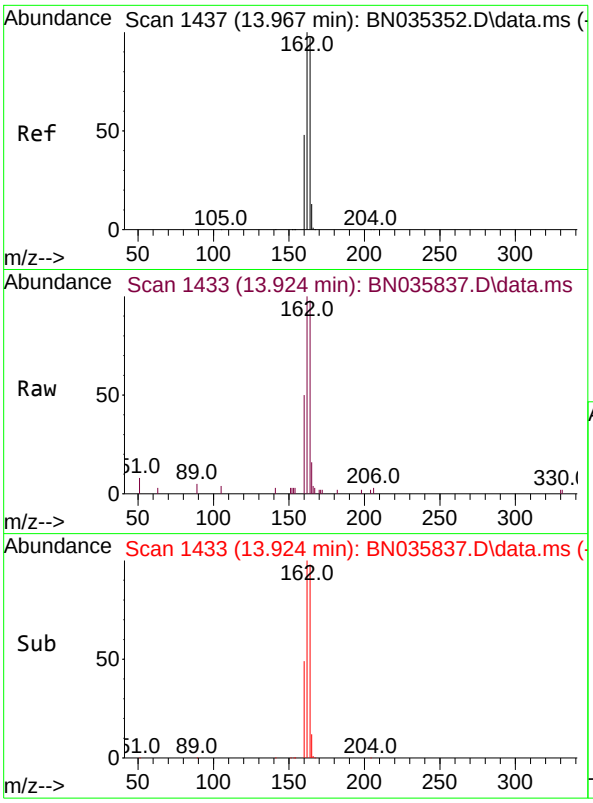



#11
2-Methylnaphthalene-d10
Concen: 0.362 ng
RT: 11.610 min Scan# 1072
Delta R.T. -0.010 min
Lab File: BN035837.D
Acq: 25 Dec 2024 01:40

Tgt Ion:152 Resp: 3847

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.9 | 16.6 | 25.0 |

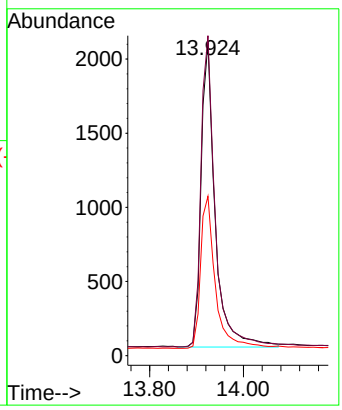





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.924 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035837.D
Acq: 25 Dec 2024 01:40

Tgt Ion:164 Resp: 427

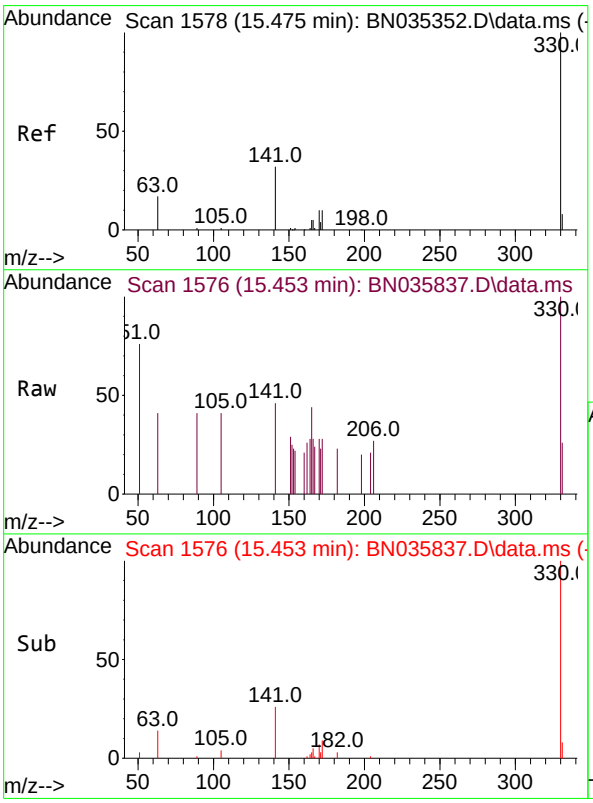
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 102.1 | 82.2 | 123.2 |
| 160 | 50.9 | 40.1 | 60.1 |




**Instrument :**
BNA_N
**ClientSampleId :**
FB03-20241219

**Manual Integrations**
**APPROVED**

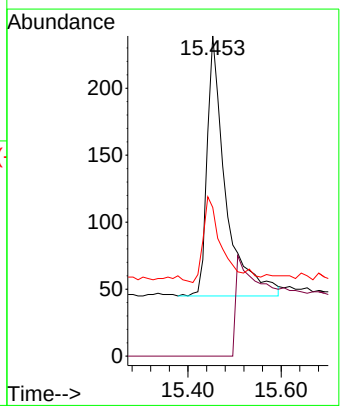
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024

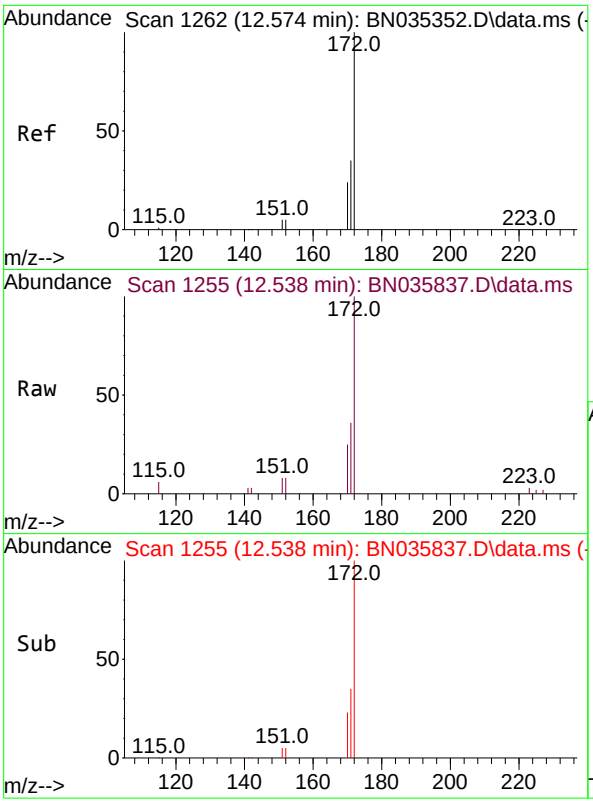



#14
2,4,6-Tribromophenol
Concen: 0.183 ng
RT: 15.453 min Scan# 1576
Delta R.T. -0.000 min
Lab File: BN035837.D
Acq: 25 Dec 2024 01:40

Tgt Ion:330 Resp: 557

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 0.0 | 0.0 | 0.0 |
| 141 | 33.9 | 26.6 | 40.0 |

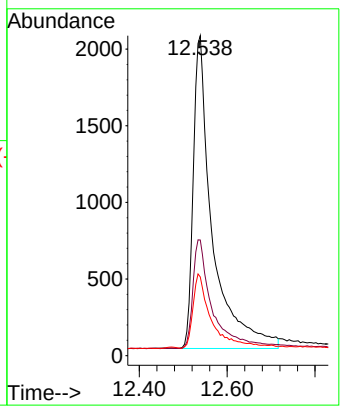





#15
2-Fluorobiphenyl
Concen: 0.381 ng
RT: 12.538 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN035837.D
Acq: 25 Dec 2024 01:40

Tgt Ion:172 Resp: 616

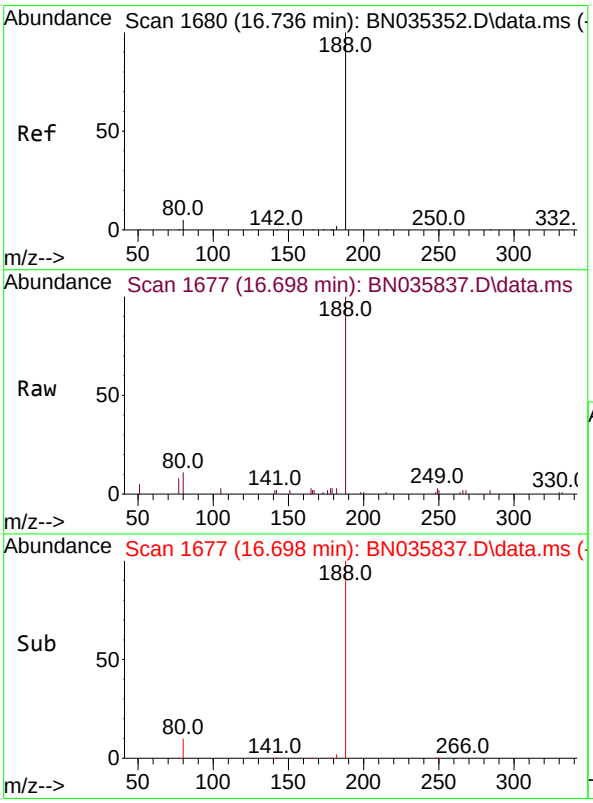
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 36.2 | 29.0 | 43.4 |
| 170 | 24.6 | 19.8 | 29.8 |




**Instrument :**
BNA_N
**ClientSampleId :**
FB03-20241219

**Manual Integrations**
**APPROVED**

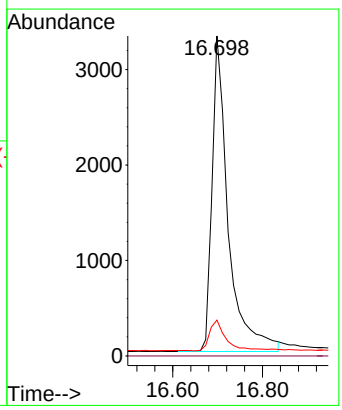
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024

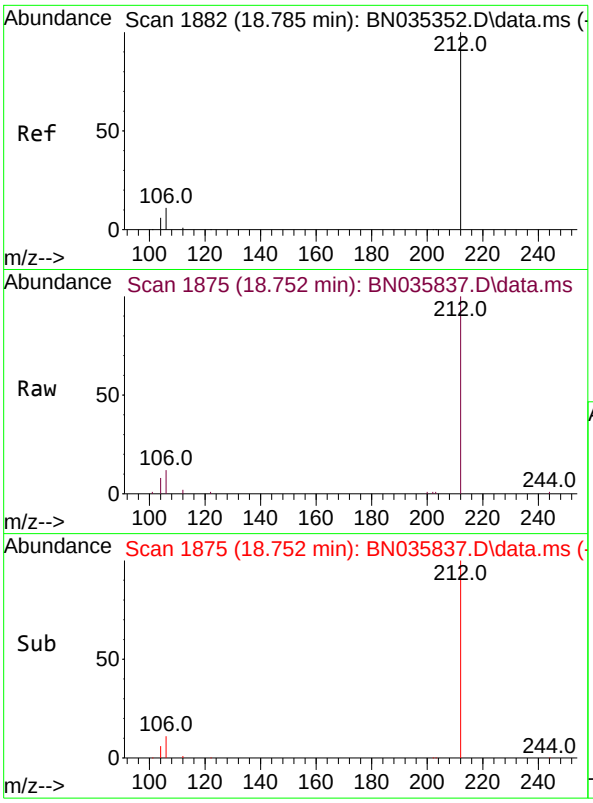



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1677
Delta R.T. -0.000 min
Lab File: BN035837.D
Acq: 25 Dec 2024 01:40

Tgt Ion:188 Resp: 8231

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 11.2 | 4.6 | 6.8# |

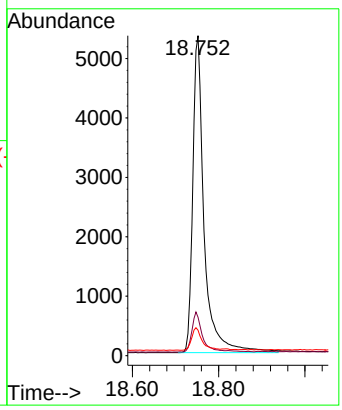





#27
Fluoranthene-d10
Concen: 0.418 ng
RT: 18.752 min Scan# 1
Delta R.T. -0.009 min
Lab File: BN035837.D
Acq: 25 Dec 2024 01:40

Tgt Ion:212 Resp: 975

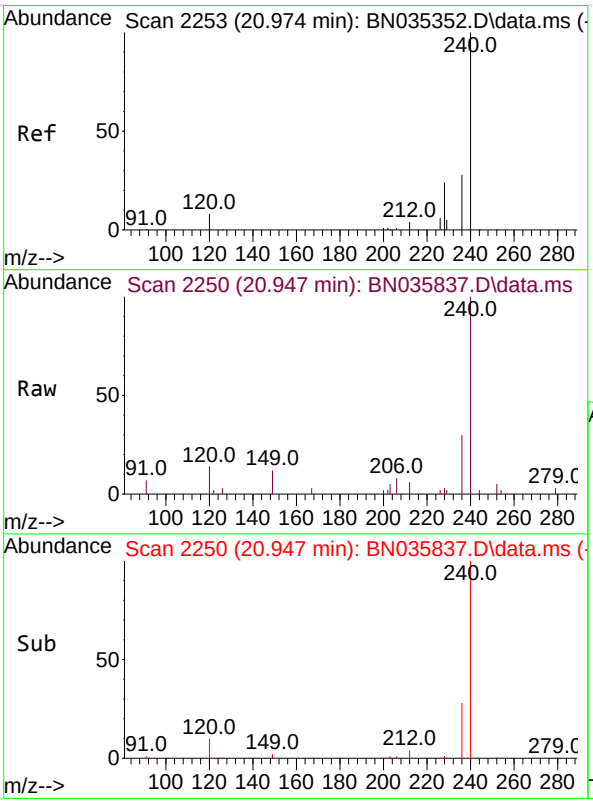
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 12.2 | 9.2 | 13.8 |
| 104 | 6.6 | 5.3 | 7.9 |




**Instrument :**
BNA_N
**ClientSampleId :**
FB03-20241219

**Manual Integrations**
**APPROVED**

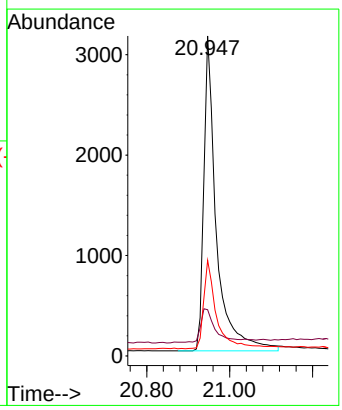
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024

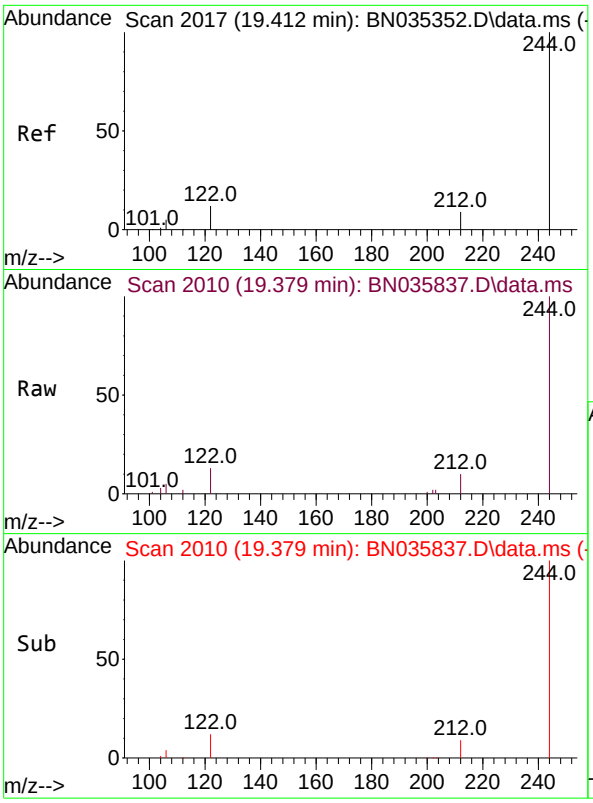



#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2250
Delta R.T. -0.009 min
Lab File: BN035837.D
Acq: 25 Dec 2024 01:40

Tgt Ion:240 Resp: 6628

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 14.4 | 7.9 | 11.9# |
| 236 | 29.9 | 22.9 | 34.3 |

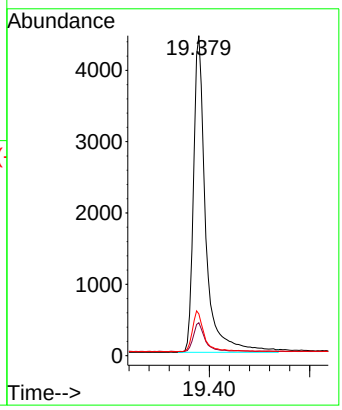





#31
Terphenyl-d14
Concen: 0.574 ng
RT: 19.379 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035837.D
Acq: 25 Dec 2024 01:40

Tgt Ion:244 Resp: 750

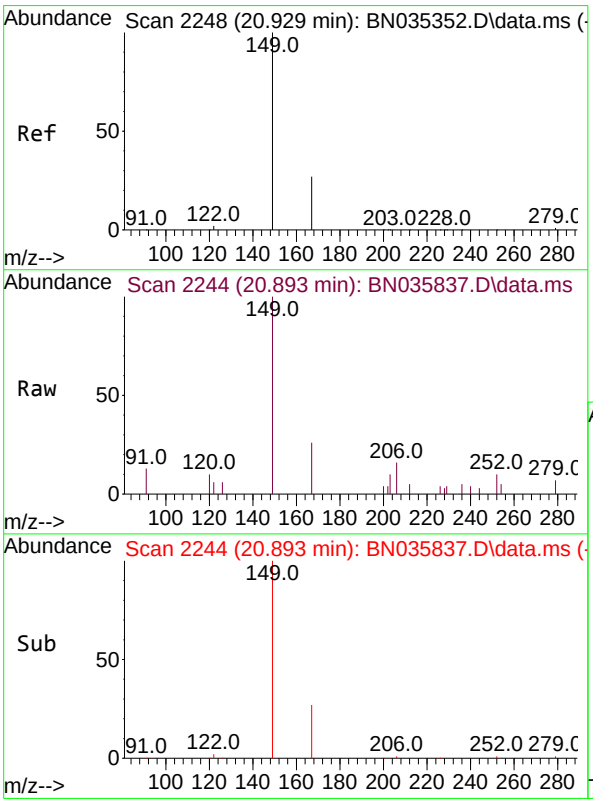
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 10.3 | 8.1 | 12.1 |
| 122 | 13.1 | 10.3 | 15.5 |




**Instrument :**
BNA_N
**ClientSampleId :**
FB03-20241219

**Manual Integrations**
**APPROVED**

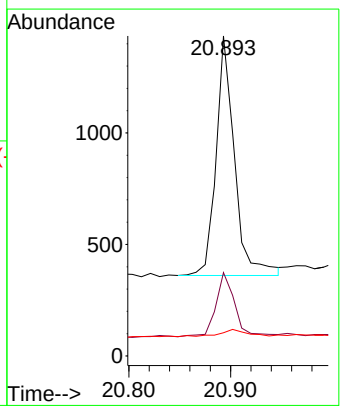
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024

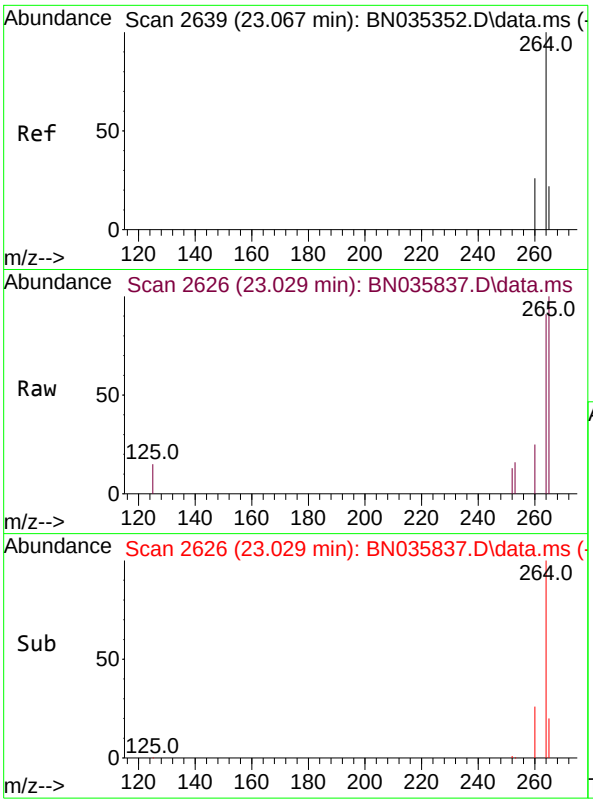



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.147 ng
RT: 20.893 min Scan# 2244
Delta R.T. -0.018 min
Lab File: BN035837.D
Acq: 25 Dec 2024 01:40

Tgt Ion:149 Resp: 1349

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 27.9 | 22.2 | 33.4 |
| 279 | 4.4 | 2.7 | 4.1# |

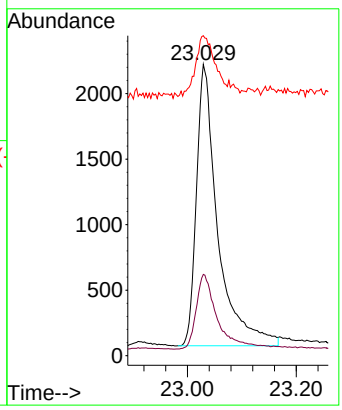





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.029 min Scan# 2
Delta R.T. -0.012 min
Lab File: BN035837.D
Acq: 25 Dec 2024 01:40

Tgt Ion:264 Resp: 585

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 27.9 | 21.4 | 32.2 |
| 265 | 109.9 | 40.2 | 60.4 |




**Instrument :**
BNA_N
**ClientSampleId :**
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**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024

# CALIBRATION SUMMARY

Response Factor Report BNA_N

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
Method File : 8270-SIM-BN112724.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Nov 27 23:03:24 2024
Response Via : Initial Calibration

Calibration Files
0.1 =BN035350.D 0.2 =BN035351.D 0.4 =BN035352.D 0.8 =BN035353.D 1.6 =BN035354.D 3.2 =BN035355.D 5.0 =BN035356.D

| | | Compound | 0.1 | 0.2 | 0.4 | 0.8 | 1.6 | 3.2 | 5.0 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1) | I | 1,4-Dichlorobenzen... | ----------ISTD---------- | | | | | | | | |
| 2) | | 1,4-Dioxane | 0.406 | 0.417 | 0.376 | 0.380 | 0.392 | 0.357 | 0.348 | 0.382 | 6.52 |
| 3) | | n-Nitrosodimet... | 0.334 | 0.302 | 0.326 | 0.315 | 0.332 | 0.310 | 0.309 | 0.319 | 3.92 |
| 4) | S | 2-Fluorophenol | 1.025 | 1.112 | 1.018 | 0.958 | 0.998 | 0.954 | 0.942 | 1.001 | 5.88 |
| 5) | S | Phenol-d6 | 1.227 | 1.186 | 1.193 | 1.143 | 1.235 | 1.215 | 1.229 | 1.204 | 2.69 |
| 6) | | bis(2-Chloroet... | 1.035 | 1.021 | 0.992 | 0.993 | 1.051 | 0.997 | 0.991 | 1.012 | 2.39 |
| 7) | I | Naphthalene-d8 | ----------ISTD---------- | | | | | | | | |
| 8) | S | Nitrobenzene-d5 | 0.227 | 0.232 | 0.235 | 0.248 | 0.257 | 0.251 | 0.261 | 0.244 | 5.31 |
| 9) | | Naphthalene | 1.062 | 1.029 | 1.047 | 1.032 | 1.096 | 1.049 | 1.070 | 1.055 | 2.22 |
| 10) | | Hexachlorobuta... | 0.245 | 0.242 | 0.247 | 0.241 | 0.255 | 0.236 | 0.238 | 0.243 | 2.60 |
| 11) | SURR | 2-Methylnaphth... | 0.591 | 0.603 | 0.619 | 0.615 | 0.659 | 0.639 | 0.656 | 0.626 | 4.16 |
| 12) | | 2-Methylnaphth... | 0.724 | 0.716 | 0.740 | 0.747 | 0.795 | 0.771 | 0.795 | 0.755 | 4.25 |
| 13) | I | Acenaphthene-d10 | ----------ISTD---------- | | | | | | | | |
| 14) | S | 2,4,6-Tribromo... | 0.273 | 0.258 | 0.257 | 0.268 | 0.293 | 0.311 | 0.328 | 0.284 | 9.67 |
| 15) | S | 2-Fluorobiphenyl | 1.489 | 1.491 | 1.510 | 1.508 | 1.566 | 1.511 | 1.511 | 1.512 | 1.68 |
| 16) | | Acenaphthylene | 1.643 | 1.600 | 1.595 | 1.638 | 1.737 | 1.763 | 1.781 | 1.680 | 4.68 |
| 17) | | Acenaphthene | 1.121 | 1.084 | 1.086 | 1.108 | 1.145 | 1.122 | 1.140 | 1.115 | 2.17 |
| 18) | | Fluorene | 1.589 | 1.549 | 1.543 | 1.600 | 1.652 | 1.614 | 1.625 | 1.596 | 2.47 |
| 19) | I | Phenanthrene-d10 | ----------ISTD---------- | | | | | | | | |
| 20) | | 4,6-Dinitro-2-... | 0.038 | 0.031 | 0.036 | 0.041 | 0.051 | | | 0.039 | 19.30 |
| 21) | | 4-Bromophenyl-... | 0.226 | 0.218 | 0.226 | 0.233 | 0.249 | 0.242 | 0.244 | 0.234 | 4.85 |
| 22) | | Hexachlorobenzene | 0.265 | 0.266 | 0.273 | 0.276 | 0.288 | 0.278 | 0.277 | 0.275 | 2.82 |
| 23) | | Atrazine | 0.155 | 0.155 | 0.154 | 0.156 | 0.175 | 0.179 | 0.191 | 0.167 | 8.98 |
| 24) | | Pentachlorophenol | 0.140 | 0.090 | 0.095 | 0.103 | 0.121 | 0.136 | 0.150 | 0.120 | 19.86 |
| 25) | | Phenanthrene | 1.092 | 1.046 | 1.067 | 1.092 | 1.148 | 1.121 | 1.125 | 1.099 | 3.20 |
| 26) | | Anthracene | 0.964 | 0.923 | 0.940 | 0.973 | 1.050 | 1.042 | 1.064 | 0.994 | 5.76 |
| 27) | SURR | Fluoranthene-d10 | 1.203 | 1.086 | 1.077 | 1.105 | 1.165 | 1.138 | 1.164 | 1.134 | 4.10 |
| 28) | | Fluoranthene | 1.538 | 1.396 | 1.416 | 1.456 | 1.539 | 1.497 | 1.526 | 1.481 | 3.99 |
| 29) | I | Chrysene-d12 | ----------ISTD---------- | | | | | | | | |
| 30) | | Pyrene | 1.583 | 1.445 | 1.475 | 1.443 | 1.519 | 1.440 | 1.431 | 1.477 | 3.79 |
| 31) | S | Terphenyl-d14 | 0.832 | 0.777 | 0.791 | 0.771 | 0.812 | 0.772 | 0.769 | 0.789 | 3.08 |
| 32) | | Benzo(a)anthra... | 1.431 | 1.343 | 1.355 | 1.375 | 1.451 | 1.411 | 1.429 | 1.399 | 2.98 |
| 33) | | Chrysene | 1.463 | 1.452 | 1.441 | 1.415 | 1.487 | 1.422 | 1.420 | 1.443 | 1.84 |
| 34) | | Bis(2-ethylhex... | 0.710 | 0.558 | 0.516 | 0.505 | 0.520 | 0.516 | 0.544 | 0.553 | 12.96 |
| 35) | I | Perylene-d12 | ----------ISTD---------- | | | | | | | | |

Response Factor Report BNA_N

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
Method File : 8270-SIM-BN112724.M

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 36) | | Indeno(1,2,3-c... | 1.411 | 1.489 | 1.532 | 1.554 | 1.660 | 1.615 | 1.685 | 1.564 | 6.22 |
| 37) | | Benzo(b)fluora... | 1.305 | 1.348 | 1.313 | 1.378 | 1.827 | 1.463 | 1.608 | 1.463 | 13.12 |
| 38) | | Benzo(k)fluora... | 1.444 | 1.376 | 1.402 | 1.419 | 1.527 | 1.447 | 1.468 | 1.440 | 3.39 |
| 39) | C | Benzo(a)pyrene | 1.204 | 1.156 | 1.146 | 1.171 | 1.256 | 1.232 | 1.271 | 1.205 | 4.11 |
| 40) | | Dibenzo(a,h)an... | 1.104 | 1.187 | 1.194 | 1.226 | 1.315 | 1.280 | 1.332 | 1.234 | 6.55 |
| 41) | | Benzo(g,h,i)pe... | 1.188 | 1.238 | 1.248 | 1.269 | 1.360 | 1.330 | 1.394 | 1.289 | 5.71 |

(#) = Out of Range

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035350.D
Acq On : 27 Nov 2024 15:34
Operator : RC/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 27 22:52:09 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.1

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.308 | 152 | 2237 | 0.400 | ng | | 0.00 |
| 7) Naphthalene-d8 | 10.052 | 136 | 5753 | 0.400 | ng | | 0.00 |
| 13) Acenaphthene-d10 | 13.967 | 164 | 4077 | 0.400 | ng | | 0.00 |
| 19) Phenanthrene-d10 | 16.736 | 188 | 10855 | 0.400 | ng | | 0.00 |
| 29) Chrysene-d12 | 20.974 | 240 | 11269 | 0.400 | ng | | 0.00 |
| 35) Perylene-d12 | 23.067 | 264 | 13004 | 0.400 | ng | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 4) 2-Fluorophenol | 4.968 | 112 | 573 | 0.101 | ng | | 0.00 |
| 5) Phenol-d6 | 6.513 | 99 | 686 | 0.096 | ng | | 0.00 |
| 8) Nitrobenzene-d5 | 8.450 | 82 | 327m | 0.065 | ng | | 0.01 |
| 11) 2-Methylnaphthalene-d10 | 11.661 | 152 | 850 | 0.083 | ng | | 0.00 |
| 14) 2,4,6-Tribromophenol | 15.475 | 330 | 278 | 0.095 | ng | | 0.00 |
| 15) 2-Fluorobiphenyl | 12.574 | 172 | 1518 | 0.092 | ng | | 0.00 |
| 27) Fluoranthene-d10 | 18.785 | 212 | 3265 | 0.098 | ng | | 0.00 |
| 31) Terphenyl-d14 | 19.412 | 244 | 2344 | 0.099 | ng | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.003 | 88 | 227 | 0.112 | ng | # | 87 |
| 3) n-Nitrosodimethylamine | 3.299 | 42 | 187 | 0.099 | ng | # | 90 |
| 6) bis(2-Chloroethyl)ether | 6.759 | 93 | 579 | 0.108 | ng | | 98 |
| 9) Naphthalene | 10.105 | 128 | 1527 | 0.102 | ng | # | 91 |
| 10) Hexachlorobutadiene | 10.404 | 225 | 352 | 0.080 | ng | # | 97 |
| 12) 2-Methylnaphthalene | 11.737 | 142 | 1042 | 0.094 | ng | | 96 |
| 16) Acenaphthylene | 13.679 | 152 | 1675 | 0.096 | ng | | 100 |
| 17) Acenaphthene | 14.031 | 154 | 1143 | 0.100 | ng | | 99 |
| 18) Fluorene | 15.026 | 166 | 1620 | 0.096 | ng | | 98 |
| 20) 4,6-Dinitro-2-methylph... | 15.133 | 198 | 103 | 0.046 | ng | # | 29 |
| 21) 4-Bromophenyl-phenylether | 15.941 | 248 | 612 | 0.088 | ng | # | 94 |
| 22) Hexachlorobenzene | 16.041 | 284 | 720 | 0.100 | ng | | 97 |
| 23) Atrazine | 16.227 | 200 | 421 | 0.068 | ng | # | 86 |
| 24) Pentachlorophenol | 16.401 | 266 | 381 | 0.114 | ng | | 90 |
| 25) Phenanthrene | 16.773 | 178 | 2963 | 0.104 | ng | | 99 |
| 26) Anthracene | 16.860 | 178 | 2617 | 0.100 | ng | | 98 |
| 28) Fluoranthene | 18.817 | 202 | 4173 | 0.106 | ng | | 99 |
| 30) Pyrene | 19.184 | 202 | 4461 | 0.119 | ng | | 100 |
| 32) Benzo(a)anthracene | 20.956 | 228 | 4031 | 0.103 | ng | | 99 |
| 33) Chrysene | 21.010 | 228 | 4123 | 0.106 | ng | | 97 |
| 34) Bis(2-ethylhexyl)phtha... | 20.929 | 149 | 1999 | 0.097 | ng | | 99 |
| 36) Indeno(1,2,3-cd)pyrene | 25.105 | 276 | 4586 | 0.088 | ng | | 97 |
| 37) Benzo(b)fluoranthene | 22.456 | 252 | 4243 | 0.097 | ng | # | 82 |
| 38) Benzo(k)fluoranthene | 22.494 | 252 | 4695m | 0.107 | ng | | |
| 39) Benzo(a)pyrene | 22.977 | 252 | 3913 | 0.102 | ng | # | 69 |
| 40) Dibenzo(a,h)anthracene | 25.126 | 278 | 3588 | 0.087 | ng | # | 86 |
| 41) Benzo(g,h,i)perylene | 25.725 | 276 | 3863 | 0.088 | ng | # | 93 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

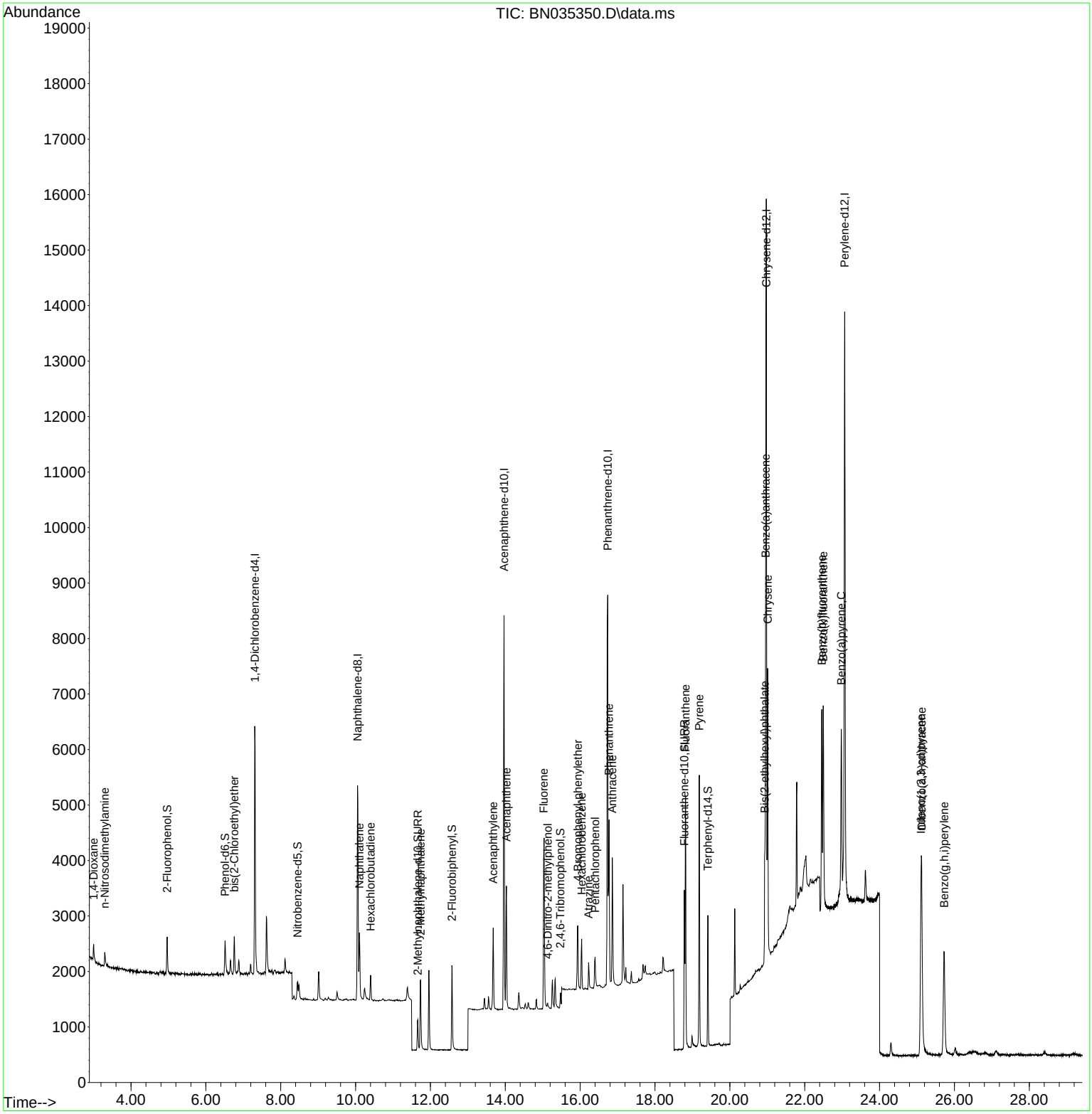
ICAL Form

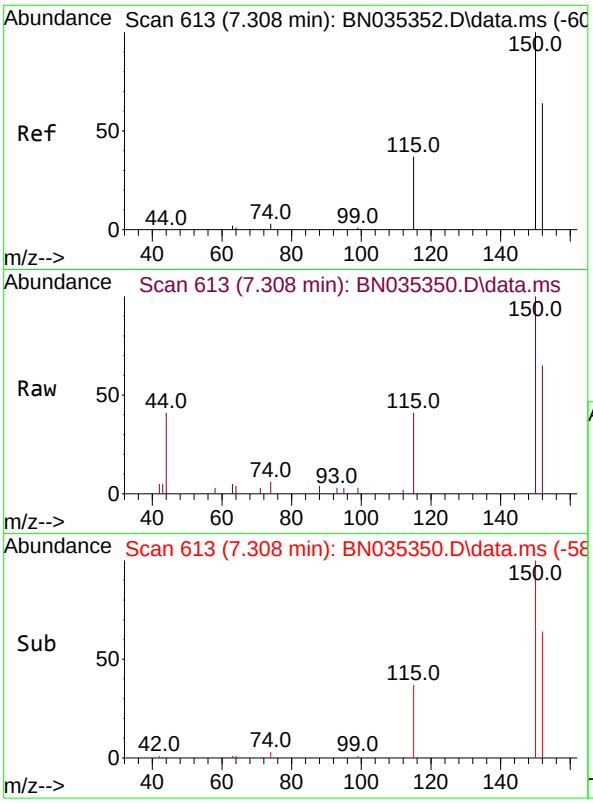
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Data File : BN035350.D
Acq On : 27 Nov 2024 15:34
Operator : RC/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 27 22:52:09 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.1

**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

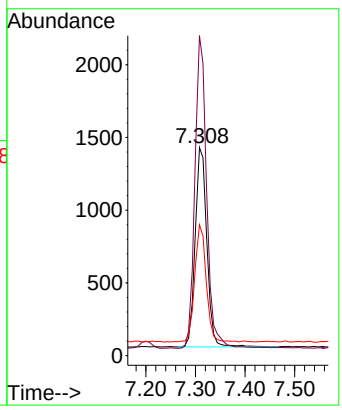





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:152 Resp: 223

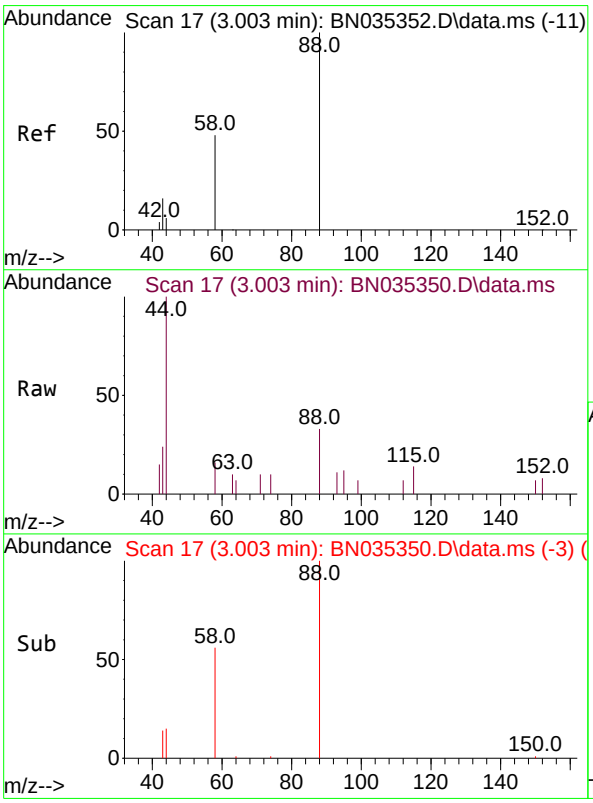
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 153.6 | 124.0 | 186.0 |
| 115 | 62.8 | 49.6 | 74.4 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.1

**Manual Integrations**
**APPROVED**

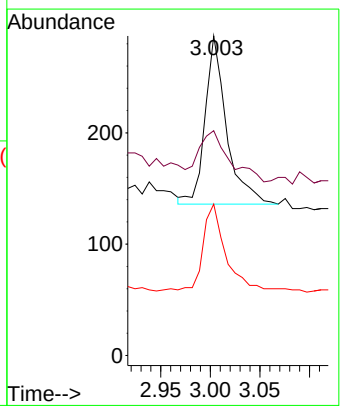
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

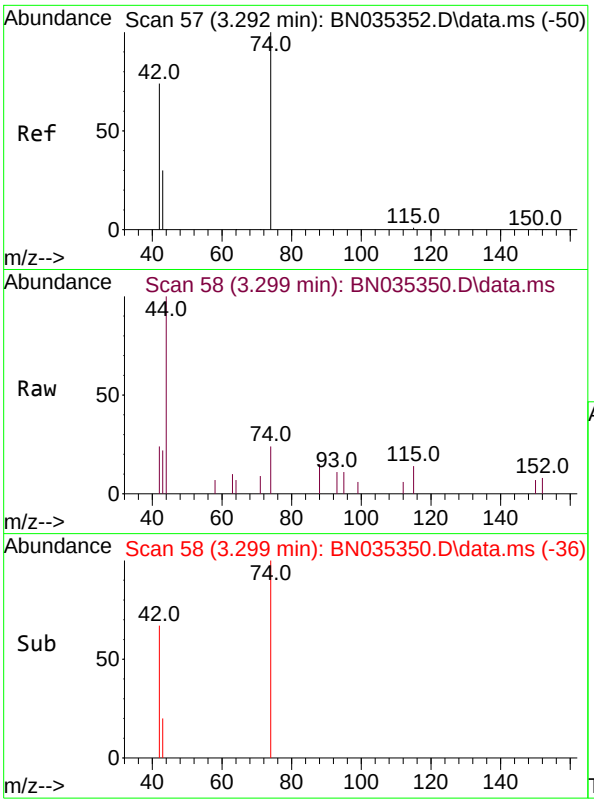



#2
1,4-Dioxane
Concen: 0.112 ng
RT: 3.003 min Scan# 17
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion: 88 Resp: 227

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 41.4 | 17.2 | 25.8# |
| 58 | 54.6 | 44.5 | 66.7 |

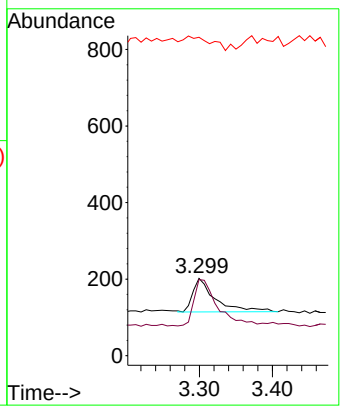





#3
n-Nitrosodimethylamine
Concen: 0.099 ng
RT: 3.299 min Scan# 5
Delta R.T. 0.007 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion: 42 Resp: 18

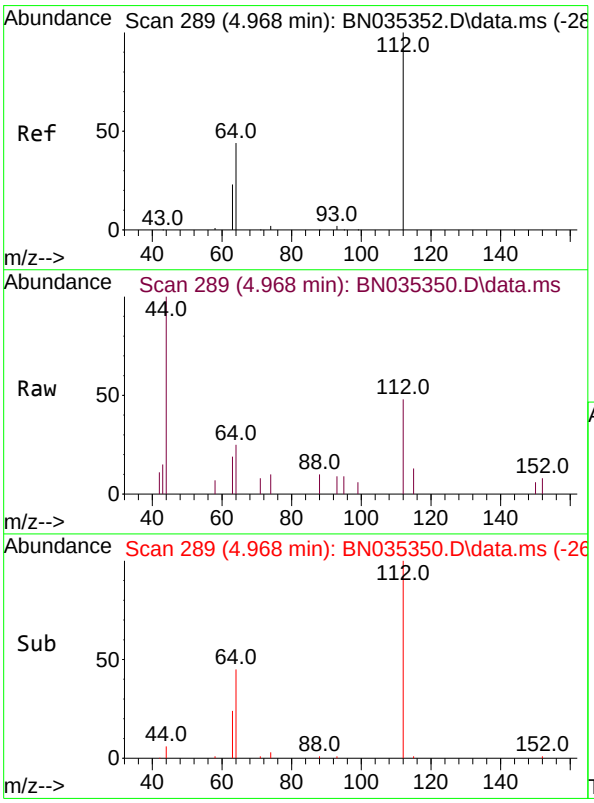
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 146.5 | 124.9 | 187.3 |
| 44 | 51.9 | 2.2 | 3.4 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.1

**Manual Integrations**
**APPROVED**

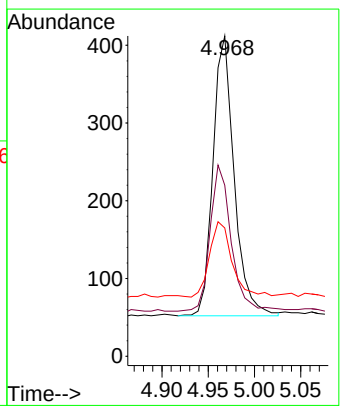
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

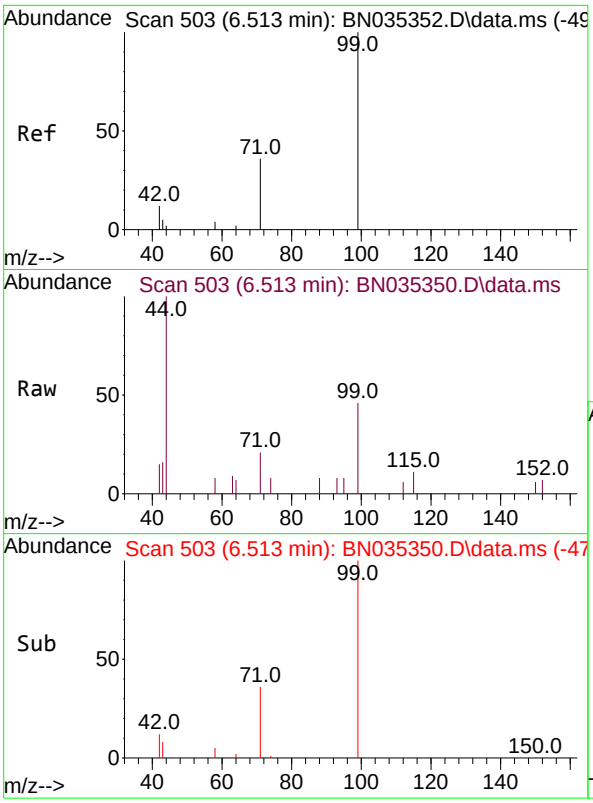



#4
2-Fluorophenol
Concen: 0.101 ng
RT: 4.968 min Scan# 289
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:112 Resp: 573

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 52.0 | 39.8 | 59.8 |
| 63 | 28.8 | 21.0 | 31.6 |

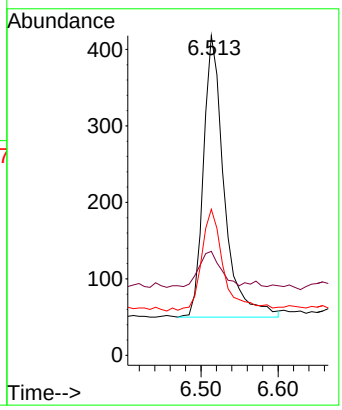





#5
Phenol-d6
Concen: 0.096 ng
RT: 6.513 min Scan# 5(
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion: 99 Resp: 68(

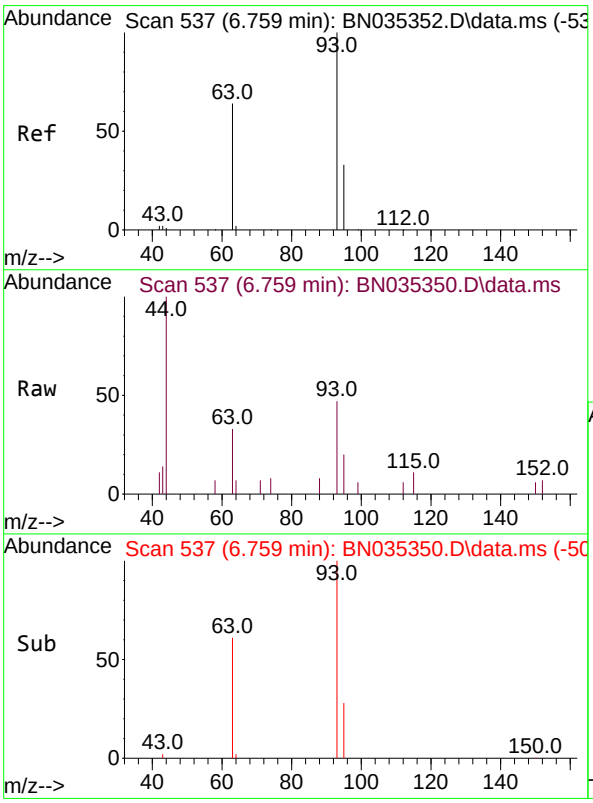
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 13.7 | 11.4 | 17.2 |
| 71 | 38.9 | 29.3 | 43.9 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.1

**Manual Integrations**
**APPROVED**

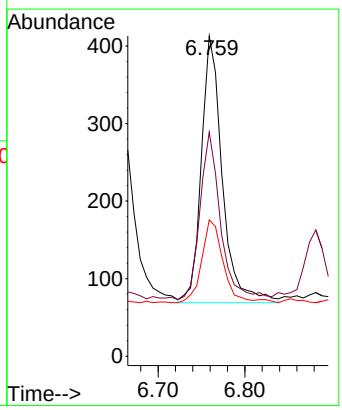
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

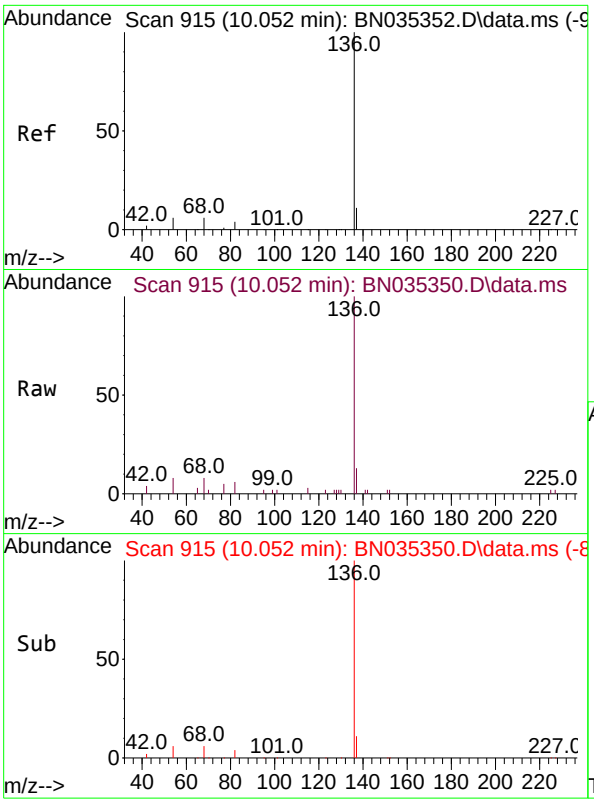



#6
bis(2-Chloroethyl)ether
Concen: 0.108 ng
RT: 6.759 min Scan# 537
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion: 93 Resp: 579

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 61.7 | 50.4 | 75.6 |
| 95 | 31.3 | 25.7 | 38.5 |

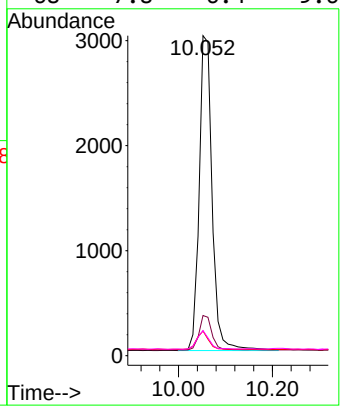





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:136 Resp: 575

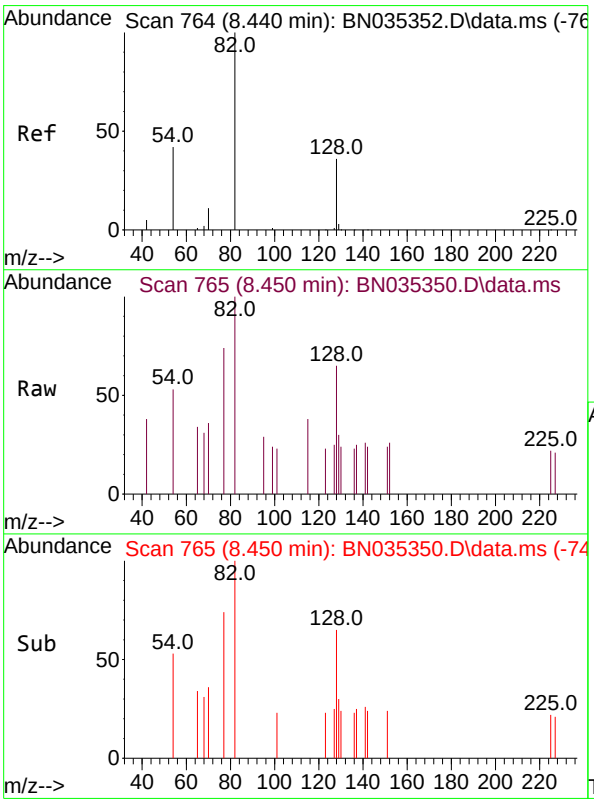
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 12.6 | 10.2 | 15.2 |
| 54 | 7.7 | 6.1 | 9.1 |
| 68 | 7.8 | 6.4 | 9.6 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.1

**Manual Integrations APPROVED**

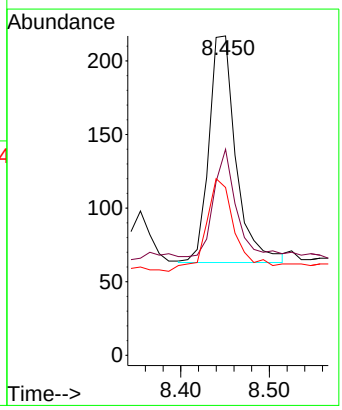
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

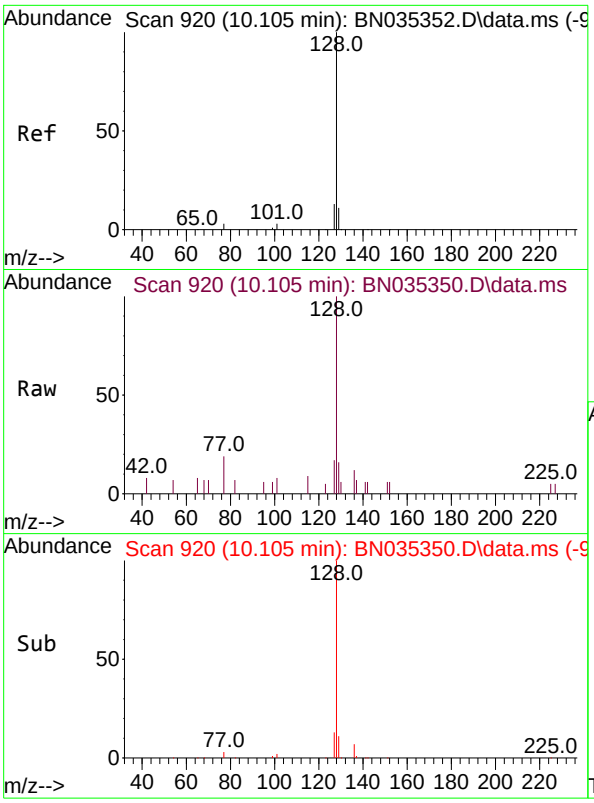



#8
Nitrobenzene-d5
Concen: 0.065 ng m
RT: 8.450 min Scan# 765
Delta R.T. 0.011 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion: 82 Resp: 327

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 64.5 | 33.4 | 50.0# |
| 54 | 52.5 | 36.7 | 55.1 |

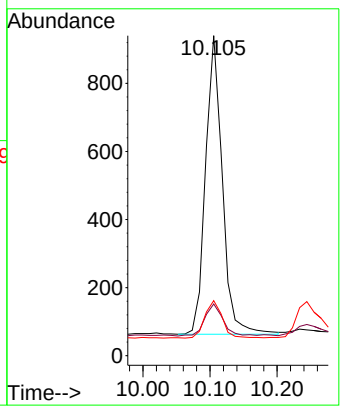





#9
Naphthalene
Concen: 0.102 ng
RT: 10.105 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:128 Resp: 152

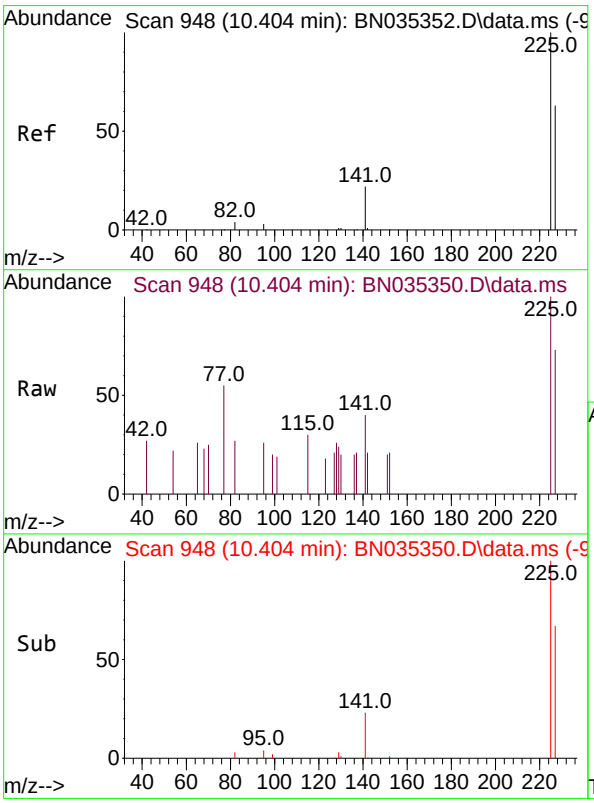
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 16.2 | 9.8 | 14.6# |
| 127 | 17.2 | 11.4 | 17.2# |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.1

**Manual Integrations**
**APPROVED**

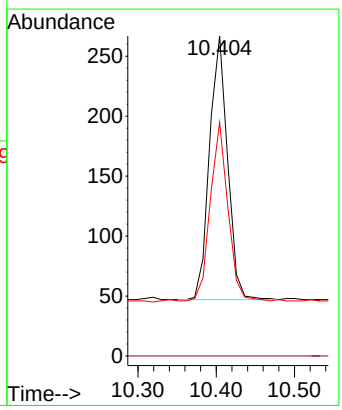
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

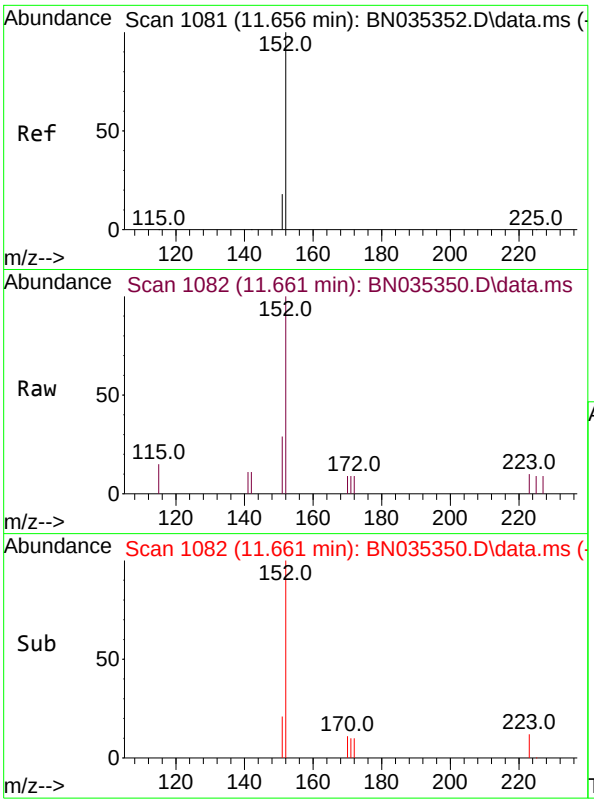



#10
Hexachlorobutadiene
Concen: 0.080 ng
RT: 10.404 min Scan# 948
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:225 Resp: 352

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 0.0 | 0.0 | 0.0 |
| 227 | 66.2 | 51.3 | 76.9 |

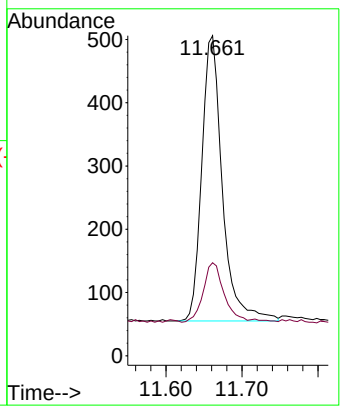





#11
2-Methylnaphthalene-d10
Concen: 0.083 ng
RT: 11.661 min Scan# 1(
Delta R.T. 0.005 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:152 Resp: 85(

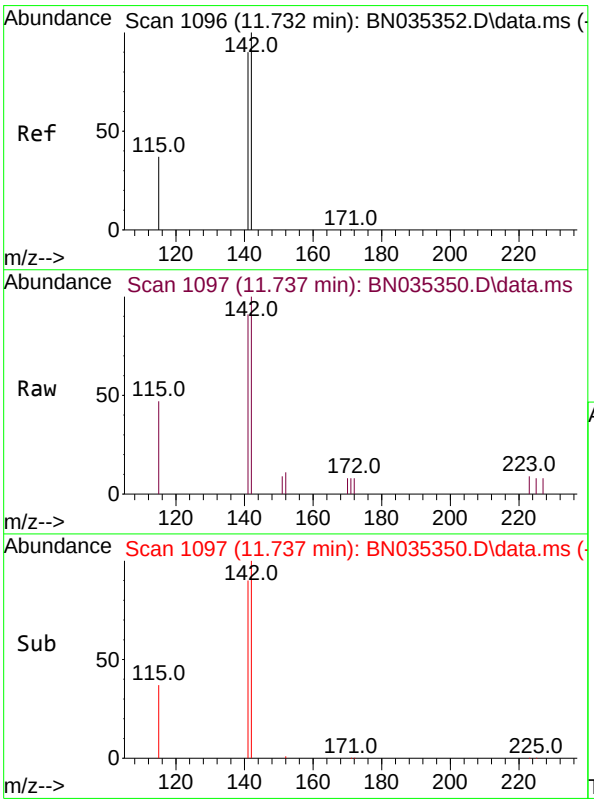
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 21.1 | 16.6 | 25.0 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.1

**Manual Integrations**
**APPROVED**

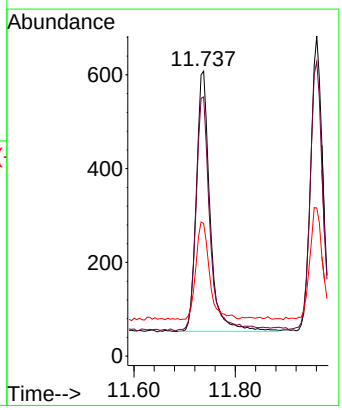
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

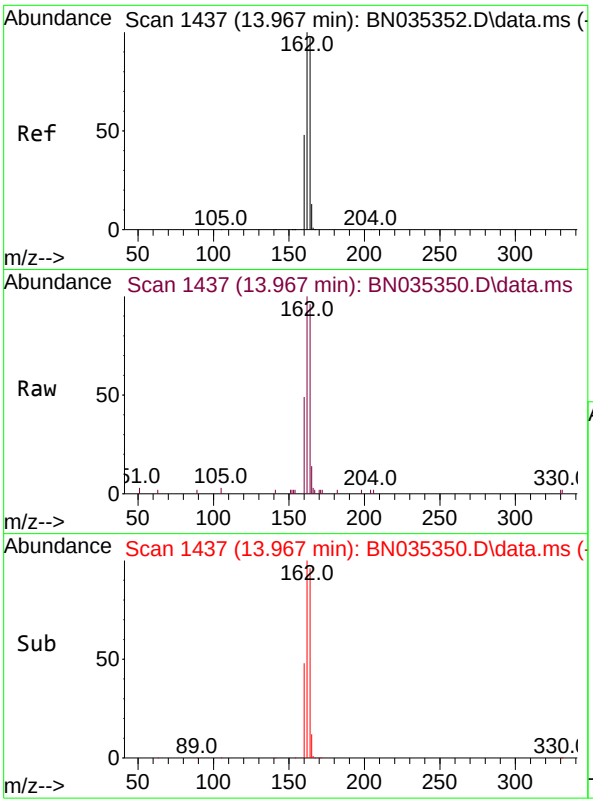



#12
2-Methylnaphthalene
Concen: 0.094 ng
RT: 11.737 min Scan# 1097
Delta R.T. 0.005 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:142 Resp: 1042

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 91.0 | 72.2 | 108.4 |
| 115 | 46.5 | 31.4 | 47.0 |

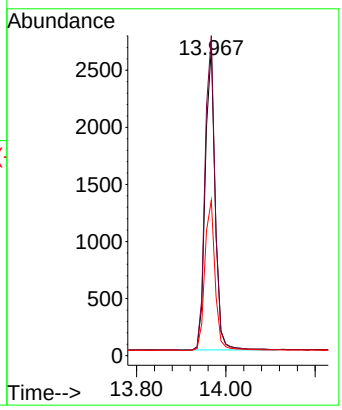





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:164 Resp: 407

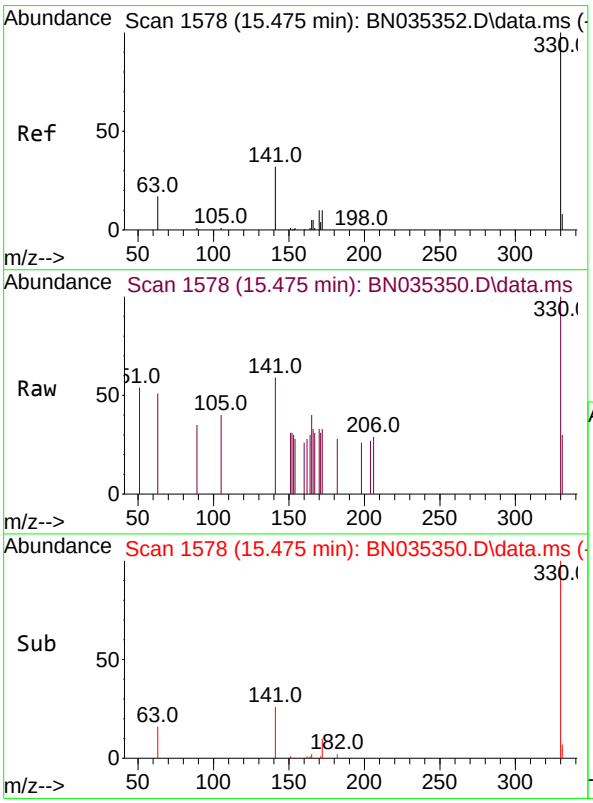
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 103.9 | 82.2 | 123.2 |
| 160 | 50.4 | 40.1 | 60.1 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.1

**Manual Integrations APPROVED**

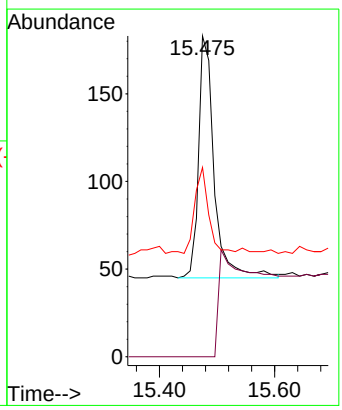
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

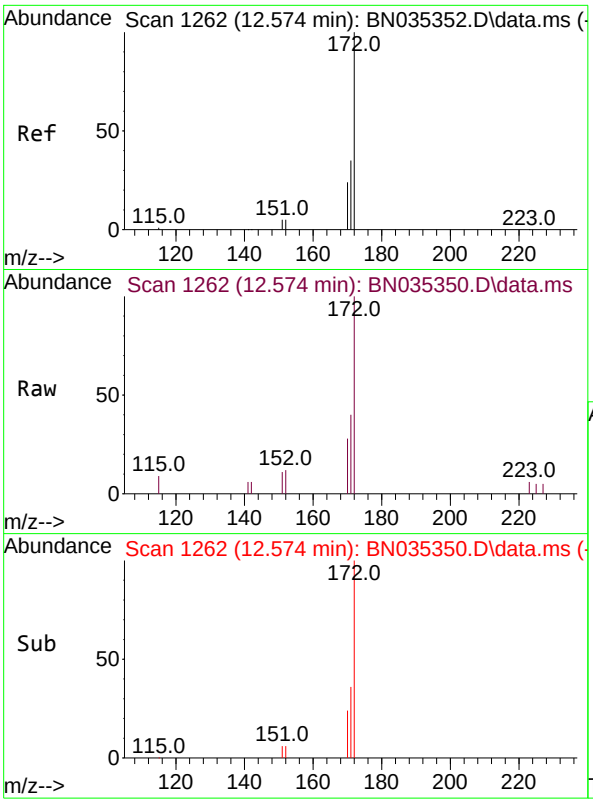



#14
2,4,6-Tribromophenol
Concen: 0.095 ng
RT: 15.475 min Scan# 1578
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:330 Resp: 278

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 0.0 | 0.0 | 0.0 |
| 141 | 29.1 | 26.6 | 40.0 |

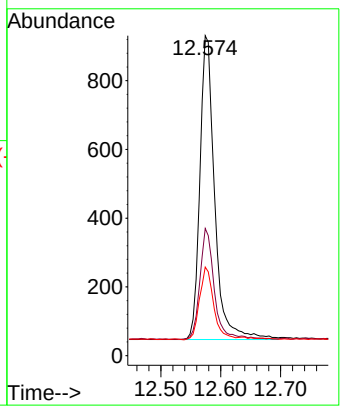





#15
2-Fluorobiphenyl
Concen: 0.092 ng
RT: 12.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:172 Resp: 151

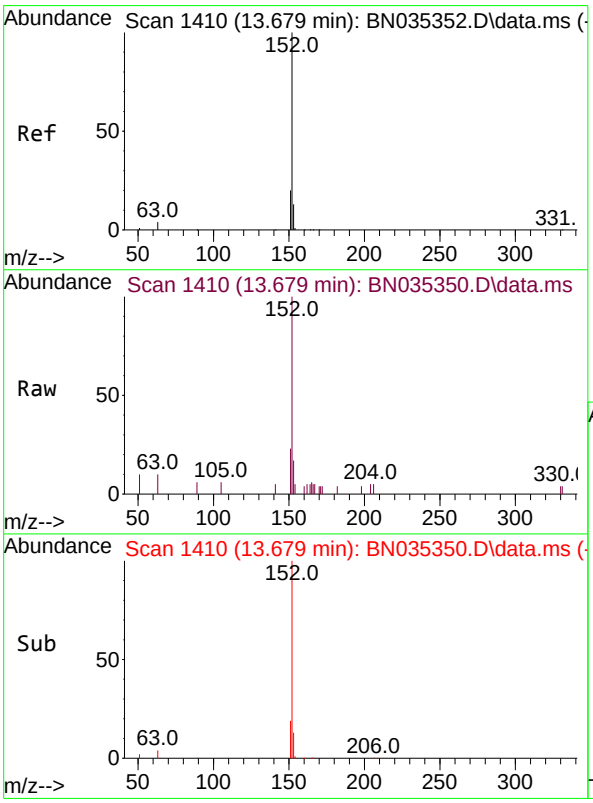
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 39.7 | 29.0 | 43.4 |
| 170 | 27.7 | 19.8 | 29.8 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.1

**Manual Integrations APPROVED**

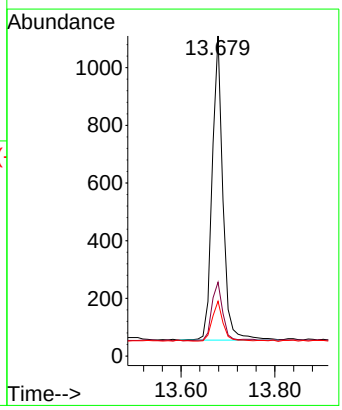
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

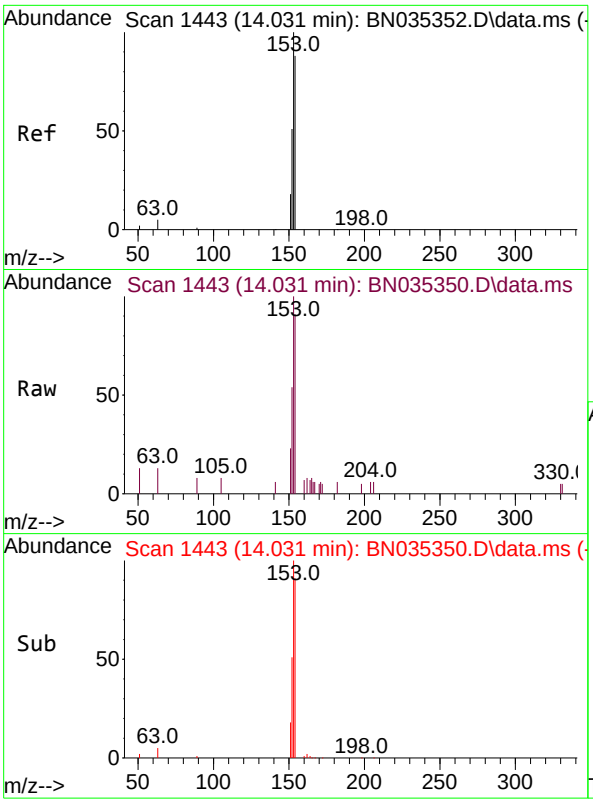



#16
Acenaphthylene
Concen: 0.096 ng
RT: 13.679 min Scan# 1410
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:152 Resp: 1675

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.4 | 16.2 | 24.2 |
| 153 | 13.1 | 10.4 | 15.6 |

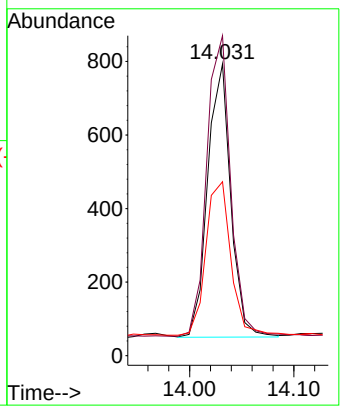





#17
Acenaphthene
Concen: 0.100 ng
RT: 14.031 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:154 Resp: 114

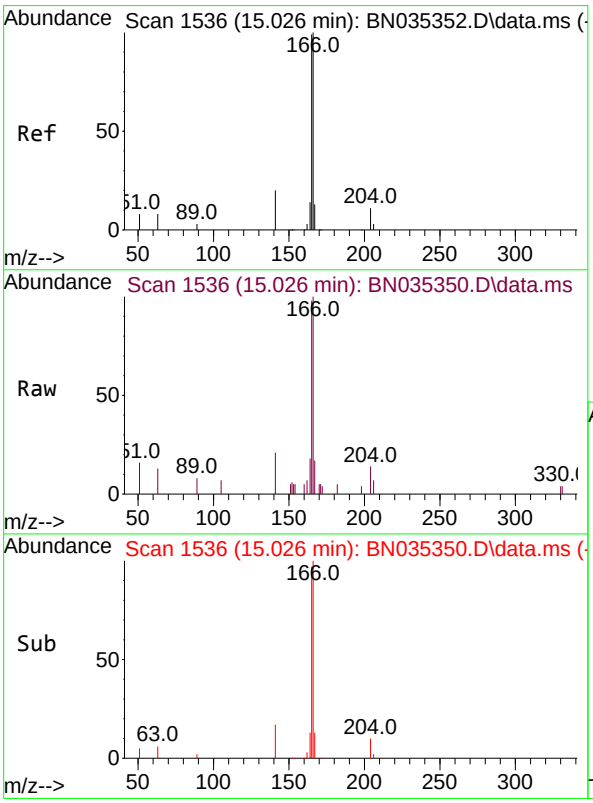
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 115.0 | 92.6 | 139.0 |
| 152 | 60.9 | 49.0 | 73.6 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.1

**Manual Integrations**
**APPROVED**

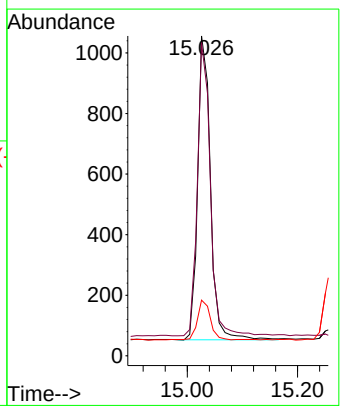
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

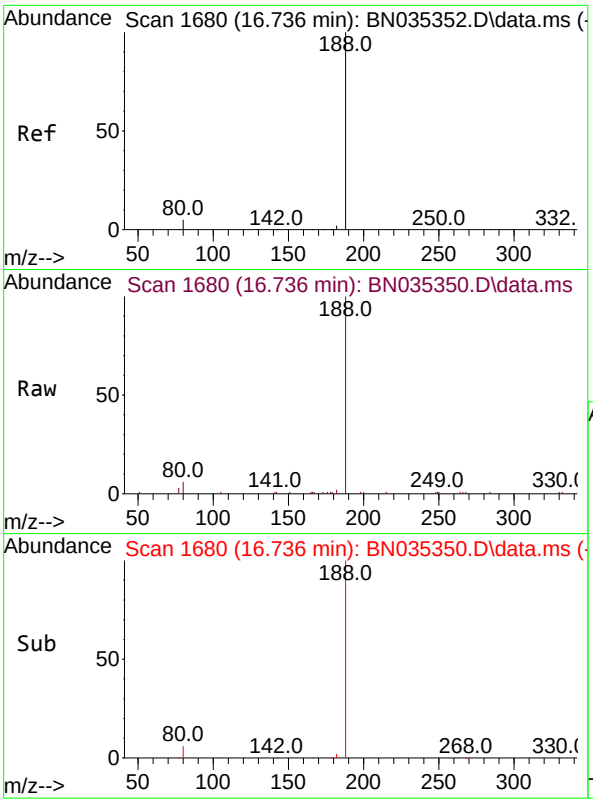



#18
Fluorene
Concen: 0.096 ng
RT: 15.026 min Scan# 1536
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:166 Resp: 1620

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 97.7 | 79.7 | 119.5 |
| 167 | 13.1 | 10.8 | 16.2 |

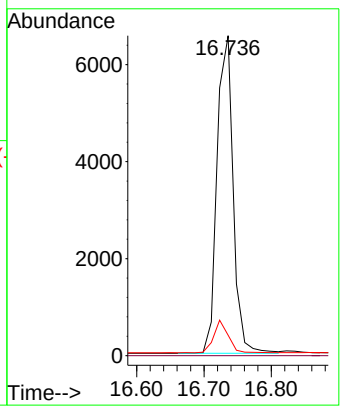





#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.736 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:188 Resp: 1085

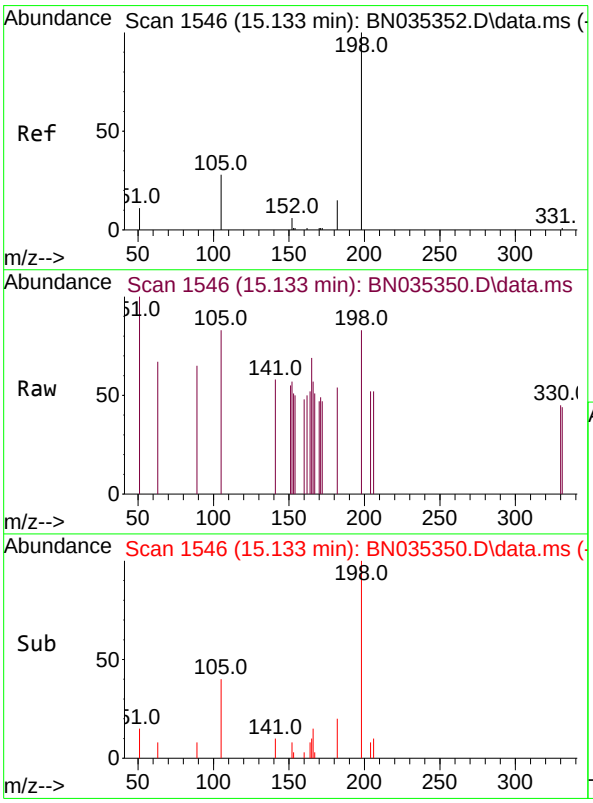
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 6.4 | 4.6 | 6.8 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.1

**Manual Integrations APPROVED**

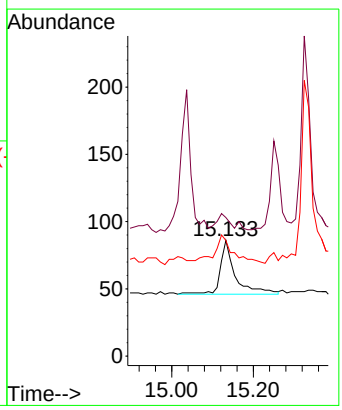
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

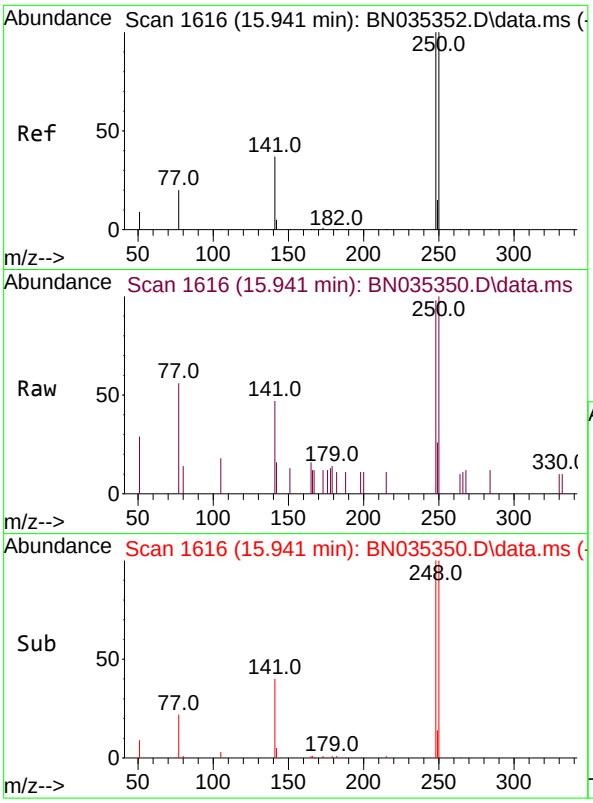



#20
4,6-Dinitro-2-methylphenol
Concen: 0.046 ng
RT: 15.133 min Scan# 1546
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:198 Resp: 103

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 198 | 100 | | |
| 51 | 119.8 | 46.5 | 69.7# |
| 105 | 100.0 | 45.3 | 67.9# |

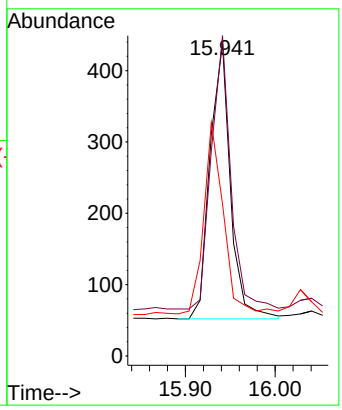





#21
4-Bromophenyl-phenylether
Concen: 0.088 ng
RT: 15.941 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:248 Resp: 61

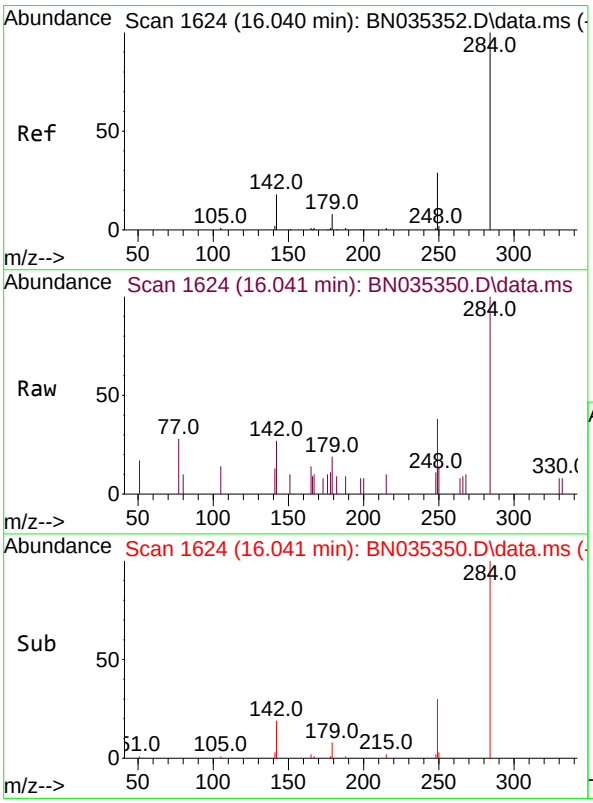
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 102.5 | 80.6 | 120.8 |
| 141 | 48.6 | 31.5 | 47.3 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.1

**Manual Integrations**
**APPROVED**

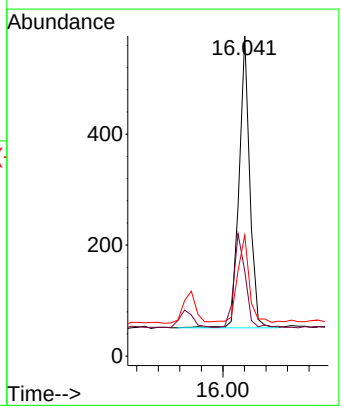
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

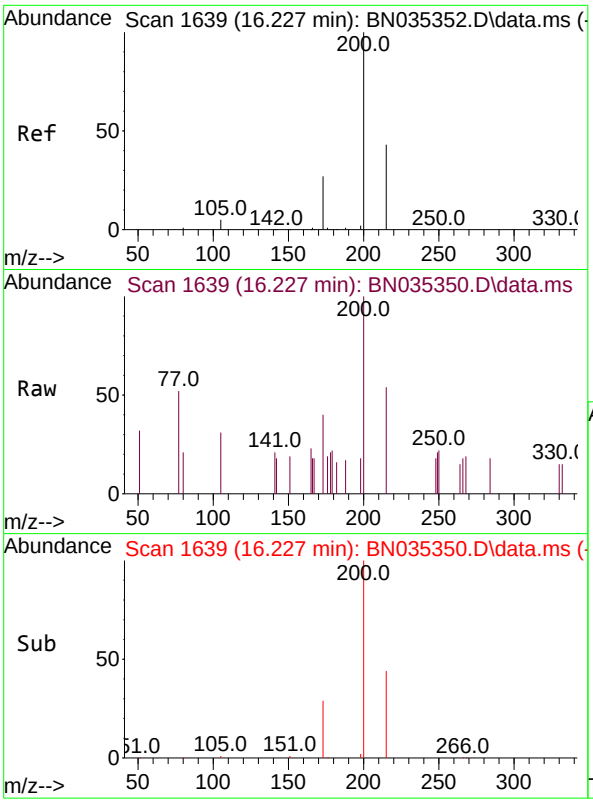



#22
Hexachlorobenzene
Concen: 0.100 ng
RT: 16.041 min Scan# 1624
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:284 Resp: 720

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 35.4 | 26.7 | 40.1 |
| 249 | 32.2 | 24.6 | 36.8 |

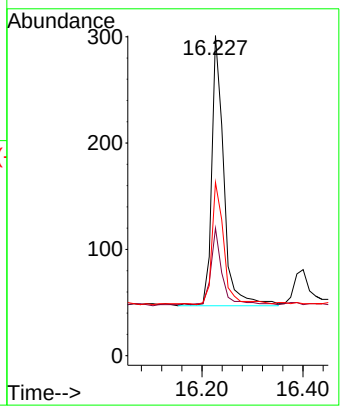





#23
Atrazine
Concen: 0.068 ng
RT: 16.227 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:200 Resp: 42

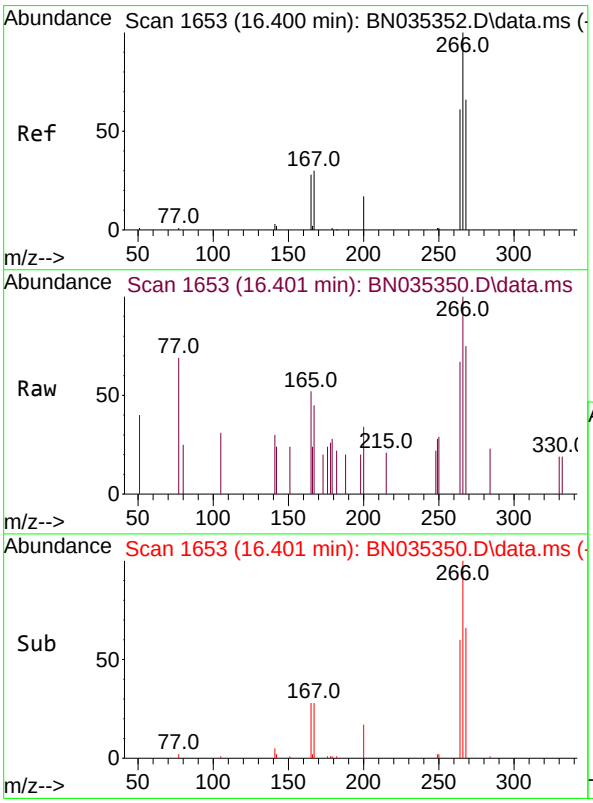
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 173 | 39.9 | 24.1 | 36.1# |
| 215 | 54.2 | 36.9 | 55.3 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.1

**Manual Integrations APPROVED**

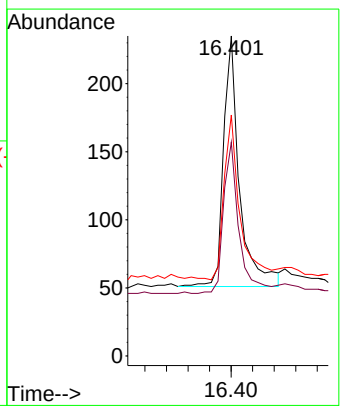
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

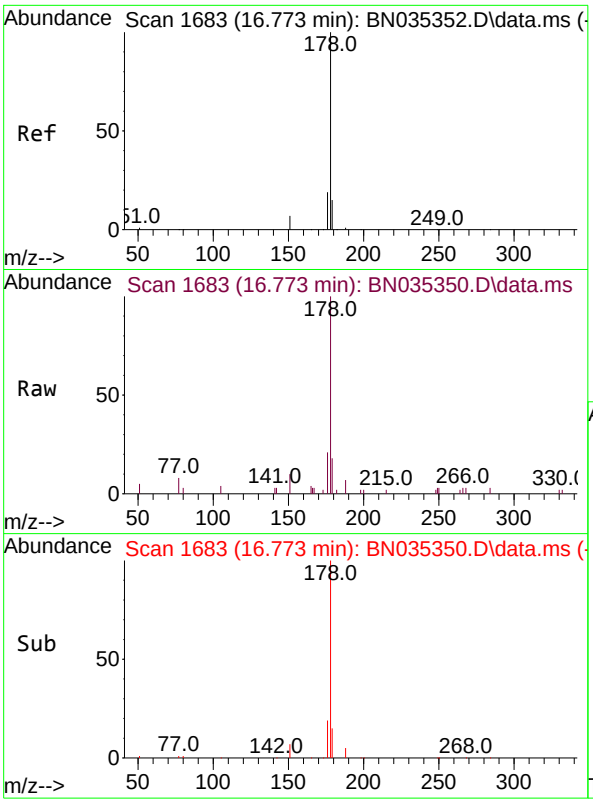



#24
Pentachlorophenol
Concen: 0.114 ng
RT: 16.401 min Scan# 1653
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:266 Resp: 381

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 264 | 58.3 | 42.3 | 63.5 |
| 268 | 63.3 | 43.3 | 64.9 |

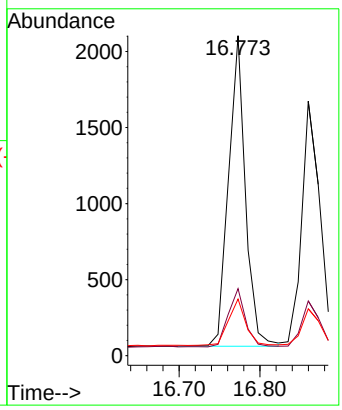





#25
Phenanthrene
Concen: 0.104 ng
RT: 16.773 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:178 Resp: 296

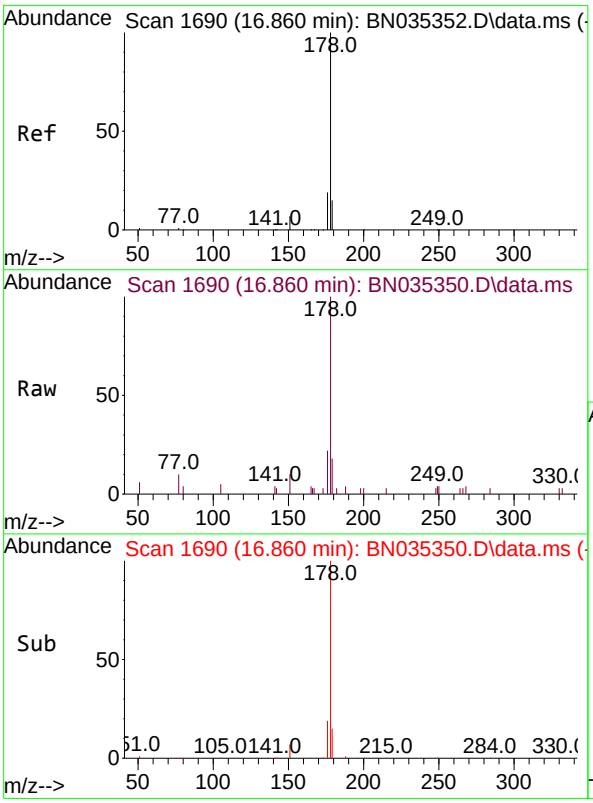
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.8 | 15.4 | 23.2 |
| 179 | 15.6 | 12.3 | 18.5 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.1

**Manual Integrations**
**APPROVED**

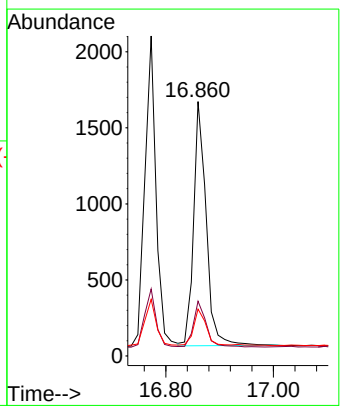
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

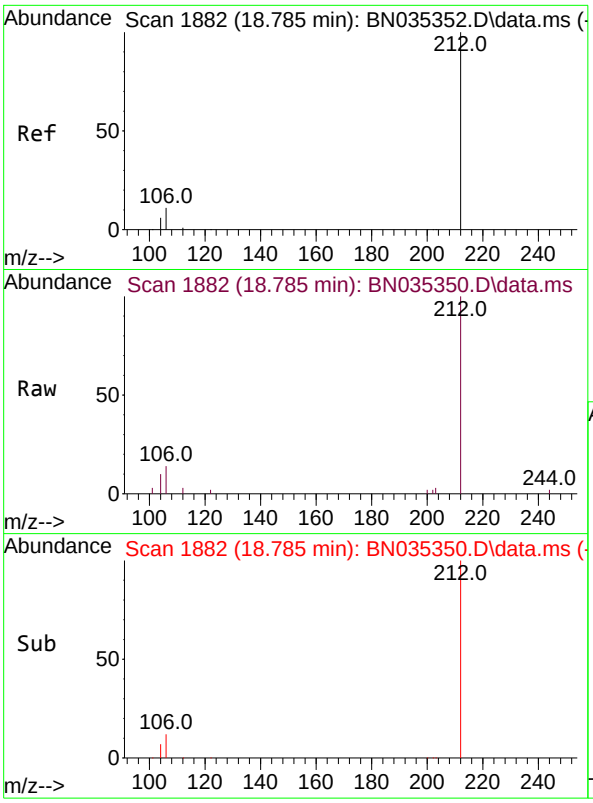



#26
Anthracene
Concen: 0.100 ng
RT: 16.860 min Scan# 1690
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:178 Resp: 2617

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.8 | 15.0 | 22.6 |
| 179 | 14.3 | 12.6 | 18.8 |

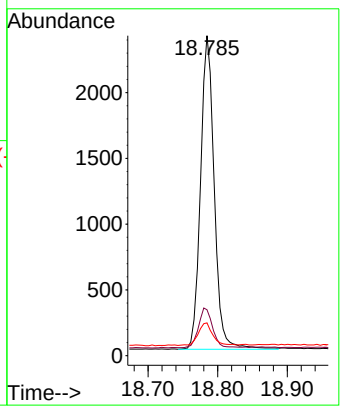





#27
Fluoranthene-d10
Concen: 0.098 ng
RT: 18.785 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:212 Resp: 326

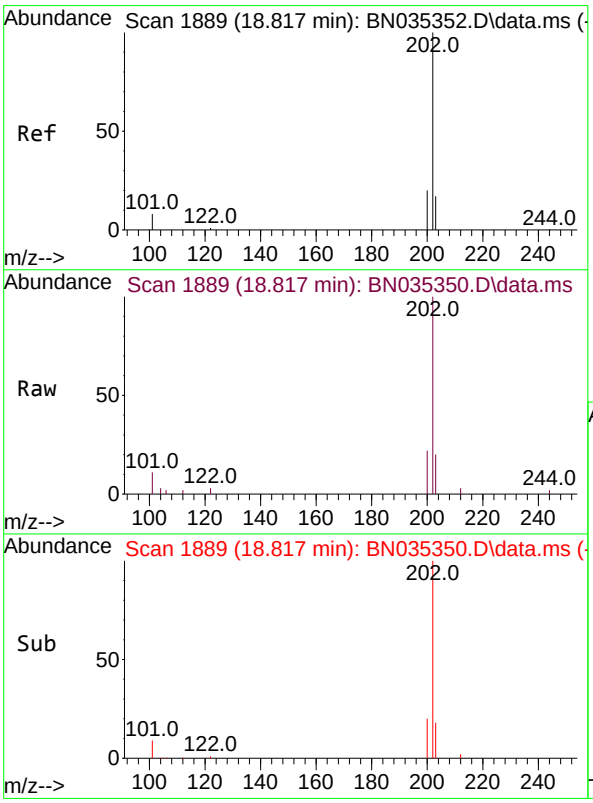
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 12.8 | 9.2 | 13.8 |
| 104 | 7.6 | 5.3 | 7.9 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.1

**Manual Integrations APPROVED**

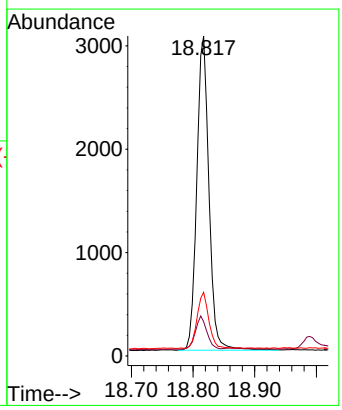
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

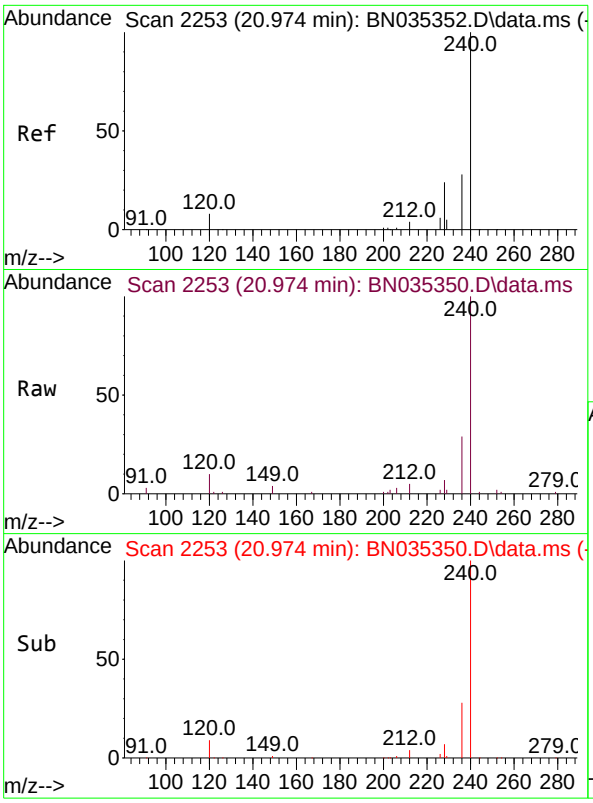



#28
Fluoranthene
Concen: 0.106 ng
RT: 18.817 min Scan# 1889
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:202 Resp: 4173

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 10.2 | 7.4 | 11.0 |
| 203 | 17.3 | 13.7 | 20.5 |

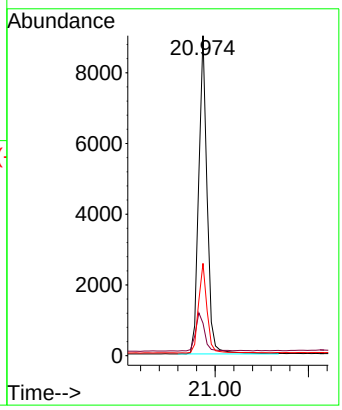





#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.974 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:240 Resp: 1126

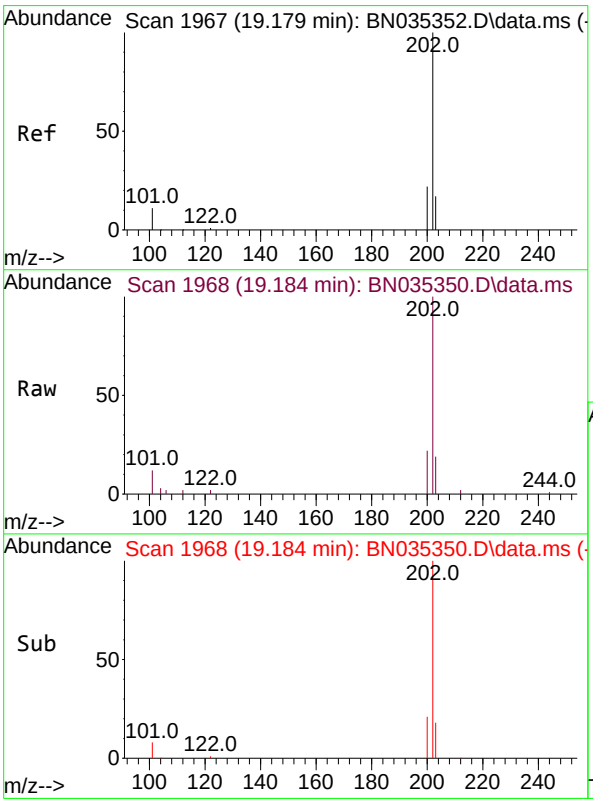
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 10.1 | 7.9 | 11.9 |
| 236 | 28.8 | 22.9 | 34.3 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.1

**Manual Integrations APPROVED**

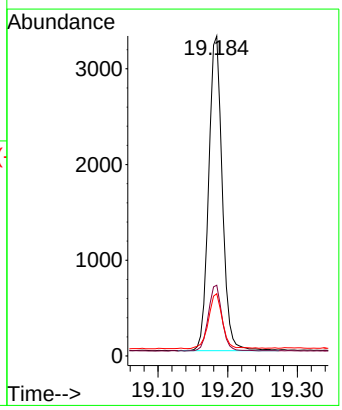
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

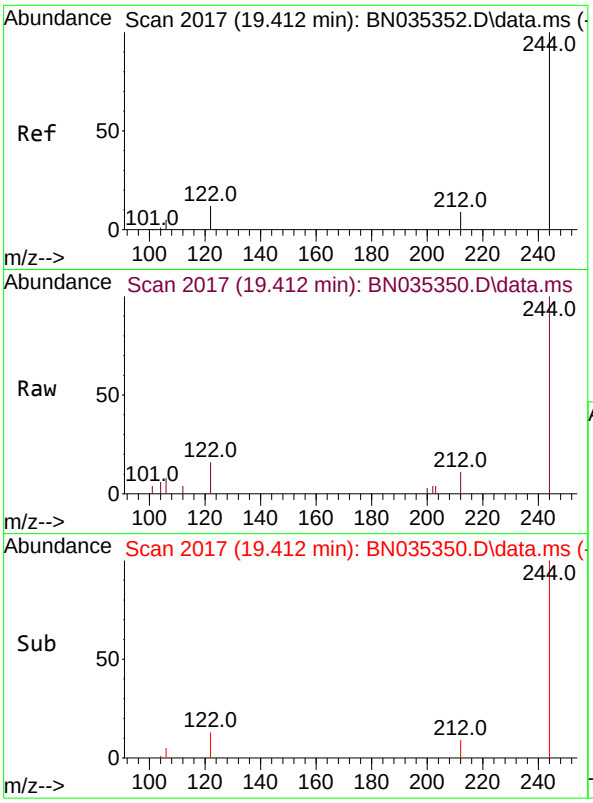



#30
Pyrene
Concen: 0.119 ng
RT: 19.184 min Scan# 1968
Delta R.T. 0.005 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:202 Resp: 4461

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.1 | 17.0 | 25.4 |
| 203 | 18.0 | 14.3 | 21.5 |

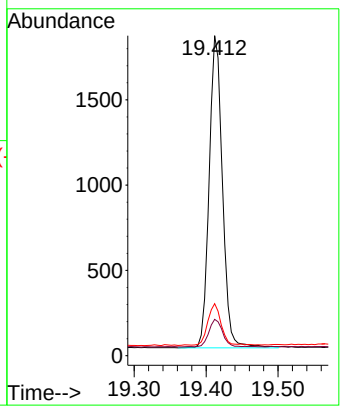





#31
Terphenyl-d14
Concen: 0.099 ng
RT: 19.412 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:244 Resp: 234

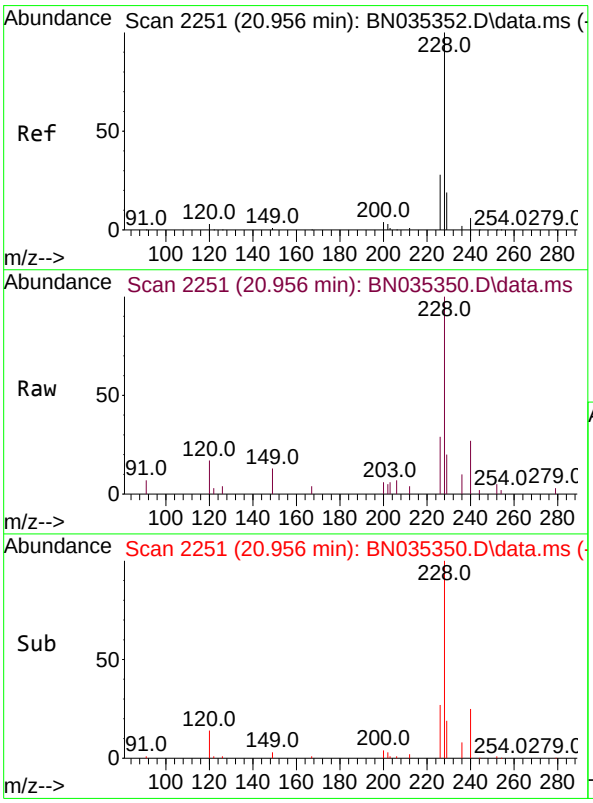
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 11.4 | 8.1 | 12.1 |
| 122 | 16.3 | 10.3 | 15.5 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.1

**Manual Integrations APPROVED**

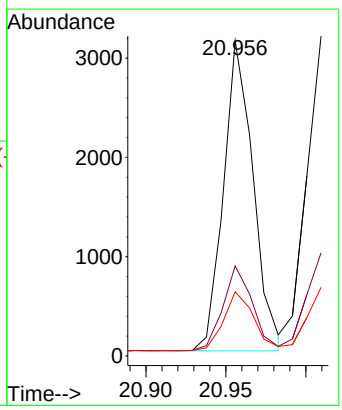
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

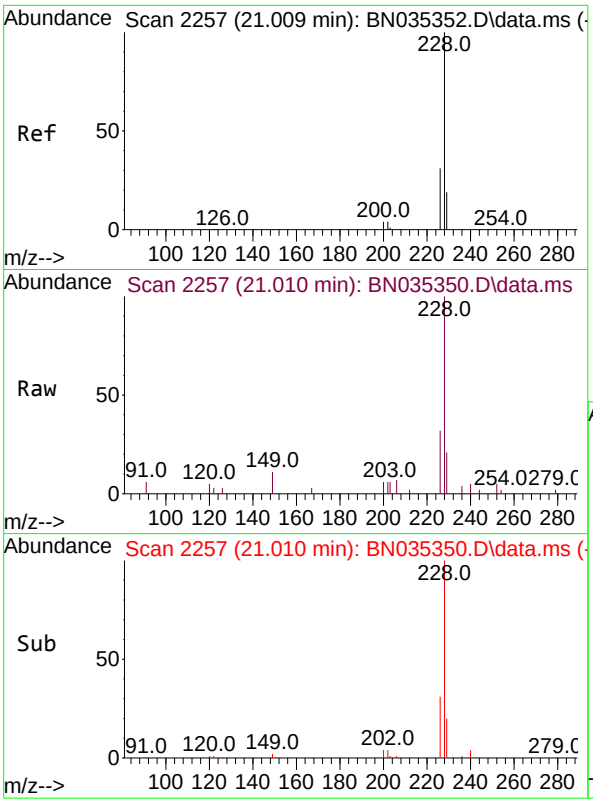



#32
Benzo(a)anthracene
Concen: 0.103 ng
RT: 20.956 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:228 Resp: 4031

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 28.5 | 22.5 | 33.7 |
| 229 | 20.4 | 15.8 | 23.8 |

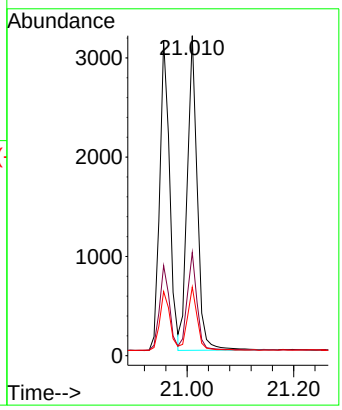





#33
Chrysene
Concen: 0.106 ng
RT: 21.010 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:228 Resp: 412

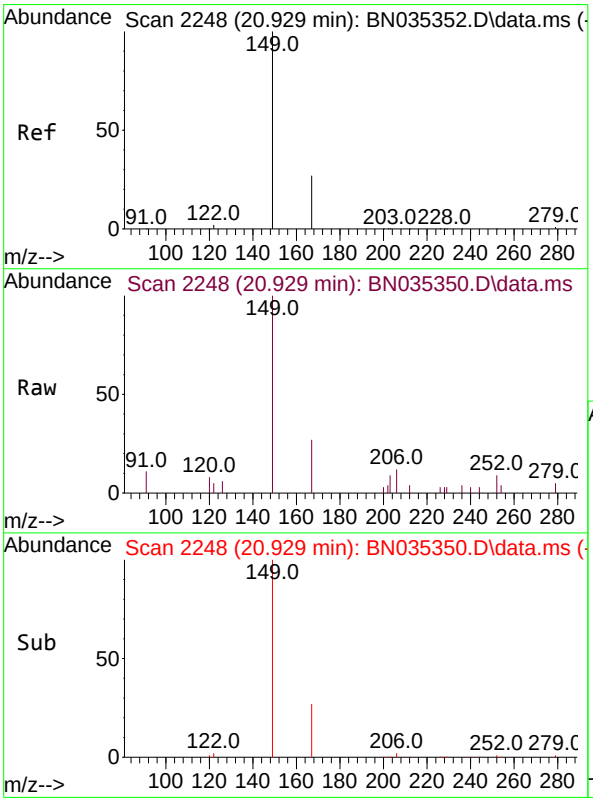
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 32.3 | 24.6 | 37.0 |
| 229 | 21.5 | 15.9 | 23.9 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.1

**Manual Integrations APPROVED**

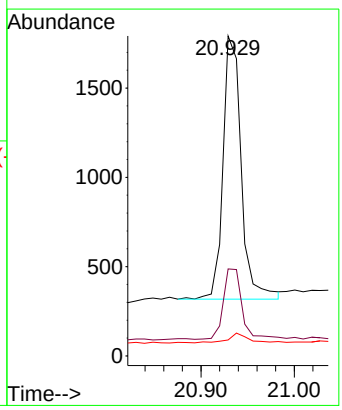
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

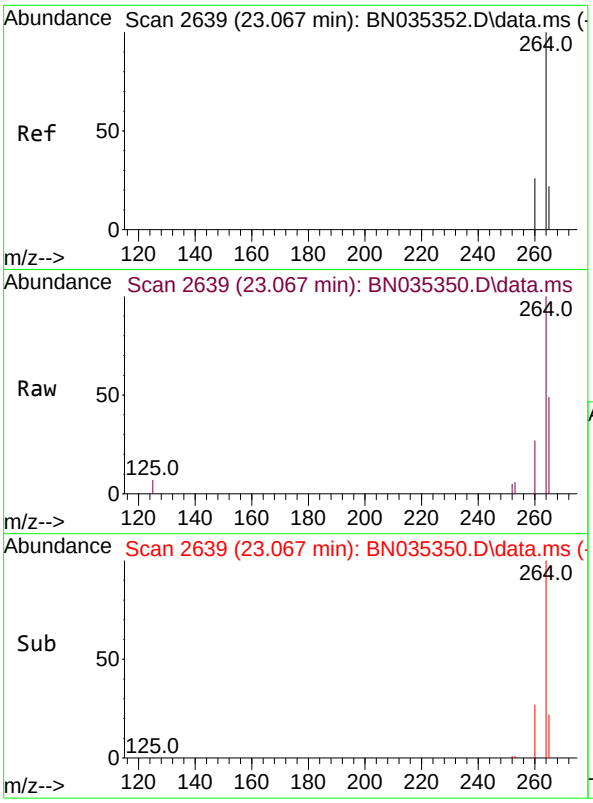



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.097 ng
RT: 20.929 min Scan# 2248
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:149 Resp: 1999

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 27.5 | 22.2 | 33.4 |
| 279 | 3.6 | 2.7 | 4.1 |

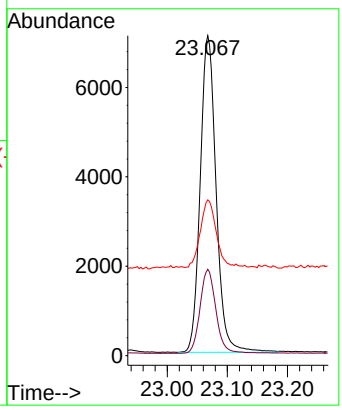





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.067 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:264 Resp: 1300

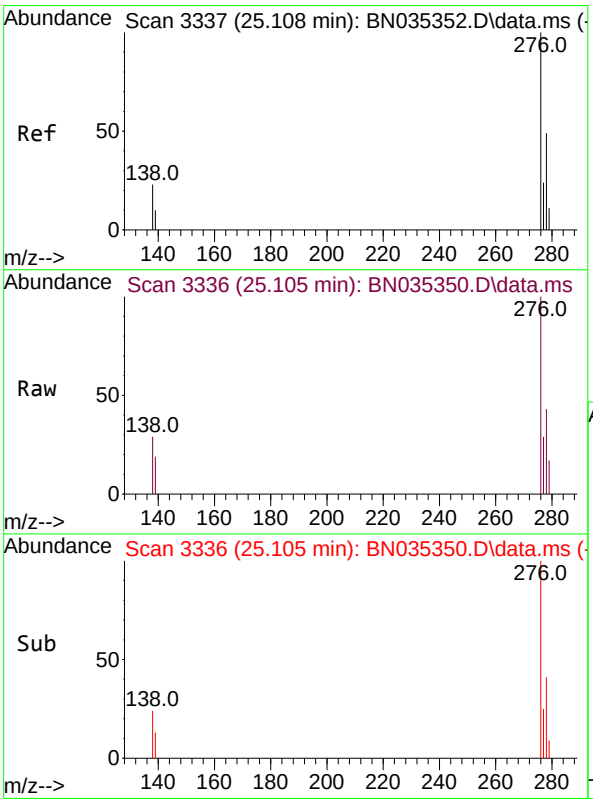
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 27.0 | 21.4 | 32.2 |
| 265 | 48.7 | 40.2 | 60.4 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.1

**Manual Integrations**
**APPROVED**

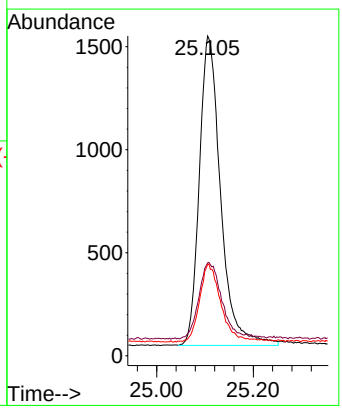
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

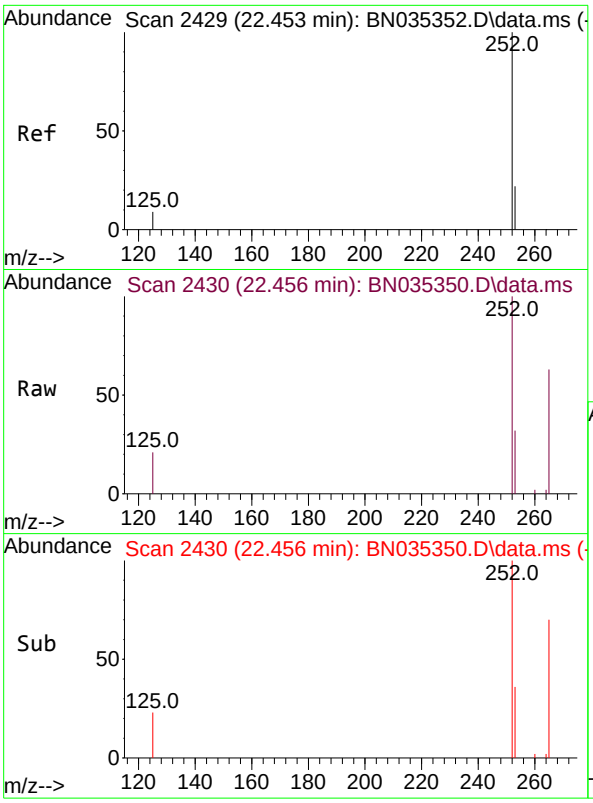



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.088 ng
RT: 25.105 min Scan# 3336
Delta R.T. -0.003 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:276 Resp: 4586

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 26.2 | 19.4 | 29.0 |
| 277 | 25.6 | 19.8 | 29.6 |

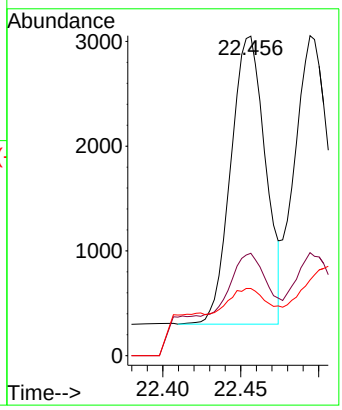





#37
Benzo(b)fluoranthene
Concen: 0.097 ng
RT: 22.456 min Scan# 24
Delta R.T. 0.003 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:252 Resp: 424

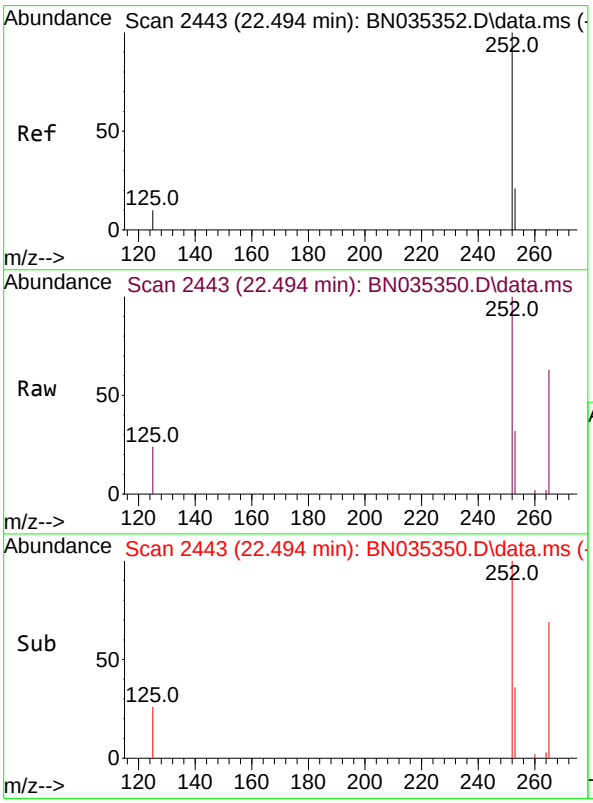
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 32.1 | 19.6 | 29.4# |
| 125 | 21.0 | 9.6 | 14.4# |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.1

**Manual Integrations APPROVED**

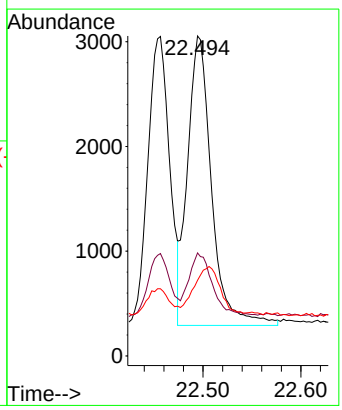
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

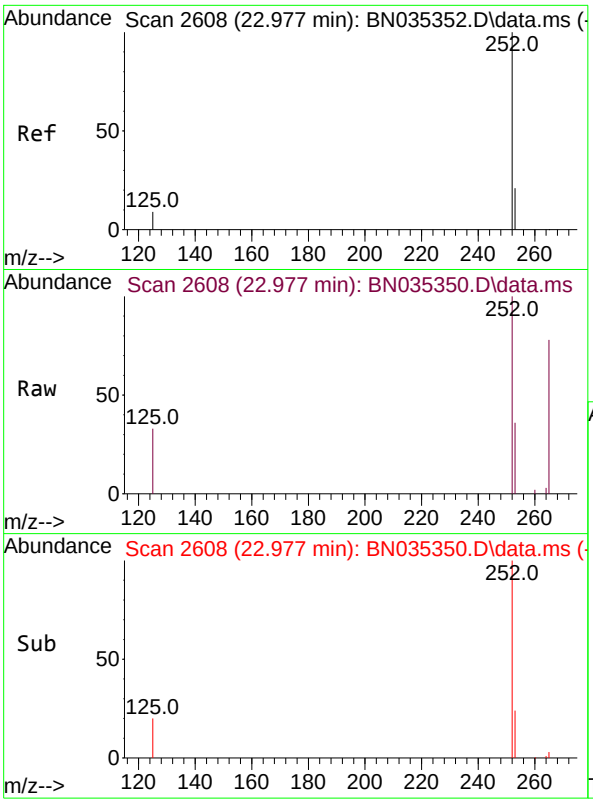



#38
Benzo(k)fluoranthene
Concen: 0.107 ng m
RT: 22.494 min Scan# 2443
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:252 Resp: 4695

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 32.2 | 19.5 | 29.3# |
| 125 | 23.7 | 10.2 | 15.4# |

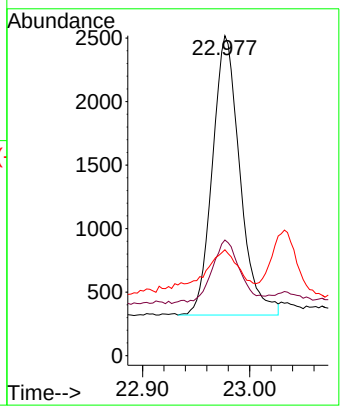





#39
Benzo(a)pyrene
Concen: 0.102 ng
RT: 22.977 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:252 Resp: 391

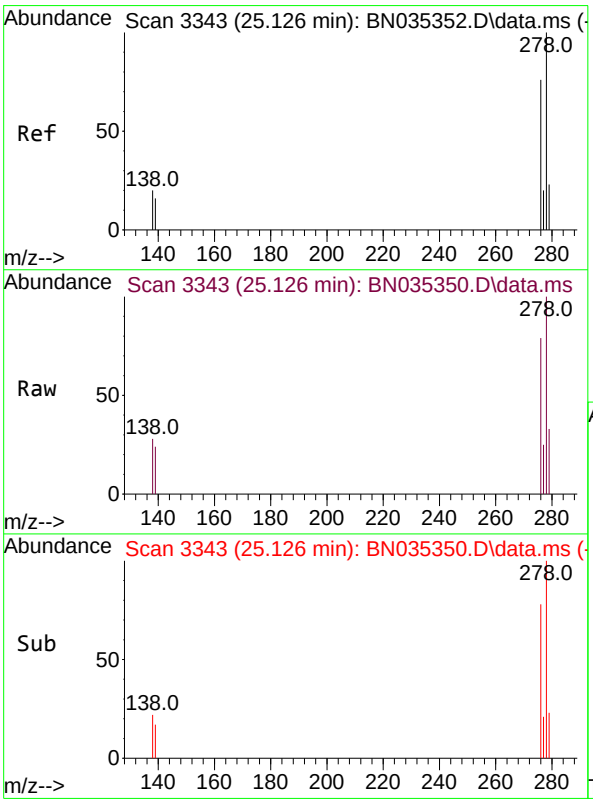
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 36.1 | 20.2 | 30.4# |
| 125 | 33.1 | 10.9 | 16.3# |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.1

**Manual Integrations**
**APPROVED**

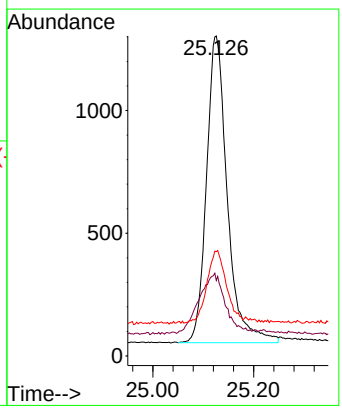
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

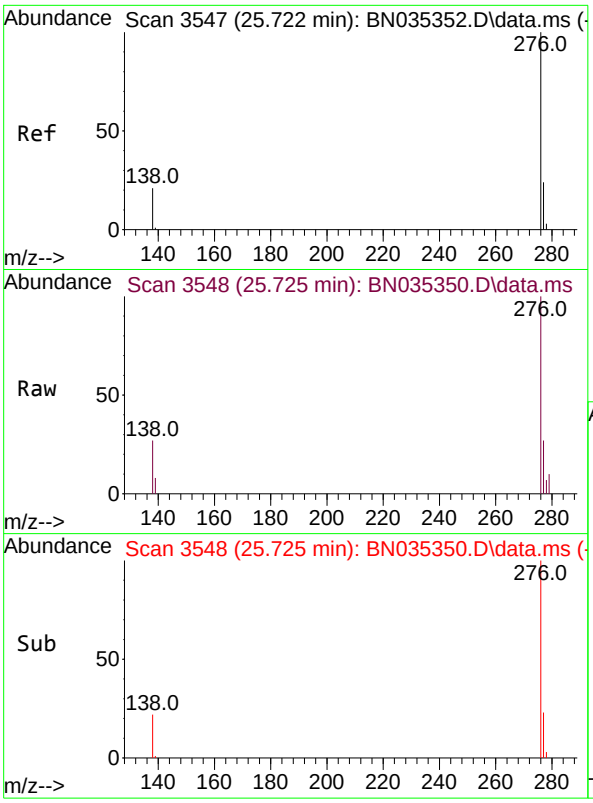



#40
Dibenzo(a,h)anthracene
Concen: 0.087 ng
RT: 25.126 min Scan# 3343
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:278 Resp: 3588

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 23.6 | 14.2 | 21.4# |
| 279 | 32.6 | 20.5 | 30.7# |

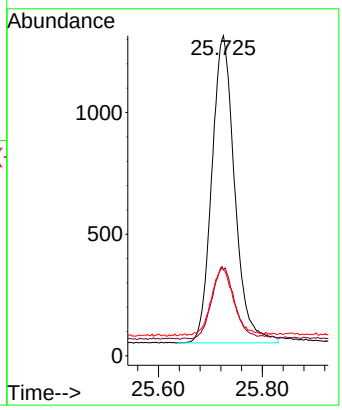





#41
Benzo(g,h,i)perylene
Concen: 0.088 ng
RT: 25.725 min Scan# 3
Delta R.T. 0.003 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:276 Resp: 386

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 26.9 | 19.9 | 29.9 |
| 138 | 26.8 | 17.8 | 26.8# |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.1

**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035351.D
Acq On : 27 Nov 2024 16:10
Operator : RC/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 27 22:52:33 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.2

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.308 | 152 | 2084 | 0.400 | ng | 0.00 |
| 7) Naphthalene-d8 | 10.063 | 136 | 5334 | 0.400 | ng | # 0.01 |
| 13) Acenaphthene-d10 | 13.967 | 164 | 3808 | 0.400 | ng | 0.00 |
| 19) Phenanthrene-d10 | 16.735 | 188 | 9904 | 0.400 | ng | 0.00 |
| 29) Chrysene-d12 | 20.974 | 240 | 9963 | 0.400 | ng | 0.00 |
| 35) Perylene-d12 | 23.070 | 264 | 11158 | 0.400 | ng | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 4) 2-Fluorophenol | 4.968 | 112 | 1159 | 0.219 | ng | 0.00 |
| 5) Phenol-d6 | 6.513 | 99 | 1236 | 0.186 | ng | 0.00 |
| 8) Nitrobenzene-d5 | 8.450 | 82 | 618m | 0.133 | ng | 0.01 |
| 11) 2-Methylnaphthalene-d10 | 11.661 | 152 | 1608 | 0.169 | ng | 0.00 |
| 14) 2,4,6-Tribromophenol | 15.475 | 330 | 492 | 0.179 | ng | 0.00 |
| 15) 2-Fluorobiphenyl | 12.574 | 172 | 2838 | 0.184 | ng | 0.00 |
| 27) Fluoranthene-d10 | 18.784 | 212 | 5379 | 0.177 | ng | 0.00 |
| 31) Terphenyl-d14 | 19.416 | 244 | 3871 | 0.185 | ng | 0.00 |
| **Target Compounds** | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.003 | 88 | 435 | 0.230 | ng | # 95 |
| 3) n-Nitrosodimethylamine | 3.299 | 42 | 315 | 0.179 | ng | # 87 |
| 6) bis(2-Chloroethyl)ether | 6.759 | 93 | 1064 | 0.214 | ng | 99 |
| 9) Naphthalene | 10.105 | 128 | 2744 | 0.197 | ng | 96 |
| 10) Hexachlorobutadiene | 10.404 | 225 | 646 | 0.158 | ng | # 99 |
| 12) 2-Methylnaphthalene | 11.737 | 142 | 1910 | 0.186 | ng | 98 |
| 16) Acenaphthylene | 13.678 | 152 | 3047 | 0.187 | ng | 99 |
| 17) Acenaphthene | 14.031 | 154 | 2064 | 0.194 | ng | 99 |
| 18) Fluorene | 15.026 | 166 | 2949 | 0.188 | ng | 99 |
| 20) 4,6-Dinitro-2-methylph... | 15.132 | 198 | 153 | 0.074 | ng | # 53 |
| 21) 4-Bromophenyl-phenylether | 15.941 | 248 | 1081 | 0.171 | ng | 96 |
| 22) Hexachlorobenzene | 16.040 | 284 | 1318 | 0.201 | ng | 98 |
| 23) Atrazine | 16.227 | 200 | 770 | 0.136 | ng | 93 |
| 24) Pentachlorophenol | 16.400 | 266 | 445 | 0.145 | ng | # 84 |
| 25) Phenanthrene | 16.773 | 178 | 5182 | 0.199 | ng | 99 |
| 26) Anthracene | 16.860 | 178 | 4571 | 0.191 | ng | 100 |
| 28) Fluoranthene | 18.817 | 202 | 6914 | 0.193 | ng | 100 |
| 30) Pyrene | 19.184 | 202 | 7198 | 0.217 | ng | 100 |
| 32) Benzo(a)anthracene | 20.956 | 228 | 6691 | 0.193 | ng | 99 |
| 33) Chrysene | 21.009 | 228 | 7234 | 0.211 | ng | 99 |
| 34) Bis(2-ethylhexyl)phtha... | 20.938 | 149 | 2779 | 0.153 | ng | # 99 |
| 36) Indeno(1,2,3-cd)pyrene | 25.108 | 276 | 8305 | 0.187 | ng | 100 |
| 37) Benzo(b)fluoranthene | 22.456 | 252 | 7522 | 0.200 | ng | # 94 |
| 38) Benzo(k)fluoranthene | 22.497 | 252 | 7675m | 0.204 | ng | |
| 39) Benzo(a)pyrene | 22.980 | 252 | 6450 | 0.195 | ng | # 90 |
| 40) Dibenzo(a,h)anthracene | 25.128 | 278 | 6620 | 0.188 | ng | 96 |
| 41) Benzo(g,h,i)perylene | 25.725 | 276 | 6908 | 0.184 | ng | 99 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

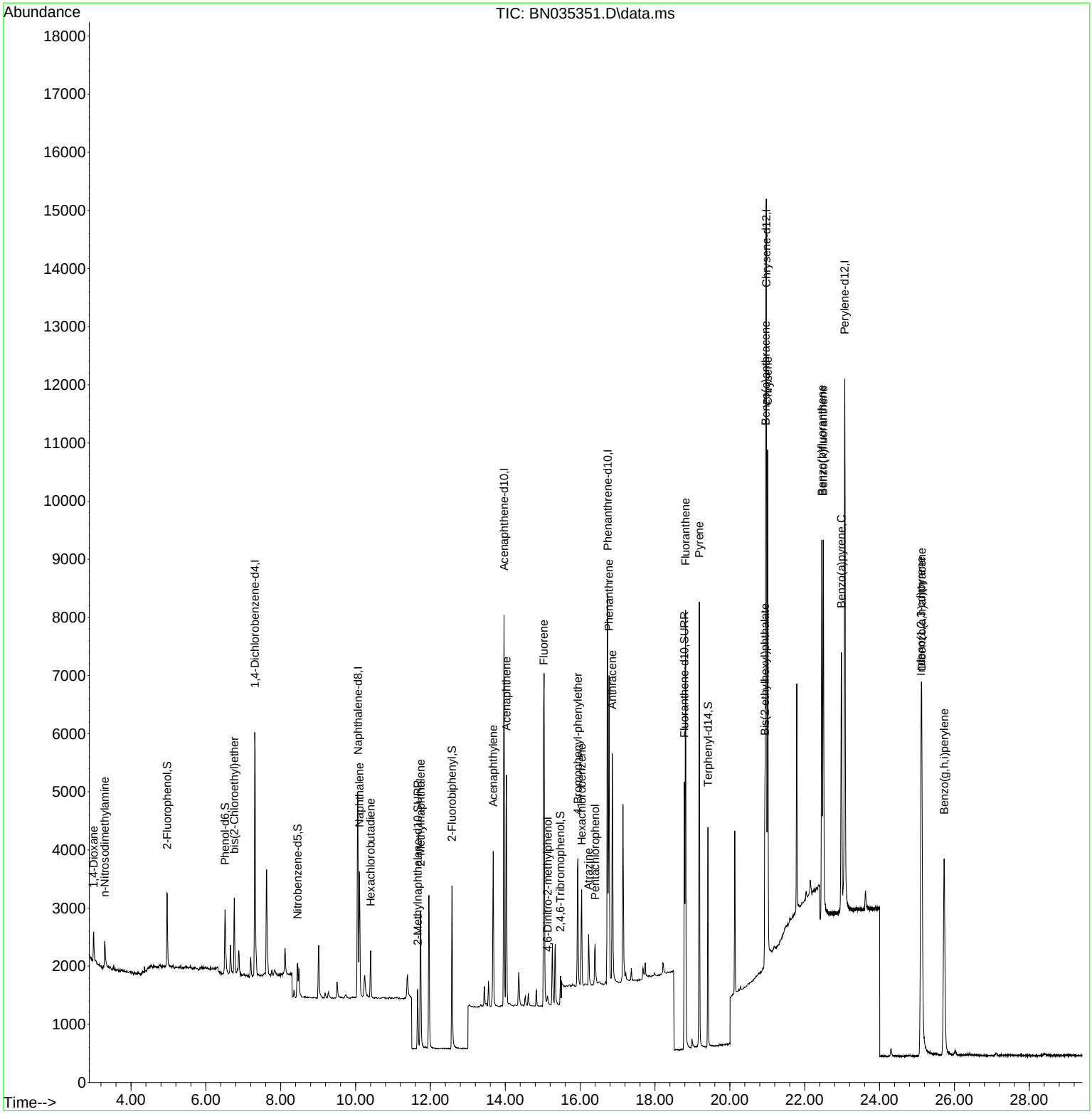
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035351.D
Acq On : 27 Nov 2024 16:10
Operator : RC/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 3 Sample Multiplier: 1

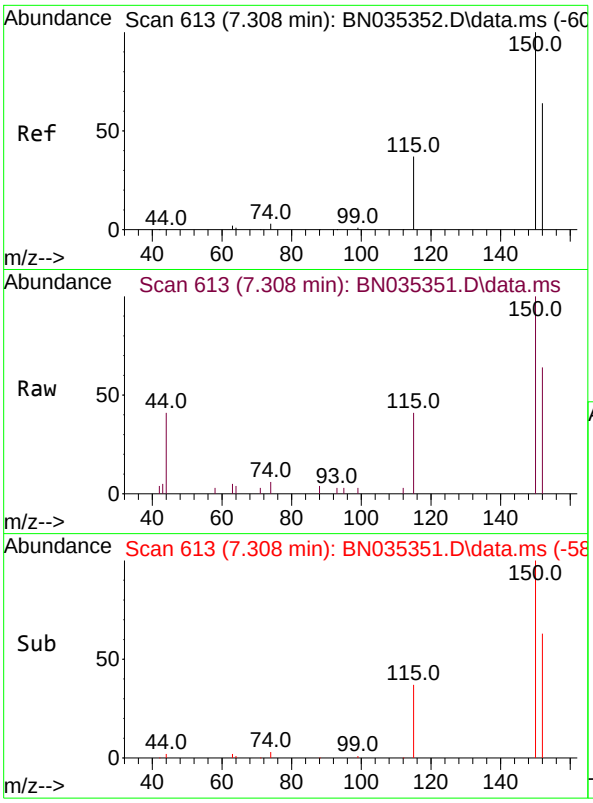
Quant Time: Nov 27 22:52:33 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.2

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

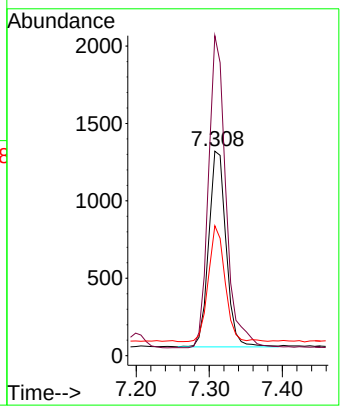





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:152 Resp: 208

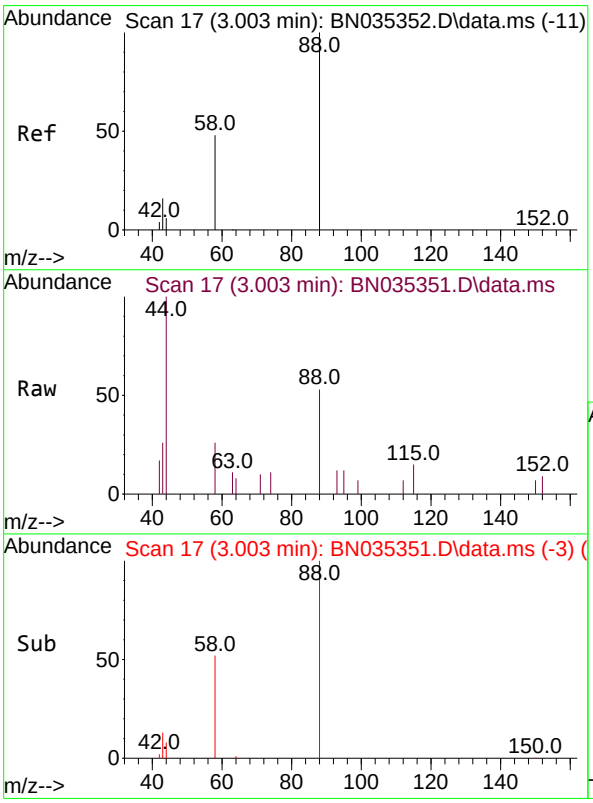
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 156.5 | 124.0 | 186.0 |
| 115 | 63.5 | 49.6 | 74.4 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.2

**Manual Integrations**
**APPROVED**

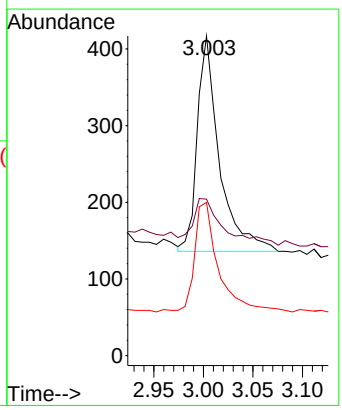
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

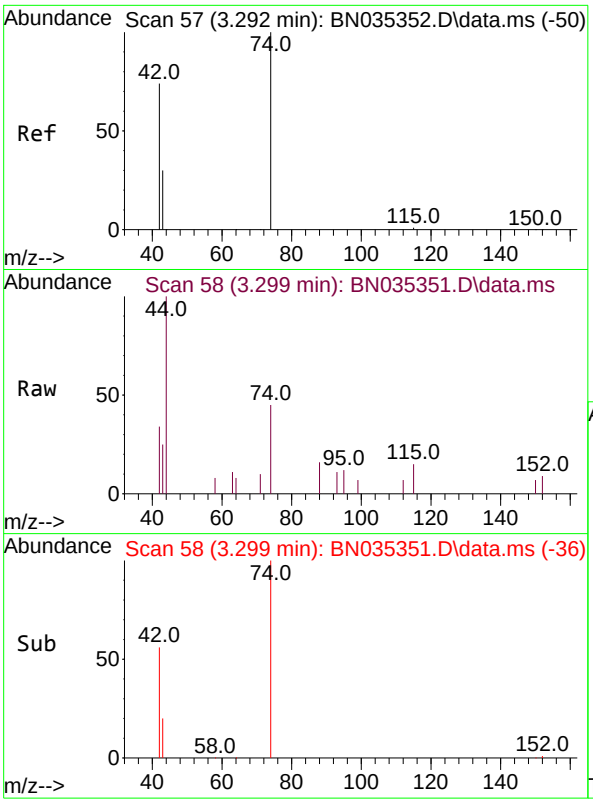



#2
1,4-Dioxane
Concen: 0.230 ng
RT: 3.003 min Scan# 17
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion: 88 Resp: 435

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 29.9 | 17.2 | 25.8# |
| 58 | 55.2 | 44.5 | 66.7 |

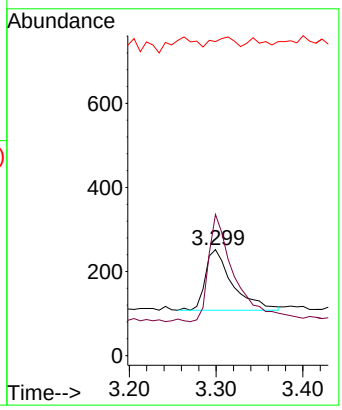





#3
n-Nitrosodimethylamine
Concen: 0.179 ng
RT: 3.299 min Scan# 5
Delta R.T. 0.007 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion: 42 Resp: 31

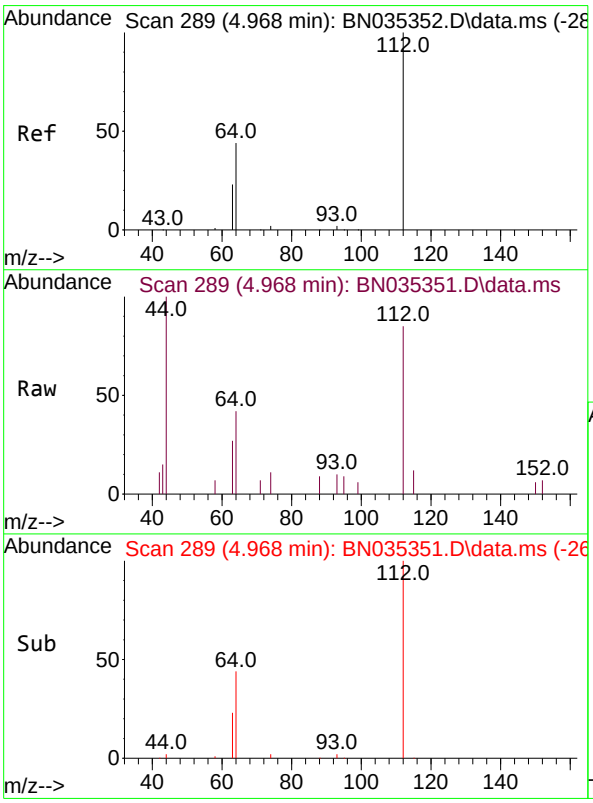
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 172.4 | 124.9 | 187.3 |
| 44 | 16.2 | 2.2 | 3.4 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.2

**Manual Integrations APPROVED**

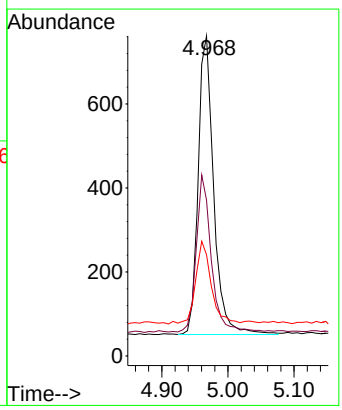
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

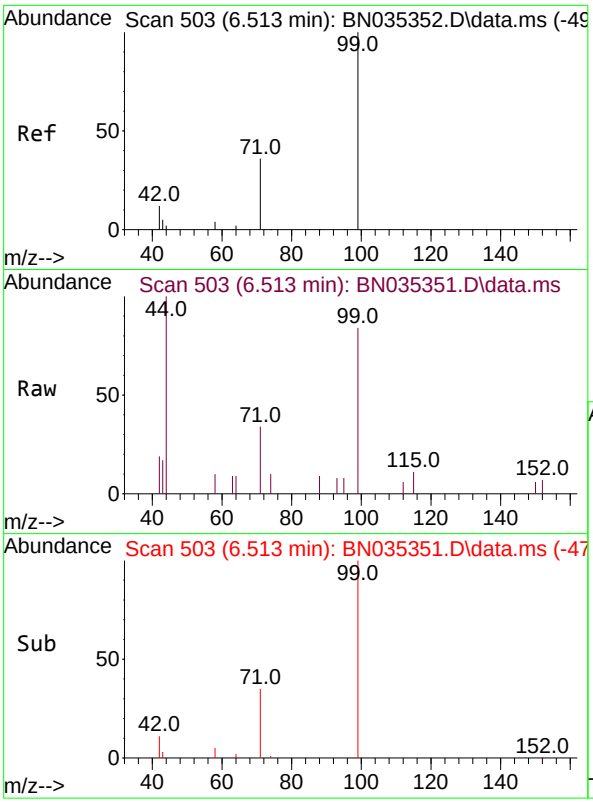



#4
2-Fluorophenol
Concen: 0.219 ng
RT: 4.968 min Scan# 289
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:112 Resp: 1159

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 51.2 | 39.8 | 59.8 |
| 63 | 27.9 | 21.0 | 31.6 |

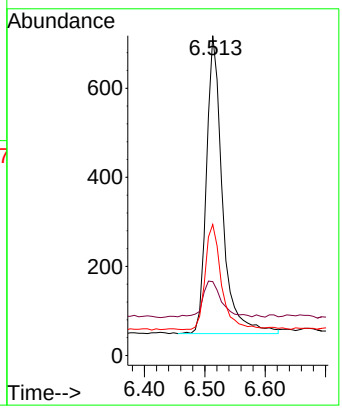





#5
Phenol-d6
Concen: 0.186 ng
RT: 6.513 min Scan# 5(
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion: 99 Resp: 123(

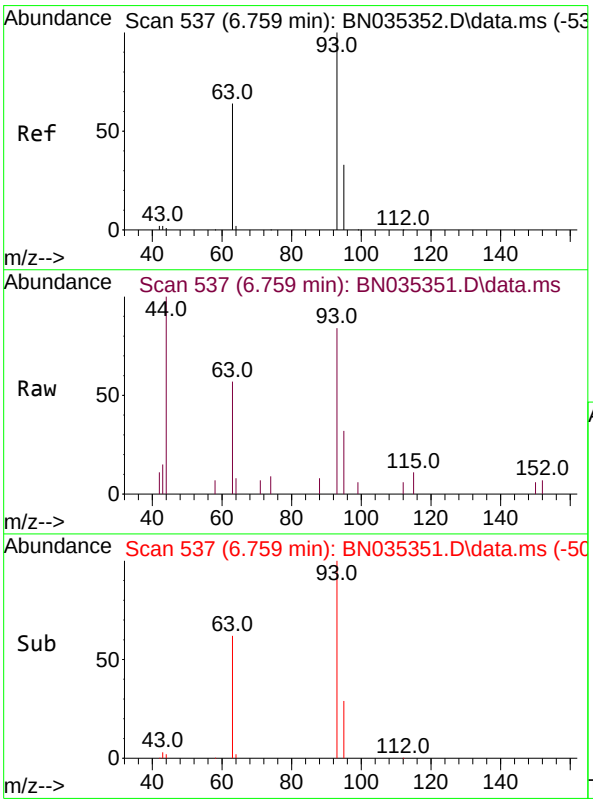
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 15.0 | 11.4 | 17.2 |
| 71 | 35.8 | 29.3 | 43.9 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.2

**Manual Integrations**
**APPROVED**

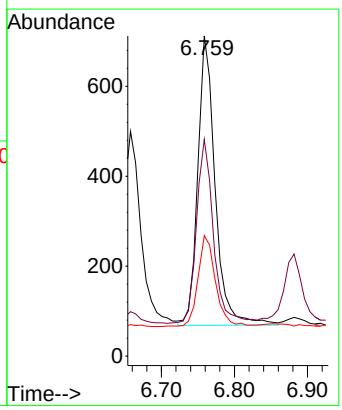
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

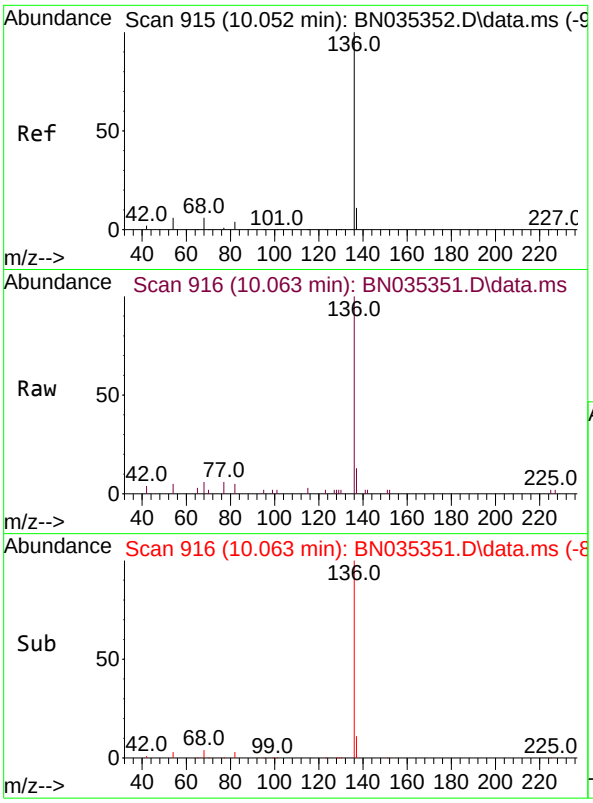



#6
bis(2-Chloroethyl)ether
Concen: 0.214 ng
RT: 6.759 min Scan# 537
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion: 93 Resp: 1064

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 62.2 | 50.4 | 75.6 |
| 95 | 31.6 | 25.7 | 38.5 |

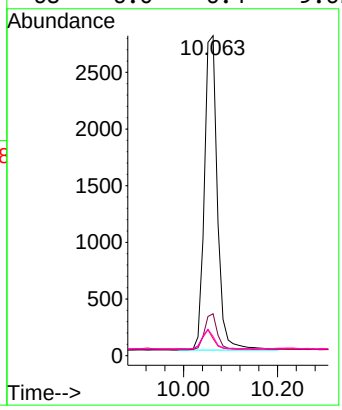





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.063 min Scan# 9
Delta R.T. 0.011 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:136 Resp: 533

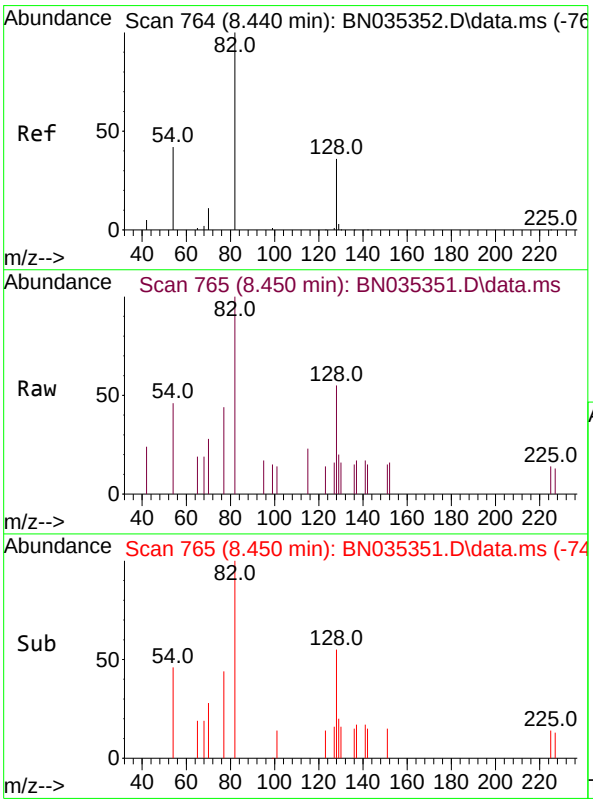
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 13.1 | 10.2 | 15.2 |
| 54 | 5.3 | 6.1 | 9.1# |
| 68 | 6.0 | 6.4 | 9.6# |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.2

**Manual Integrations APPROVED**

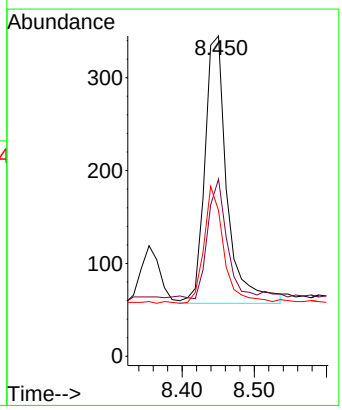
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

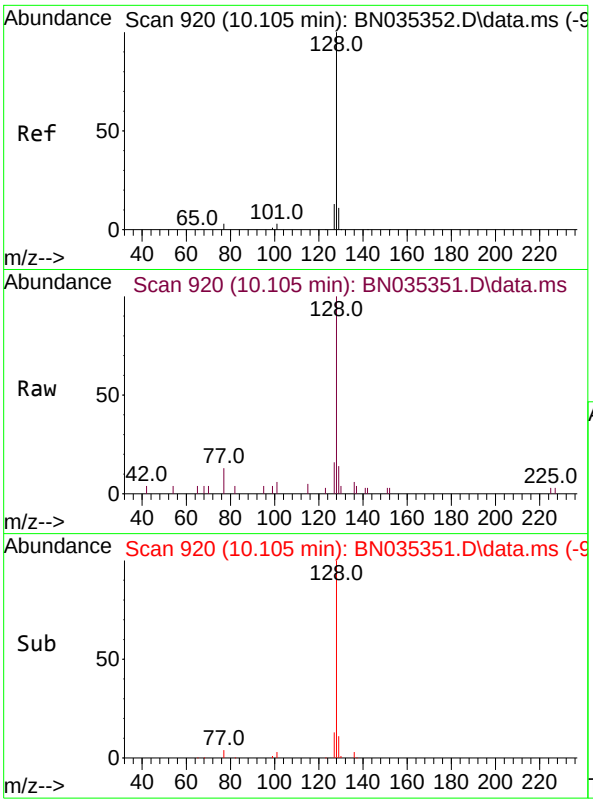



#8
Nitrobenzene-d5
Concen: 0.133 ng m
RT: 8.450 min Scan# 765
Delta R.T. 0.011 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion: 82 Resp: 618

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 55.4 | 33.4 | 50.0# |
| 54 | 45.5 | 36.7 | 55.1 |

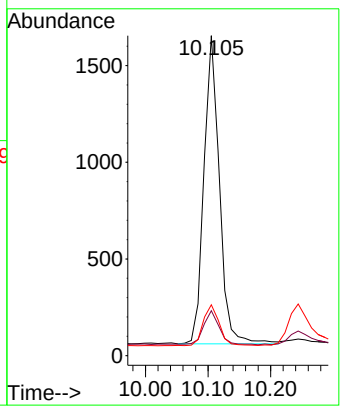





#9
Naphthalene
Concen: 0.197 ng
RT: 10.105 min Scan# 9
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:128 Resp: 274

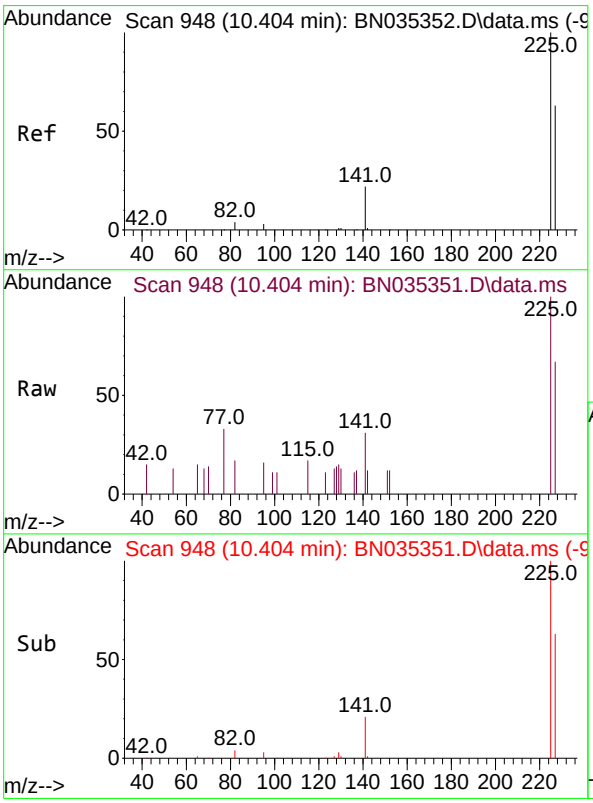
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 14.0 | 9.8 | 14.6 |
| 127 | 15.9 | 11.4 | 17.2 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.2

**Manual Integrations**
**APPROVED**

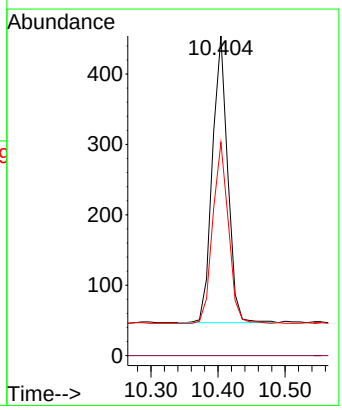
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

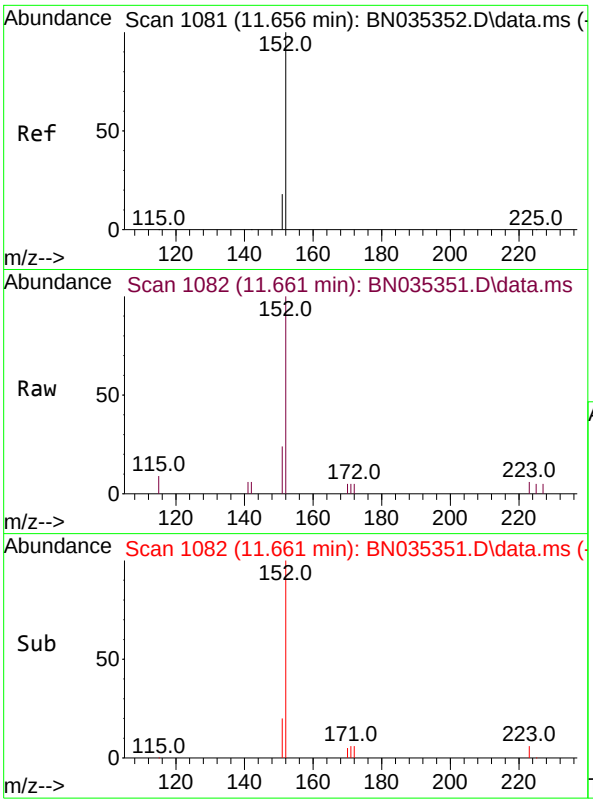



#10
Hexachlorobutadiene
Concen: 0.158 ng
RT: 10.404 min Scan# 948
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:225 Resp: 646

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 0.0 | 0.0 | 0.0 |
| 227 | 64.7 | 51.3 | 76.9 |

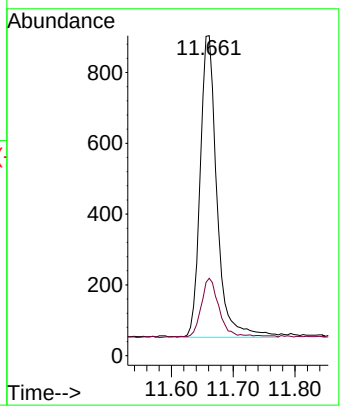





#11
2-Methylnaphthalene-d10
Concen: 0.169 ng
RT: 11.661 min Scan# 1
Delta R.T. 0.005 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:152 Resp: 160

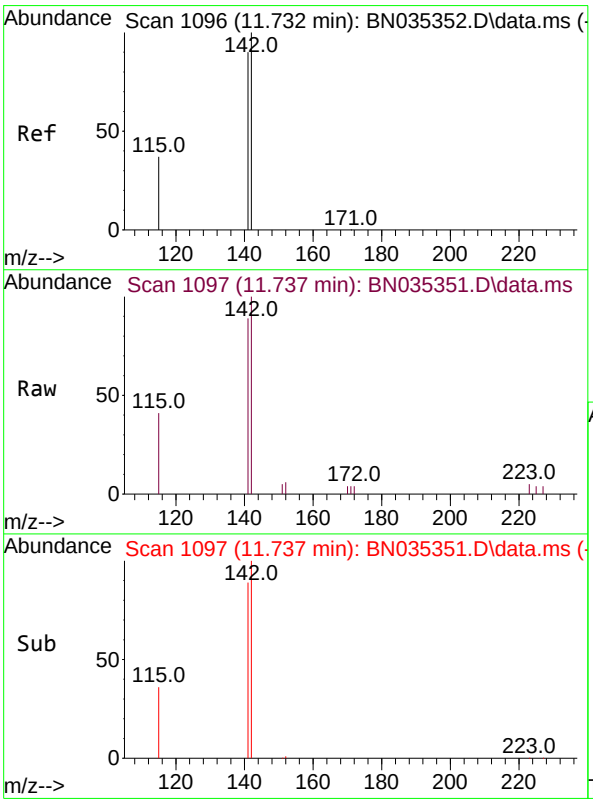
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 22.3 | 16.6 | 25.0 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.2

**Manual Integrations**
**APPROVED**

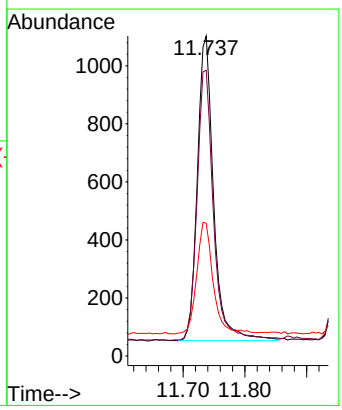
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

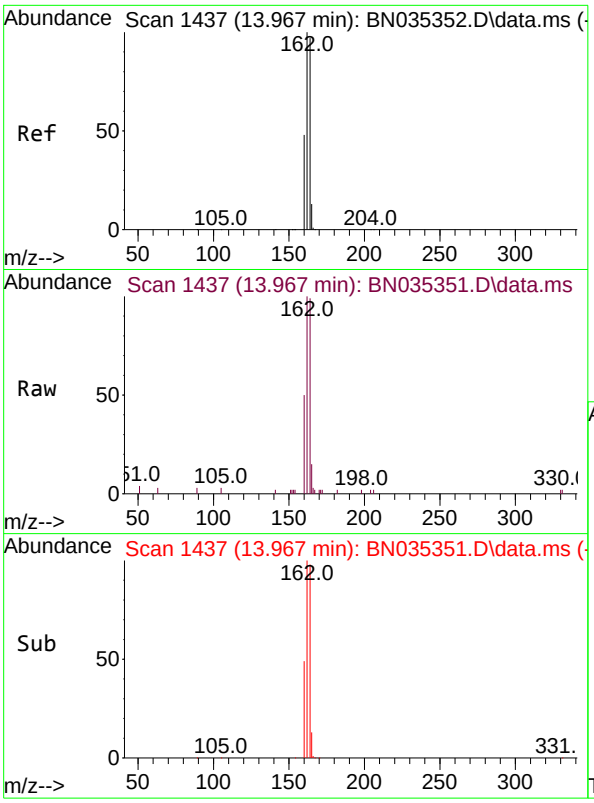



#12
2-Methylnaphthalene
Concen: 0.186 ng
RT: 11.737 min Scan# 1097
Delta R.T. 0.005 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:142 Resp: 1910

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 89.3 | 72.2 | 108.4 |
| 115 | 41.4 | 31.4 | 47.0 |

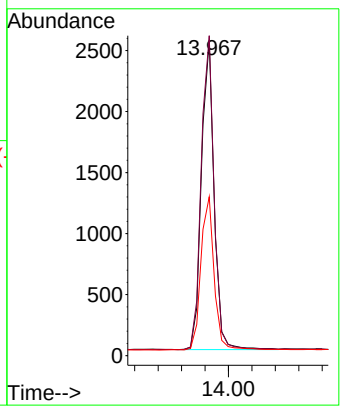





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:164 Resp: 380

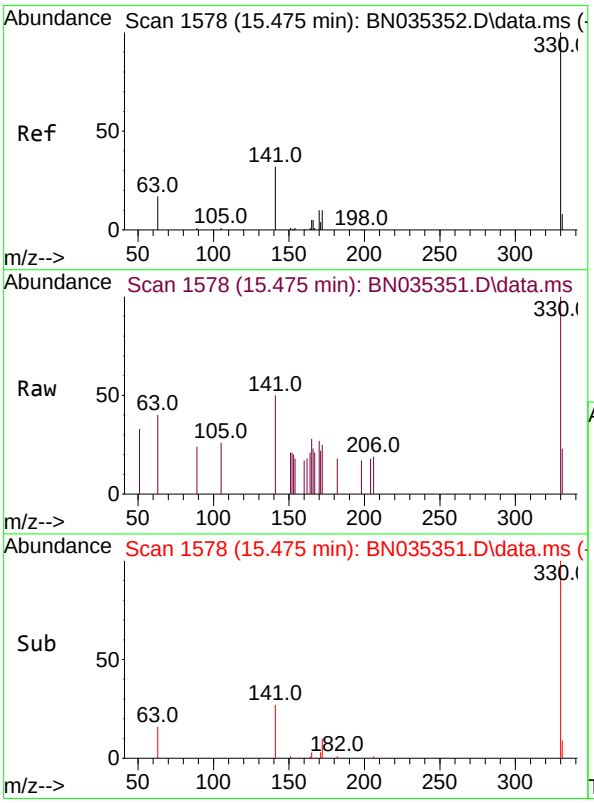
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 101.5 | 82.2 | 123.2 |
| 160 | 50.4 | 40.1 | 60.1 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.2

**Manual Integrations**
**APPROVED**

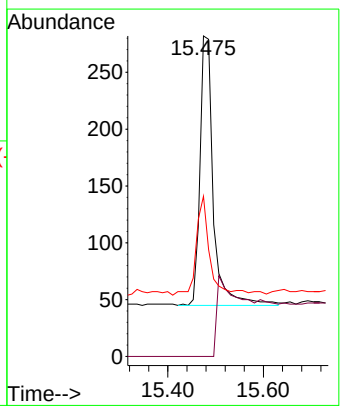
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

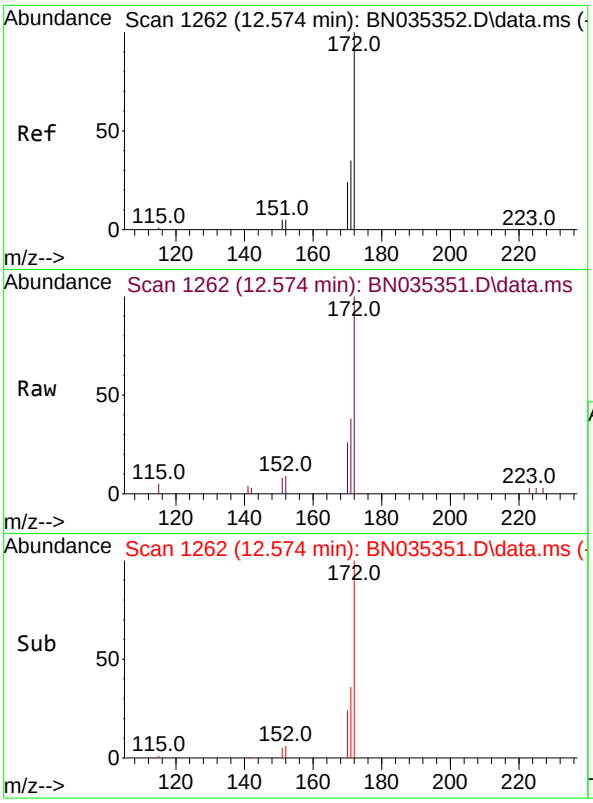



#14
2,4,6-Tribromophenol
Concen: 0.179 ng
RT: 15.475 min Scan# 1578
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:330 Resp: 492

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 0.0 | 0.0 | 0.0 |
| 141 | 37.2 | 26.6 | 40.0 |

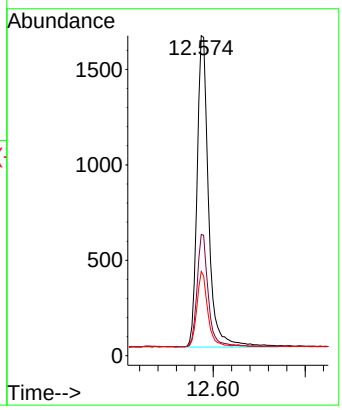





#15
2-Fluorobiphenyl
Concen: 0.184 ng
RT: 12.574 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:172 Resp: 283

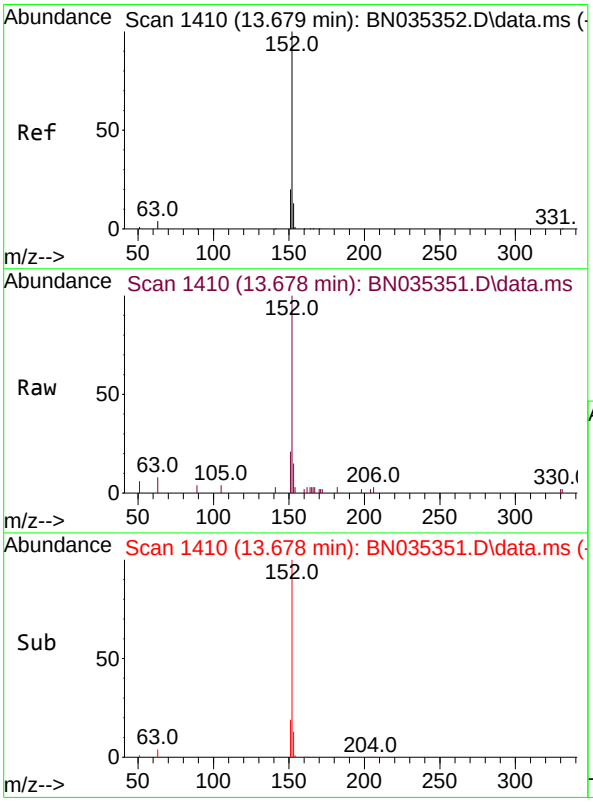
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 37.9 | 29.0 | 43.4 |
| 170 | 26.3 | 19.8 | 29.8 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.2

**Manual Integrations APPROVED**

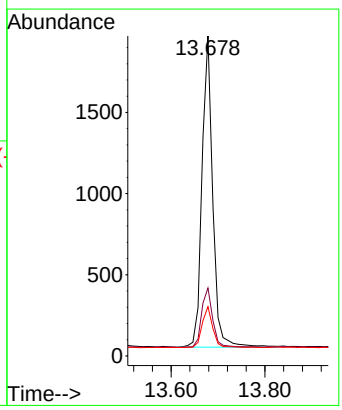
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

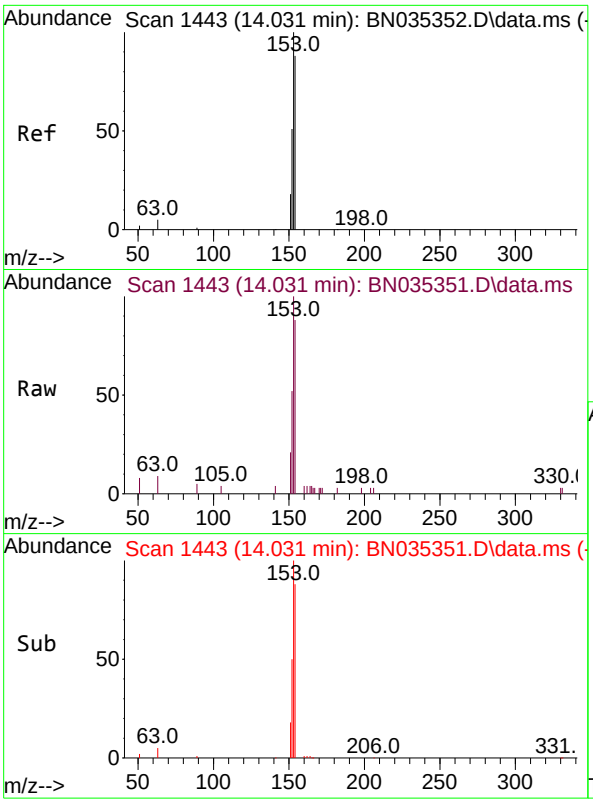



#16
Acenaphthylene
Concen: 0.187 ng
RT: 13.678 min Scan# 1410
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:152 Resp: 3047

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 19.8 | 16.2 | 24.2 |
| 153 | 12.9 | 10.4 | 15.6 |

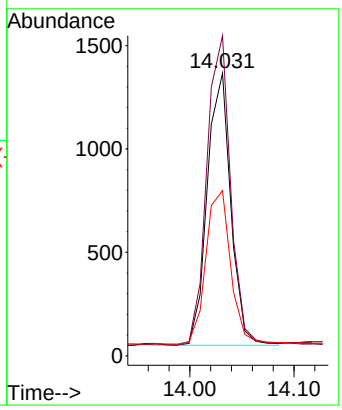





#17
Acenaphthene
Concen: 0.194 ng
RT: 14.031 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:154 Resp: 206

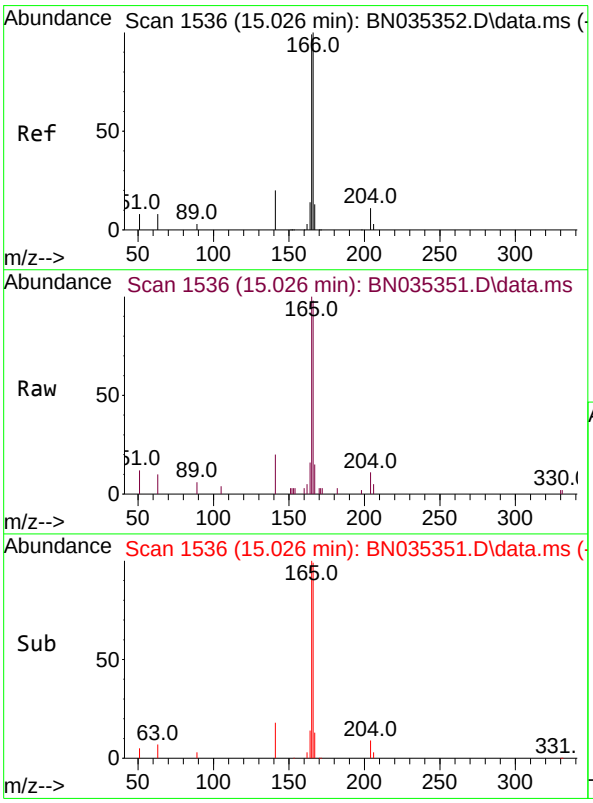
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 115.2 | 92.6 | 139.0 |
| 152 | 60.7 | 49.0 | 73.6 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.2

**Manual Integrations**
**APPROVED**

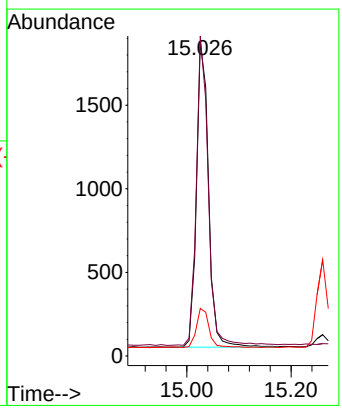
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

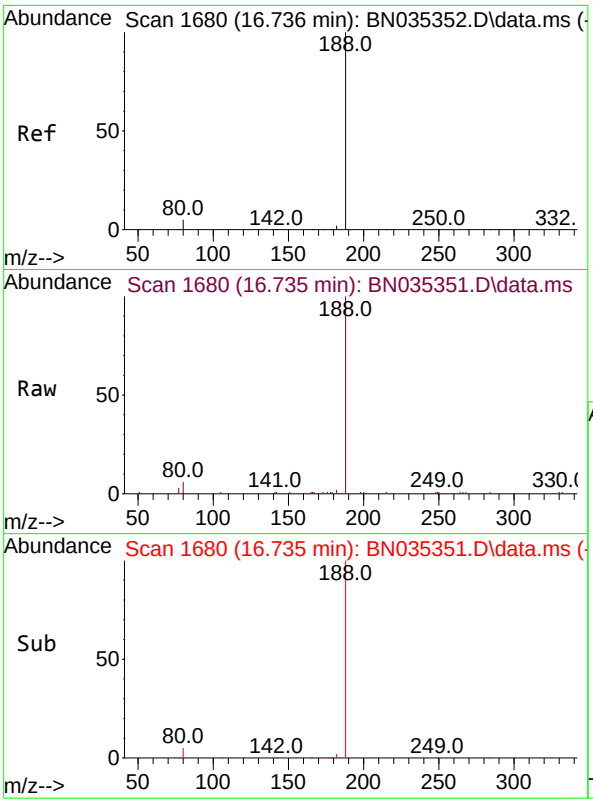



#18
Fluorene
Concen: 0.188 ng
RT: 15.026 min Scan# 1536
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:166 Resp: 2949

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 99.1 | 79.7 | 119.5 |
| 167 | 14.1 | 10.8 | 16.2 |

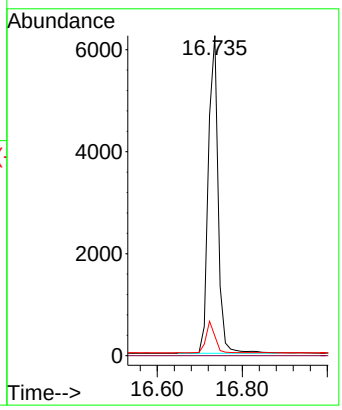





#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.735 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:188 Resp: 990

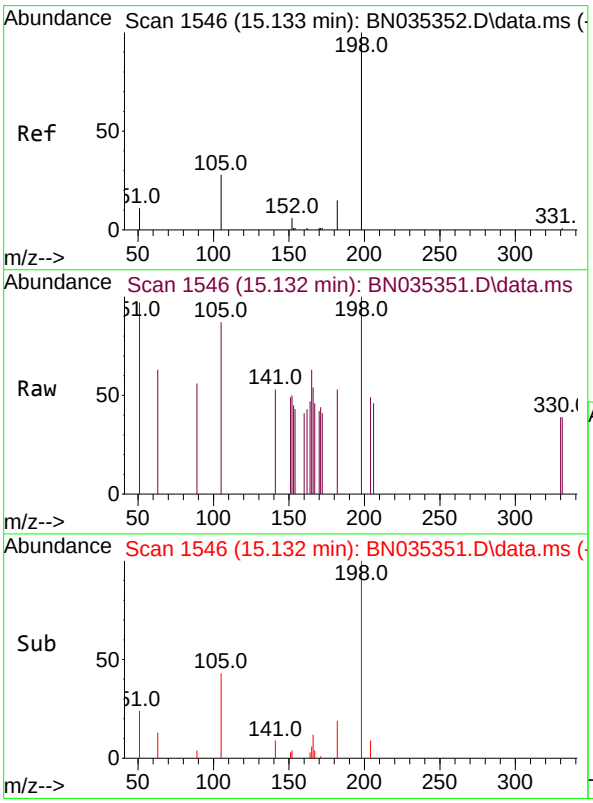
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 6.2 | 4.6 | 6.8 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.2

**Manual Integrations APPROVED**

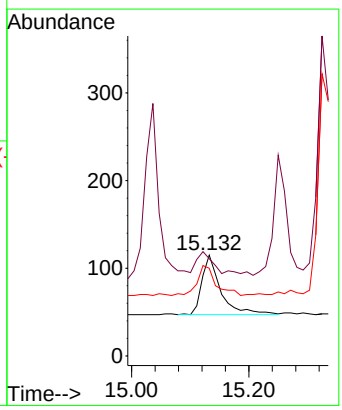
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

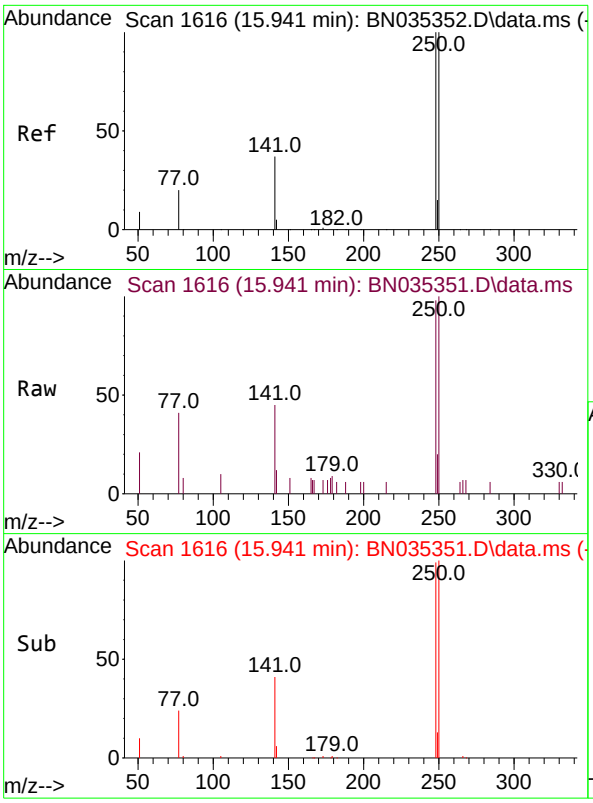



#20
4,6-Dinitro-2-methylphenol
Concen: 0.074 ng
RT: 15.132 min Scan# 1546
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:198 Resp: 153

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 198 | 100 | | |
| 51 | 96.5 | 46.5 | 69.7# |
| 105 | 87.0 | 45.3 | 67.9# |

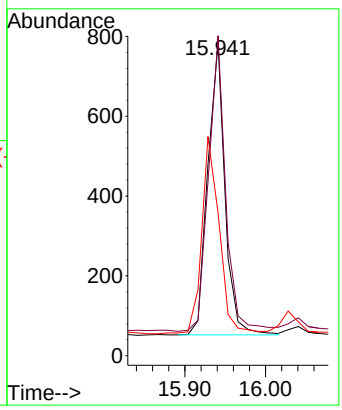





#21
4-Bromophenyl-phenylether
Concen: 0.171 ng
RT: 15.941 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:248 Resp: 108

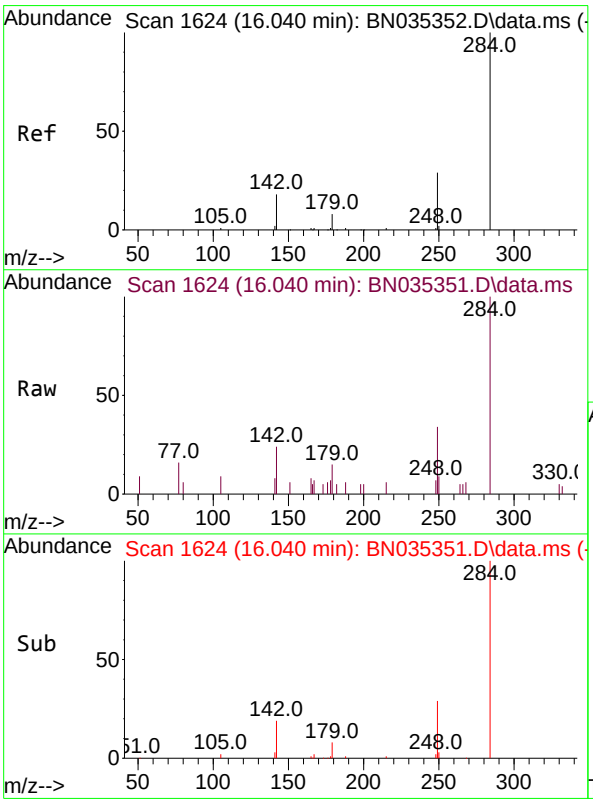
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 102.3 | 80.6 | 120.8 |
| 141 | 45.7 | 31.5 | 47.3 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.2

**Manual Integrations APPROVED**

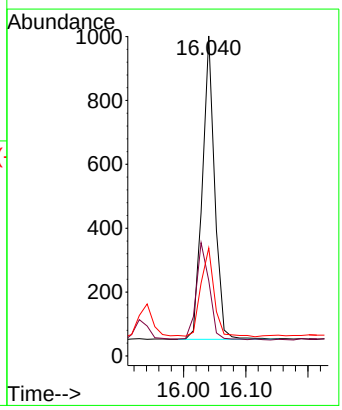
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

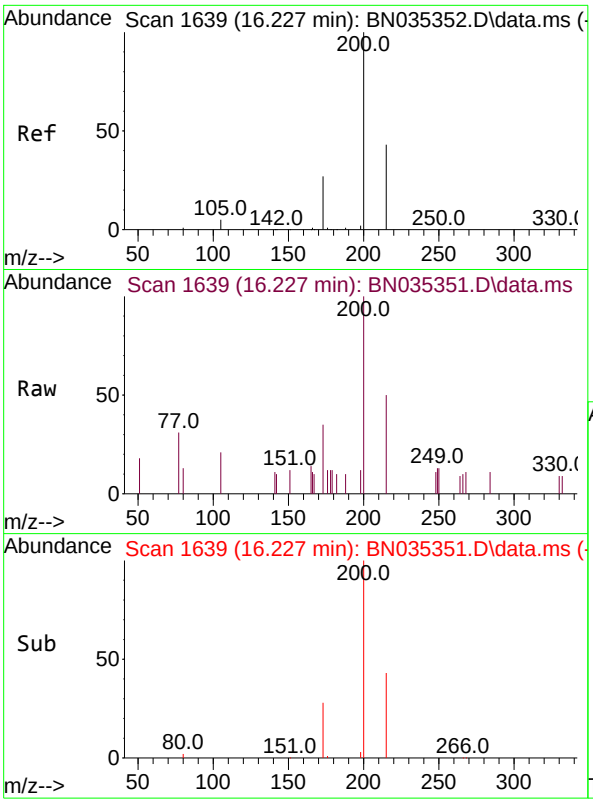



#22
Hexachlorobenzene
Concen: 0.201 ng
RT: 16.040 min Scan# 1624
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:284 Resp: 1318

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 34.2 | 26.7 | 40.1 |
| 249 | 32.0 | 24.6 | 36.8 |

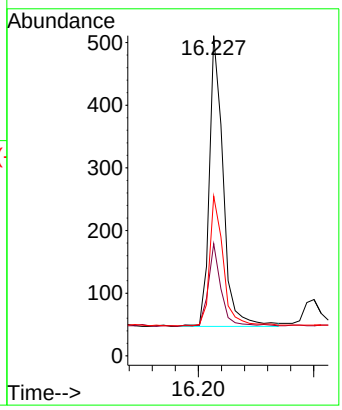





#23
Atrazine
Concen: 0.136 ng
RT: 16.227 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:200 Resp: 77(

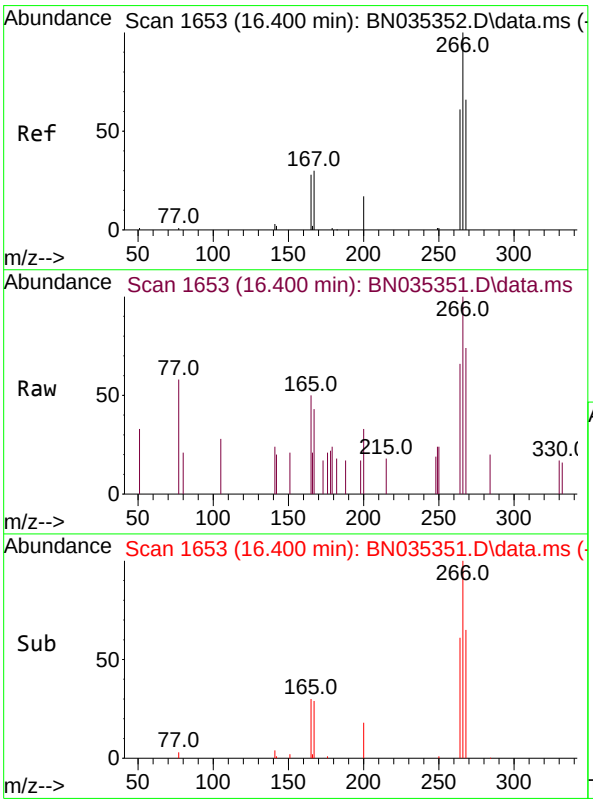
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 173 | 35.0 | 24.1 | 36.1 |
| 215 | 49.9 | 36.9 | 55.3 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.2

**Manual Integrations APPROVED**

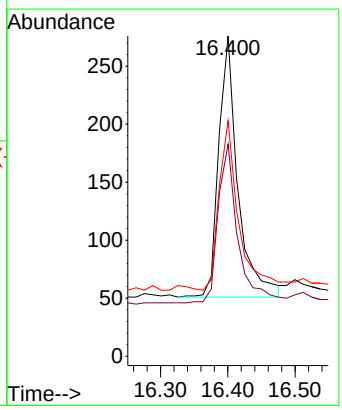
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

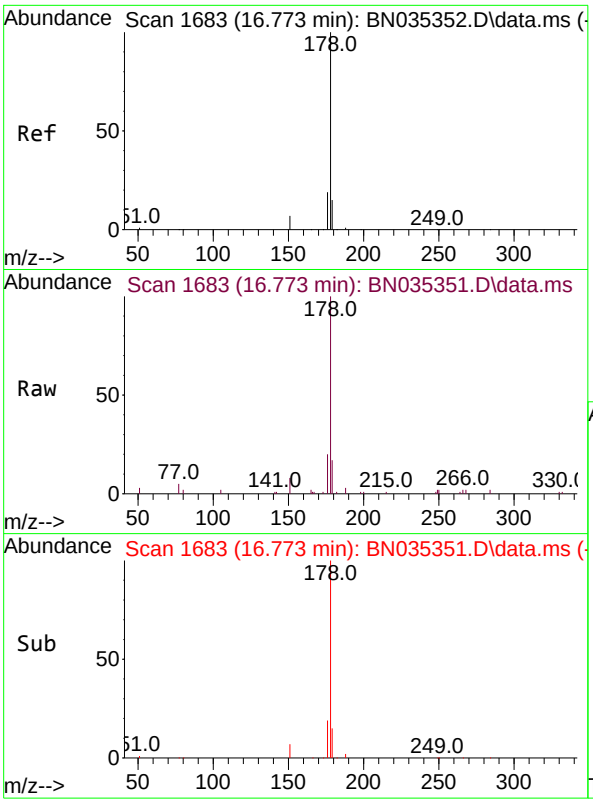



#24
Pentachlorophenol
Concen: 0.145 ng
RT: 16.400 min Scan# 1653
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:266 Resp: 445

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 264 | 62.7 | 42.3 | 63.5 |
| 268 | 67.2 | 43.3 | 64.9# |

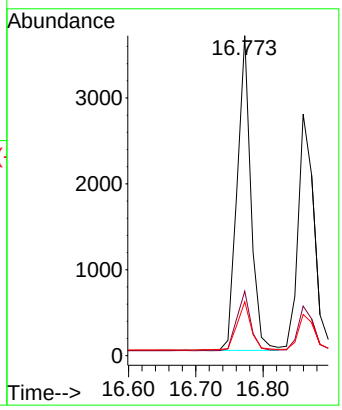





#25
Phenanthrene
Concen: 0.199 ng
RT: 16.773 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:178 Resp: 518

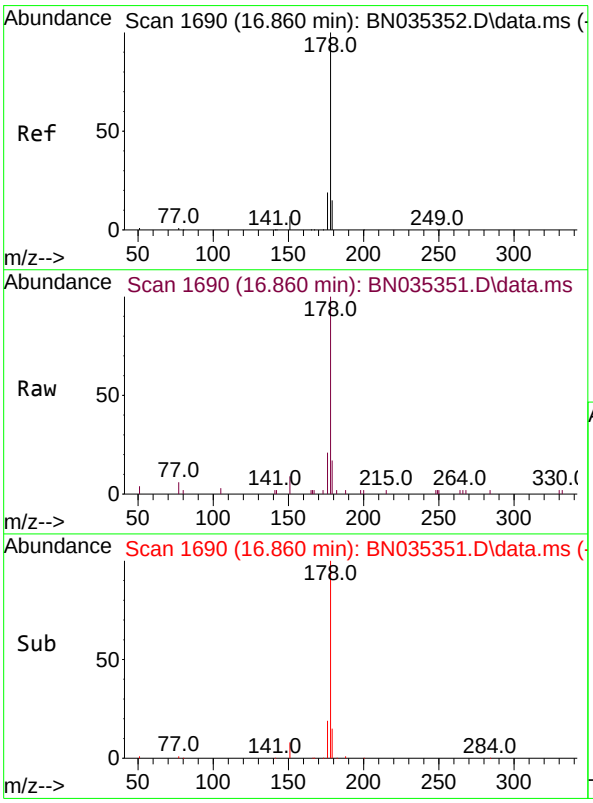
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.9 | 15.4 | 23.2 |
| 179 | 15.9 | 12.3 | 18.5 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.2

**Manual Integrations APPROVED**

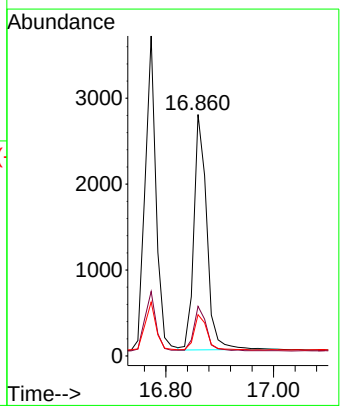
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

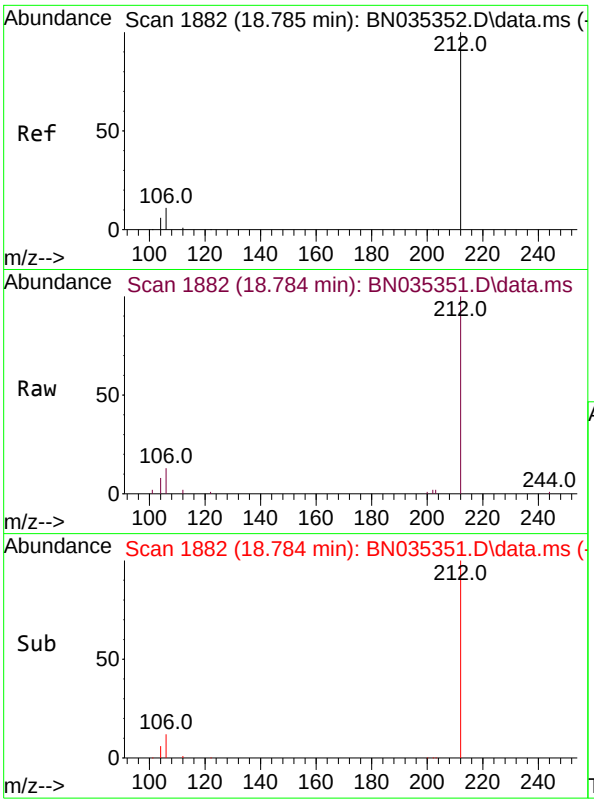



#26
Anthracene
Concen: 0.191 ng
RT: 16.860 min Scan# 1690
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:178 Resp: 4571

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.7 | 15.0 | 22.6 |
| 179 | 15.4 | 12.6 | 18.8 |

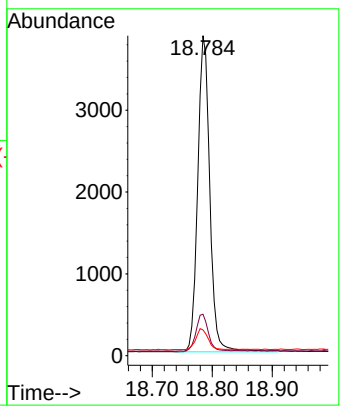





#27
Fluoranthene-d10
Concen: 0.177 ng
RT: 18.784 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:212 Resp: 537

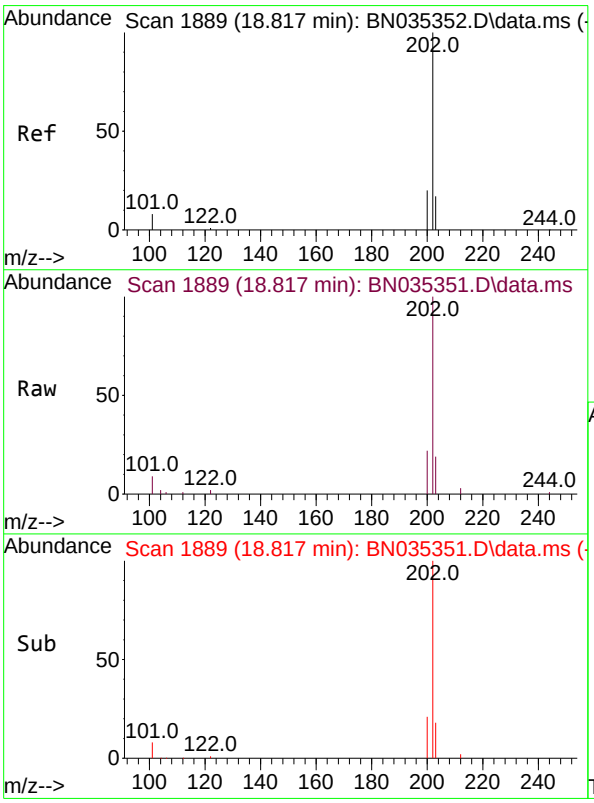
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 11.8 | 9.2 | 13.8 |
| 104 | 6.9 | 5.3 | 7.9 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.2

**Manual Integrations**
**APPROVED**

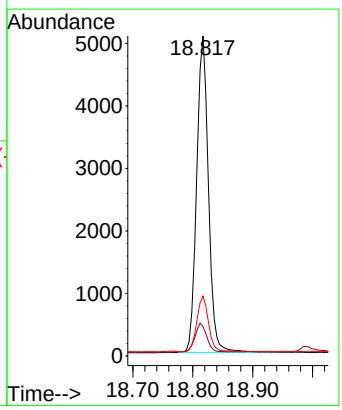
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

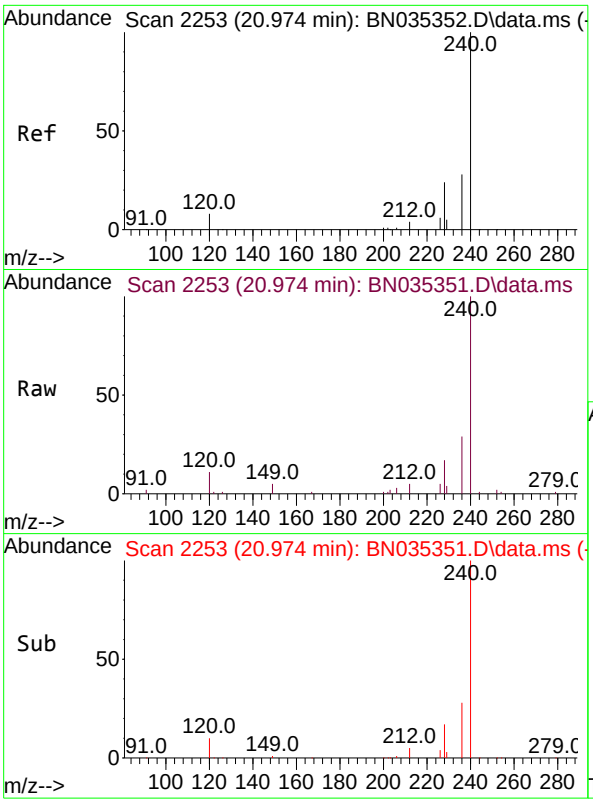



#28
Fluoranthene
Concen: 0.193 ng
RT: 18.817 min Scan# 1889
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:202 Resp: 6914

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 9.3 | 7.4 | 11.0 |
| 203 | 17.3 | 13.7 | 20.5 |

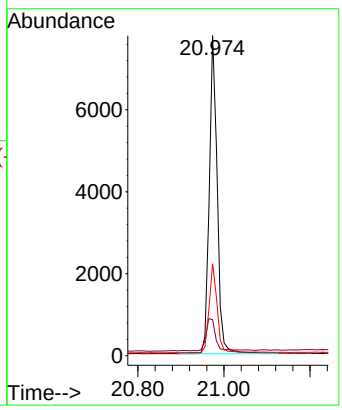





#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.974 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:240 Resp: 996

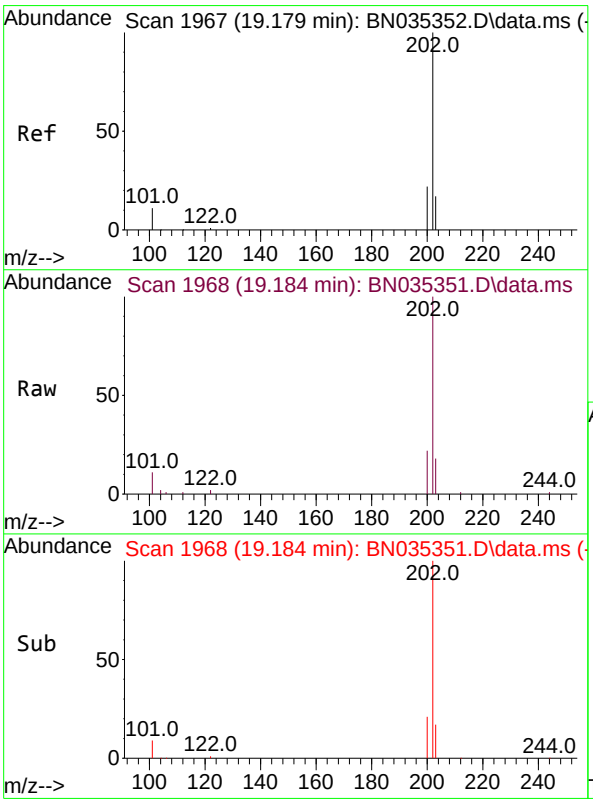
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 11.3 | 7.9 | 11.9 |
| 236 | 28.8 | 22.9 | 34.3 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.2

**Manual Integrations APPROVED**

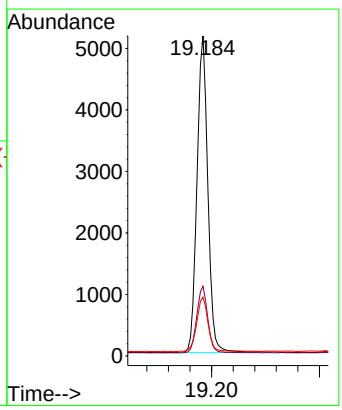
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

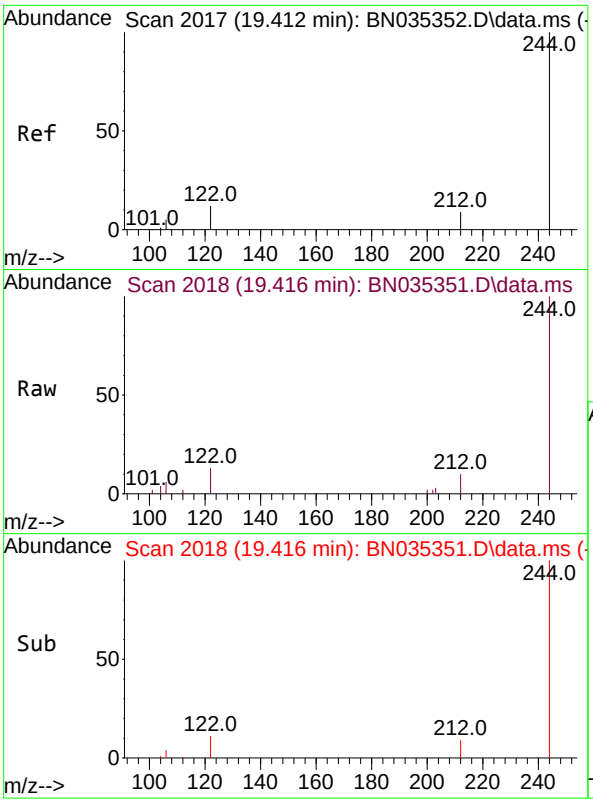



#30
Pyrene
Concen: 0.217 ng
RT: 19.184 min Scan# 1968
Delta R.T. 0.005 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:202 Resp: 7198

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.3 | 17.0 | 25.4 |
| 203 | 18.0 | 14.3 | 21.5 |

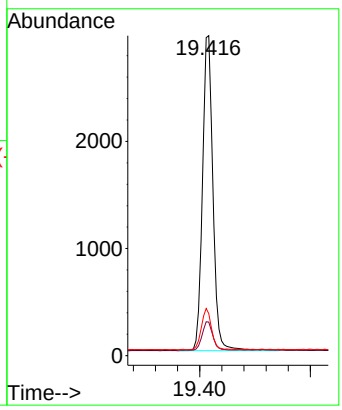





#31
Terphenyl-d14
Concen: 0.185 ng
RT: 19.416 min Scan# 2
Delta R.T. 0.005 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:244 Resp: 387

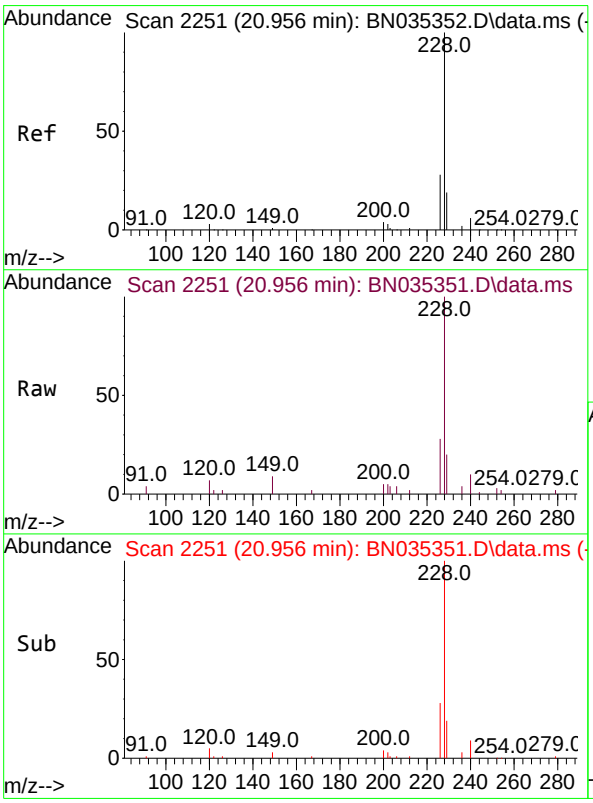
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 10.5 | 8.1 | 12.1 |
| 122 | 13.1 | 10.3 | 15.5 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.2

**Manual Integrations APPROVED**

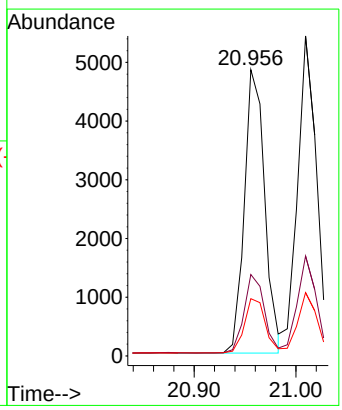
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

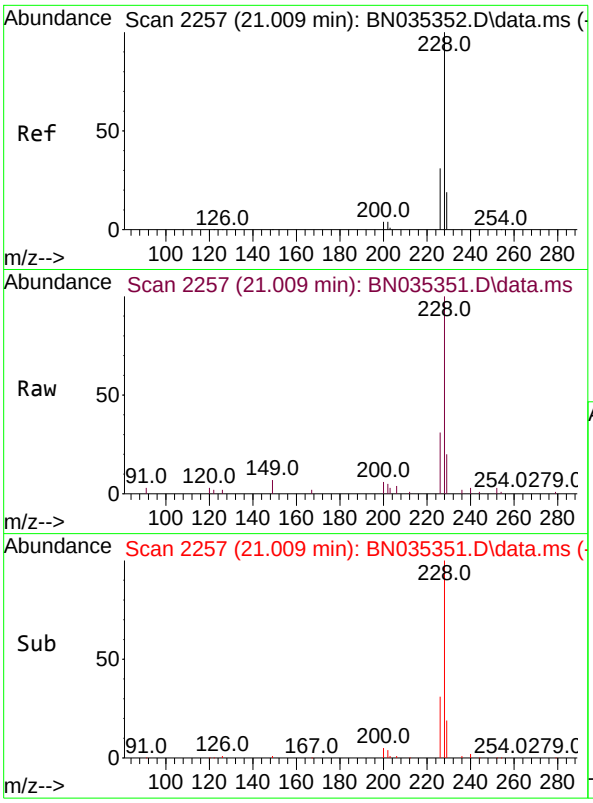



#32
Benzo(a)anthracene
Concen: 0.193 ng
RT: 20.956 min Scan# 2251
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:228 Resp: 6691

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 28.4 | 22.5 | 33.7 |
| 229 | 20.0 | 15.8 | 23.8 |

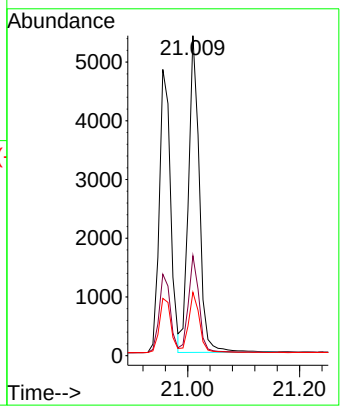





#33
Chrysene
Concen: 0.211 ng
RT: 21.009 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:228 Resp: 723

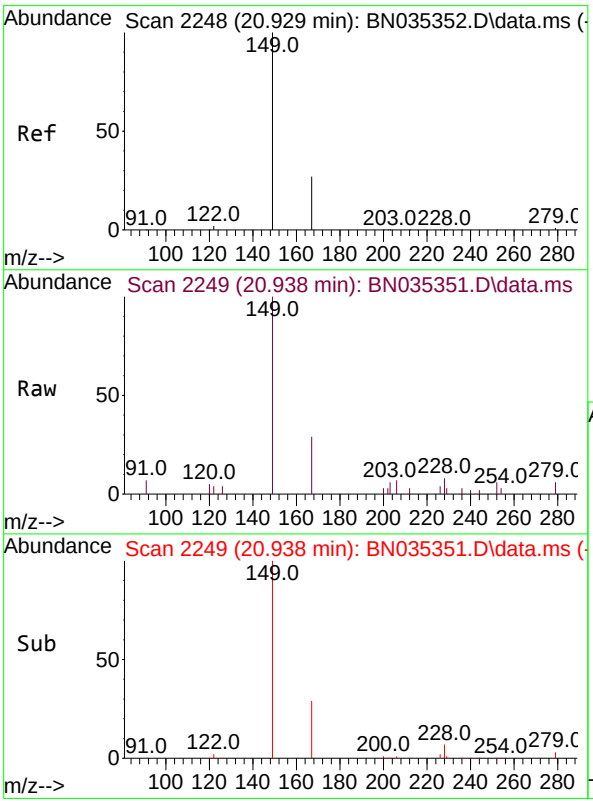
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 31.2 | 24.6 | 37.0 |
| 229 | 19.8 | 15.9 | 23.9 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.2

**Manual Integrations APPROVED**

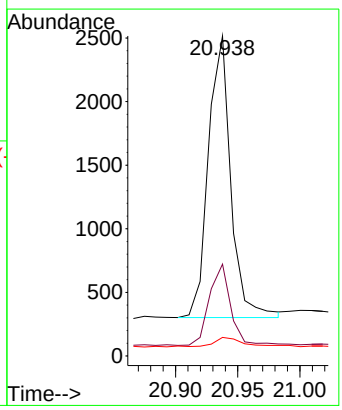
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

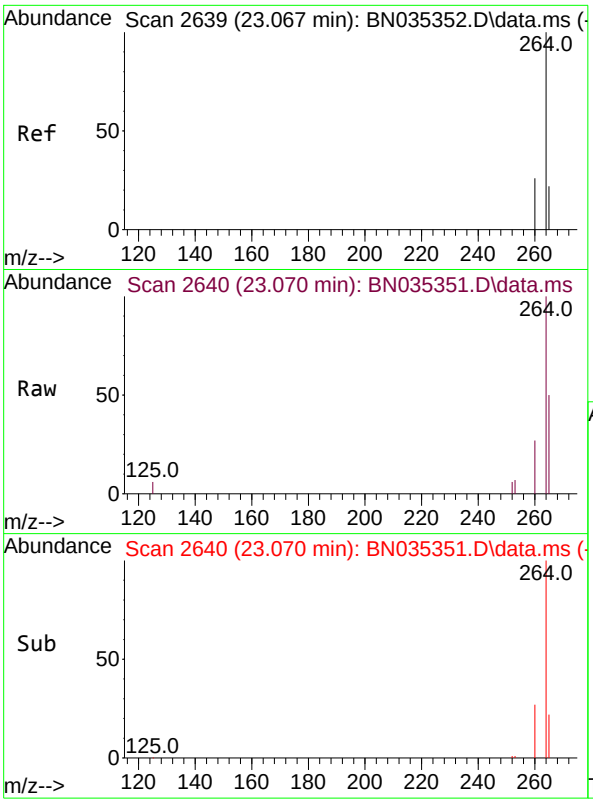



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.153 ng
RT: 20.938 min Scan# 2249
Delta R.T. 0.009 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:149 Resp: 2779

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 27.5 | 22.2 | 33.4 |
| 279 | 4.8 | 2.7 | 4.1# |

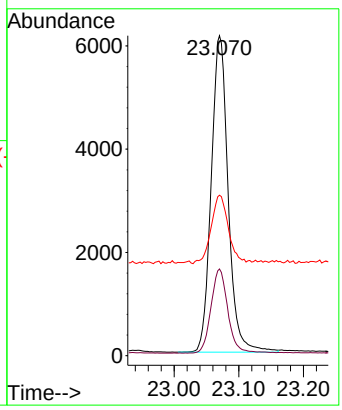





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.070 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:264 Resp: 1115

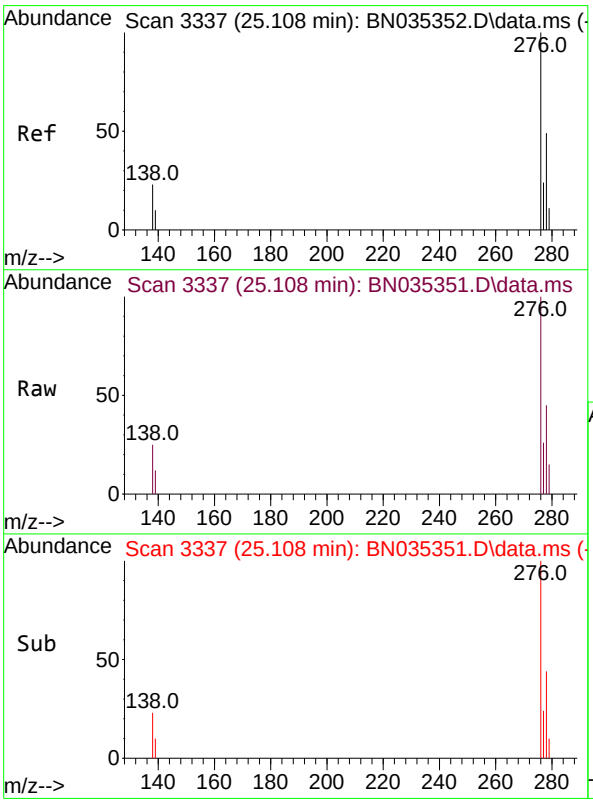
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 27.1 | 21.4 | 32.2 |
| 265 | 50.2 | 40.2 | 60.4 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.2

**Manual Integrations**
**APPROVED**

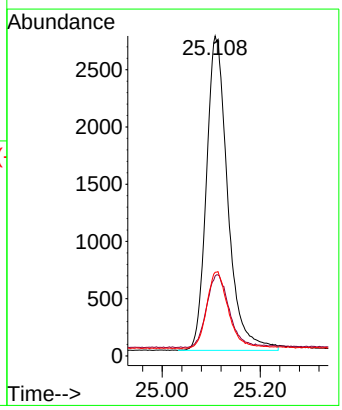
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

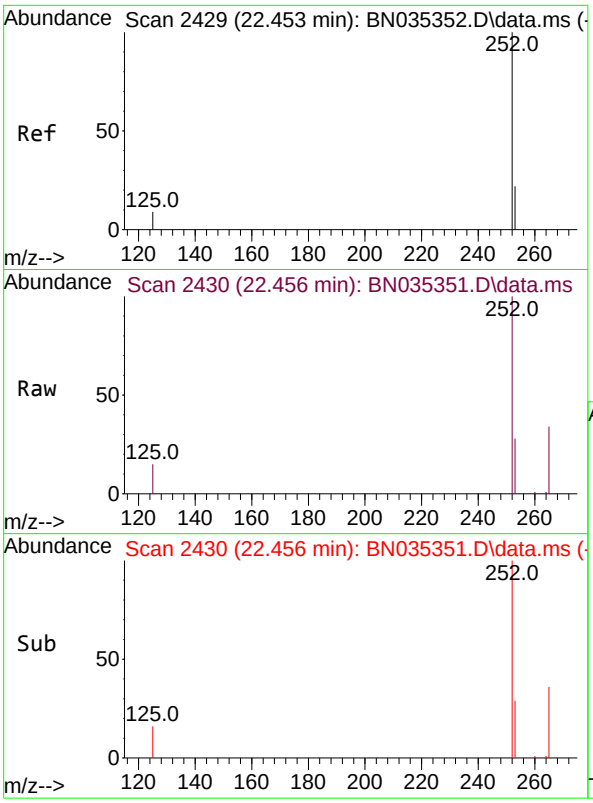



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.187 ng
RT: 25.108 min Scan# 3337
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:276 Resp: 8305

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 24.3 | 19.4 | 29.0 |
| 277 | 24.7 | 19.8 | 29.6 |

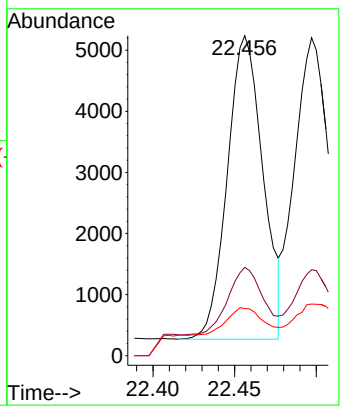





#37
Benzo(b)fluoranthene
Concen: 0.200 ng
RT: 22.456 min Scan# 24
Delta R.T. 0.003 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:252 Resp: 752

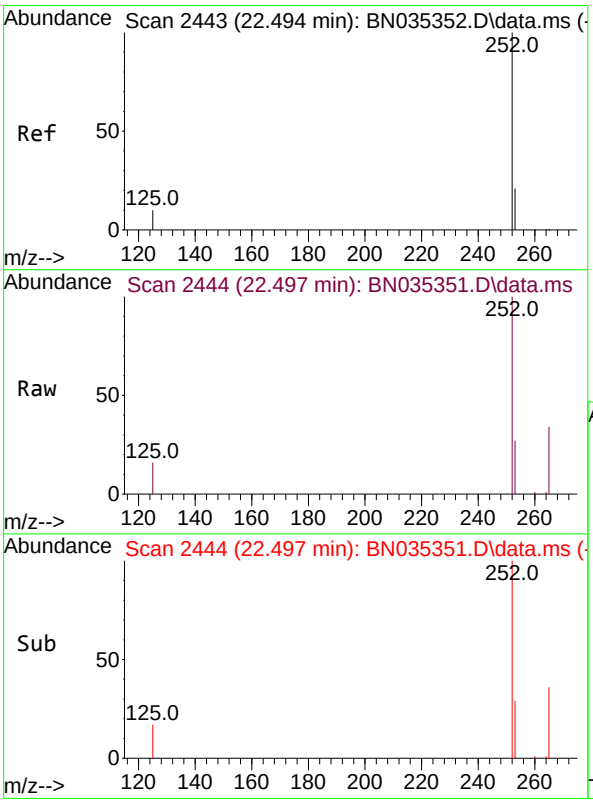
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 27.6 | 19.6 | 29.4 |
| 125 | 14.8 | 9.6 | 14.4# |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.2

**Manual Integrations**
**APPROVED**

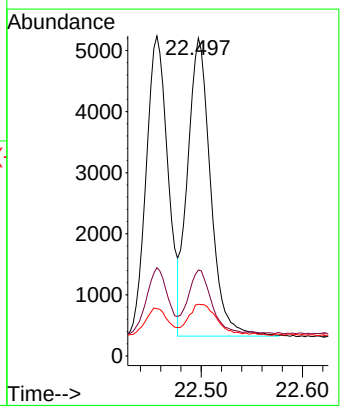
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

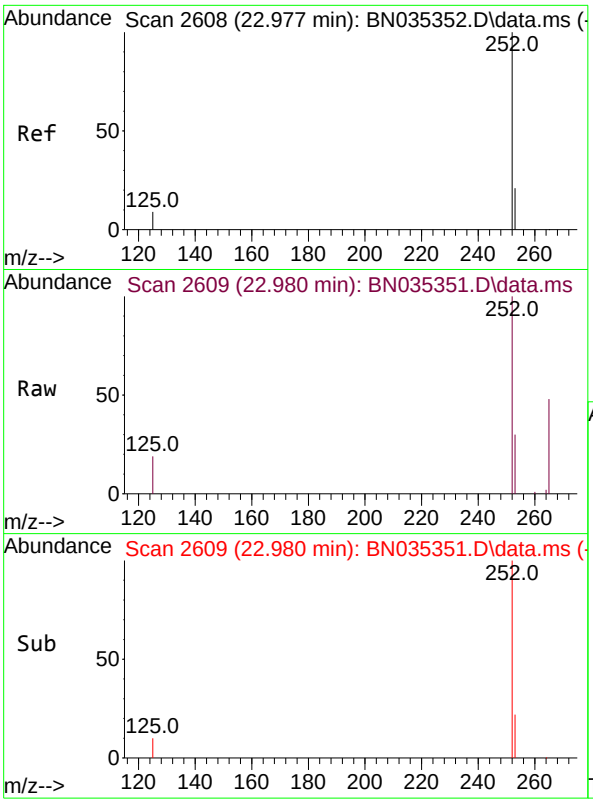



#38
Benzo(k)fluoranthene
Concen: 0.204 ng m
RT: 22.497 min Scan# 2444
Delta R.T. 0.003 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:252 Resp: 7675

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 27.0 | 19.5 | 29.3 |
| 125 | 16.2 | 10.2 | 15.4# |

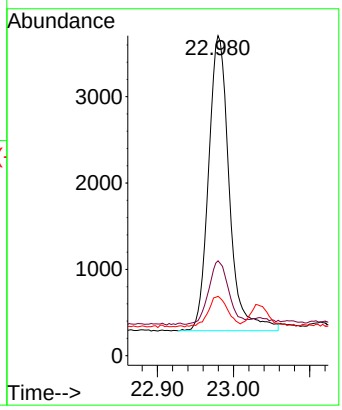





#39
Benzo(a)pyrene
Concen: 0.195 ng
RT: 22.980 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:252 Resp: 645

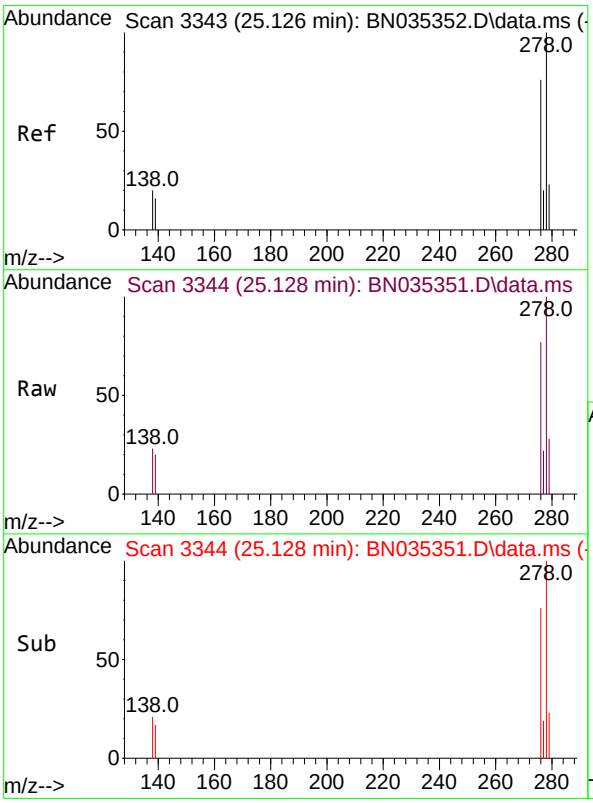
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 29.7 | 20.2 | 30.4 |
| 125 | 18.5 | 10.9 | 16.3 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.2

**Manual Integrations**
**APPROVED**

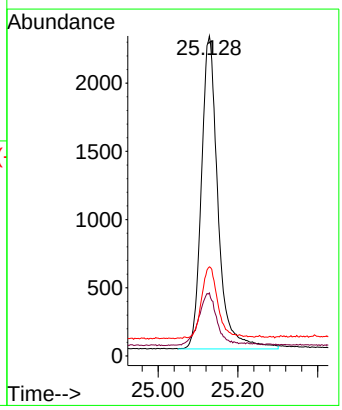
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

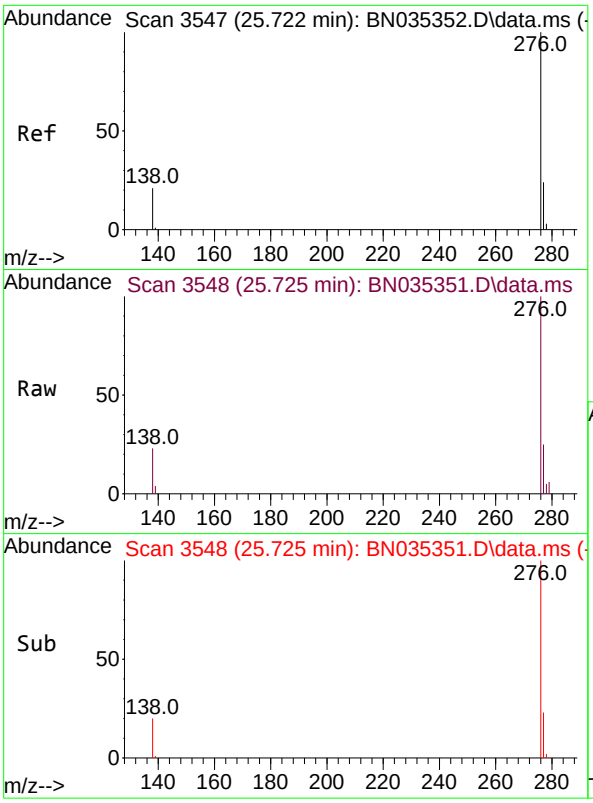



#40
Dibenzo(a,h)anthracene
Concen: 0.188 ng
RT: 25.128 min Scan# 3344
Delta R.T. 0.003 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:278 Resp: 6620

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 19.7 | 14.2 | 21.4 |
| 279 | 27.9 | 20.5 | 30.7 |

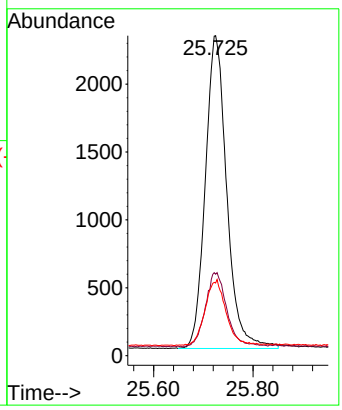





#41
Benzo(g,h,i)perylene
Concen: 0.184 ng
RT: 25.725 min Scan# 3
Delta R.T. 0.003 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:276 Resp: 690

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 25.5 | 19.9 | 29.9 |
| 138 | 22.7 | 17.8 | 26.8 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.2

**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035352.D
Acq On : 27 Nov 2024 16:46
Operator : RC/JU
Sample : SSTDICCC0.4
Misc :
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICCC0.4

**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

Quant Time: Nov 27 22:52:52 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.308 | 152 | 2048 | 0.400 | ng | | 0.00 |
| 7) Naphthalene-d8 | 10.052 | 136 | 5229 | 0.400 | ng | | 0.00 |
| 13) Acenaphthene-d10 | 13.967 | 164 | 3799 | 0.400 | ng | | 0.00 |
| 19) Phenanthrene-d10 | 16.736 | 188 | 9490 | 0.400 | ng | | 0.00 |
| 29) Chrysene-d12 | 20.974 | 240 | 9527 | 0.400 | ng | | 0.00 |
| 35) Perylene-d12 | 23.067 | 264 | 10842 | 0.400 | ng | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 4) 2-Fluorophenol | 4.968 | 112 | 2085 | 0.401 | ng | | 0.00 |
| 5) Phenol-d6 | 6.513 | 99 | 2444 | 0.375 | ng | | 0.00 |
| 8) Nitrobenzene-d5 | 8.440 | 82 | 1228m | 0.270 | ng | | 0.00 |
| 11) 2-Methylnaphthalene-d10 | 11.656 | 152 | 3237 | 0.347 | ng | | 0.00 |
| 14) 2,4,6-Tribromophenol | 15.475 | 330 | 975 | 0.356 | ng | | 0.00 |
| 15) 2-Fluorobiphenyl | 12.574 | 172 | 5735 | 0.372 | ng | | 0.00 |
| 27) Fluoranthene-d10 | 18.785 | 212 | 10223 | 0.352 | ng | | 0.00 |
| 31) Terphenyl-d14 | 19.412 | 244 | 7533 | 0.377 | ng | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.003 | 88 | 771 | 0.414 | ng | | 100 |
| 3) n-Nitrosodimethylamine | 3.292 | 42 | 668 | 0.385 | ng | | 100 |
| 6) bis(2-Chloroethyl)ether | 6.759 | 93 | 2032 | 0.415 | ng | | 100 |
| 9) Naphthalene | 10.105 | 128 | 5475 | 0.401 | ng | | 100 |
| 10) Hexachlorobutadiene | 10.404 | 225 | 1292 | 0.323 | ng | # | 100 |
| 12) 2-Methylnaphthalene | 11.732 | 142 | 3867 | 0.384 | ng | | 100 |
| 16) Acenaphthylene | 13.679 | 152 | 6058 | 0.373 | ng | | 100 |
| 17) Acenaphthene | 14.031 | 154 | 4125 | 0.388 | ng | | 100 |
| 18) Fluorene | 15.026 | 166 | 5863 | 0.375 | ng | | 100 |
| 20) 4,6-Dinitro-2-methylph... | 15.133 | 198 | 337 | 0.171 | ng | | 100 |
| 21) 4-Bromophenyl-phenylether | 15.941 | 248 | 2146 | 0.355 | ng | | 100 |
| 22) Hexachlorobenzene | 16.040 | 284 | 2590 | 0.413 | ng | | 100 |
| 23) Atrazine | 16.227 | 200 | 1461 | 0.269 | ng | | 100 |
| 24) Pentachlorophenol | 16.400 | 266 | 906 | 0.309 | ng | | 87 |
| 25) Phenanthrene | 16.773 | 178 | 10127 | 0.405 | ng | | 100 |
| 26) Anthracene | 16.860 | 178 | 8921 | 0.389 | ng | | 100 |
| 28) Fluoranthene | 18.817 | 202 | 13438 | 0.391 | ng | | 100 |
| 30) Pyrene | 19.179 | 202 | 14053 | 0.443 | ng | | 100 |
| 32) Benzo(a)anthracene | 20.956 | 228 | 12908 | 0.389 | ng | | 100 |
| 33) Chrysene | 21.009 | 228 | 13729 | 0.418 | ng | | 100 |
| 34) Bis(2-ethylhexyl)phtha... | 20.929 | 149 | 4912 | 0.282 | ng | | 100 |
| 36) Indeno(1,2,3-cd)pyrene | 25.108 | 276 | 16615 | 0.384 | ng | | 100 |
| 37) Benzo(b)fluoranthene | 22.453 | 252 | 14235 | 0.390 | ng | | 100 |
| 38) Benzo(k)fluoranthene | 22.494 | 252 | 15199 | 0.416 | ng | | 100 |
| 39) Benzo(a)pyrene | 22.977 | 252 | 12425 | 0.387 | ng | | 100 |
| 40) Dibenzo(a,h)anthracene | 25.126 | 278 | 12948 | 0.378 | ng | | 100 |
| 41) Benzo(g,h,i)perylene | 25.722 | 276 | 13529 | 0.371 | ng | | 100 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

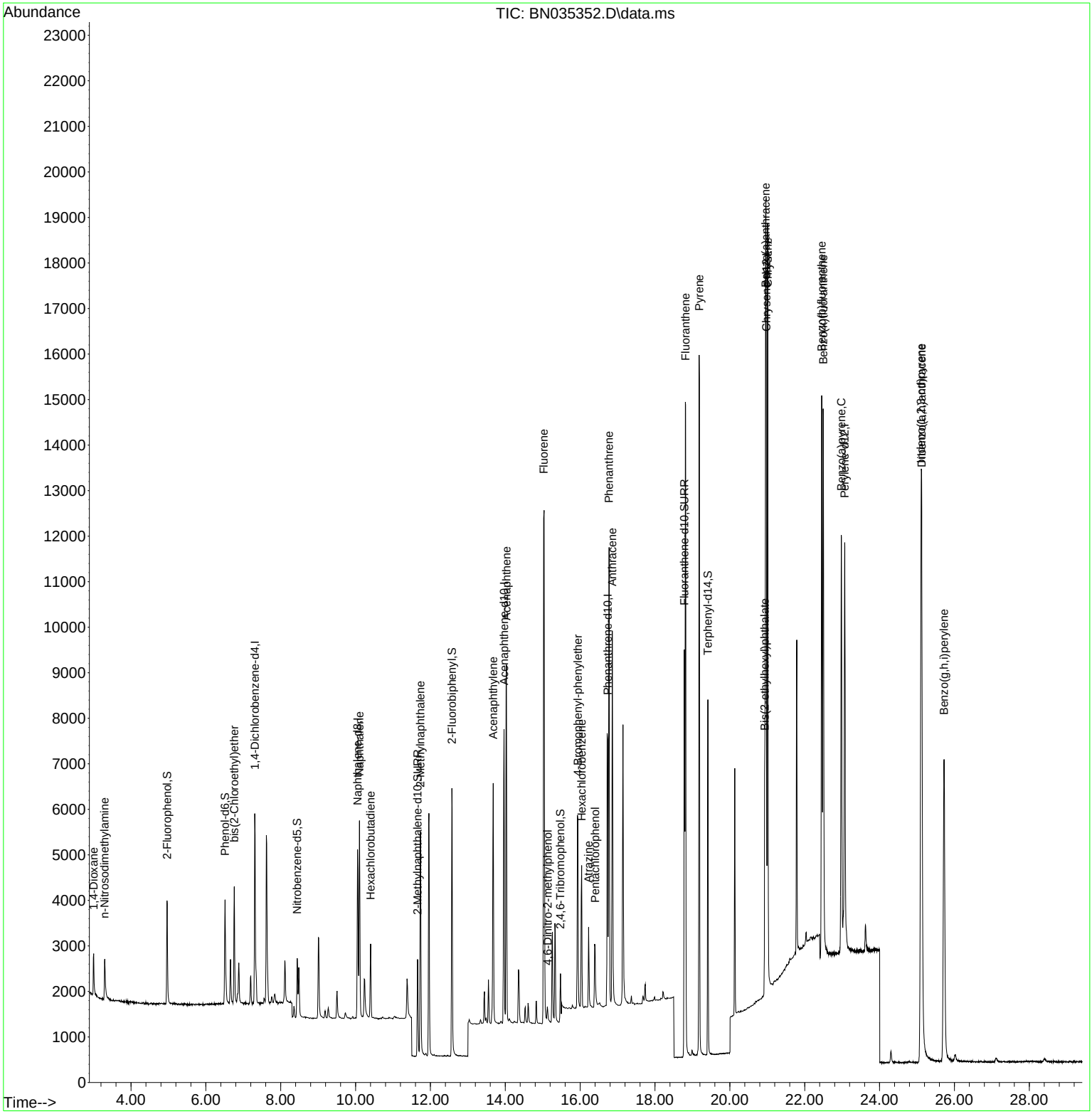
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035352.D
Acq On : 27 Nov 2024 16:46
Operator : RC/JU
Sample : SSTDICCC0.4
Misc :
ALS Vial : 4 Sample Multiplier: 1

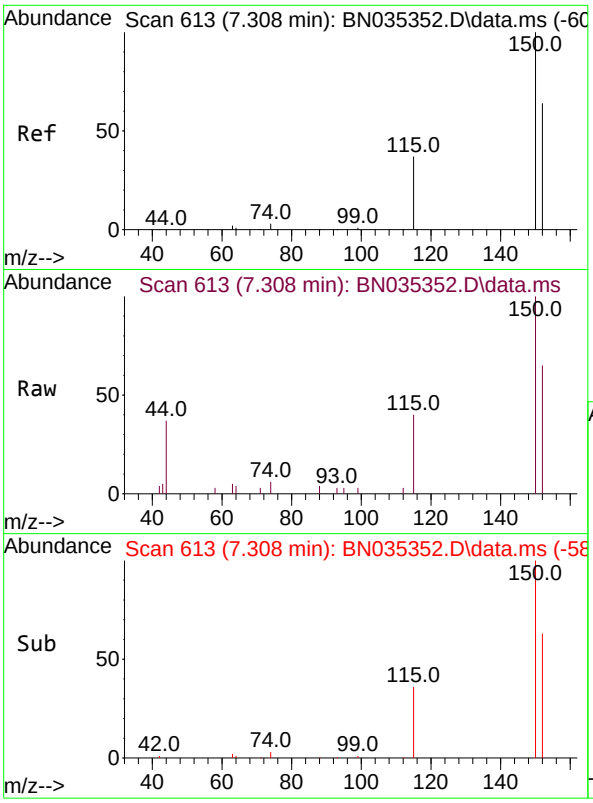
Quant Time: Nov 27 22:52:52 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICCC0.4

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

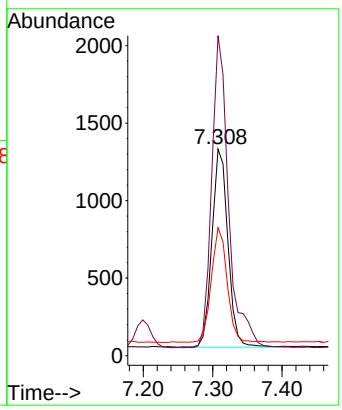





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:152 Resp: 204

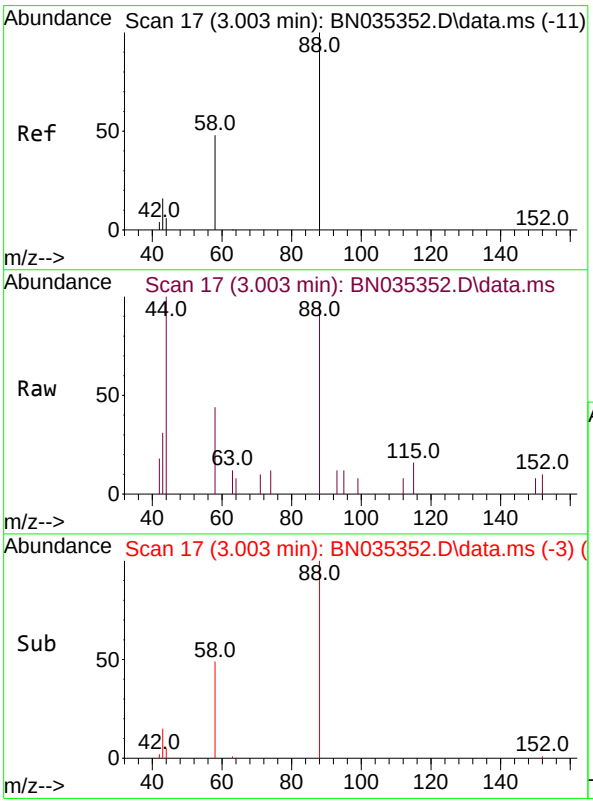
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 155.0 | 124.0 | 186.0 |
| 115 | 62.0 | 49.6 | 74.4 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICCC0.4

**Manual Integrations APPROVED**

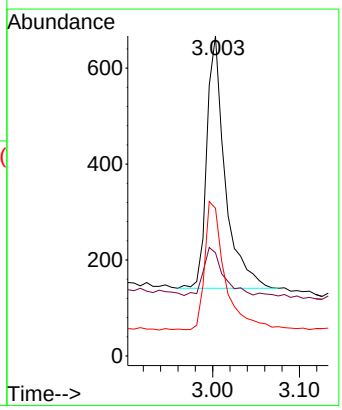
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

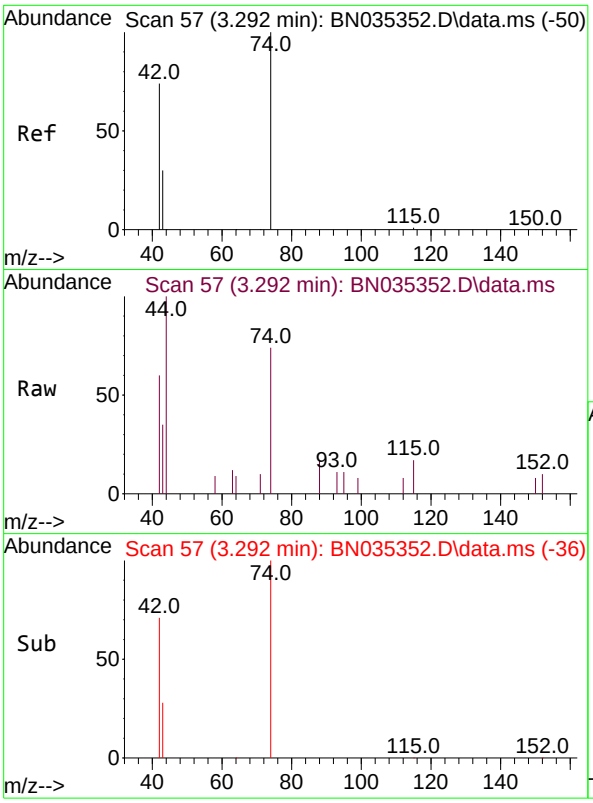



#2
1,4-Dioxane
Concen: 0.414 ng
RT: 3.003 min Scan# 17
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion: 88 Resp: 771

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 21.5 | 17.2 | 25.8 |
| 58 | 55.6 | 44.5 | 66.7 |

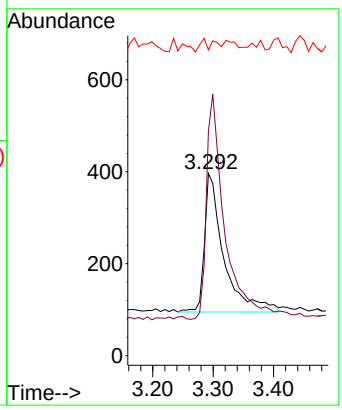





#3
n-Nitrosodimethylamine
Concen: 0.385 ng
RT: 3.292 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion: 42 Resp: 66

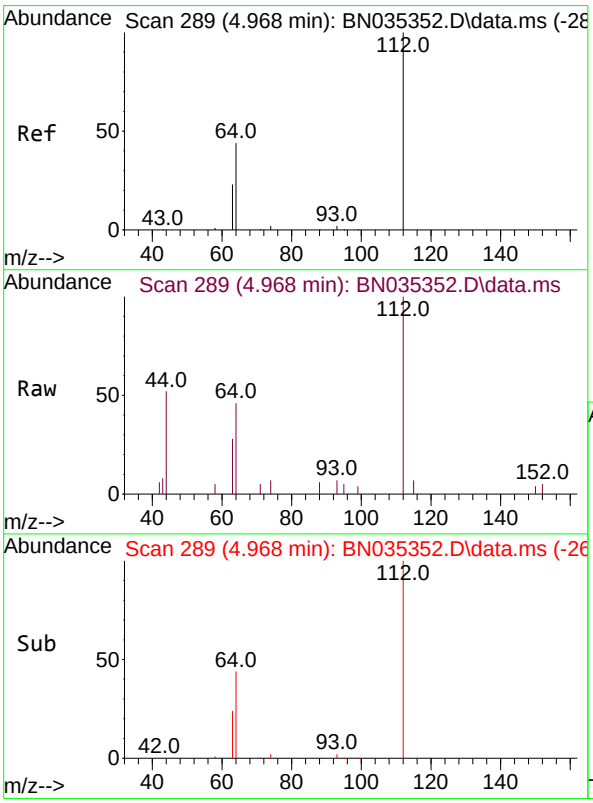
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 156.1 | 124.9 | 187.3 |
| 44 | 2.8 | 2.2 | 3.4 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICCC0.4

**Manual Integrations APPROVED**

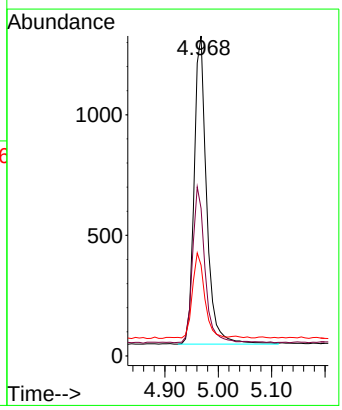
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

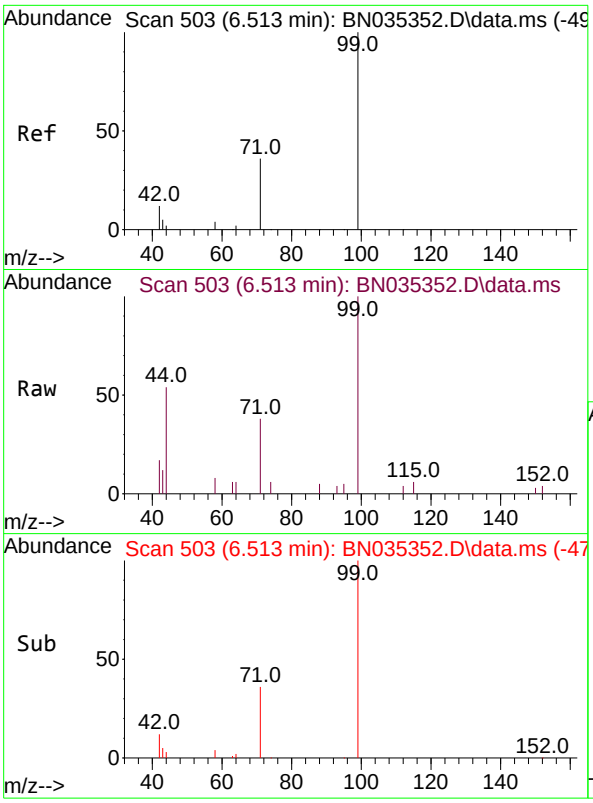



#4
2-Fluorophenol
Concen: 0.401 ng
RT: 4.968 min Scan# 289
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:112 Resp: 2085

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 49.8 | 39.8 | 59.8 |
| 63 | 26.3 | 21.0 | 31.6 |

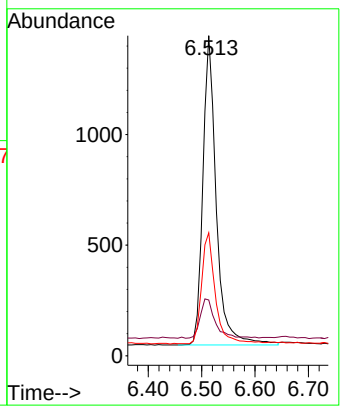





#5
Phenol-d6
Concen: 0.375 ng
RT: 6.513 min Scan# 5(
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion: 99 Resp: 244

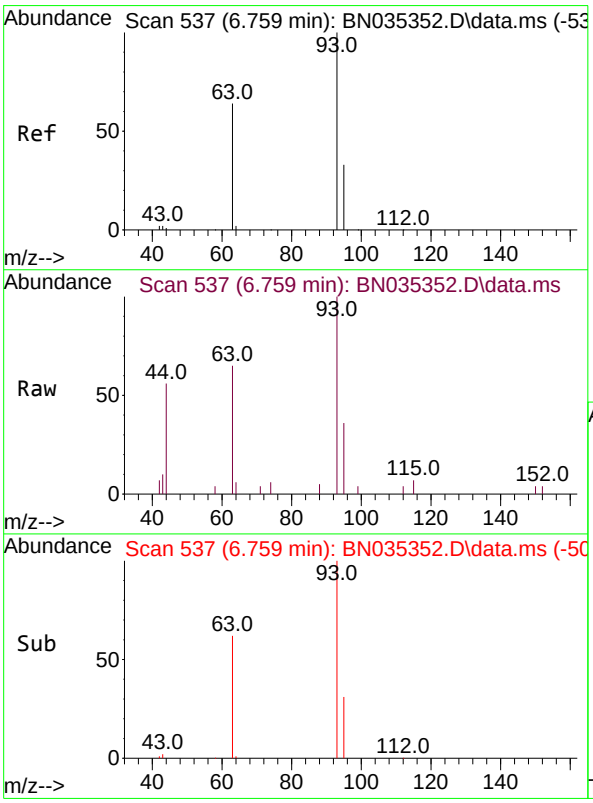
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 14.3 | 11.4 | 17.2 |
| 71 | 36.6 | 29.3 | 43.9 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICCC0.4

**Manual Integrations APPROVED**

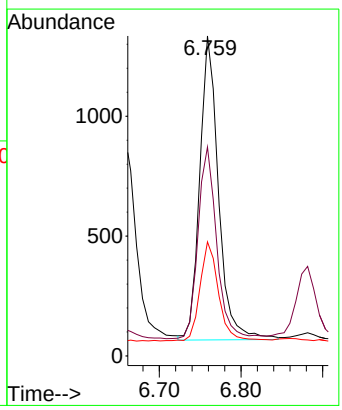
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

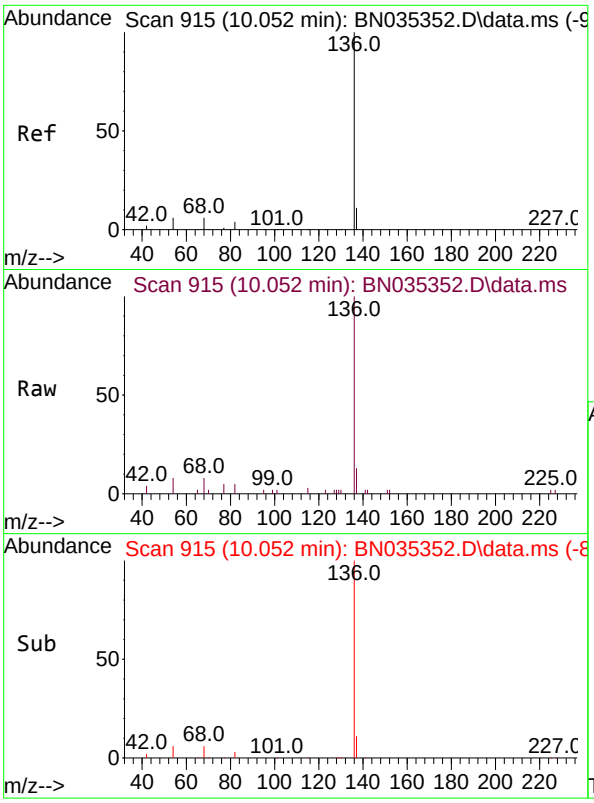



#6
bis(2-Chloroethyl)ether
Concen: 0.415 ng
RT: 6.759 min Scan# 537
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion: 93 Resp: 2032

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 63.0 | 50.4 | 75.6 |
| 95 | 32.1 | 25.7 | 38.5 |

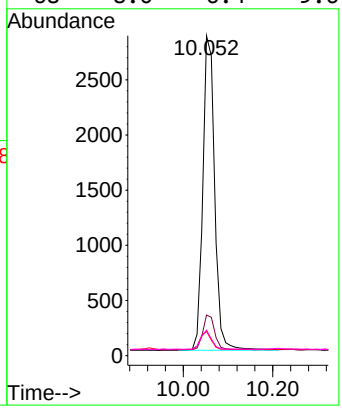





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:136 Resp: 522

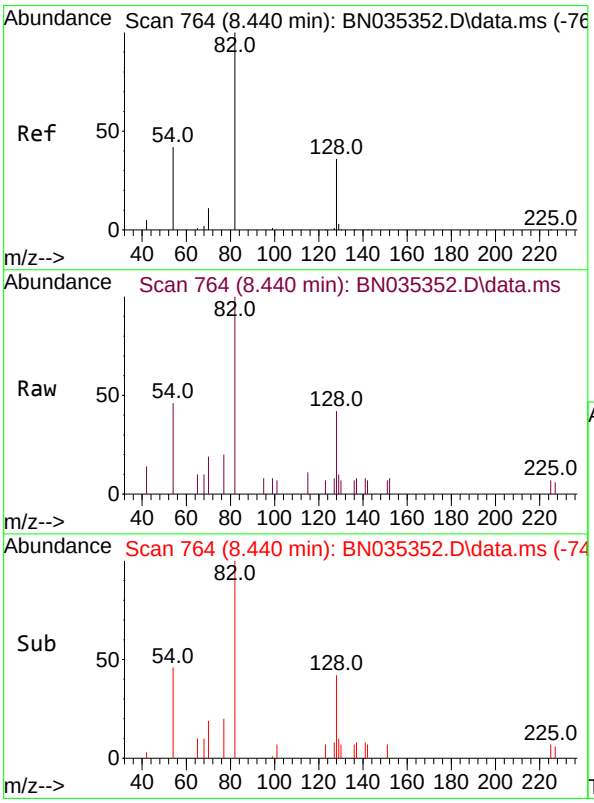
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 12.7 | 10.2 | 15.2 |
| 54 | 7.6 | 6.1 | 9.1 |
| 68 | 8.0 | 6.4 | 9.6 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICCC0.4

**Manual Integrations APPROVED**

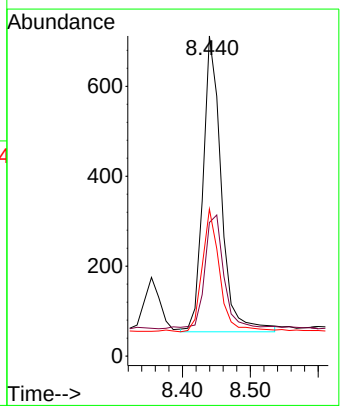
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

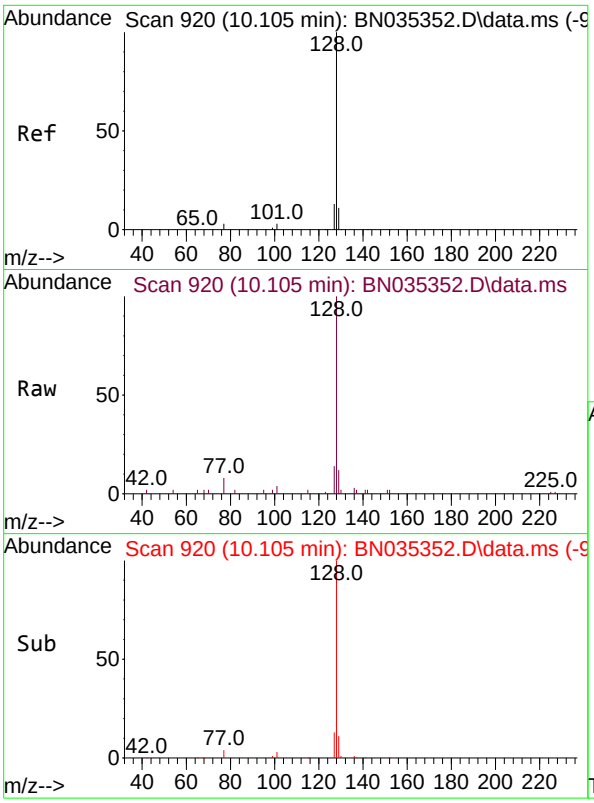



#8
Nitrobenzene-d5
Concen: 0.270 ng m
RT: 8.440 min Scan# 764
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion: 82 Resp: 1228

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 41.7 | 33.4 | 50.0 |
| 54 | 45.9 | 36.7 | 55.1 |

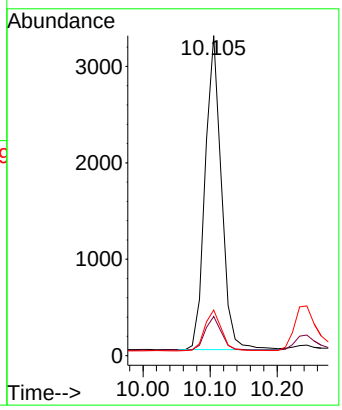





#9
Naphthalene
Concen: 0.401 ng
RT: 10.105 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:128 Resp: 547

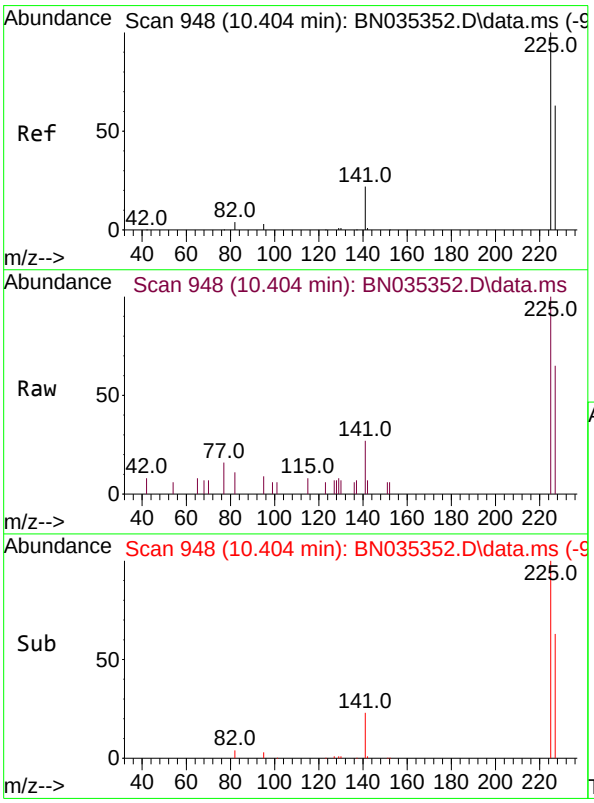
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 12.2 | 9.8 | 14.6 |
| 127 | 14.3 | 11.4 | 17.2 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICCC0.4

**Manual Integrations**
**APPROVED**

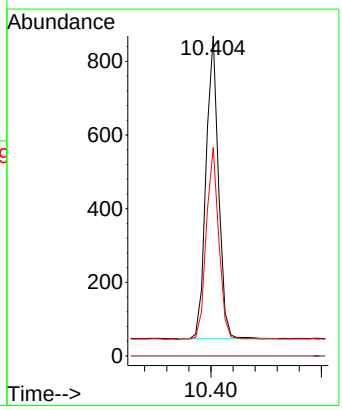
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

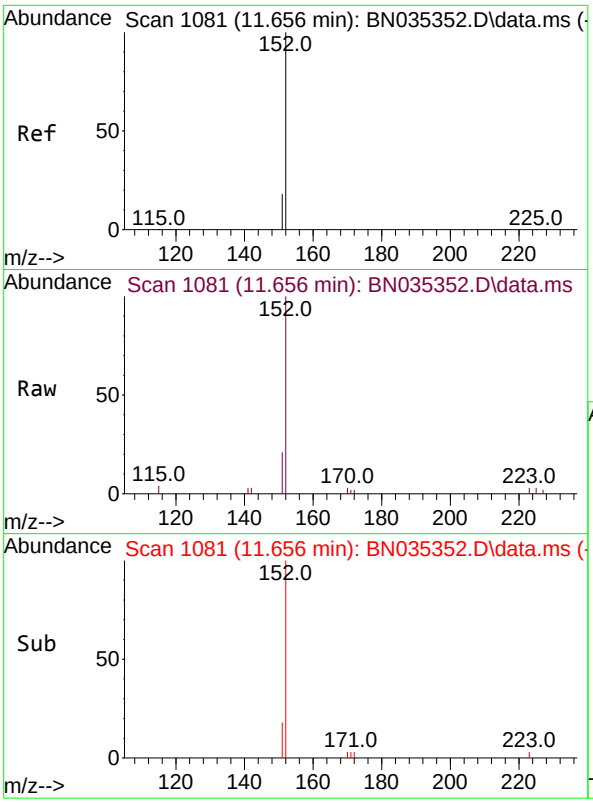



#10
Hexachlorobutadiene
Concen: 0.323 ng
RT: 10.404 min Scan# 948
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:225 Resp: 1292

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 0.0 | 0.0 | 0.0 |
| 227 | 64.1 | 51.3 | 76.9 |






#11
2-Methylnaphthalene-d10
Concen: 0.347 ng
RT: 11.656 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

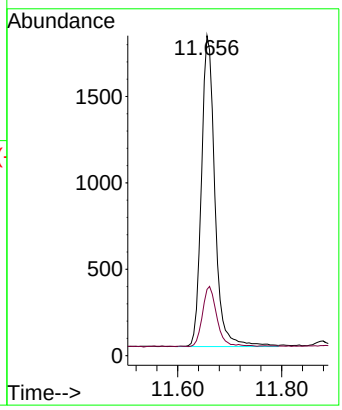
Tgt Ion:152 Resp: 323

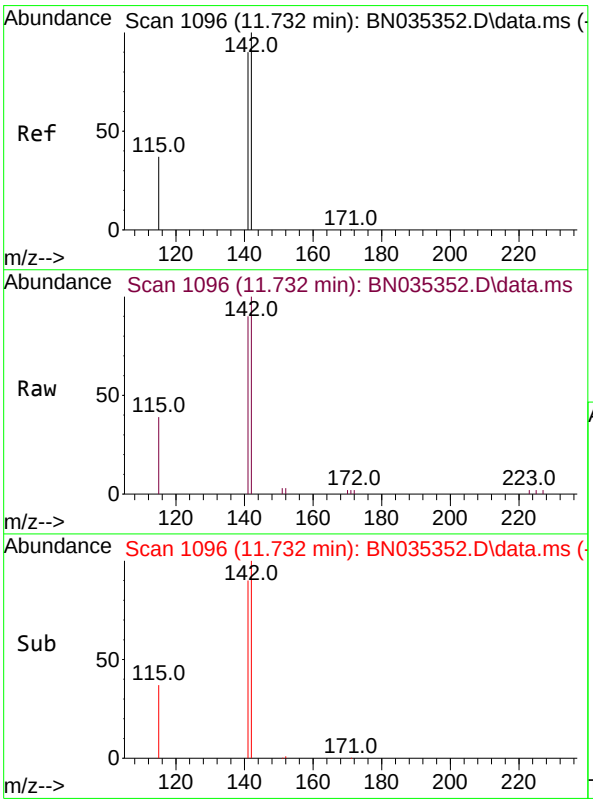
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.8 | 16.6 | 25.0 |

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICCC0.4

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

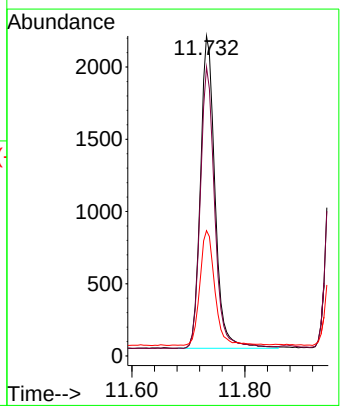


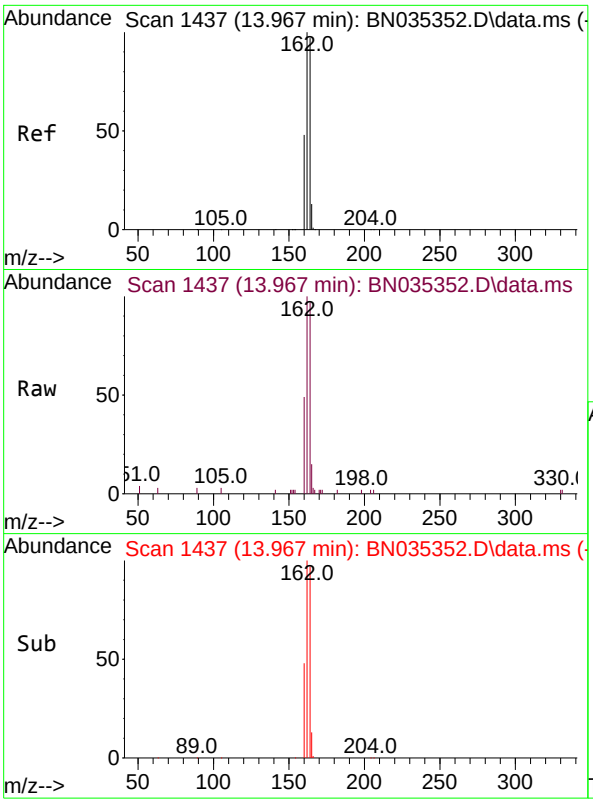




#12
2-Methylnaphthalene
Concen: 0.384 ng
RT: 11.732 min Scan# 1096
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:142 Resp: 3867

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 90.3 | 72.2 | 108.4 |
| 115 | 39.2 | 31.4 | 47.0 |

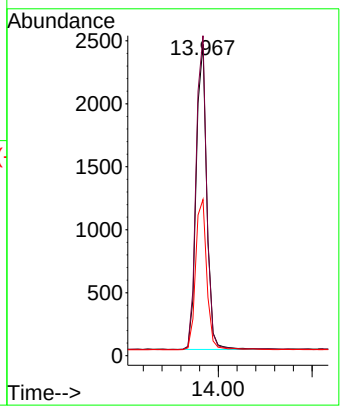





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:164 Resp: 3799

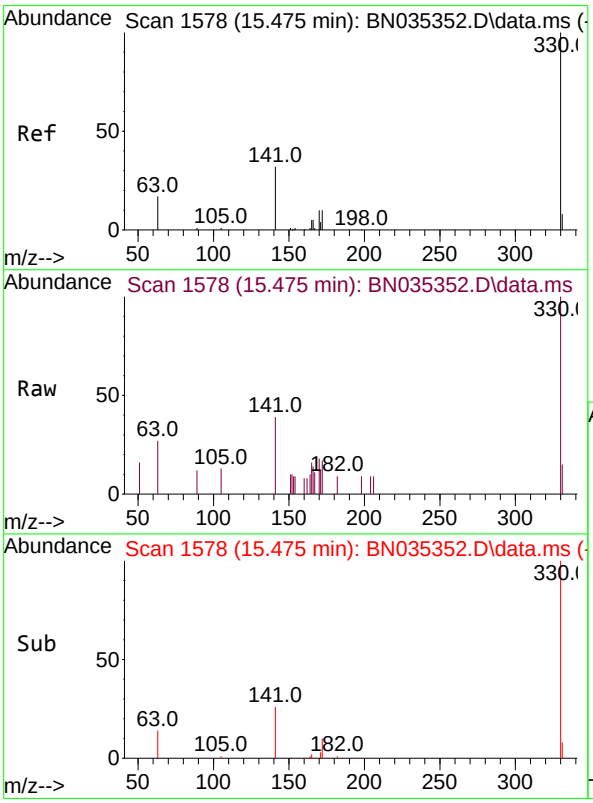
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 102.7 | 82.2 | 123.2 |
| 160 | 50.1 | 40.1 | 60.1 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICCC0.4

**Manual Integrations APPROVED**

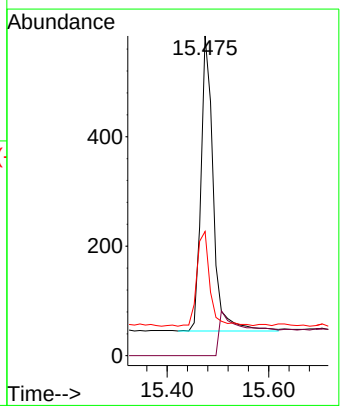
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

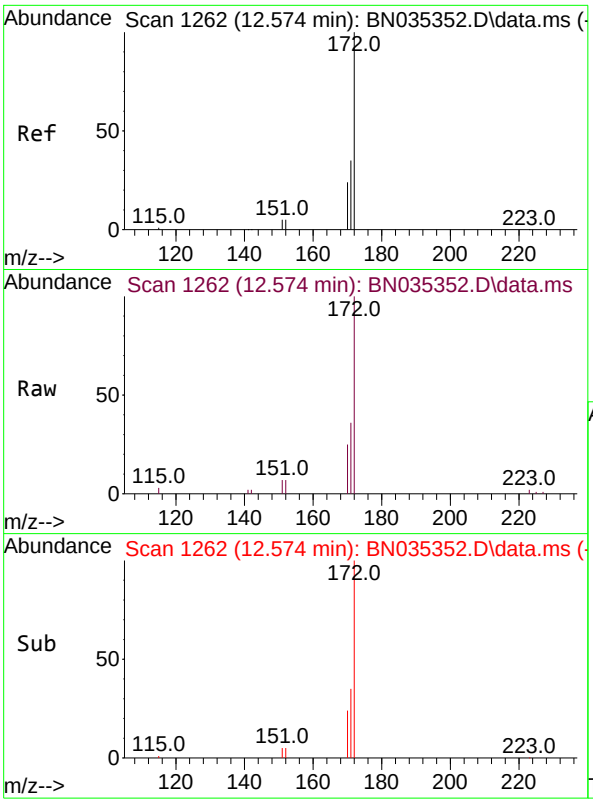



#14
2,4,6-Tribromophenol
Concen: 0.356 ng
RT: 15.475 min Scan# 1578
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:330 Resp: 975

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 0.0 | 0.0 | 0.0 |
| 141 | 33.3 | 26.6 | 40.0 |

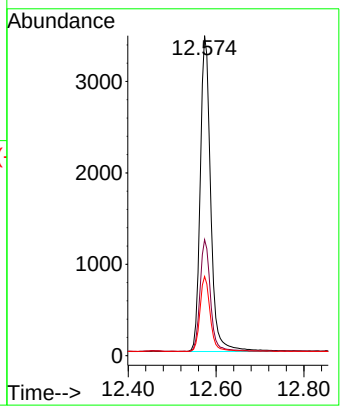





#15
2-Fluorobiphenyl
Concen: 0.372 ng
RT: 12.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:172 Resp: 573

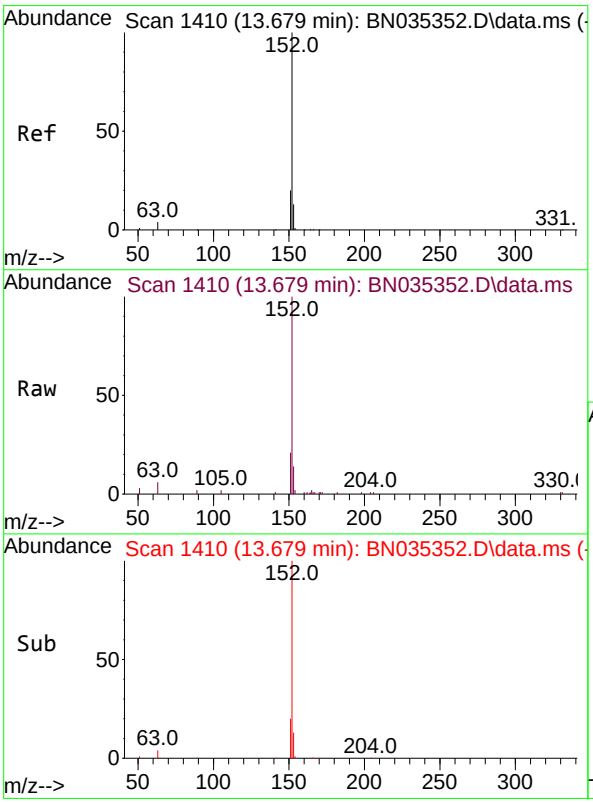
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 36.2 | 29.0 | 43.4 |
| 170 | 24.8 | 19.8 | 29.8 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICCC0.4

**Manual Integrations APPROVED**

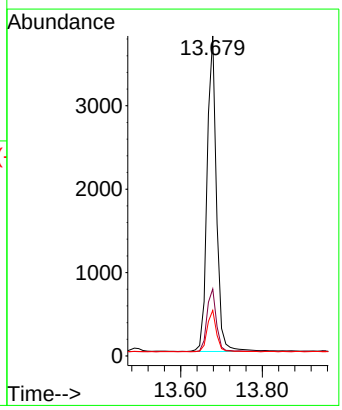
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

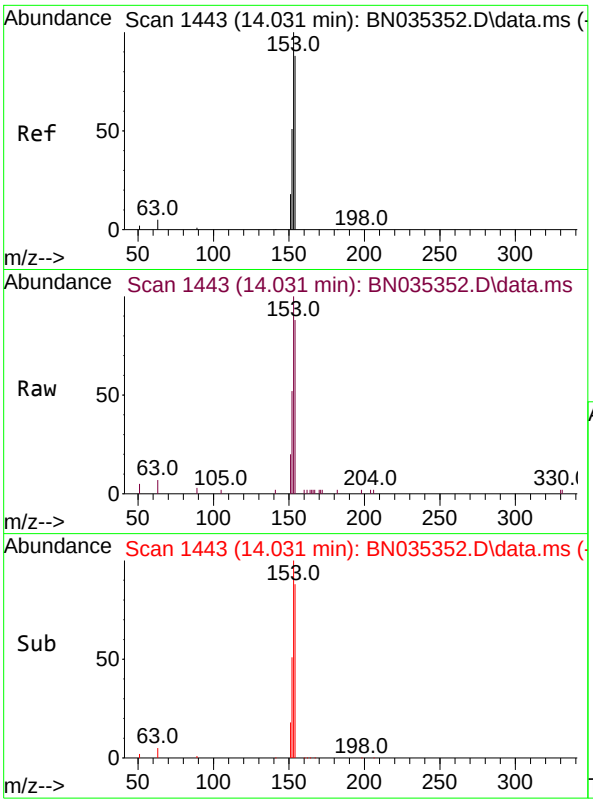



#16
Acenaphthylene
Concen: 0.373 ng
RT: 13.679 min Scan# 1410
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:152 Resp: 6058

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.2 | 16.2 | 24.2 |
| 153 | 13.0 | 10.4 | 15.6 |

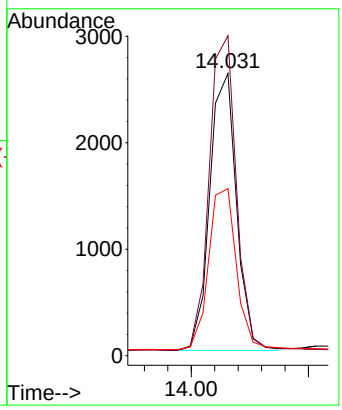





#17
Acenaphthene
Concen: 0.388 ng
RT: 14.031 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:154 Resp: 412

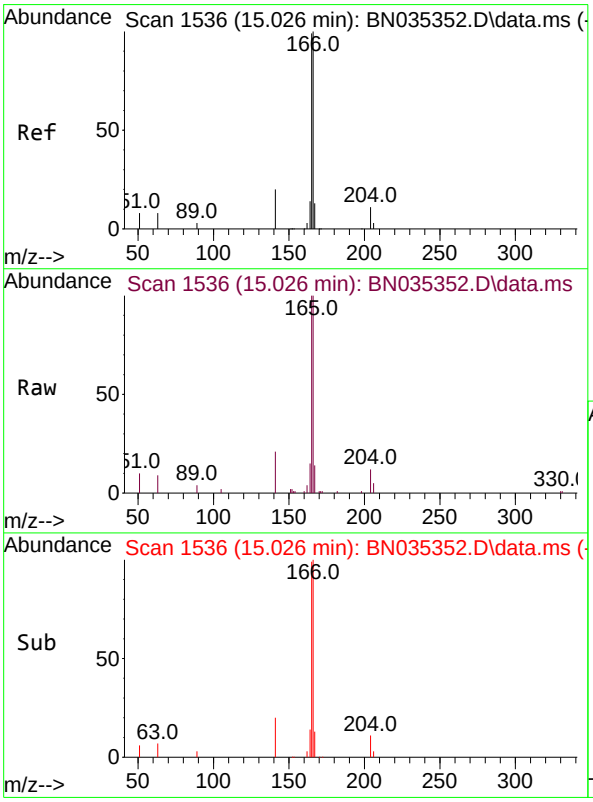
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 115.8 | 92.6 | 139.0 |
| 152 | 61.3 | 49.0 | 73.6 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICCC0.4

**Manual Integrations**
**APPROVED**

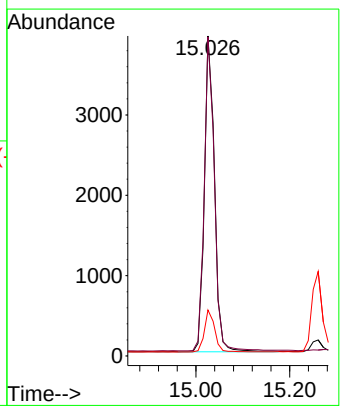
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

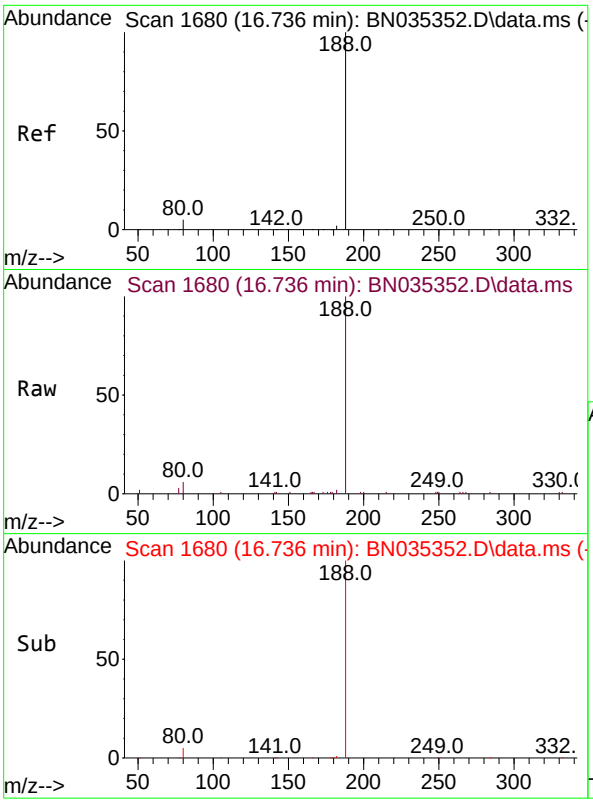



#18
Fluorene
Concen: 0.375 ng
RT: 15.026 min Scan# 1536
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:166 Resp: 5863

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 99.6 | 79.7 | 119.5 |
| 167 | 13.5 | 10.8 | 16.2 |

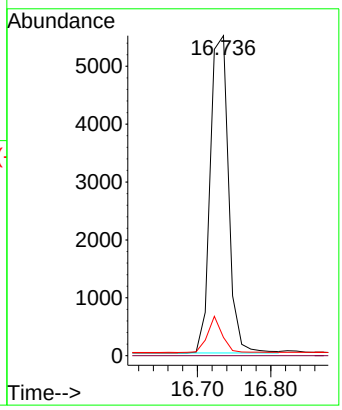





#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.736 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:188 Resp: 949(

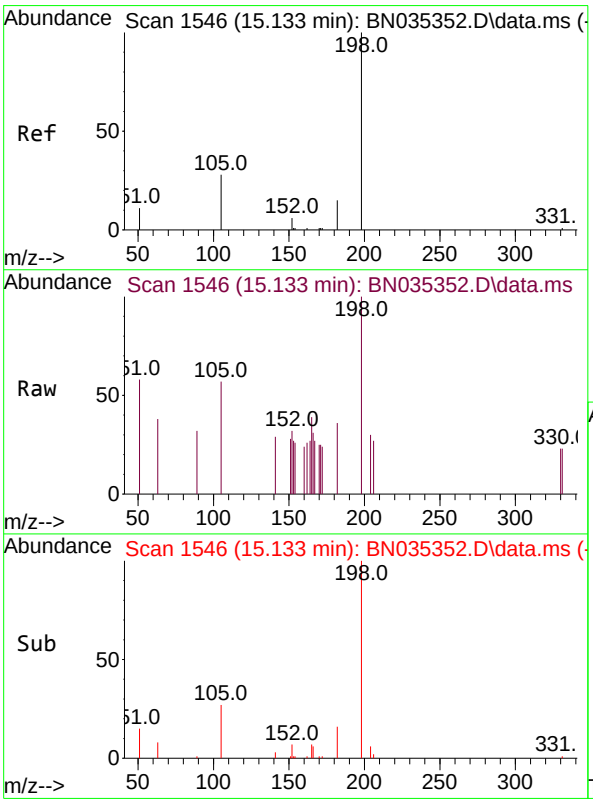
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 5.7 | 4.6 | 6.8 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICCC0.4

**Manual Integrations APPROVED**

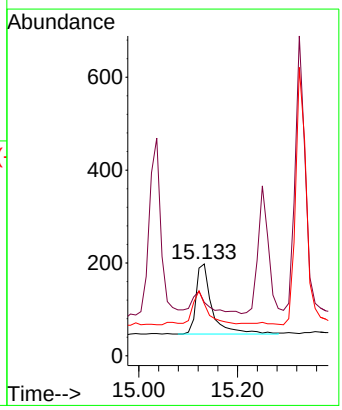
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

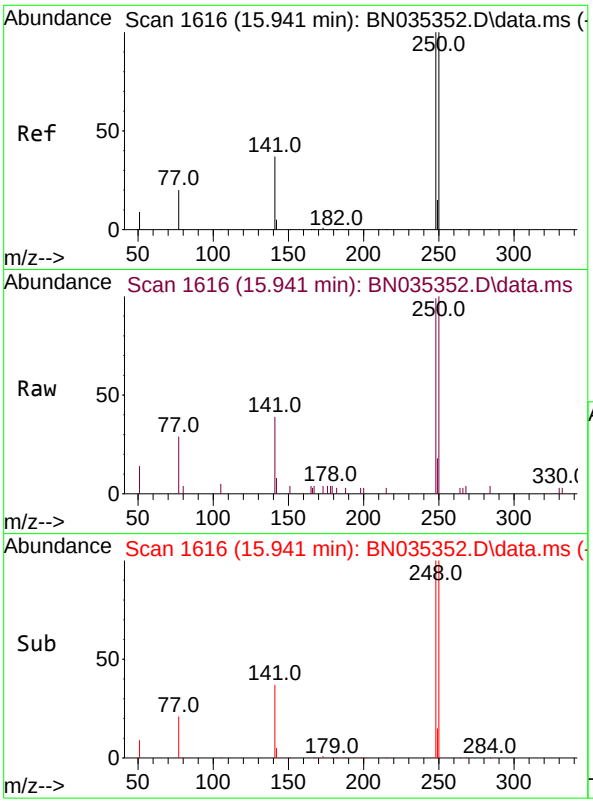



#20
4,6-Dinitro-2-methylphenol
Concen: 0.171 ng
RT: 15.133 min Scan# 1546
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:198 Resp: 337

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 198 | 100 | | |
| 51 | 58.1 | 46.5 | 69.7 |
| 105 | 56.6 | 45.3 | 67.9 |

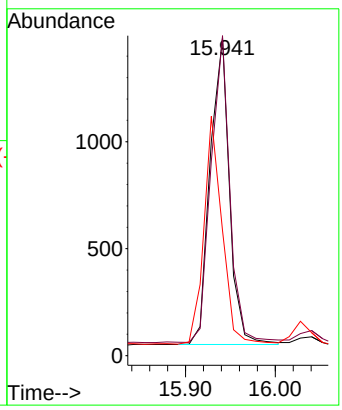





#21
4-Bromophenyl-phenylether
Concen: 0.355 ng
RT: 15.941 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:248 Resp: 214

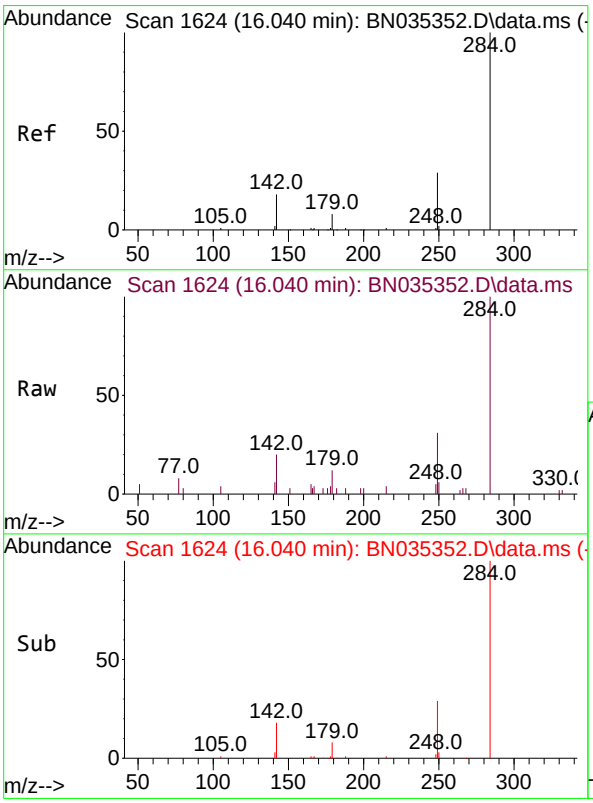
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 100.7 | 80.6 | 120.8 |
| 141 | 39.4 | 31.5 | 47.3 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICCC0.4

**Manual Integrations**
**APPROVED**

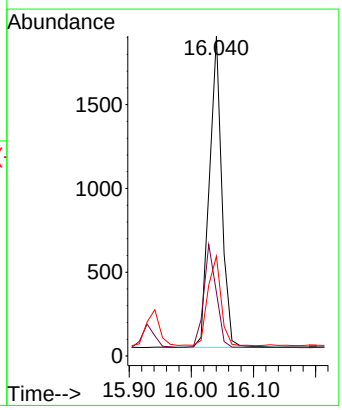
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

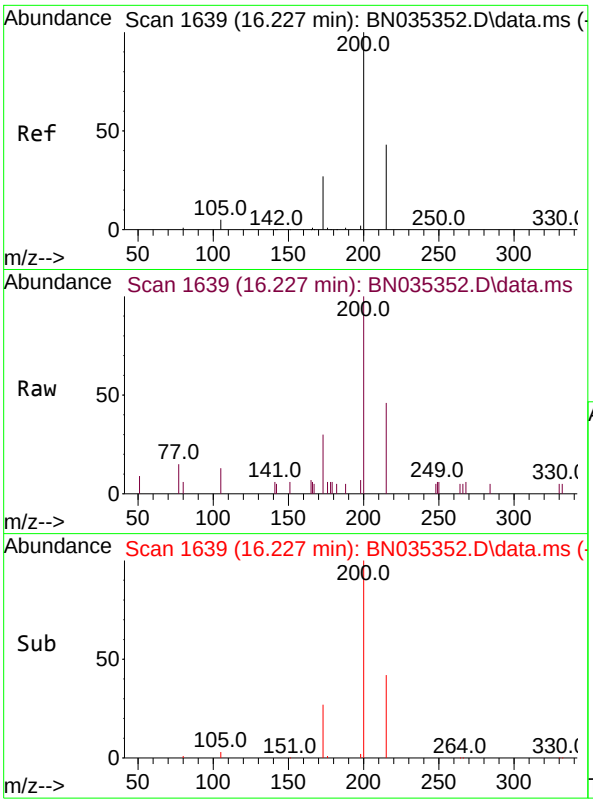



#22
Hexachlorobenzene
Concen: 0.413 ng
RT: 16.040 min Scan# 1624
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:284 Resp: 2590

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 33.4 | 26.7 | 40.1 |
| 249 | 30.7 | 24.6 | 36.8 |

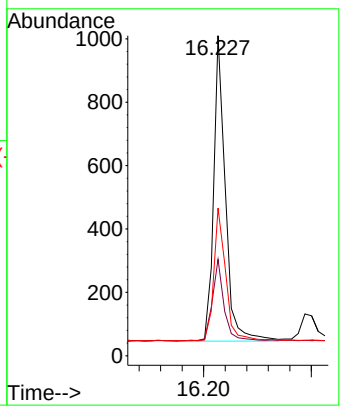





#23
Atrazine
Concen: 0.269 ng
RT: 16.227 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:200 Resp: 146

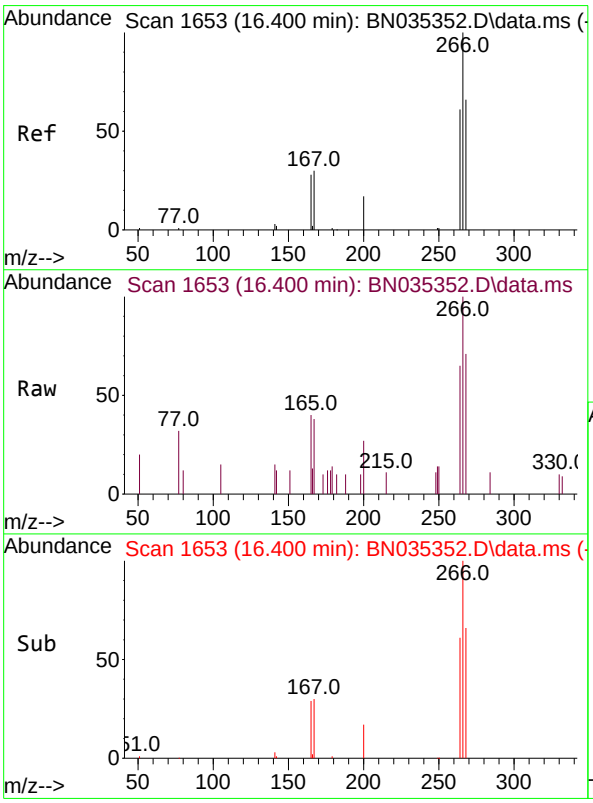
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 173 | 30.1 | 24.1 | 36.1 |
| 215 | 46.1 | 36.9 | 55.3 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICCC0.4

**Manual Integrations APPROVED**

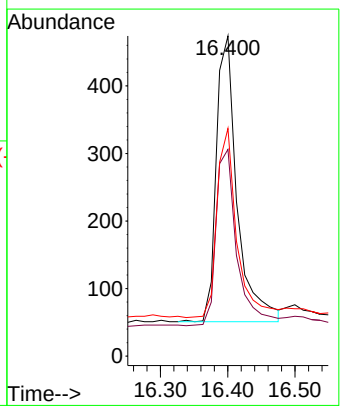
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

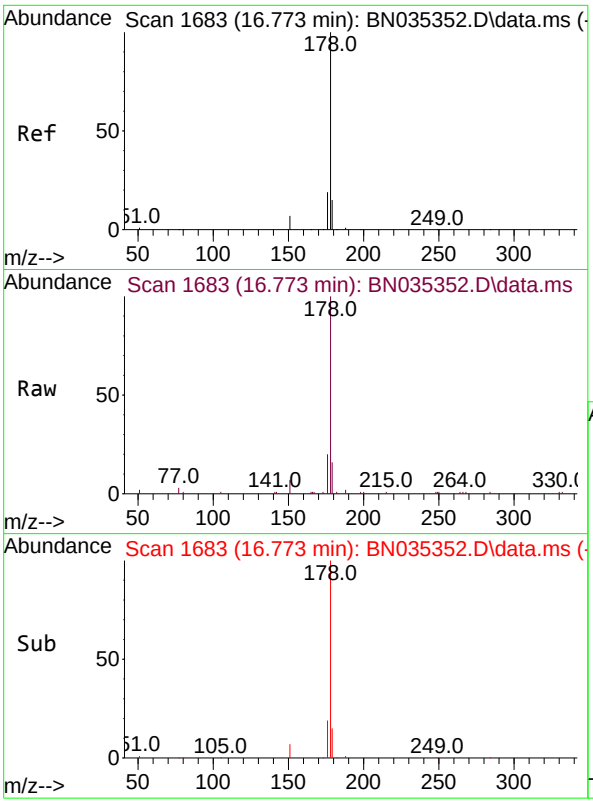



#24
Pentachlorophenol
Concen: 0.309 ng
RT: 16.400 min Scan# 1653
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:266 Resp: 906

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 264 | 62.4 | 42.3 | 63.5 |
| 268 | 63.8 | 43.3 | 64.9 |

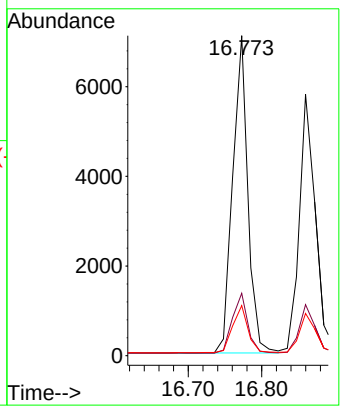





#25
Phenanthrene
Concen: 0.405 ng
RT: 16.773 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:178 Resp: 1012

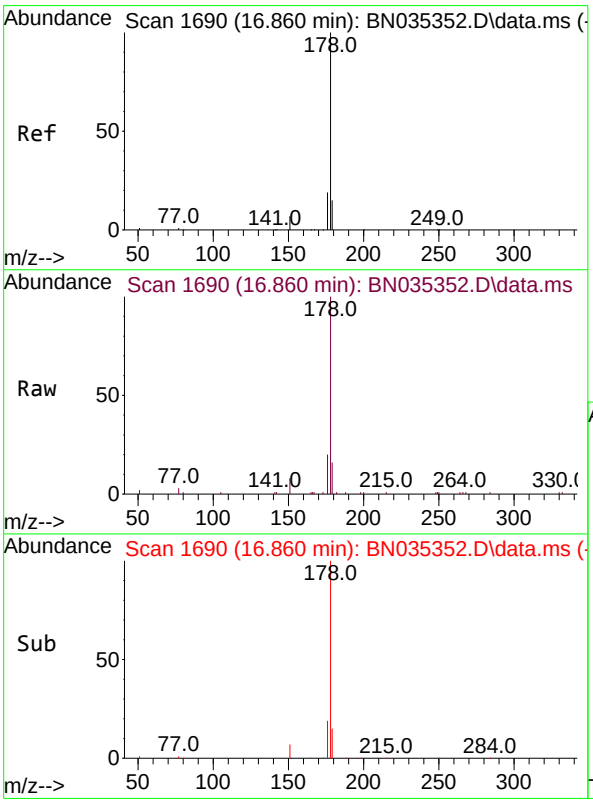
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.3 | 15.4 | 23.2 |
| 179 | 15.4 | 12.3 | 18.5 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICCC0.4

**Manual Integrations**
**APPROVED**

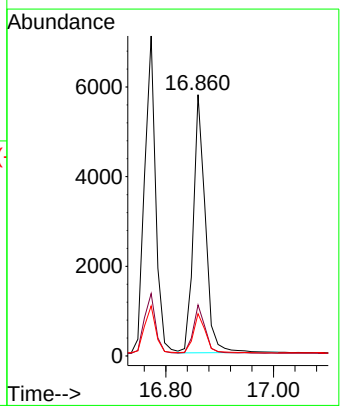
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

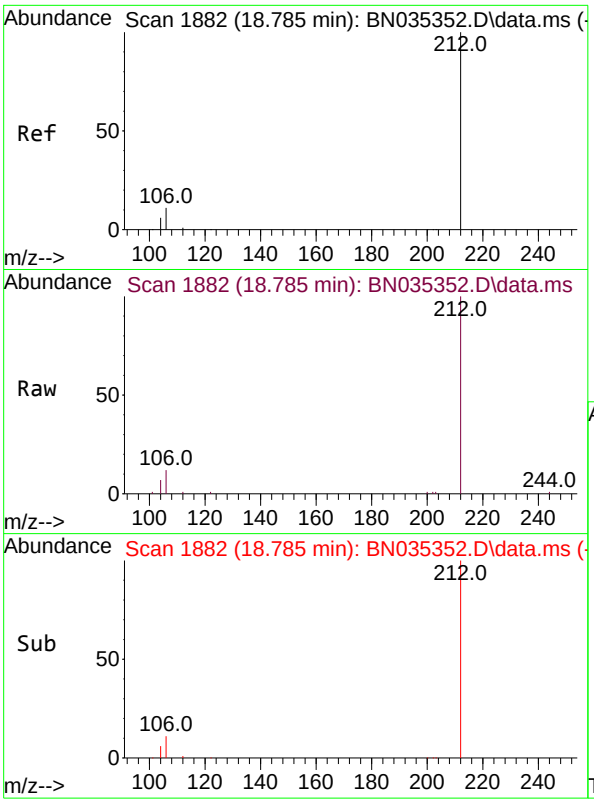



#26
Anthracene
Concen: 0.389 ng
RT: 16.860 min Scan# 1690
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:178 Resp: 8921

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.8 | 15.0 | 22.6 |
| 179 | 15.7 | 12.6 | 18.8 |

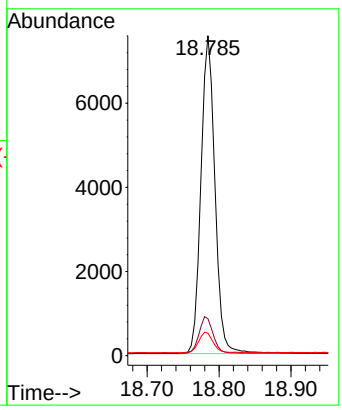





#27
Fluoranthene-d10
Concen: 0.352 ng
RT: 18.785 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:212 Resp: 1022

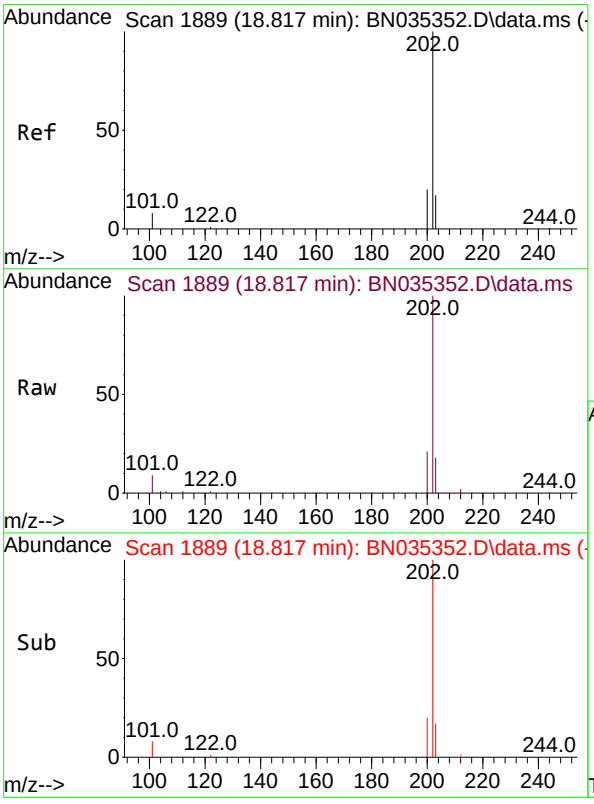
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 11.5 | 9.2 | 13.8 |
| 104 | 6.6 | 5.3 | 7.9 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICCC0.4

**Manual Integrations APPROVED**

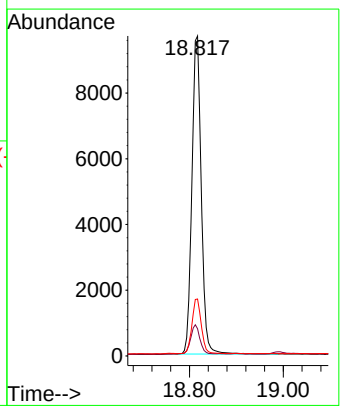
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

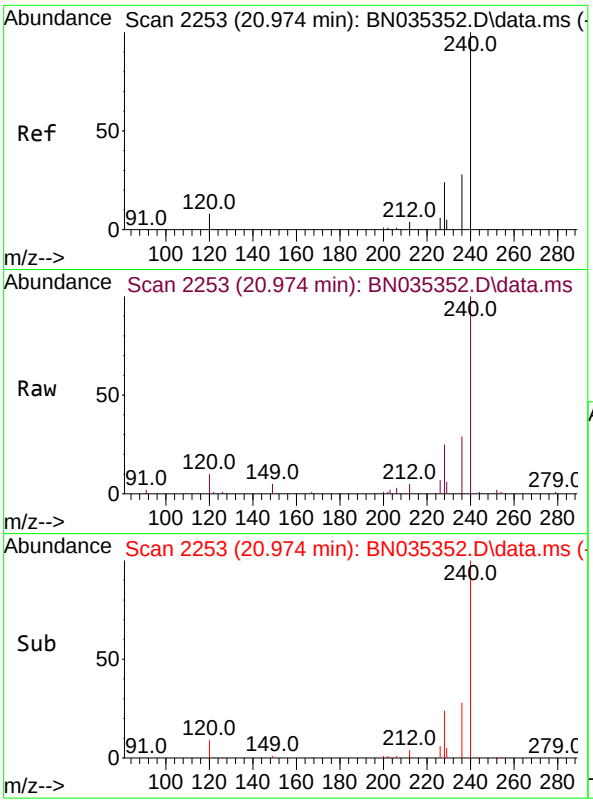



#28
Fluoranthene
Concen: 0.391 ng
RT: 18.817 min Scan# 1889
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:202 Resp: 13438

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 9.2 | 7.4 | 11.0 |
| 203 | 17.1 | 13.7 | 20.5 |

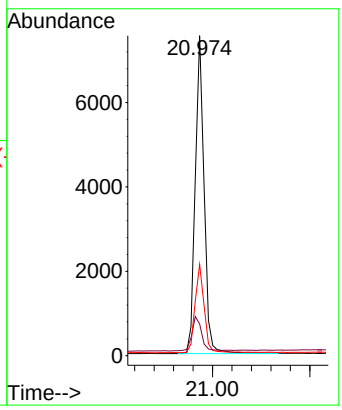





#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.974 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:240 Resp: 952

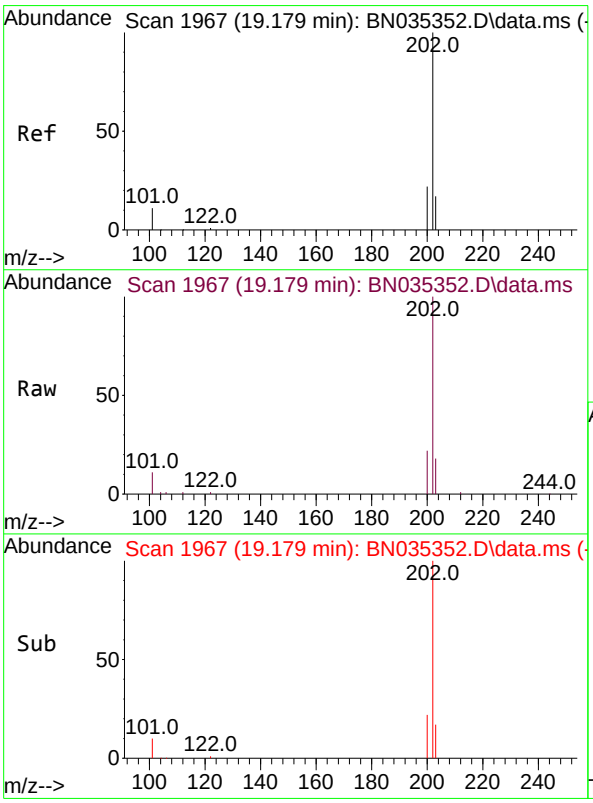
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 9.9 | 7.9 | 11.9 |
| 236 | 28.6 | 22.9 | 34.3 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICCC0.4

**Manual Integrations APPROVED**

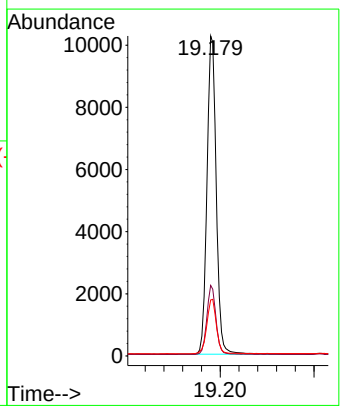
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

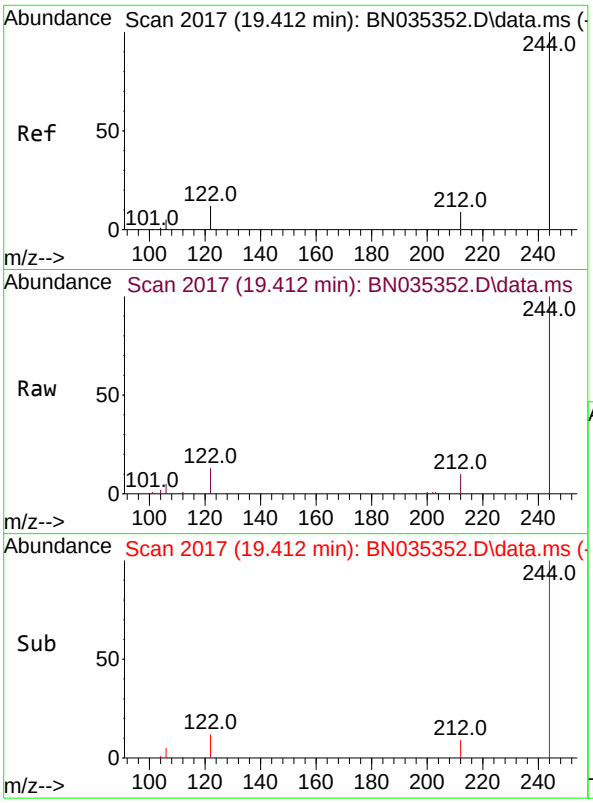



#30
Pyrene
Concen: 0.443 ng
RT: 19.179 min Scan# 1967
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:202 Resp: 14053

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.2 | 17.0 | 25.4 |
| 203 | 17.9 | 14.3 | 21.5 |

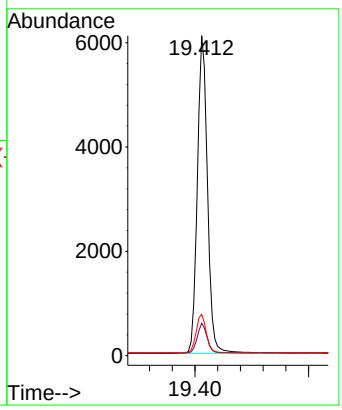





#31
Terphenyl-d14
Concen: 0.377 ng
RT: 19.412 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:244 Resp: 753

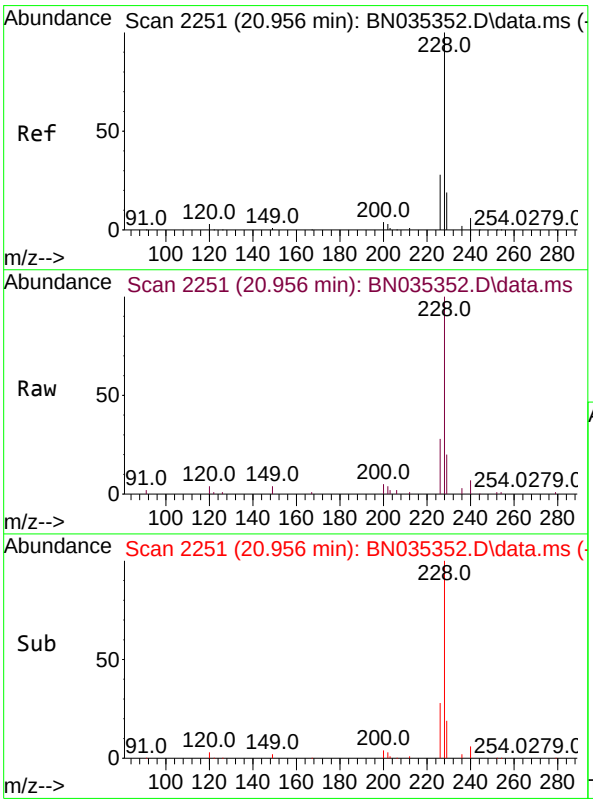
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 10.1 | 8.1 | 12.1 |
| 122 | 12.9 | 10.3 | 15.5 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICCC0.4

**Manual Integrations APPROVED**

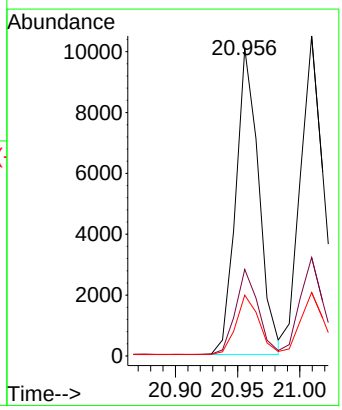
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

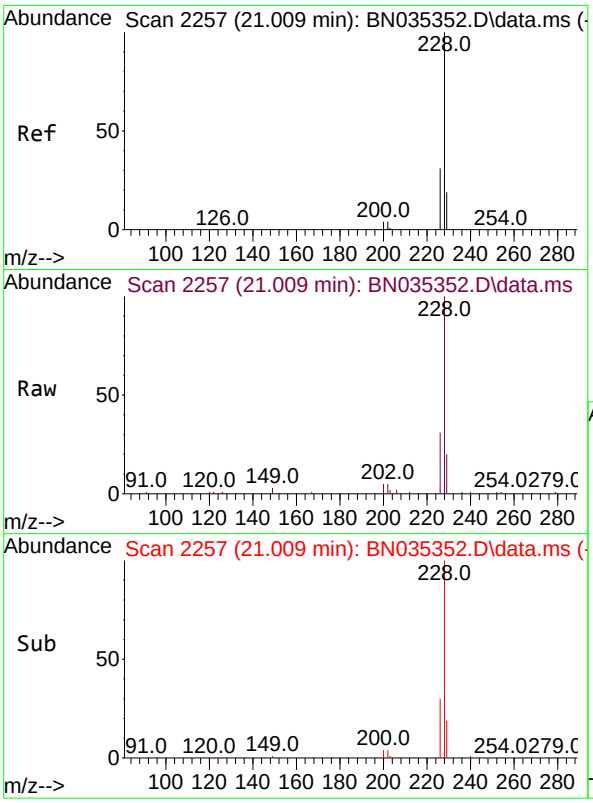



#32
Benzo(a)anthracene
Concen: 0.389 ng
RT: 20.956 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:228 Resp: 12908

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 28.1 | 22.5 | 33.7 |
| 229 | 19.8 | 15.8 | 23.8 |

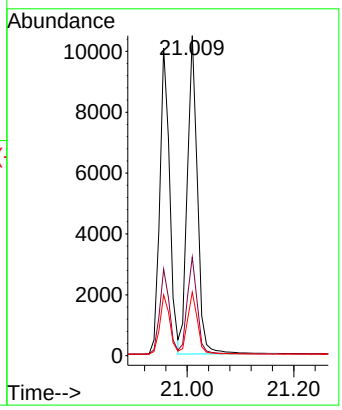





#33
Chrysene
Concen: 0.418 ng
RT: 21.009 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:228 Resp: 1372

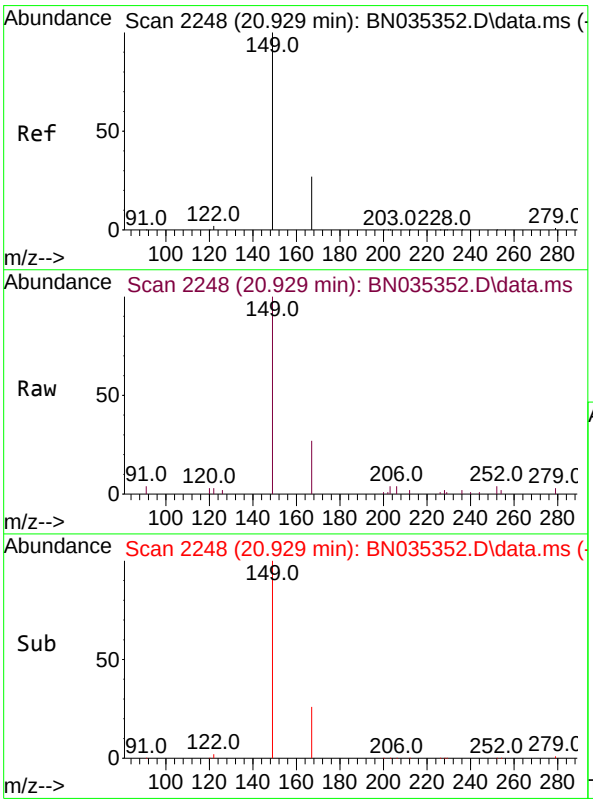
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 30.8 | 24.6 | 37.0 |
| 229 | 19.9 | 15.9 | 23.9 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICCC0.4

**Manual Integrations APPROVED**

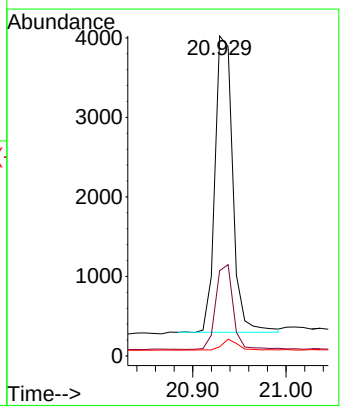
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

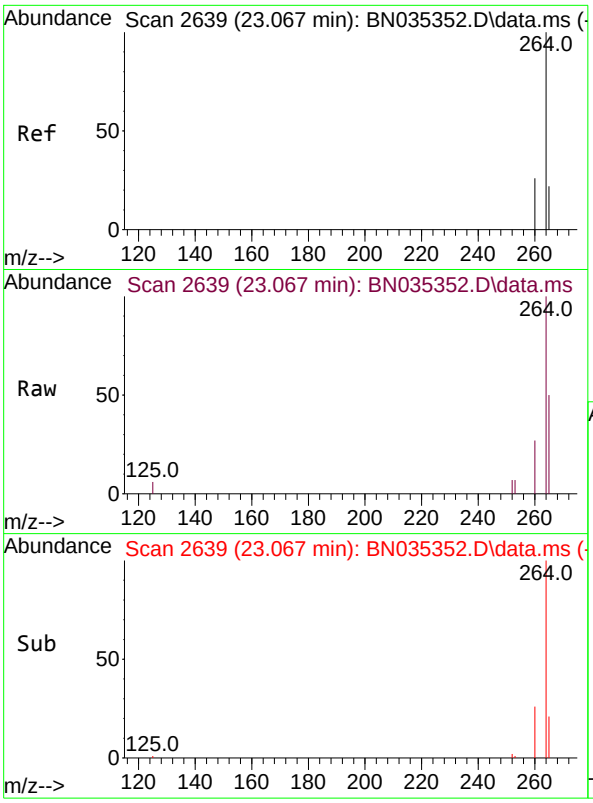



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.282 ng
RT: 20.929 min Scan# 2248
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:149 Resp: 4912

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 27.8 | 22.2 | 33.4 |
| 279 | 3.4 | 2.7 | 4.1 |

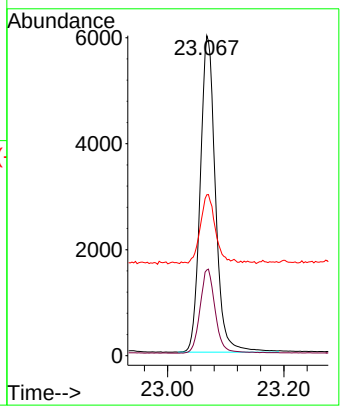





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.067 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:264 Resp: 1084

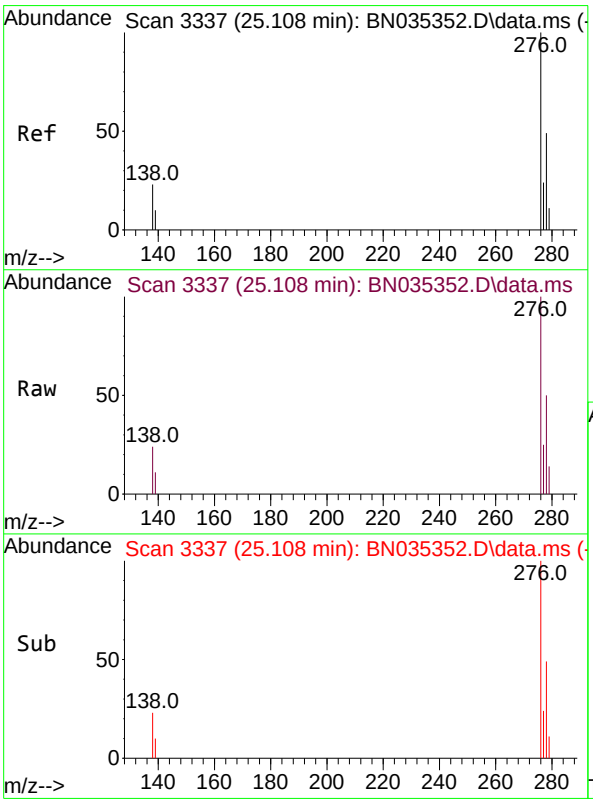
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 26.8 | 21.4 | 32.2 |
| 265 | 50.3 | 40.2 | 60.4 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICCC0.4

**Manual Integrations**
**APPROVED**

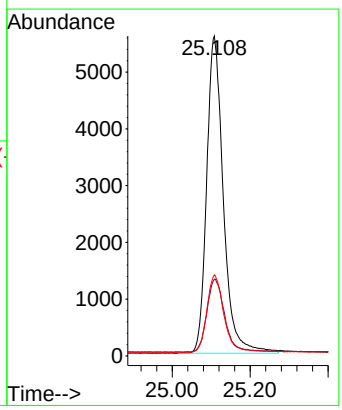
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

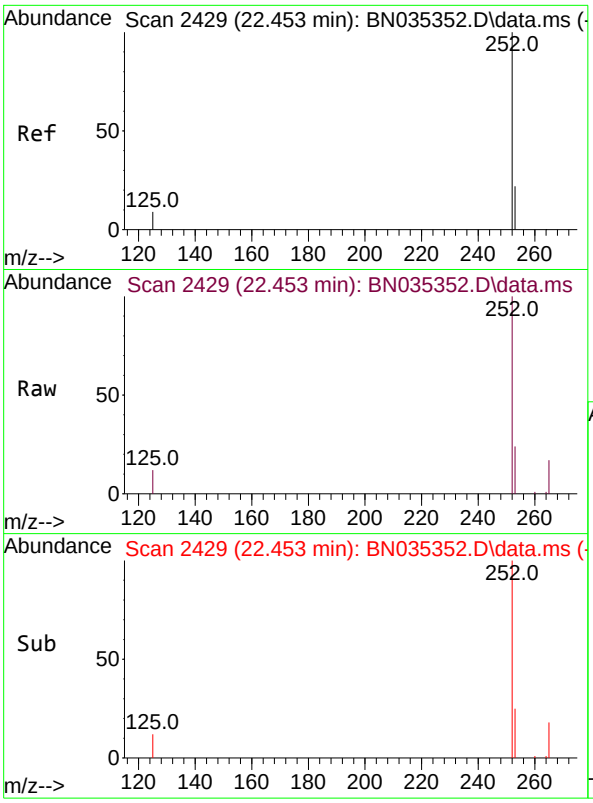



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.384 ng
RT: 25.108 min Scan# 3337
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:276 Resp: 16615

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 24.2 | 19.4 | 29.0 |
| 277 | 24.7 | 19.8 | 29.6 |

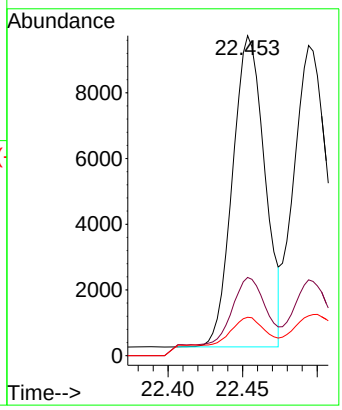





#37
Benzo(b)fluoranthene
Concen: 0.390 ng
RT: 22.453 min Scan# 24
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:252 Resp: 1423

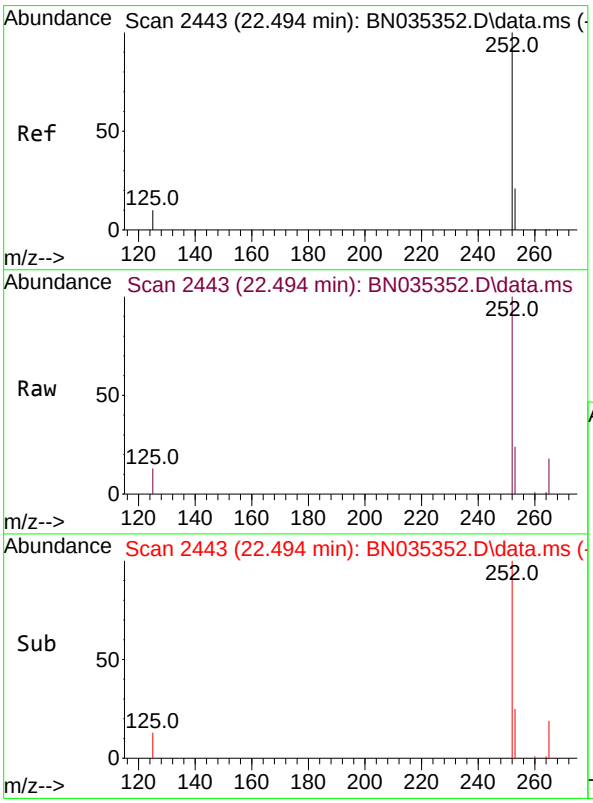
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 24.5 | 19.6 | 29.4 |
| 125 | 12.0 | 9.6 | 14.4 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICCC0.4

**Manual Integrations**
**APPROVED**

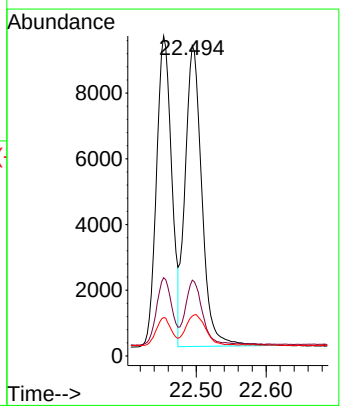
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

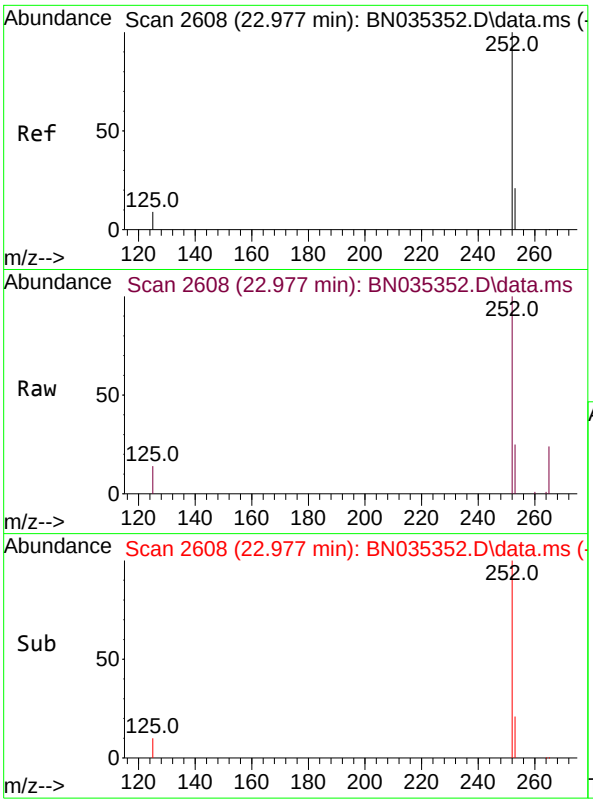



#38
Benzo(k)fluoranthene
Concen: 0.416 ng
RT: 22.494 min Scan# 2443
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:252 Resp: 15199

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 24.4 | 19.5 | 29.3 |
| 125 | 12.8 | 10.2 | 15.4 |

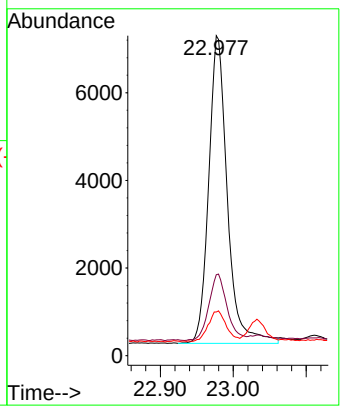





#39
Benzo(a)pyrene
Concen: 0.387 ng
RT: 22.977 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:252 Resp: 1242

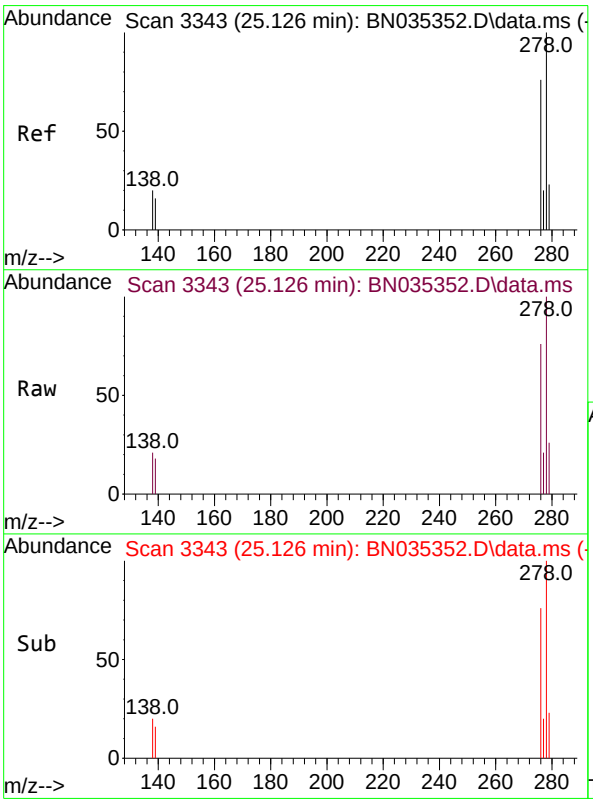
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 25.3 | 20.2 | 30.4 |
| 125 | 13.6 | 10.9 | 16.3 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICCC0.4

**Manual Integrations APPROVED**

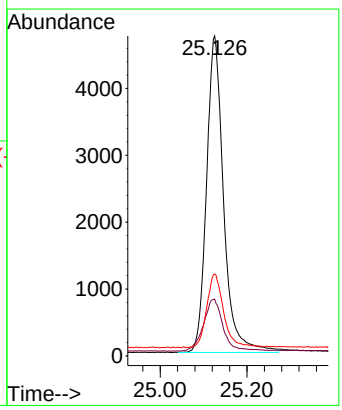
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

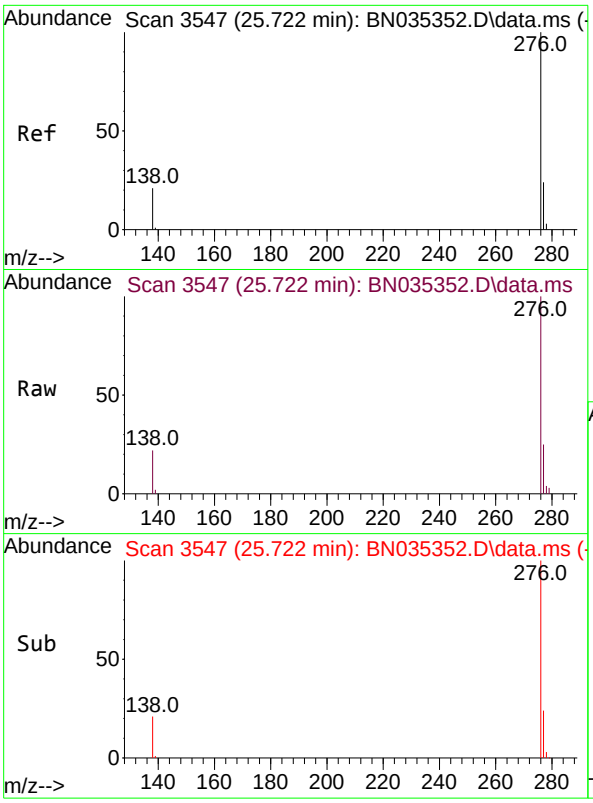



#40
Dibenzo(a,h)anthracene
Concen: 0.378 ng
RT: 25.126 min Scan# 3343
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:278 Resp: 12948

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 17.8 | 14.2 | 21.4 |
| 279 | 25.6 | 20.5 | 30.7 |

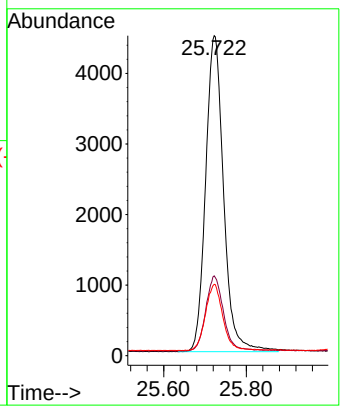





#41
Benzo(g,h,i)perylene
Concen: 0.371 ng
RT: 25.722 min Scan# 3
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:276 Resp: 1352

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 24.9 | 19.9 | 29.9 |
| 138 | 22.3 | 17.8 | 26.8 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICCC0.4

**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035353.D
Acq On : 27 Nov 2024 17:21
Operator : RC/JU
Sample : SSTDICC0.8
Misc :
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.8

Quant Time: Nov 27 22:53:10 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration

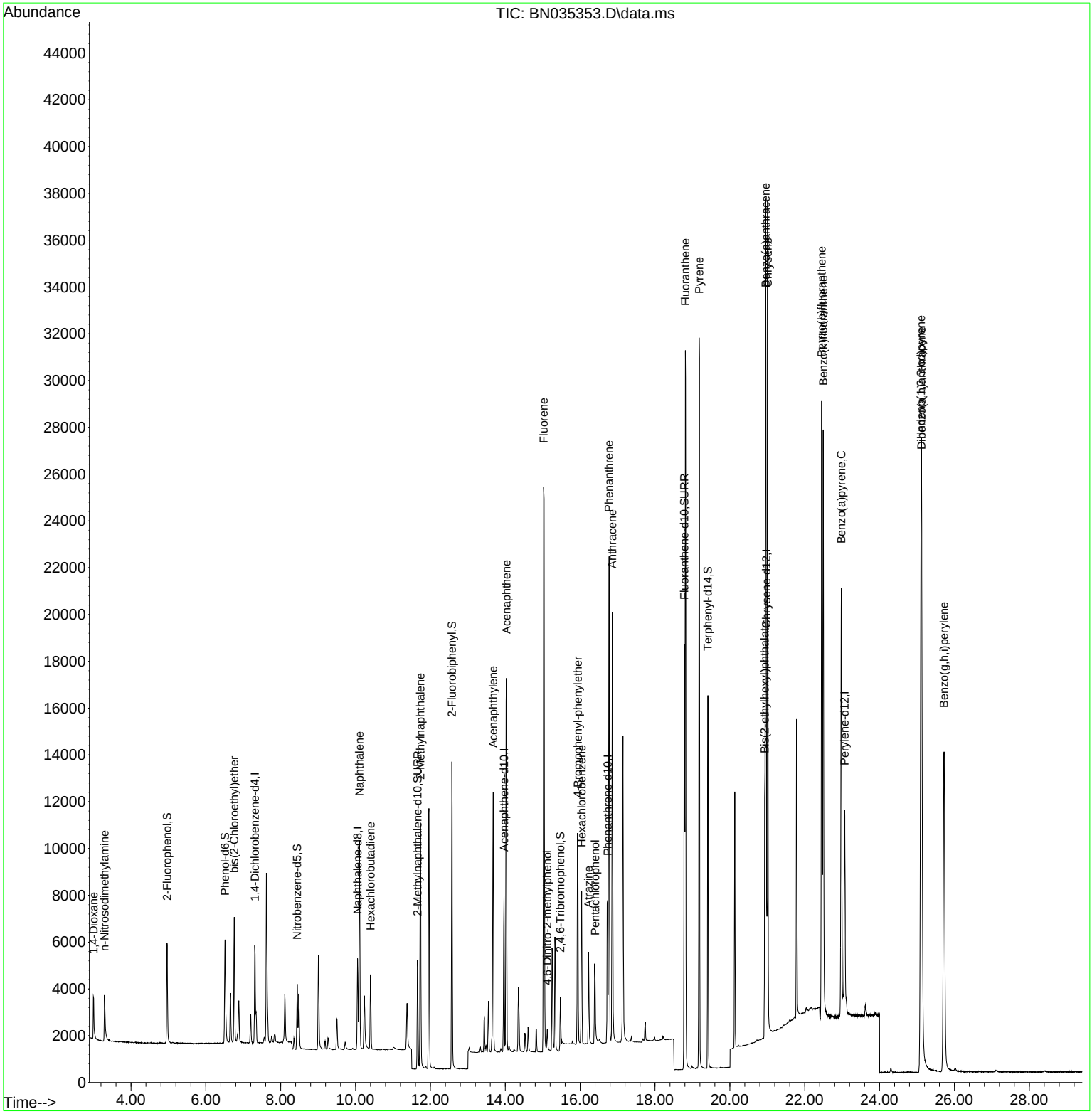
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.308 | 152 | 2047 | 0.400 | ng | | 0.00 |
| 7) Naphthalene-d8 | 10.052 | 136 | 5308 | 0.400 | ng | | 0.00 |
| 13) Acenaphthene-d10 | 13.967 | 164 | 3823 | 0.400 | ng | | 0.00 |
| 19) Phenanthrene-d10 | 16.736 | 188 | 9525 | 0.400 | ng | | 0.00 |
| 29) Chrysene-d12 | 20.974 | 240 | 9837 | 0.400 | ng | | 0.00 |
| 35) Perylene-d12 | 23.067 | 264 | 10698 | 0.400 | ng | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 4) 2-Fluorophenol | 4.968 | 112 | 3924 | 0.755 | ng | | 0.00 |
| 5) Phenol-d6 | 6.513 | 99 | 4681 | 0.718 | ng | | 0.00 |
| 8) Nitrobenzene-d5 | 8.440 | 82 | 2634 | 0.570 | ng | | 0.00 |
| 11) 2-Methylnaphthalene-d10 | 11.656 | 152 | 6530 | 0.690 | ng | | 0.00 |
| 14) 2,4,6-Tribromophenol | 15.475 | 330 | 2051 | 0.744 | ng | | 0.00 |
| 15) 2-Fluorobiphenyl | 12.574 | 172 | 11528 | 0.742 | ng | | 0.00 |
| 27) Fluoranthene-d10 | 18.785 | 212 | 21050 | 0.721 | ng | | 0.00 |
| 31) Terphenyl-d14 | 19.412 | 244 | 15171 | 0.735 | ng | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.003 | 88 | 1554 | 0.836 | ng | | 99 |
| 3) n-Nitrosodimethylamine | 3.292 | 42 | 1291 | 0.745 | ng | # | 98 |
| 6) bis(2-Chloroethyl)ether | 6.759 | 93 | 4066 | 0.831 | ng | | 100 |
| 9) Naphthalene | 10.105 | 128 | 10954 | 0.790 | ng | | 99 |
| 10) Hexachlorobutadiene | 10.404 | 225 | 2559 | 0.630 | ng | # | 100 |
| 12) 2-Methylnaphthalene | 11.732 | 142 | 7925 | 0.775 | ng | | 99 |
| 16) Acenaphthylene | 13.679 | 152 | 12523 | 0.766 | ng | | 100 |
| 17) Acenaphthene | 14.031 | 154 | 8470 | 0.791 | ng | | 99 |
| 18) Fluorene | 15.026 | 166 | 12232 | 0.777 | ng | | 99 |
| 20) 4,6-Dinitro-2-methylph... | 15.122 | 198 | 784 | 0.395 | ng | # | 88 |
| 21) 4-Bromophenyl-phenylether | 15.941 | 248 | 4440 | 0.732 | ng | | 98 |
| 22) Hexachlorobenzene | 16.041 | 284 | 5253 | 0.834 | ng | | 99 |
| 23) Atrazine | 16.227 | 200 | 2978 | 0.547 | ng | | 99 |
| 24) Pentachlorophenol | 16.400 | 266 | 1968 | 0.669 | ng | | 87 |
| 25) Phenanthrene | 16.773 | 178 | 20803 | 0.830 | ng | | 100 |
| 26) Anthracene | 16.860 | 178 | 18528 | 0.805 | ng | | 99 |
| 28) Fluoranthene | 18.813 | 202 | 27743 | 0.805 | ng | | 100 |
| 30) Pyrene | 19.180 | 202 | 28384 | 0.866 | ng | | 100 |
| 32) Benzo(a)anthracene | 20.956 | 228 | 27048 | 0.790 | ng | | 99 |
| 33) Chrysene | 21.010 | 228 | 27838 | 0.820 | ng | | 99 |
| 34) Bis(2-ethylhexyl)phtha... | 20.929 | 149 | 9941 | 0.553 | ng | | 100 |
| 36) Indeno(1,2,3-cd)pyrene | 25.108 | 276 | 33248 | 0.779 | ng | | 100 |
| 37) Benzo(b)fluoranthene | 22.453 | 252 | 29491 | 0.819 | ng | | 96 |
| 38) Benzo(k)fluoranthene | 22.494 | 252 | 30369 | 0.843 | ng | | 96 |
| 39) Benzo(a)pyrene | 22.977 | 252 | 25053 | 0.791 | ng | | 96 |
| 40) Dibenzo(a,h)anthracene | 25.123 | 278 | 26222 | 0.775 | ng | | 98 |
| 41) Benzo(g,h,i)perylene | 25.722 | 276 | 27143 | 0.755 | ng | | 98 |

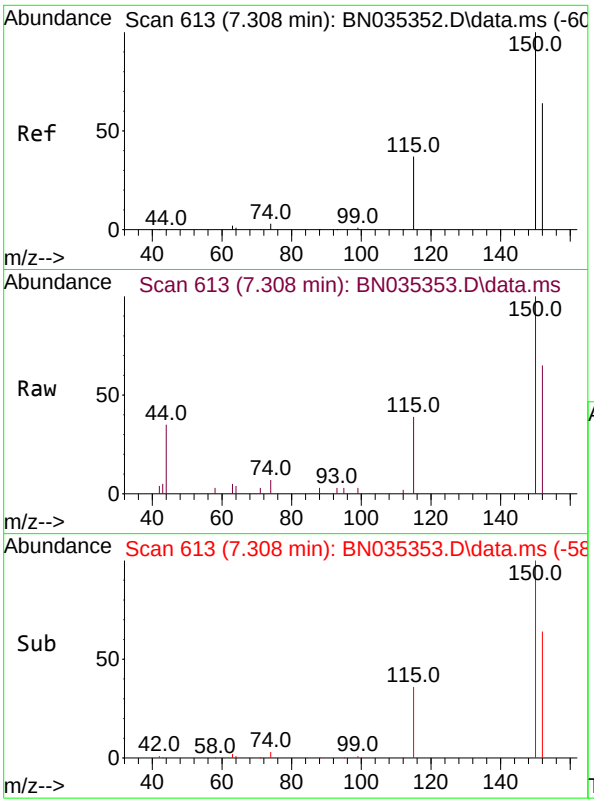
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035353.D
Acq On : 27 Nov 2024 17:21
Operator : RC/JU
Sample : SSTDICC0.8
Misc :
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.8

Quant Time: Nov 27 22:53:10 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration



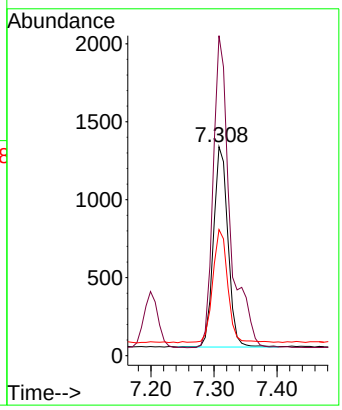


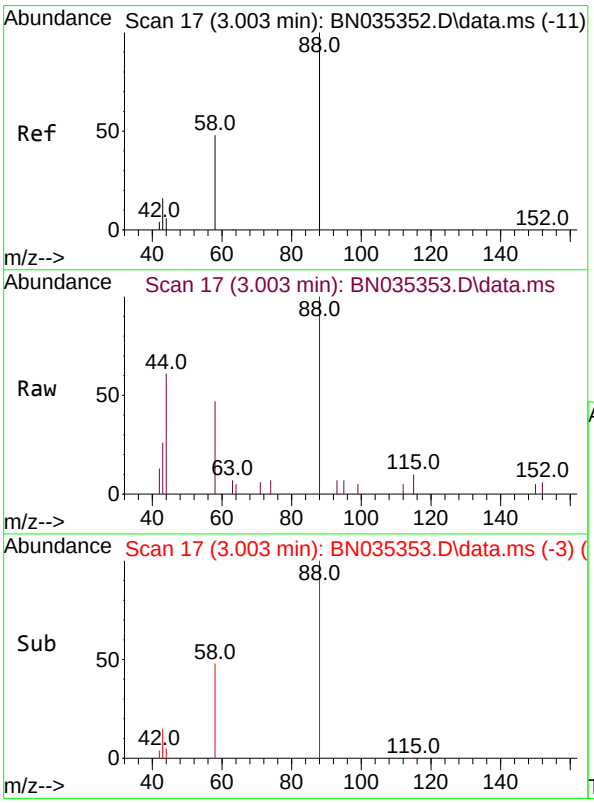

#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.8

Tgt Ion:152 Resp: 2047

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 153.1 | 124.0 | 186.0 |
| 115 | 60.3 | 49.6 | 74.4 |

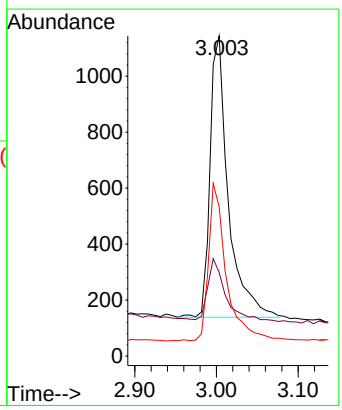


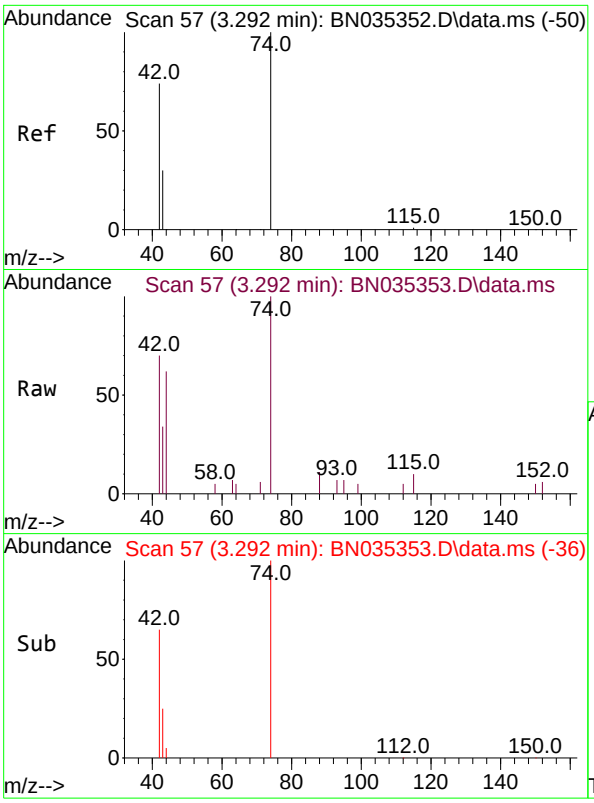




#2
1,4-Dioxane
Concen: 0.836 ng
RT: 3.003 min Scan# 17
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion: 88 Resp: 1554

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 22.1 | 17.2 | 25.8 |
| 58 | 54.8 | 44.5 | 66.7 |



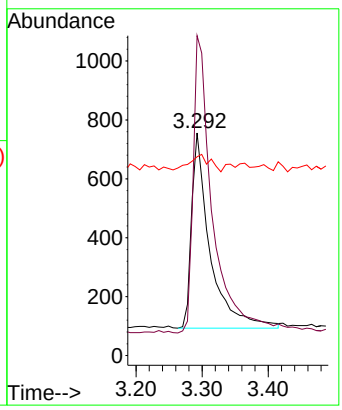


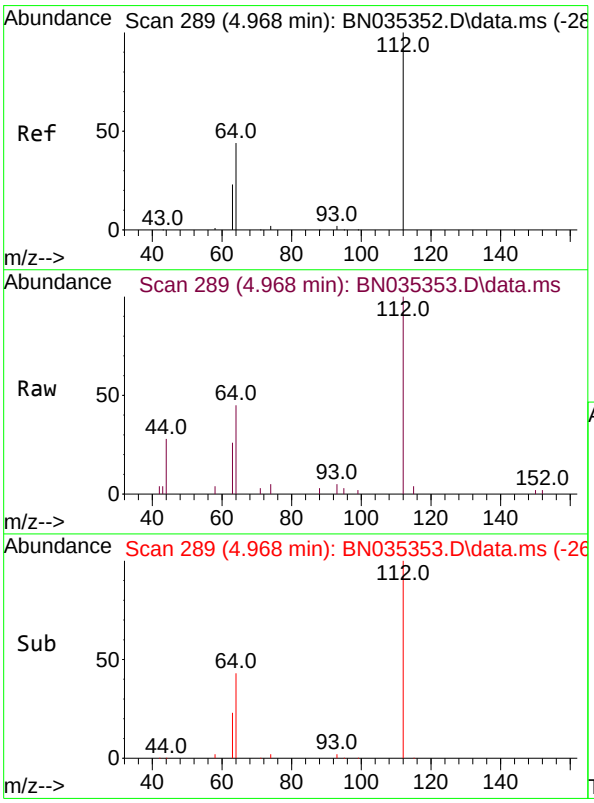

#3
n-Nitrosodimethylamine
Concen: 0.745 ng
RT: 3.292 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.8

Tgt Ion: 42 Resp: 1291

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 158.7 | 124.9 | 187.3 |
| 44 | 9.8 | 2.2 | 3.4# |

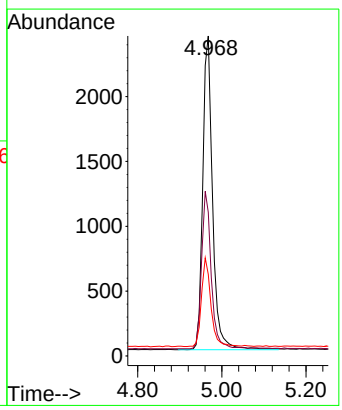


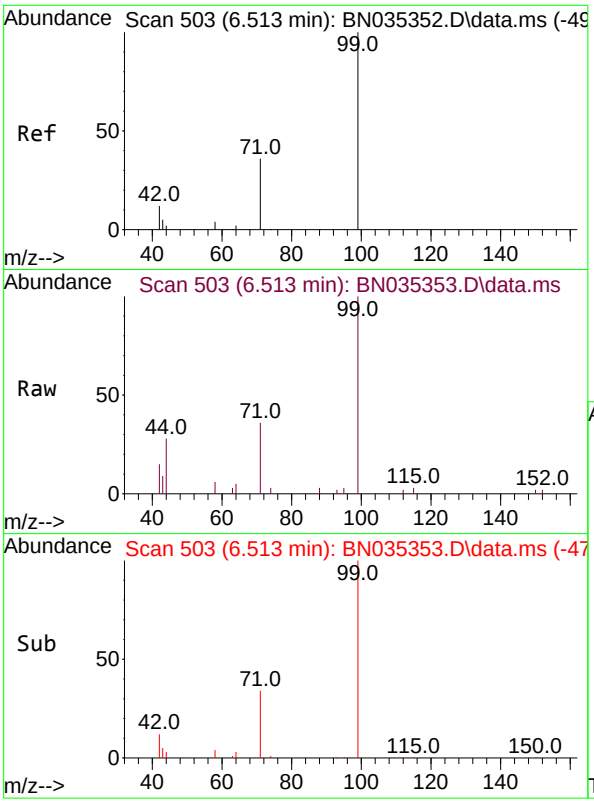




#4
2-Fluorophenol
Concen: 0.755 ng
RT: 4.968 min Scan# 289
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion:112 Resp: 3924

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 49.0 | 39.8 | 59.8 |
| 63 | 27.0 | 21.0 | 31.6 |



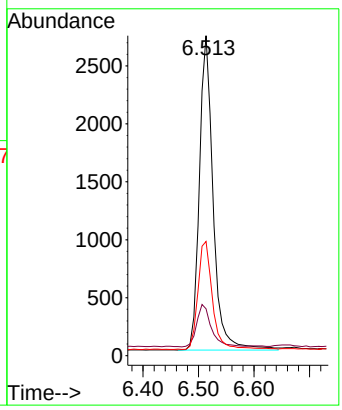


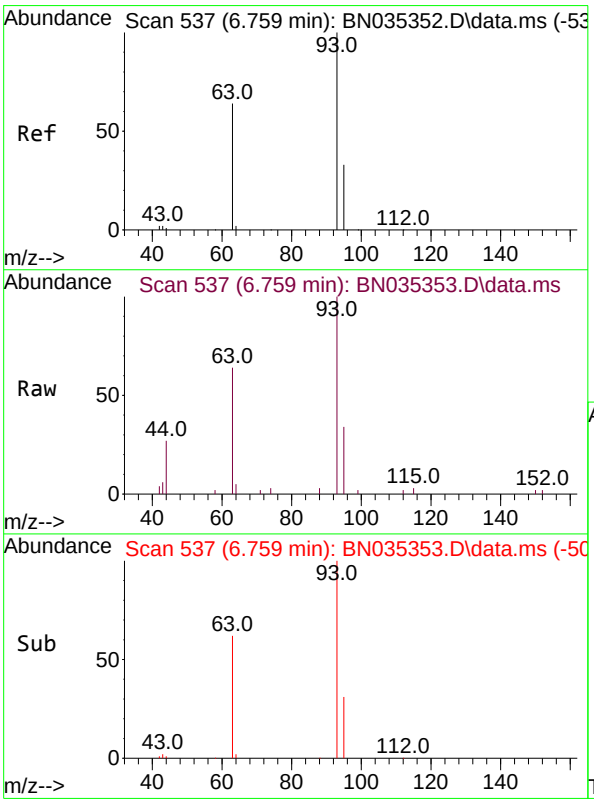

#5
Phenol-d6
Concen: 0.718 ng
RT: 6.513 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.8

Tgt Ion: 99 Resp: 4681

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 14.3 | 11.4 | 17.2 |
| 71 | 36.1 | 29.3 | 43.9 |

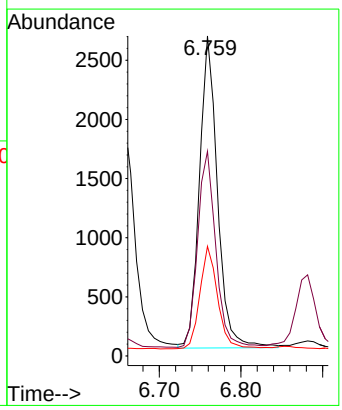


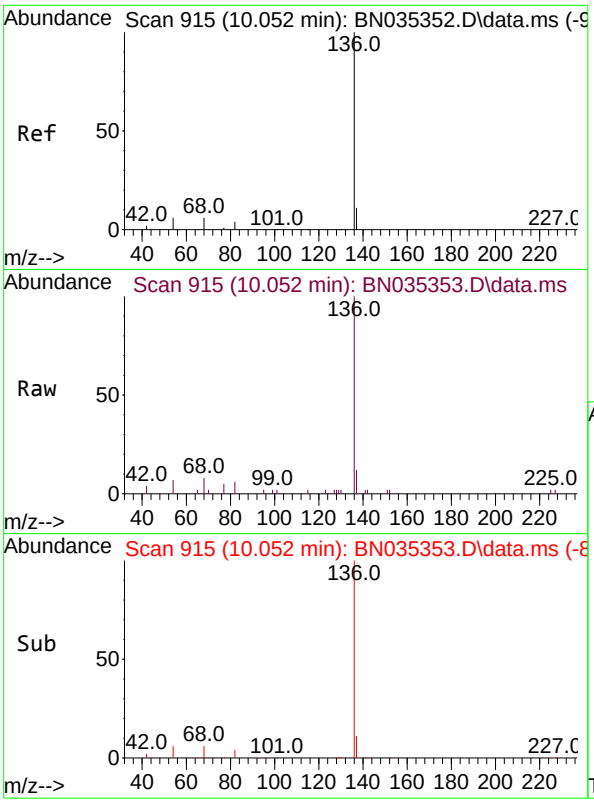




#6
bis(2-Chloroethyl)ether
Concen: 0.831 ng
RT: 6.759 min Scan# 537
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion: 93 Resp: 4066

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 62.8 | 50.4 | 75.6 |
| 95 | 32.4 | 25.7 | 38.5 |



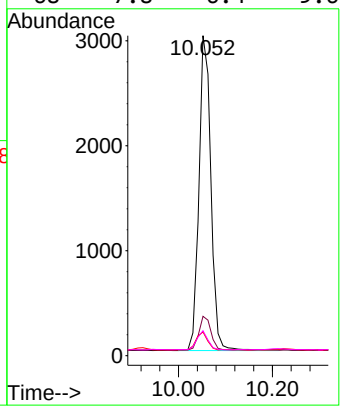


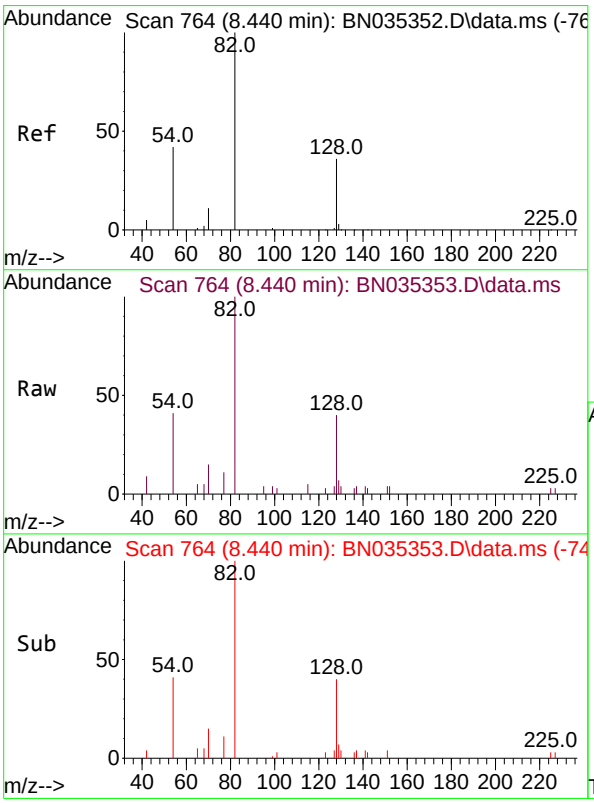

#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.8

Tgt Ion:136 Resp: 5308

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 12.3 | 10.2 | 15.2 |
| 54 | 7.4 | 6.1 | 9.1 |
| 68 | 7.8 | 6.4 | 9.6 |

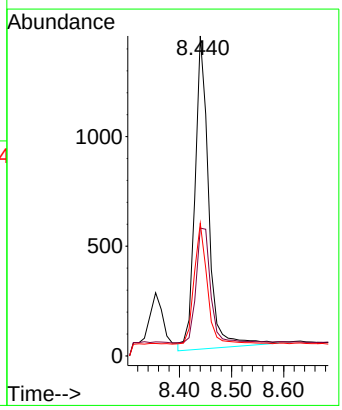


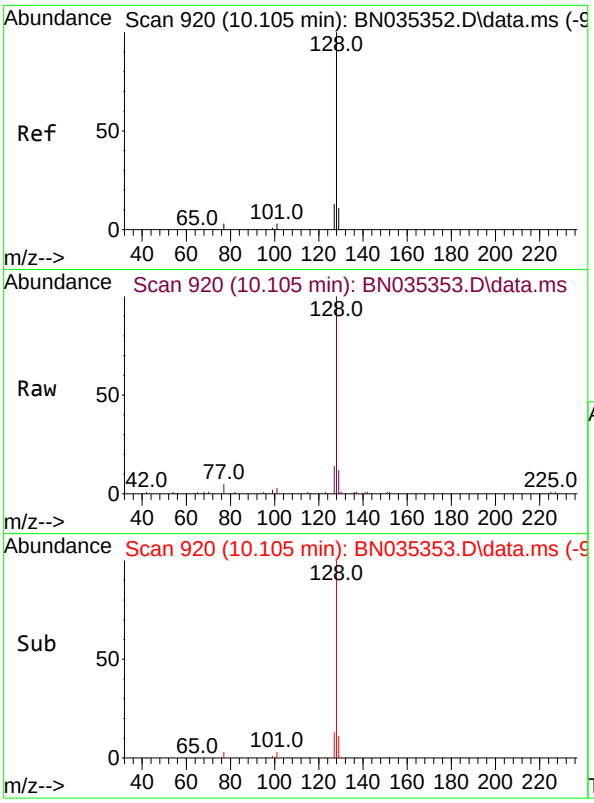




#8
Nitrobenzene-d5
Concen: 0.570 ng
RT: 8.440 min Scan# 764
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion: 82 Resp: 2634

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 40.0 | 33.4 | 50.0 |
| 54 | 41.5 | 36.7 | 55.1 |



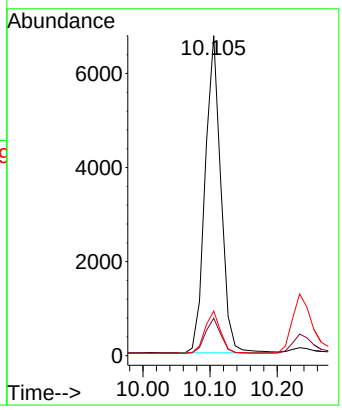


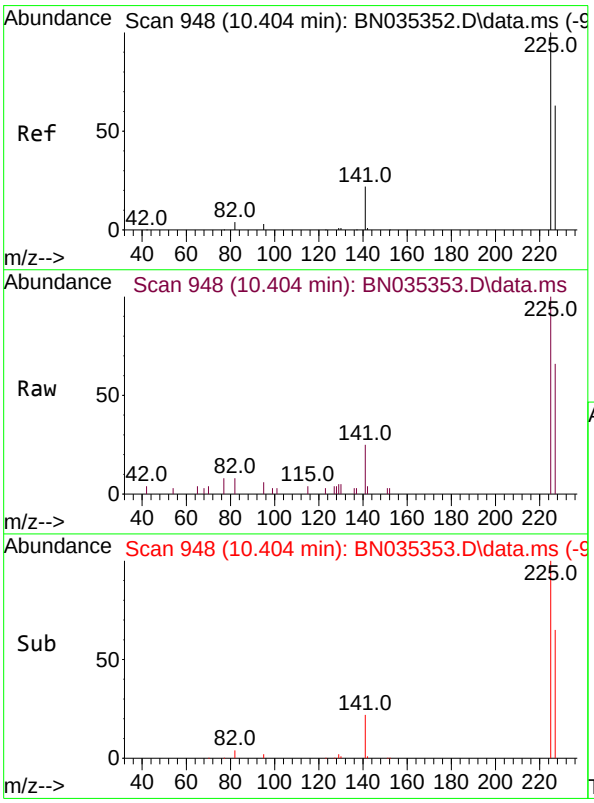

#9
Naphthalene
Concen: 0.790 ng
RT: 10.105 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.8

Tgt Ion:128 Resp: 10954

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 11.7 | 9.8 | 14.6 |
| 127 | 13.9 | 11.4 | 17.2 |

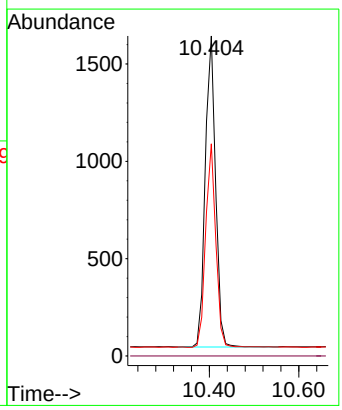


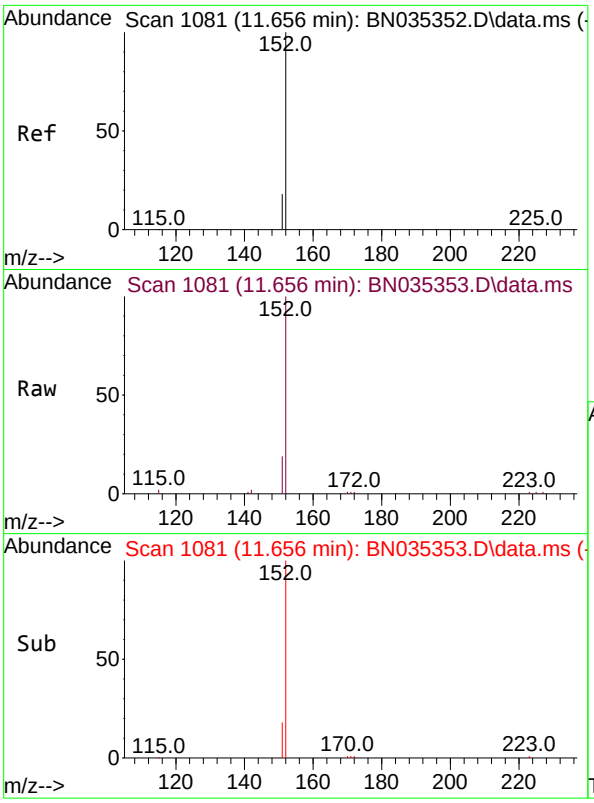




#10
Hexachlorobutadiene
Concen: 0.630 ng
RT: 10.404 min Scan# 948
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion:225 Resp: 2559

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 0.0 | 0.0 | 0.0 |
| 227 | 64.1 | 51.3 | 76.9 |



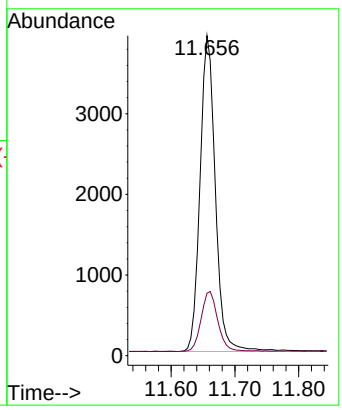


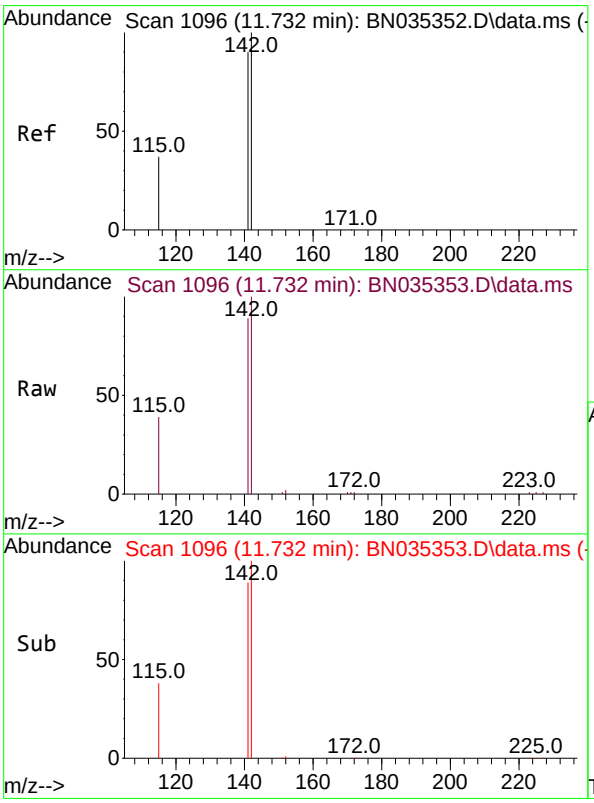

#11
2-Methylnaphthalene-d10
Concen: 0.690 ng
RT: 11.656 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.8

Tgt Ion:152 Resp: 6530

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.8 | 16.6 | 25.0 |

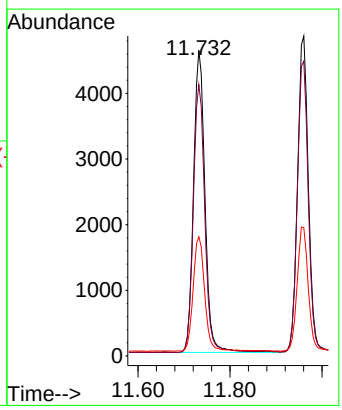


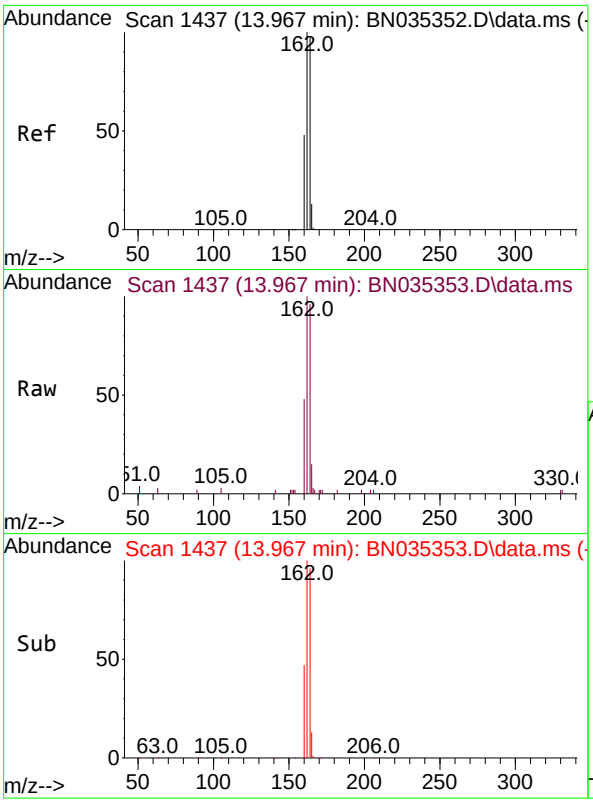




#12
2-Methylnaphthalene
Concen: 0.775 ng
RT: 11.732 min Scan# 1096
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion:142 Resp: 7925

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 88.8 | 72.2 | 108.4 |
| 115 | 39.0 | 31.4 | 47.0 |



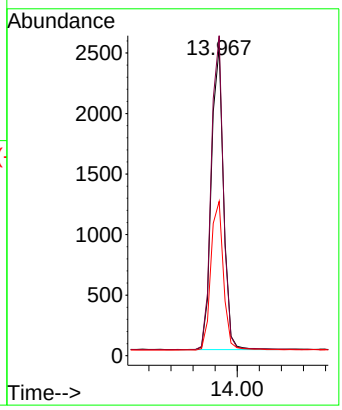


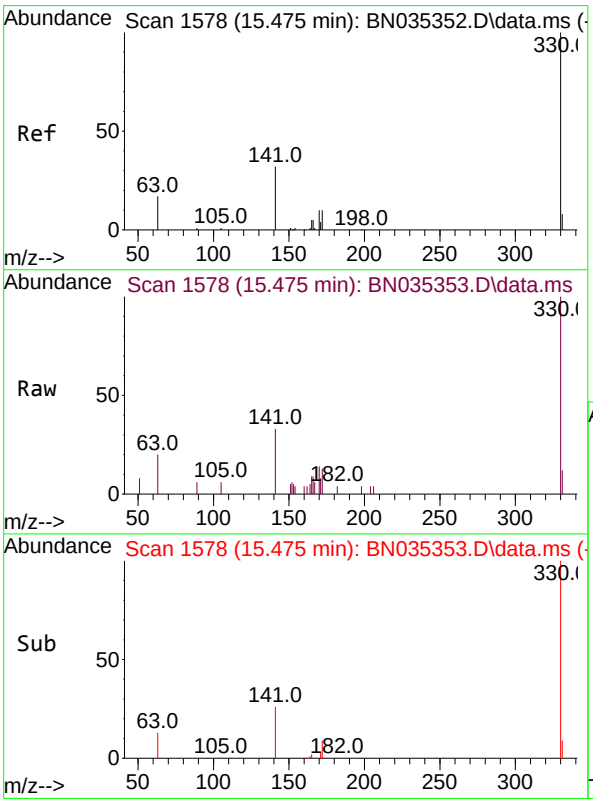

#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.8

Tgt Ion:164 Resp: 3823

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 103.9 | 82.2 | 123.2 |
| 160 | 50.1 | 40.1 | 60.1 |

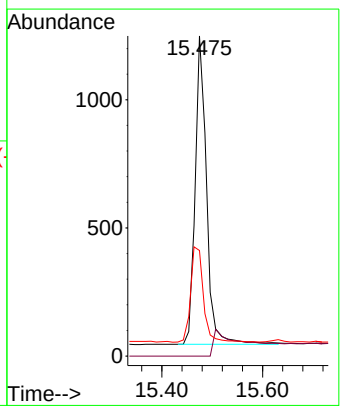


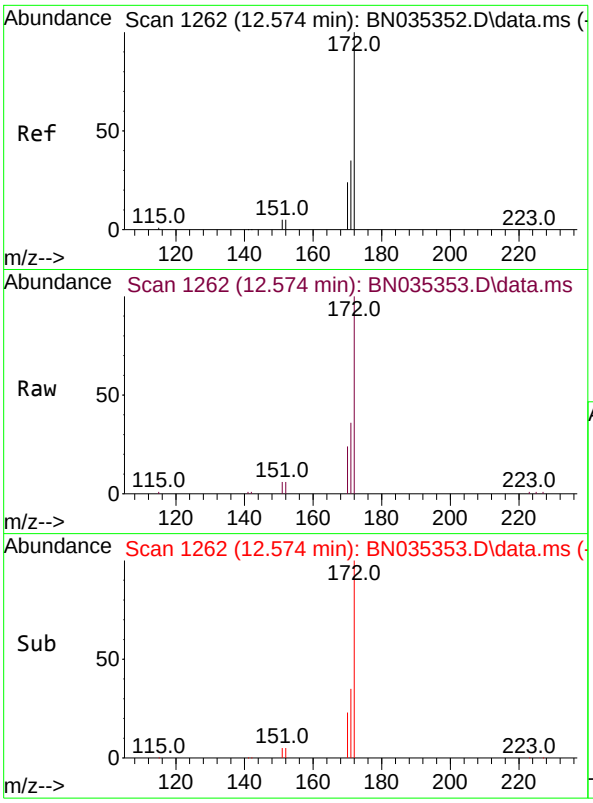




#14
2,4,6-Tribromophenol
Concen: 0.744 ng
RT: 15.475 min Scan# 1578
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion:330 Resp: 2051

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 0.0 | 0.0 | 0.0 |
| 141 | 34.3 | 26.6 | 40.0 |



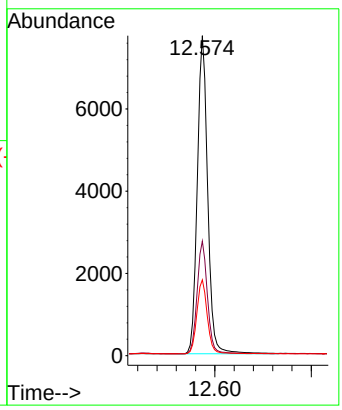


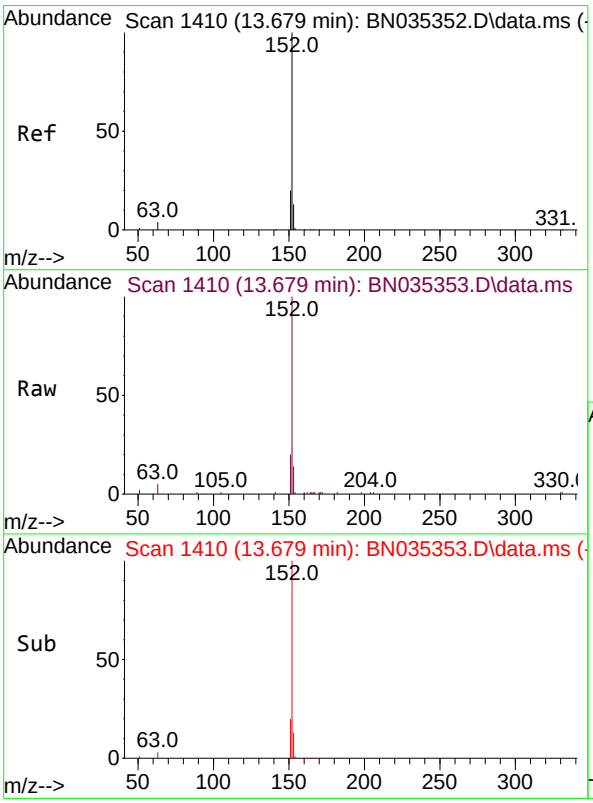

#15
2-Fluorobiphenyl
Concen: 0.742 ng
RT: 12.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.8

Tgt Ion:172 Resp: 11528

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 35.8 | 29.0 | 43.4 |
| 170 | 23.7 | 19.8 | 29.8 |

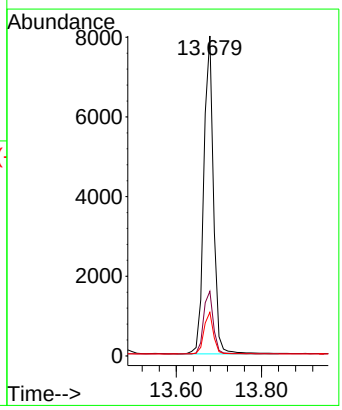


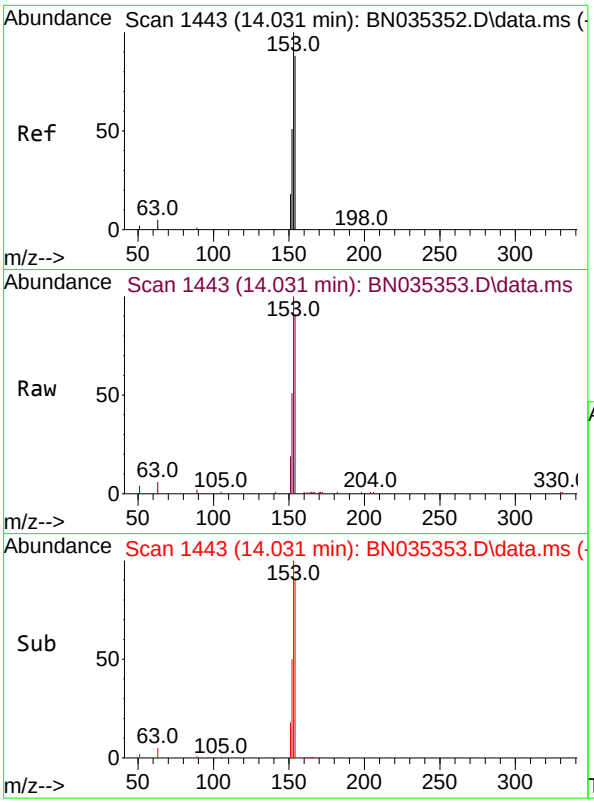




#16
Acenaphthylene
Concen: 0.766 ng
RT: 13.679 min Scan# 1410
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion:152 Resp: 12523

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.0 | 16.2 | 24.2 |
| 153 | 12.9 | 10.4 | 15.6 |



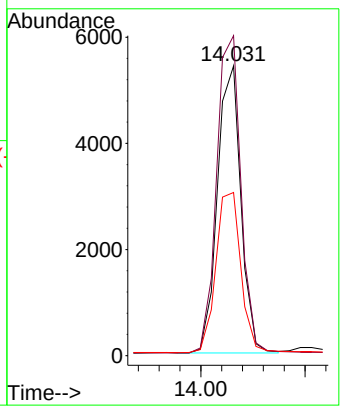


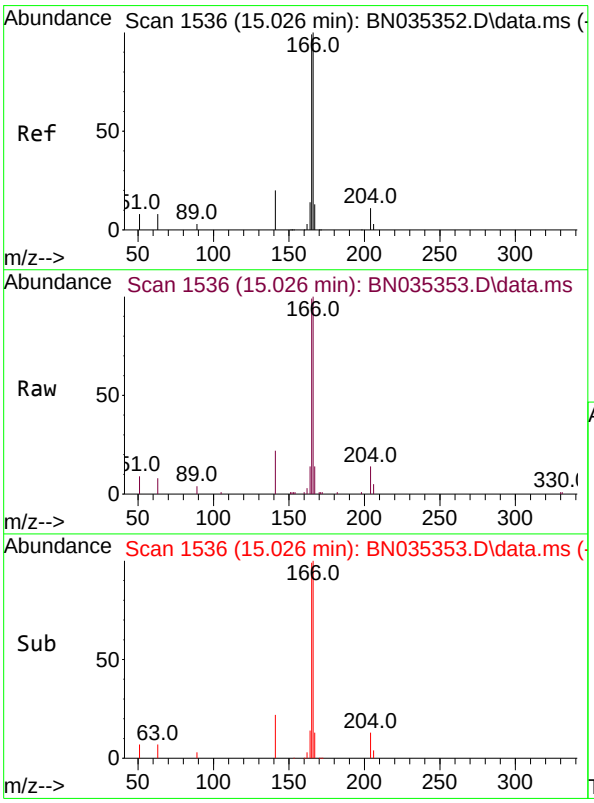

#17
Acenaphthene
Concen: 0.791 ng
RT: 14.031 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.8

Tgt Ion:154 Resp: 8470

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 114.8 | 92.6 | 139.0 |
| 152 | 60.2 | 49.0 | 73.6 |

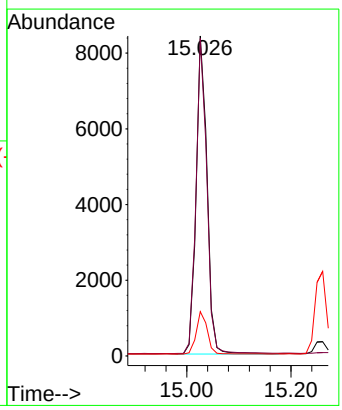


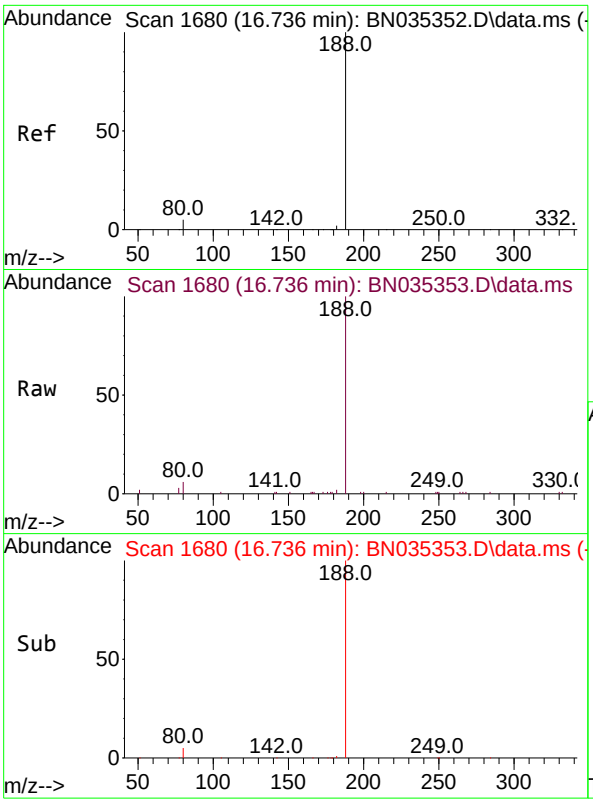




#18
Fluorene
Concen: 0.777 ng
RT: 15.026 min Scan# 1536
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion:166 Resp: 12232

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 98.5 | 79.7 | 119.5 |
| 167 | 13.5 | 10.8 | 16.2 |



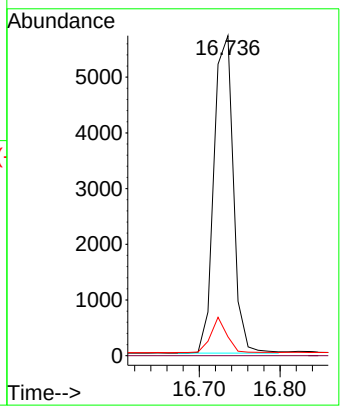


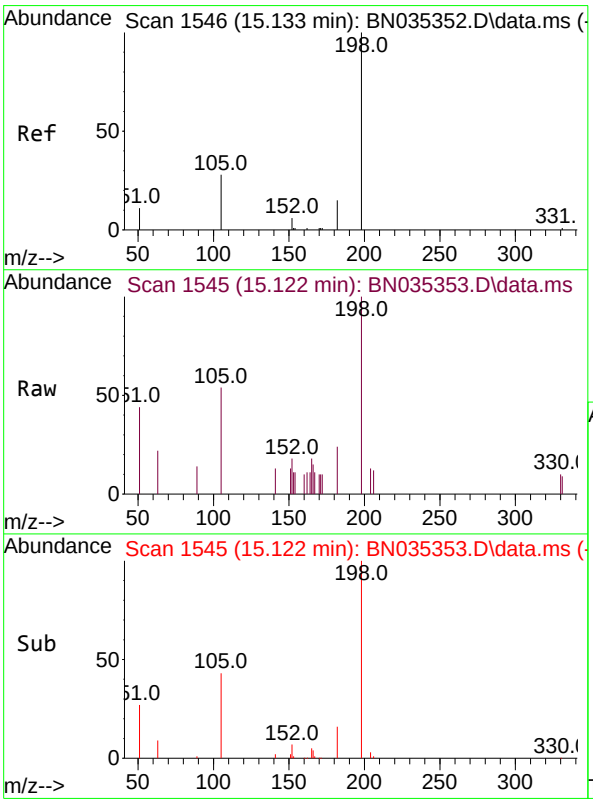

#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.736 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.8

Tgt Ion:188 Resp: 9525

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 5.9 | 4.6 | 6.8 |

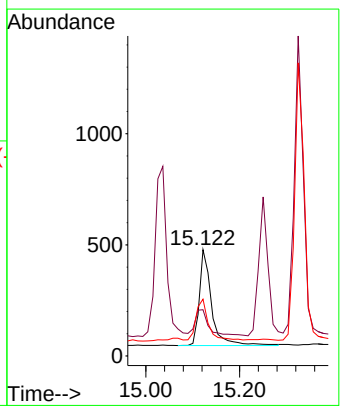


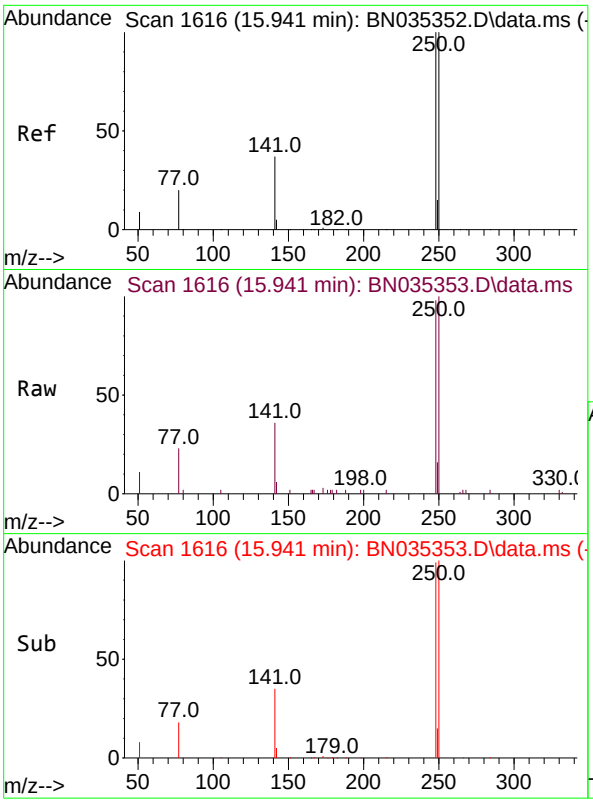




#20
4,6-Dinitro-2-methylphenol
Concen: 0.395 ng
RT: 15.122 min Scan# 1545
Delta R.T. -0.011 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion:198 Resp: 784

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 198 | 100 | | |
| 51 | 43.5 | 46.5 | 69.7# |
| 105 | 53.6 | 45.3 | 67.9 |



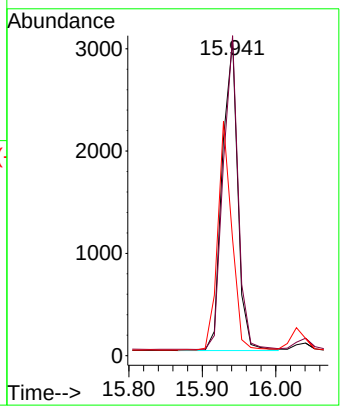


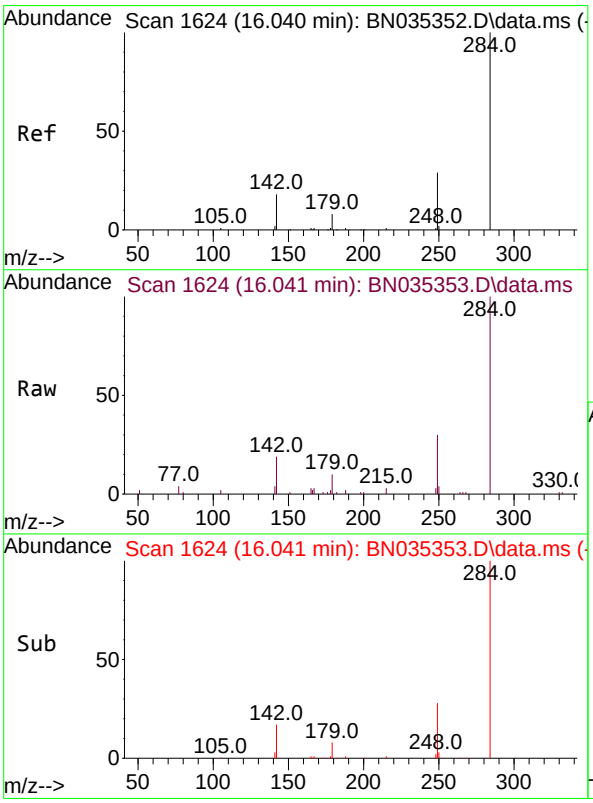

#21
4-Bromophenyl-phenylether
Concen: 0.732 ng
RT: 15.941 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.8

Tgt Ion:248 Resp: 4440

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 101.5 | 80.6 | 120.8 |
| 141 | 36.9 | 31.5 | 47.3 |

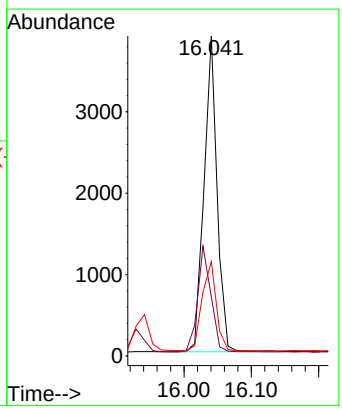


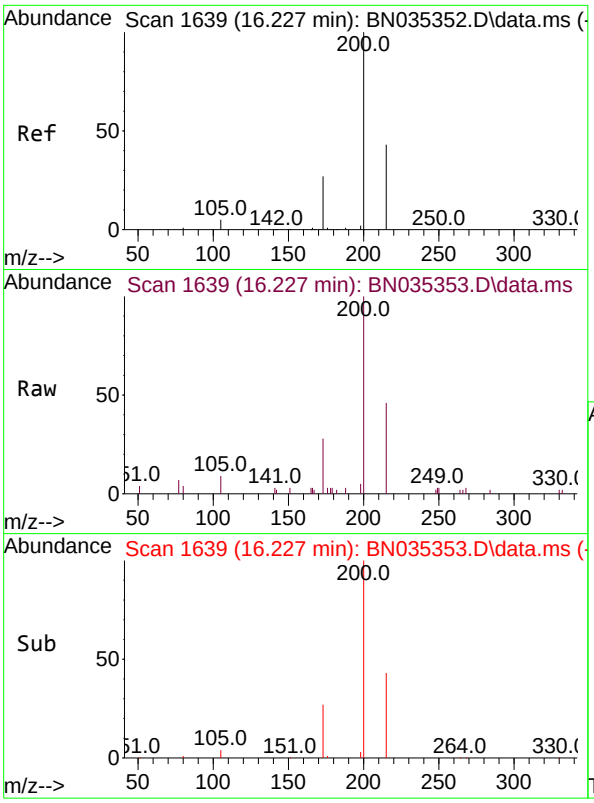




#22
Hexachlorobenzene
Concen: 0.834 ng
RT: 16.041 min Scan# 1624
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion:284 Resp: 5253

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 34.0 | 26.7 | 40.1 |
| 249 | 30.3 | 24.6 | 36.8 |



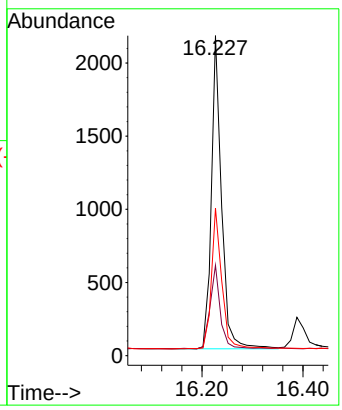


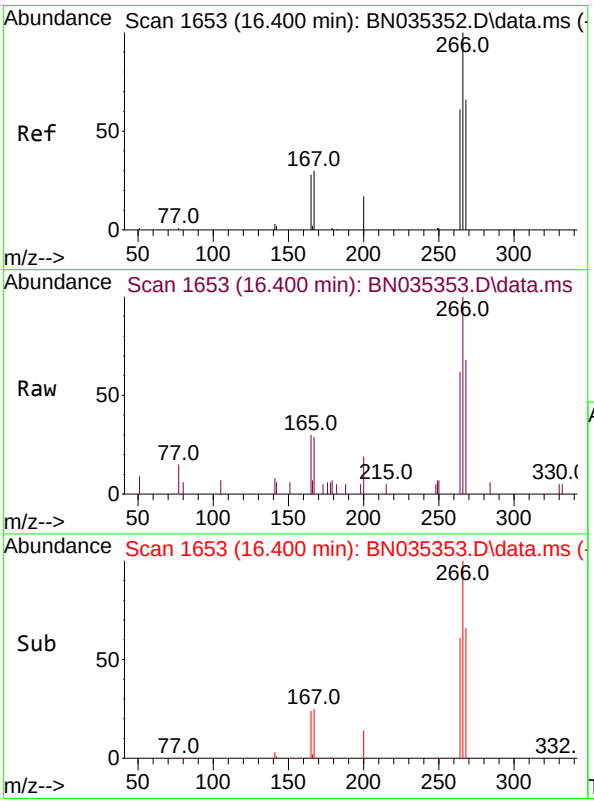

#23
Atrazine
Concen: 0.547 ng
RT: 16.227 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.8

Tgt Ion:200 Resp: 2978

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 173 | 28.3 | 24.1 | 36.1 |
| 215 | 46.1 | 36.9 | 55.3 |

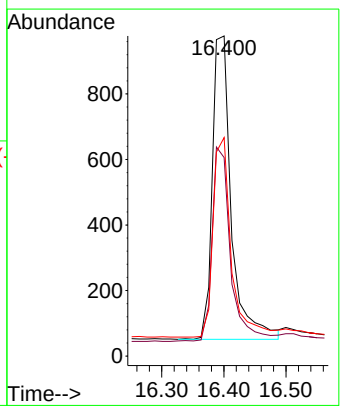


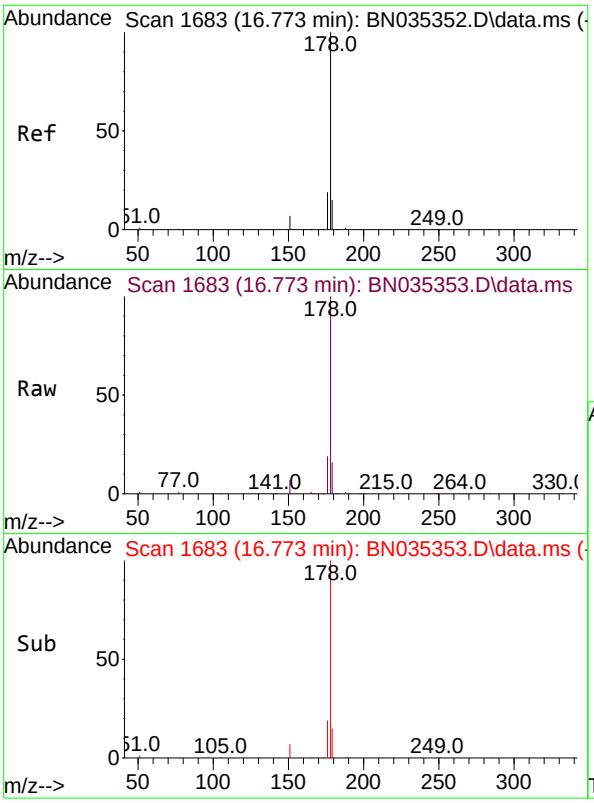




#24
Pentachlorophenol
Concen: 0.669 ng
RT: 16.400 min Scan# 1653
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion:266 Resp: 1968

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 264 | 61.9 | 42.3 | 63.5 |
| 268 | 63.7 | 43.3 | 64.9 |



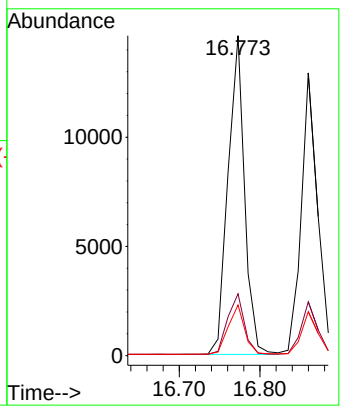


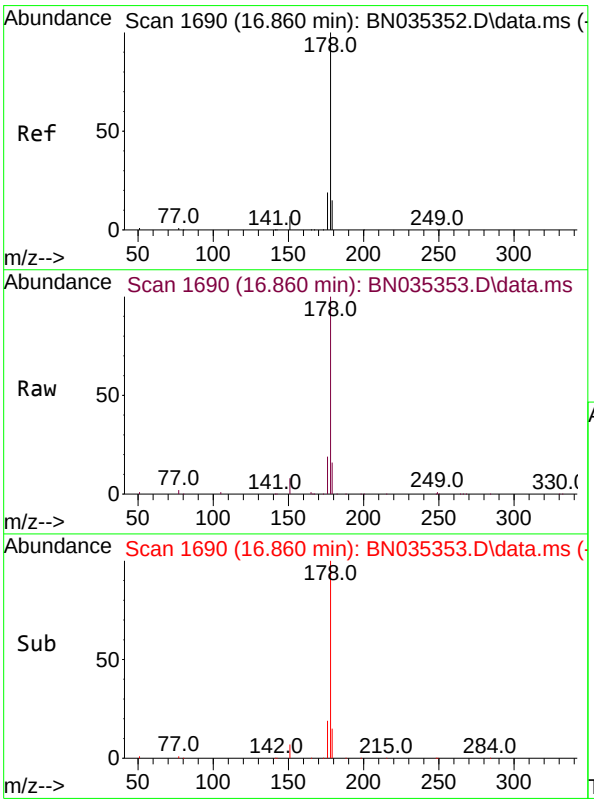

#25
Phenanthrene
Concen: 0.830 ng
RT: 16.773 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.8

Tgt Ion:178 Resp: 20803

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.4 | 15.4 | 23.2 |
| 179 | 15.4 | 12.3 | 18.5 |

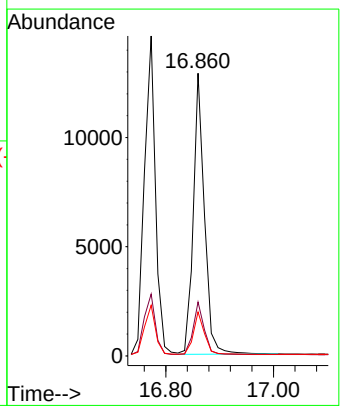


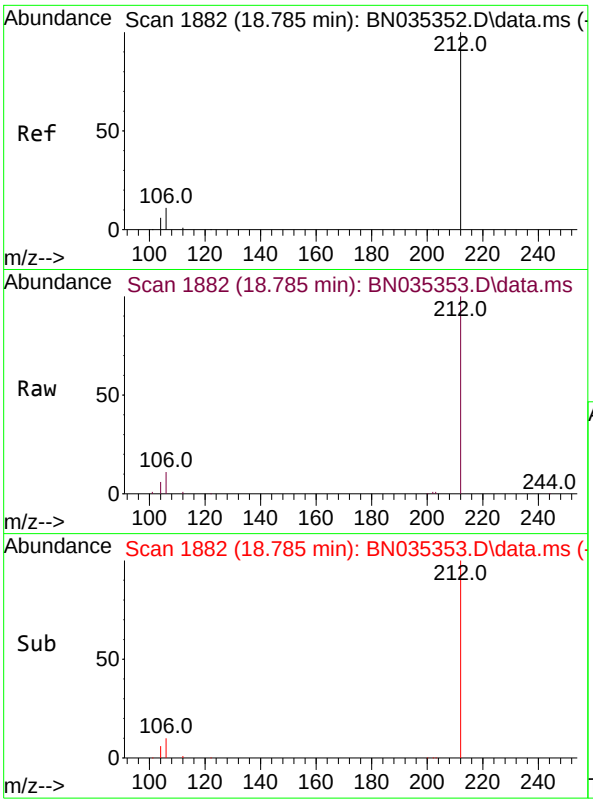




#26
Anthracene
Concen: 0.805 ng
RT: 16.860 min Scan# 1690
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion:178 Resp: 18528

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.6 | 15.0 | 22.6 |
| 179 | 15.2 | 12.6 | 18.8 |



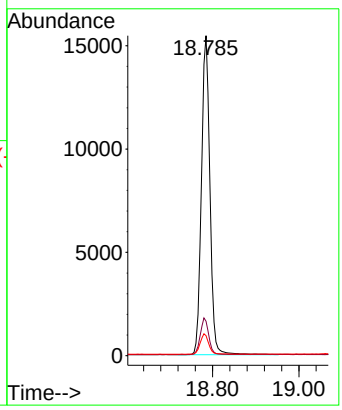


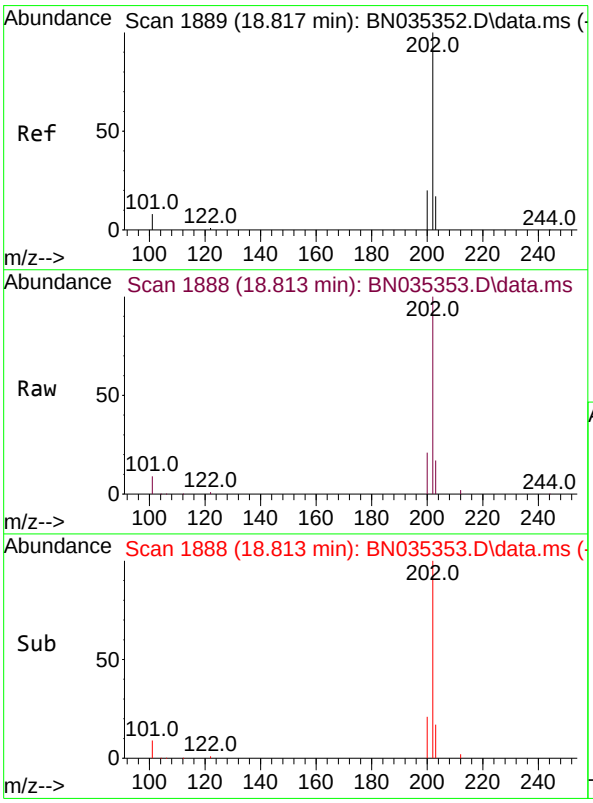

#27
Fluoranthene-d10
Concen: 0.721 ng
RT: 18.785 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.8

Tgt Ion:212 Resp: 21050

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 11.3 | 9.2 | 13.8 |
| 104 | 6.4 | 5.3 | 7.9 |

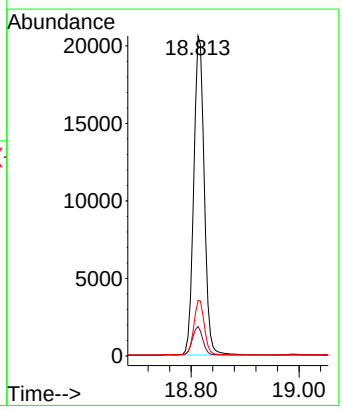


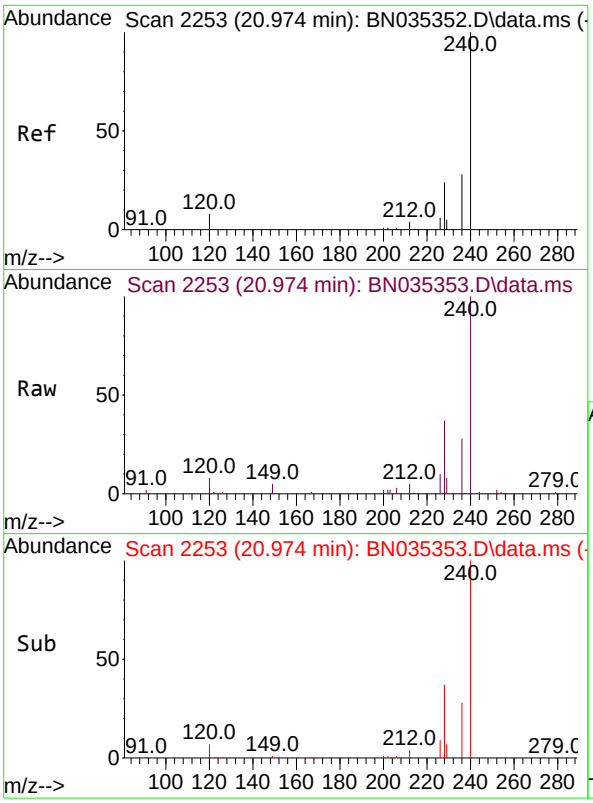




#28
Fluoranthene
Concen: 0.805 ng
RT: 18.813 min Scan# 1888
Delta R.T. -0.005 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion:202 Resp: 27743

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 9.1 | 7.4 | 11.0 |
| 203 | 17.1 | 13.7 | 20.5 |



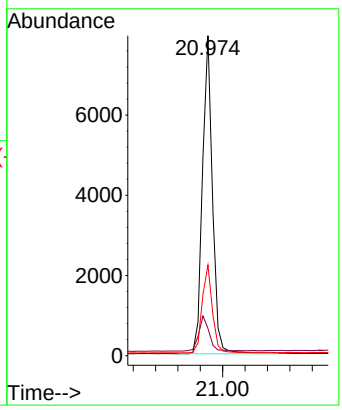


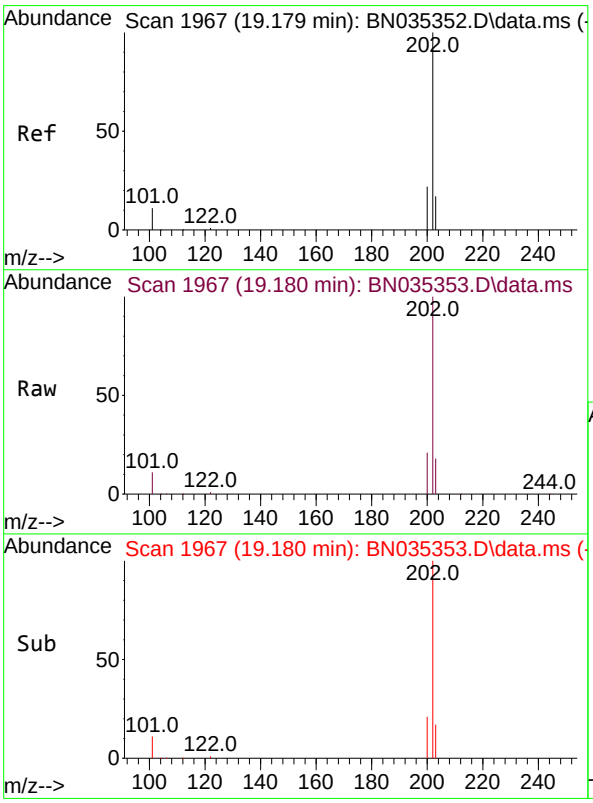

#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.974 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.8

Tgt Ion:240 Resp: 9837

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 8.5 | 7.9 | 11.9 |
| 236 | 28.3 | 22.9 | 34.3 |

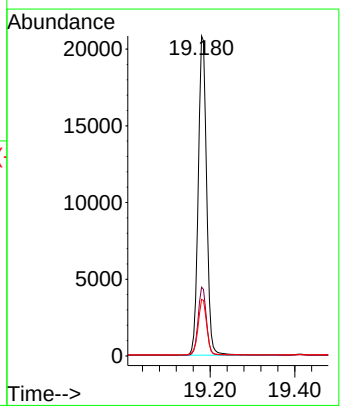


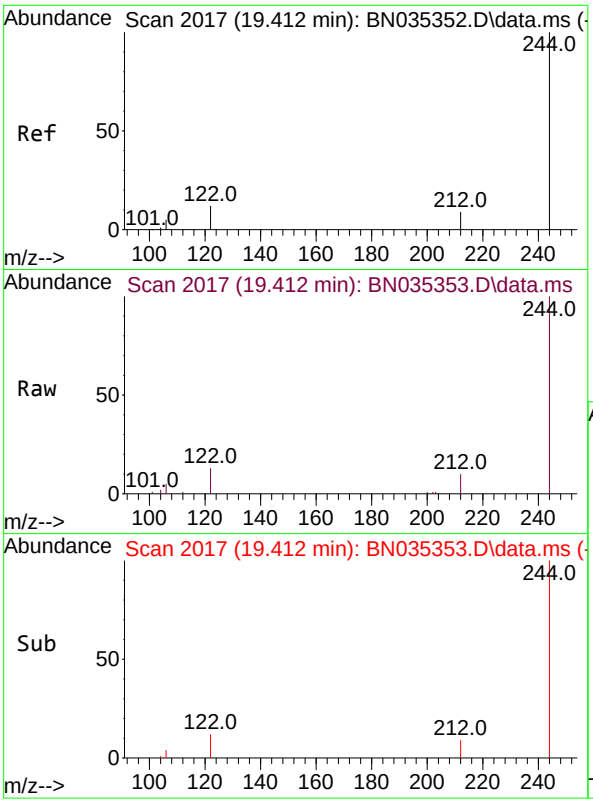




#30
Pyrene
Concen: 0.866 ng
RT: 19.180 min Scan# 1967
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion:202 Resp: 28384

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.1 | 17.0 | 25.4 |
| 203 | 17.8 | 14.3 | 21.5 |



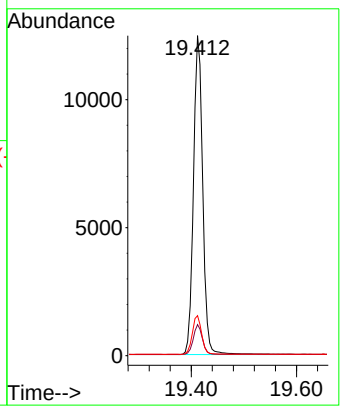


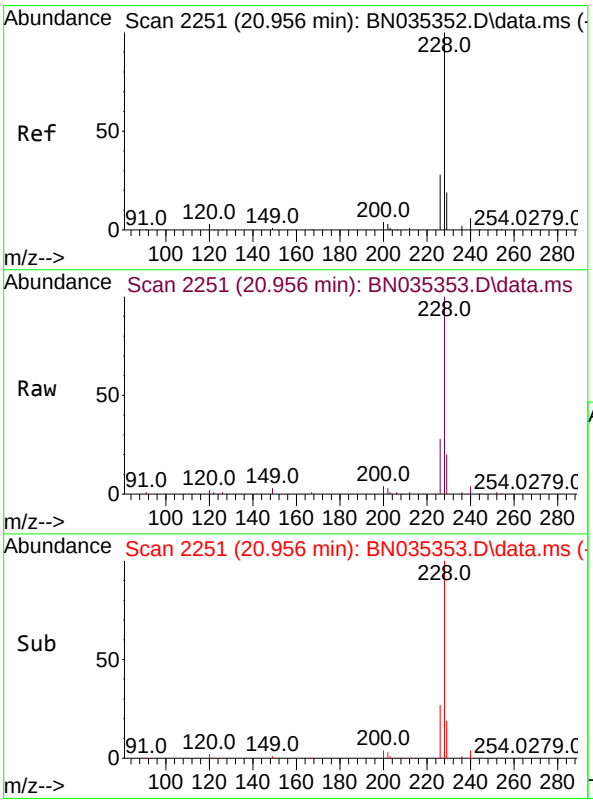

#31
Terphenyl-d14
Concen: 0.735 ng
RT: 19.412 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.8

Tgt Ion:244 Resp: 15171

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 9.7 | 8.1 | 12.1 |
| 122 | 12.5 | 10.3 | 15.5 |

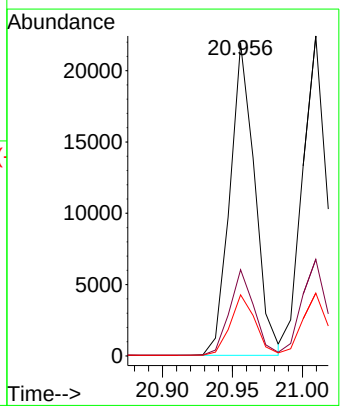


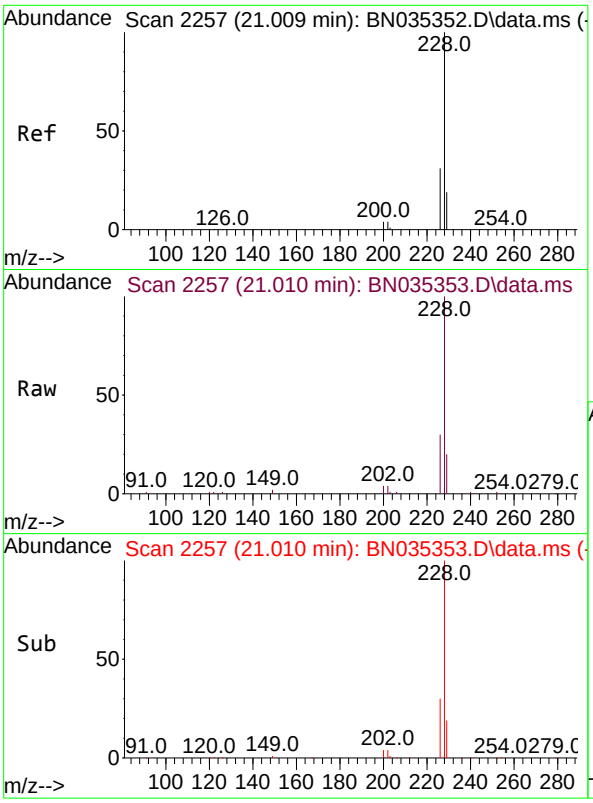




#32
Benzo(a)anthracene
Concen: 0.790 ng
RT: 20.956 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion:228 Resp: 27048

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 27.6 | 22.5 | 33.7 |
| 229 | 19.5 | 15.8 | 23.8 |



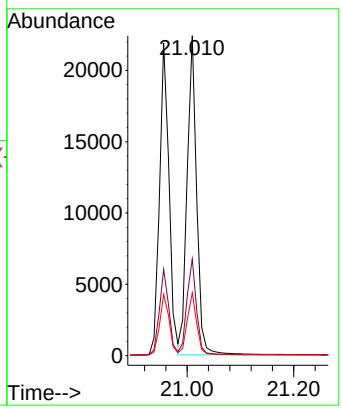


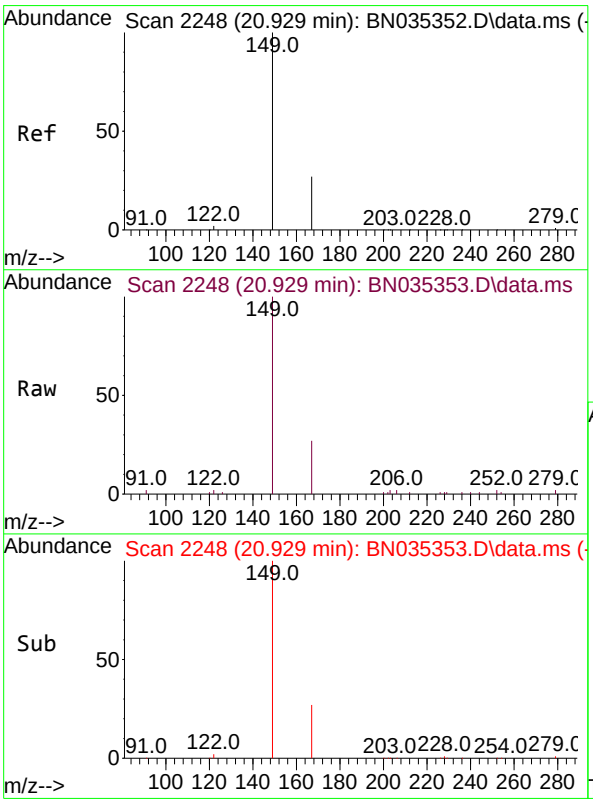

#33
Chrysene
Concen: 0.820 ng
RT: 21.010 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.8

Tgt Ion:228 Resp: 27838

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 30.2 | 24.6 | 37.0 |
| 229 | 19.6 | 15.9 | 23.9 |

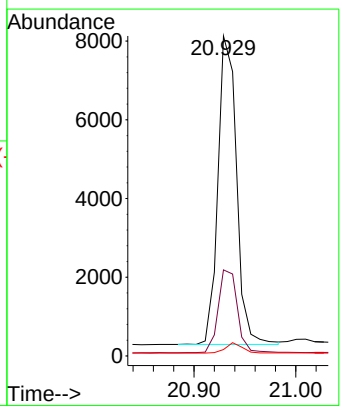


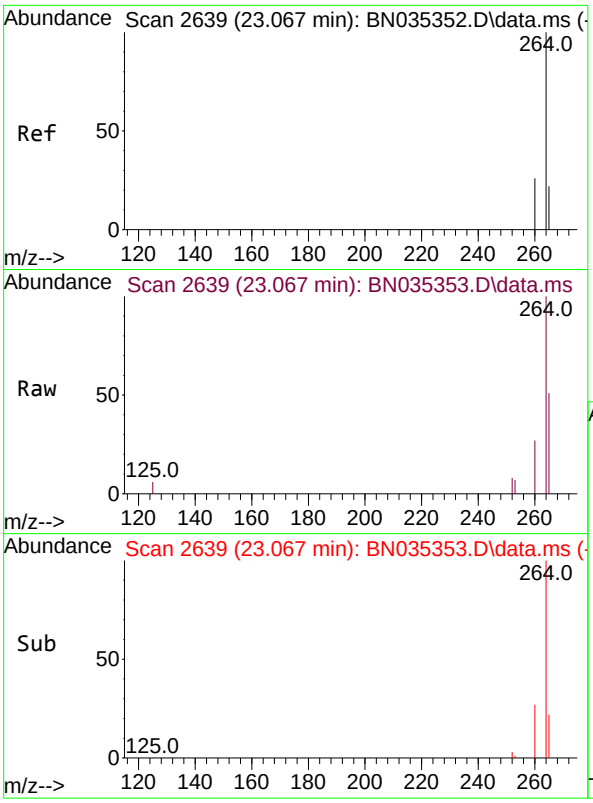




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.553 ng
RT: 20.929 min Scan# 2248
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion:149 Resp: 9941

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 27.6 | 22.2 | 33.4 |
| 279 | 3.0 | 2.7 | 4.1 |



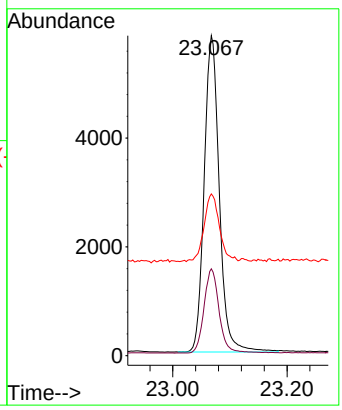


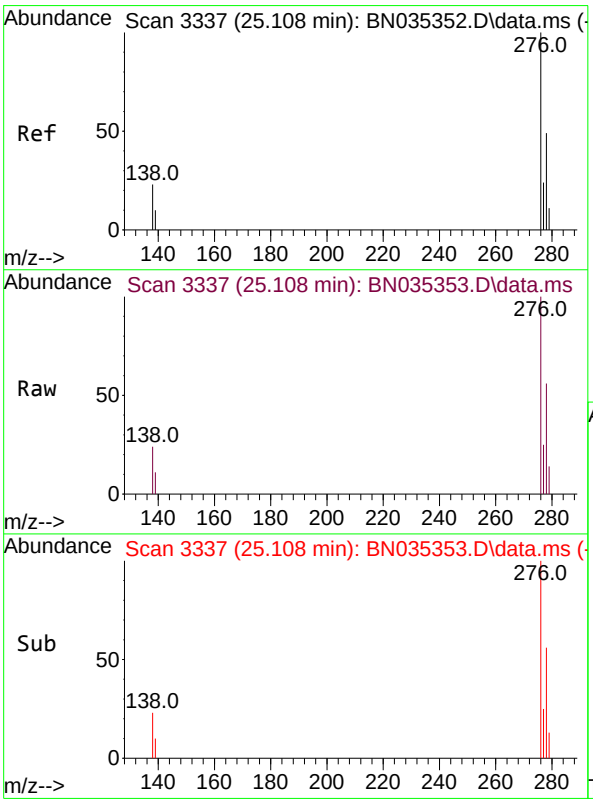

#35
Perylene-d12
Concen: 0.400 ng
RT: 23.067 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.8

Tgt Ion:264 Resp: 10698

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 27.1 | 21.4 | 32.2 |
| 265 | 50.6 | 40.2 | 60.4 |

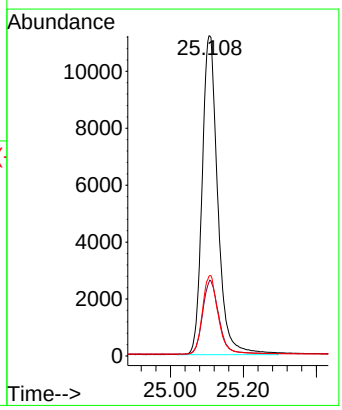


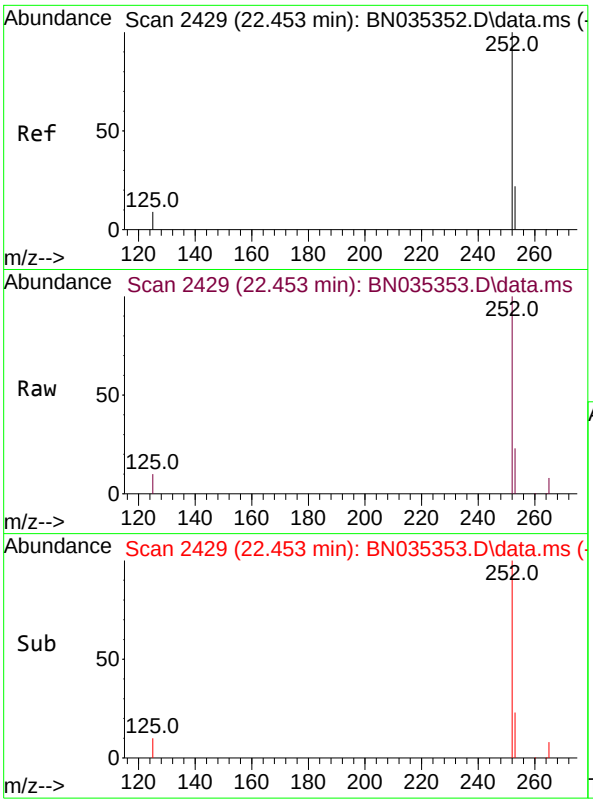




#36
Indeno(1,2,3-cd)pyrene
Concen: 0.779 ng
RT: 25.108 min Scan# 3337
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion:276 Resp: 33248

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 23.7 | 19.4 | 29.0 |
| 277 | 24.7 | 19.8 | 29.6 |



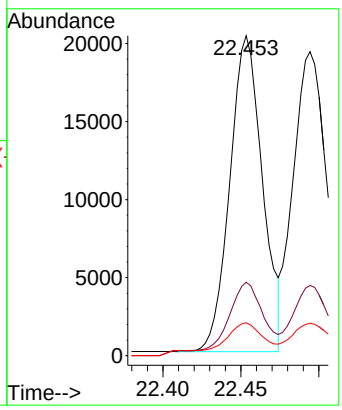


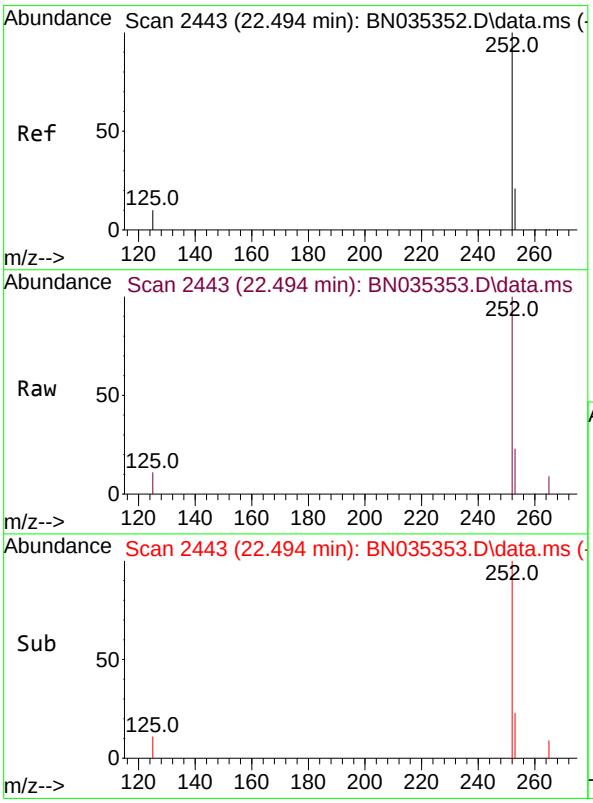

#37
Benzo(b)fluoranthene
Concen: 0.819 ng
RT: 22.453 min Scan# 24
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.8

Tgt Ion:252 Resp: 29491

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.9 | 19.6 | 29.4 |
| 125 | 10.3 | 9.6 | 14.4 |

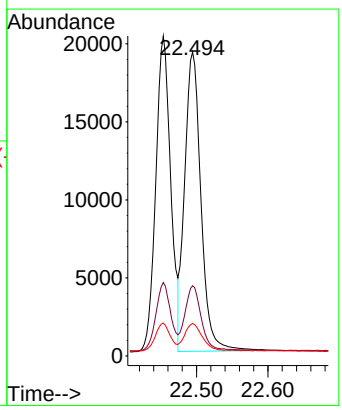


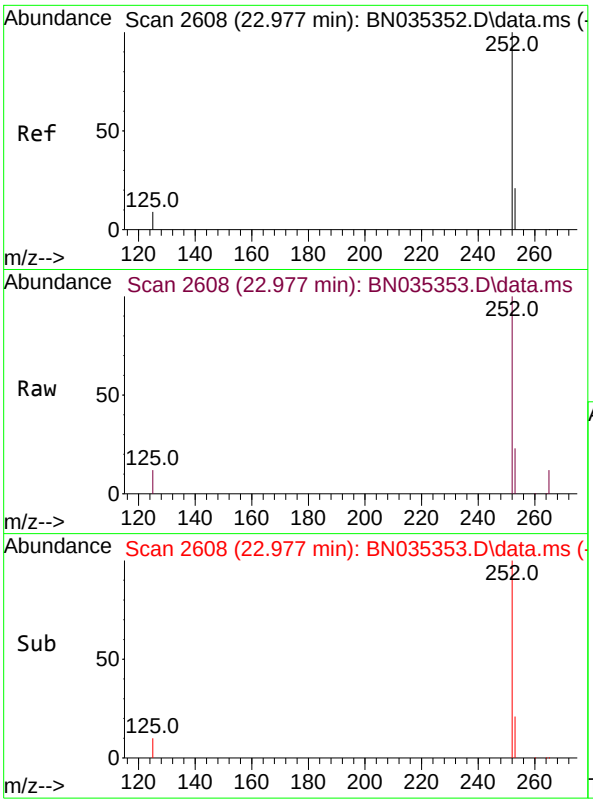




#38
Benzo(k)fluoranthene
Concen: 0.843 ng
RT: 22.494 min Scan# 2443
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion:252 Resp: 30369

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 23.1 | 19.5 | 29.3 |
| 125 | 10.7 | 10.2 | 15.4 |



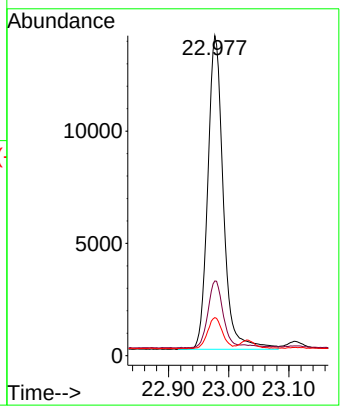


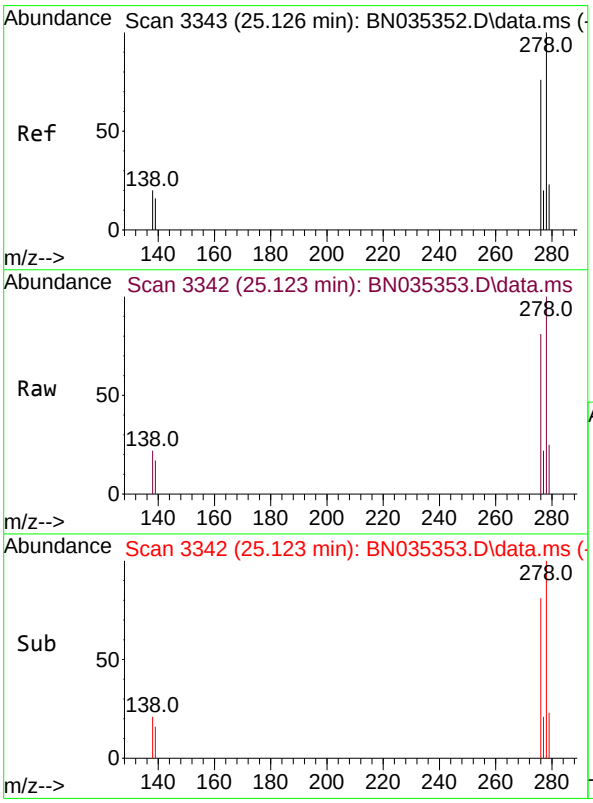

#39
Benzo(a)pyrene
Concen: 0.791 ng
RT: 22.977 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.8

Tgt Ion:252 Resp: 25053

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 23.3 | 20.2 | 30.4 |
| 125 | 11.9 | 10.9 | 16.3 |

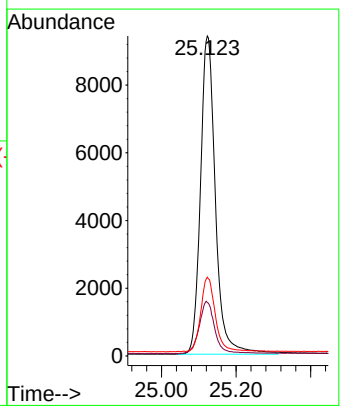


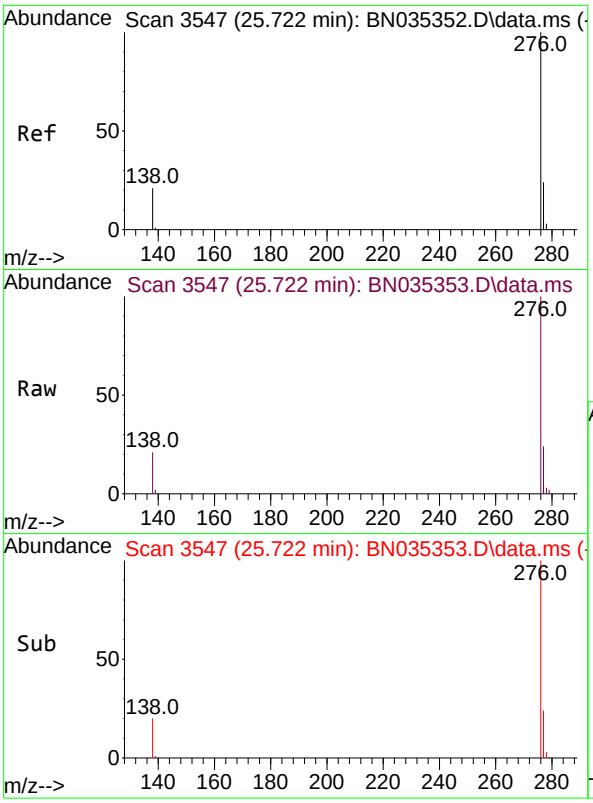




#40
Dibenzo(a,h)anthracene
Concen: 0.775 ng
RT: 25.123 min Scan# 3342
Delta R.T. -0.003 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion:278 Resp: 26222

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 16.7 | 14.2 | 21.4 |
| 279 | 24.6 | 20.5 | 30.7 |



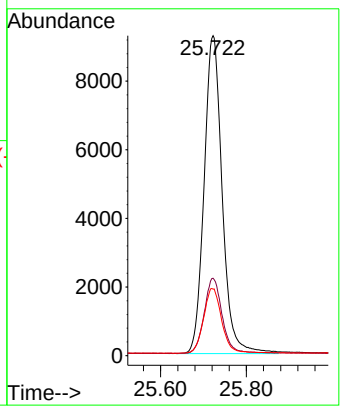



#41
Benzo(g,h,i)perylene
Concen: 0.755 ng
RT: 25.722 min Scan# 3
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.8

Tgt Ion:276 Resp: 27143

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 24.2 | 19.9 | 29.9 |
| 138 | 20.8 | 17.8 | 26.8 |



Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035354.D
Acq On : 27 Nov 2024 17:57
Operator : RC/JU
Sample : SSTDICC1.6
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC1.6

Quant Time: Nov 27 22:53:28 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration

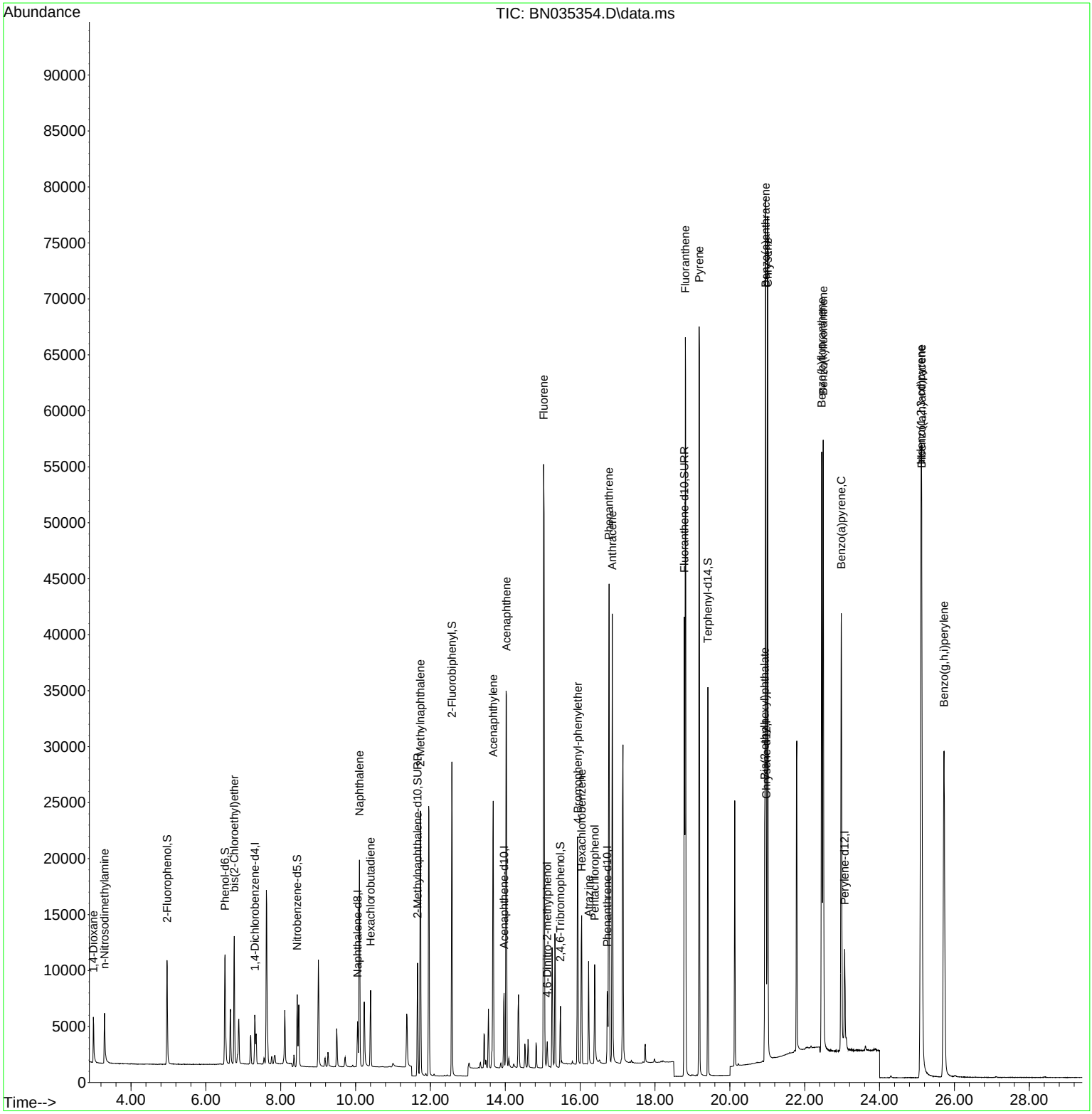
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.308 | 152 | 2053 | 0.400 | ng | | 0.00 |
| 7) Naphthalene-d8 | 10.052 | 136 | 5309 | 0.400 | ng | | 0.00 |
| 13) Acenaphthene-d10 | 13.967 | 164 | 3942 | 0.400 | ng | | 0.00 |
| 19) Phenanthrene-d10 | 16.723 | 188 | 9517 | 0.400 | ng | | #-0.01 |
| 29) Chrysene-d12 | 20.974 | 240 | 9905 | 0.400 | ng | | 0.00 |
| 35) Perylene-d12 | 23.067 | 264 | 10469 | 0.400 | ng | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 4) 2-Fluorophenol | 4.968 | 112 | 8194 | 1.572 | ng | | 0.00 |
| 5) Phenol-d6 | 6.513 | 99 | 10139 | 1.552 | ng | | 0.00 |
| 8) Nitrobenzene-d5 | 8.440 | 82 | 5450 | 1.179 | ng | | 0.00 |
| 11) 2-Methylnaphthalene-d10 | 11.656 | 152 | 13988 | 1.478 | ng | | 0.00 |
| 14) 2,4,6-Tribromophenol | 15.475 | 330 | 4615 | 1.623 | ng | | 0.00 |
| 15) 2-Fluorobiphenyl | 12.574 | 172 | 24687 | 1.542 | ng | | 0.00 |
| 27) Fluoranthene-d10 | 18.785 | 212 | 44338 | 1.521 | ng | | 0.00 |
| 31) Terphenyl-d14 | 19.412 | 244 | 32174 | 1.548 | ng | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 2.996 | 88 | 3220 | 1.727 | ng | | 99 |
| 3) n-Nitrosodimethylamine | 3.292 | 42 | 2729 | 1.570 | ng | # | 97 |
| 6) bis(2-Chloroethyl)ether | 6.759 | 93 | 8629 | 1.759 | ng | | 100 |
| 9) Naphthalene | 10.105 | 128 | 23280 | 1.680 | ng | | 98 |
| 10) Hexachlorobutadiene | 10.404 | 225 | 5409 | 1.331 | ng | # | 100 |
| 12) 2-Methylnaphthalene | 11.732 | 142 | 16881 | 1.651 | ng | | 98 |
| 16) Acenaphthylene | 13.679 | 152 | 27389 | 1.626 | ng | | 99 |
| 17) Acenaphthene | 14.032 | 154 | 18061 | 1.636 | ng | | 99 |
| 18) Fluorene | 15.026 | 166 | 26044 | 1.604 | ng | | 99 |
| 20) 4,6-Dinitro-2-methylph... | 15.122 | 198 | 1947 | 0.983 | ng | # | 69 |
| 21) 4-Bromophenyl-phenylether | 15.941 | 248 | 9493 | 1.566 | ng | | 96 |
| 22) Hexachlorobenzene | 16.041 | 284 | 10969 | 1.743 | ng | | 100 |
| 23) Atrazine | 16.227 | 200 | 6644 | 1.221 | ng | | 96 |
| 24) Pentachlorophenol | 16.388 | 266 | 4618 | 1.571 | ng | # | 85 |
| 25) Phenanthrene | 16.773 | 178 | 43698 | 1.745 | ng | | 100 |
| 26) Anthracene | 16.860 | 178 | 39964 | 1.737 | ng | | 99 |
| 28) Fluoranthene | 18.813 | 202 | 58605 | 1.702 | ng | | 100 |
| 30) Pyrene | 19.180 | 202 | 60164 | 1.824 | ng | | 100 |
| 32) Benzo(a)anthracene | 20.956 | 228 | 57498 | 1.667 | ng | | 100 |
| 33) Chrysene | 21.010 | 228 | 58919 | 1.725 | ng | | 99 |
| 34) Bis(2-ethylhexyl)phtha... | 20.929 | 149 | 20598 | 1.138 | ng | | 100 |
| 36) Indeno(1,2,3-cd)pyrene | 25.105 | 276 | 69517 | 1.665 | ng | | 99 |
| 37) Benzo(b)fluoranthene | 22.454 | 252 | 76506 | 2.172 | ng | | 95 |
| 38) Benzo(k)fluoranthene | 22.494 | 252 | 63925 | 1.814 | ng | # | 95 |
| 39) Benzo(a)pyrene | 22.977 | 252 | 52595 | 1.697 | ng | # | 94 |
| 40) Dibenzo(a,h)anthracene | 25.126 | 278 | 55068 | 1.664 | ng | | 96 |
| 41) Benzo(g,h,i)perylene | 25.719 | 276 | 56947 | 1.618 | ng | | 97 |

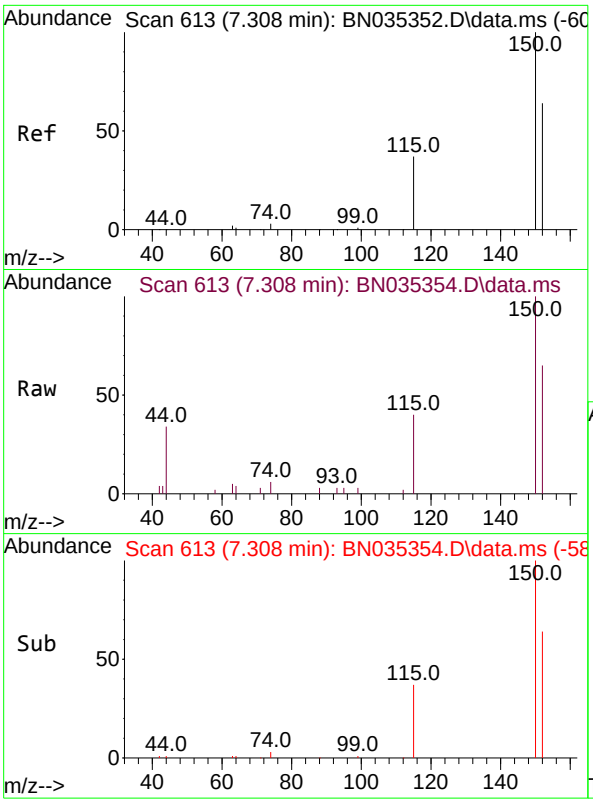
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035354.D
Acq On : 27 Nov 2024 17:57
Operator : RC/JU
Sample : SSTDICC1.6
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC1.6

Quant Time: Nov 27 22:53:28 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration



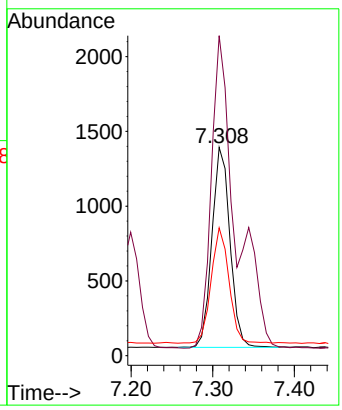


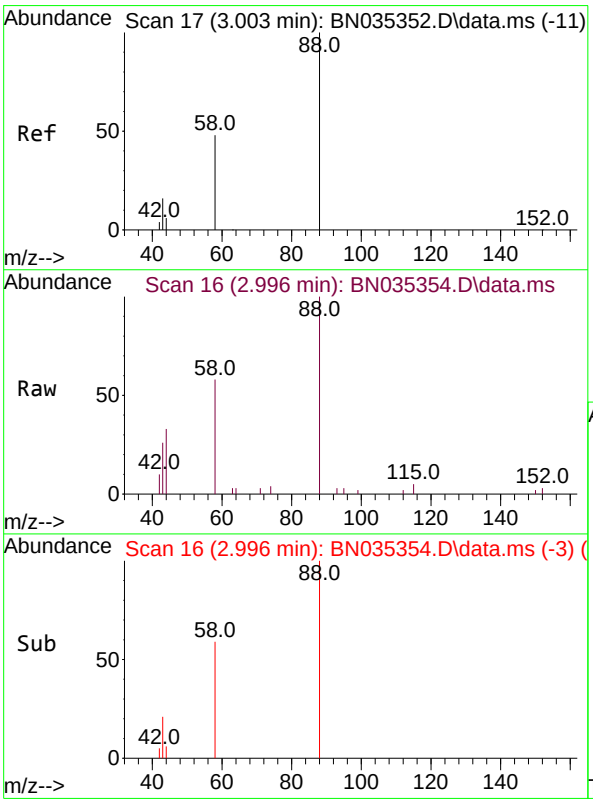

#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC1.6

Tgt Ion:152 Resp: 2053

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 153.6 | 124.0 | 186.0 |
| 115 | 61.4 | 49.6 | 74.4 |

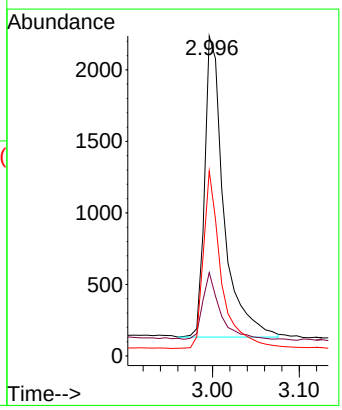


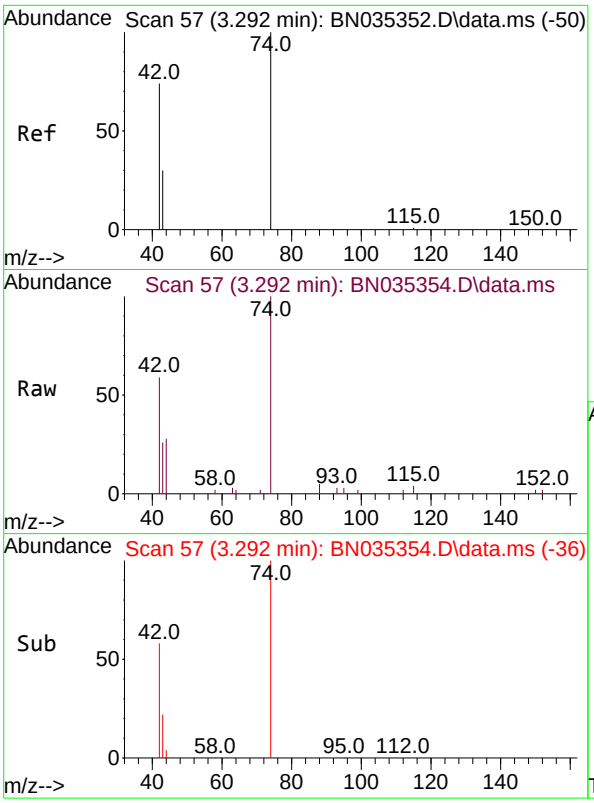




#2
1,4-Dioxane
Concen: 1.727 ng
RT: 2.996 min Scan# 16
Delta R.T. -0.007 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion: 88 Resp: 3220

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 20.3 | 17.2 | 25.8 |
| 58 | 55.1 | 44.5 | 66.7 |



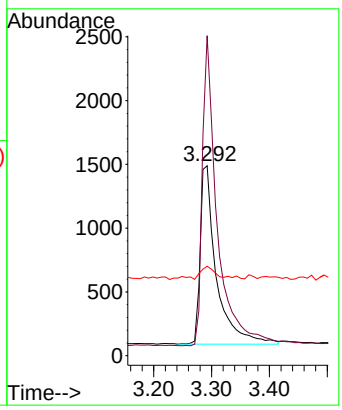


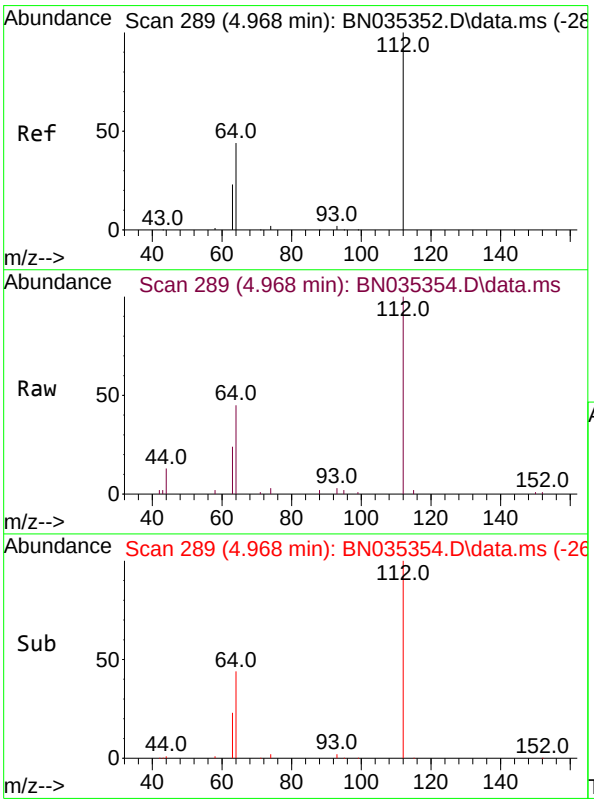

#3
n-Nitrosodimethylamine
Concen: 1.570 ng
RT: 3.292 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC1.6

Tgt Ion: 42 Resp: 2729

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 160.4 | 124.9 | 187.3 |
| 44 | 6.2 | 2.2 | 3.4# |

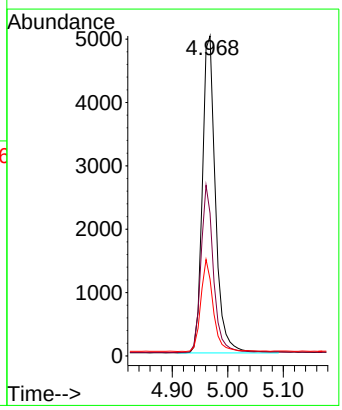


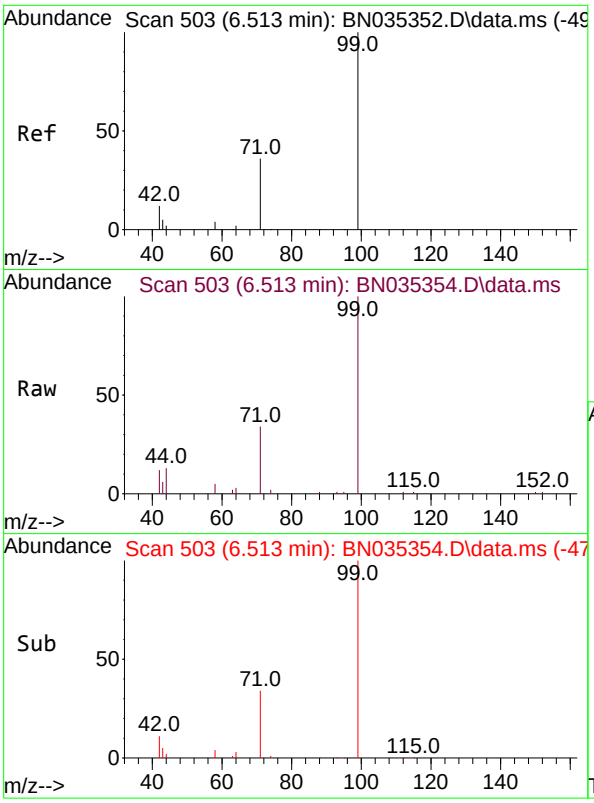




#4
2-Fluorophenol
Concen: 1.572 ng
RT: 4.968 min Scan# 289
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion:112 Resp: 8194

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 50.7 | 39.8 | 59.8 |
| 63 | 27.5 | 21.0 | 31.6 |



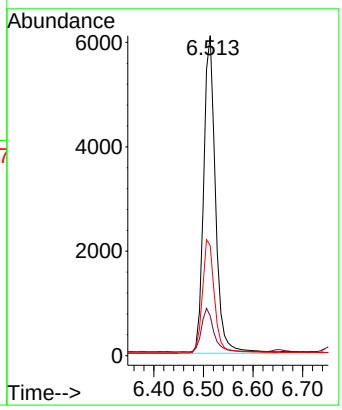


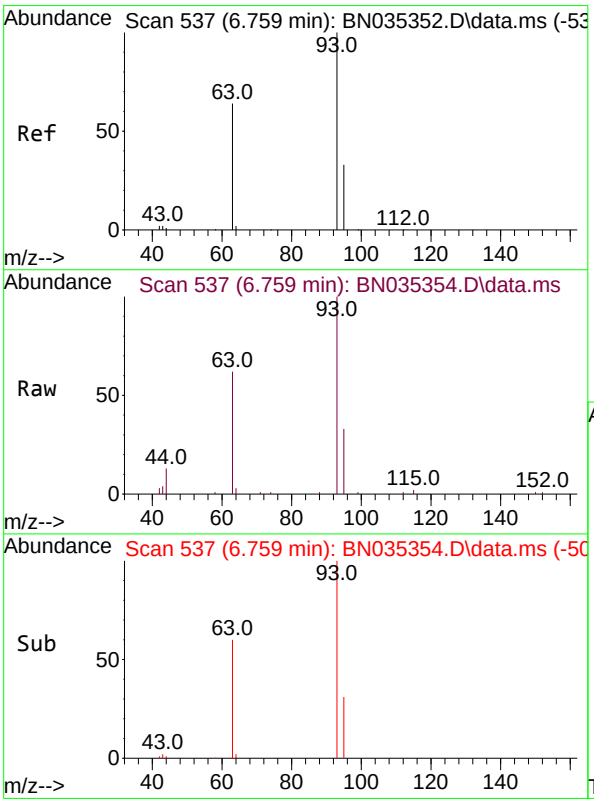

#5
Phenol-d6
Concen: 1.552 ng
RT: 6.513 min Scan# 5(
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC1.6

Tgt Ion: 99 Resp: 10139

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 14.5 | 11.4 | 17.2 |
| 71 | 36.3 | 29.3 | 43.9 |

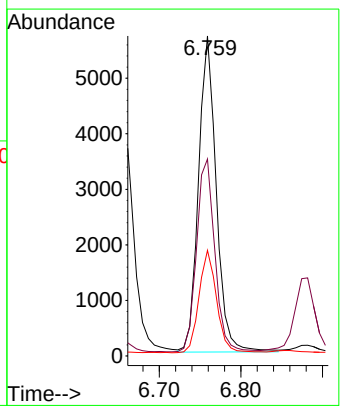


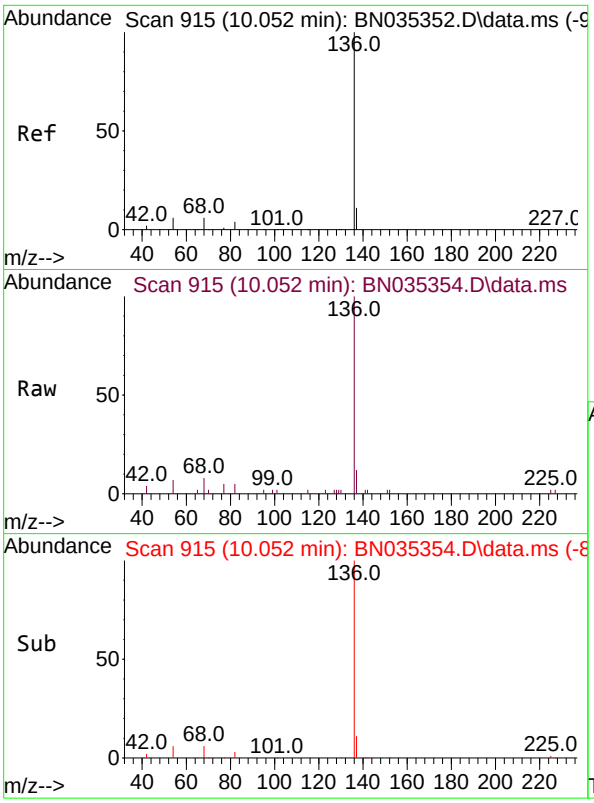




#6
bis(2-Chloroethyl)ether
Concen: 1.759 ng
RT: 6.759 min Scan# 537
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion: 93 Resp: 8629

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 62.6 | 50.4 | 75.6 |
| 95 | 32.2 | 25.7 | 38.5 |



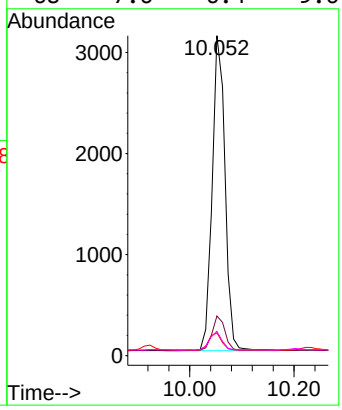


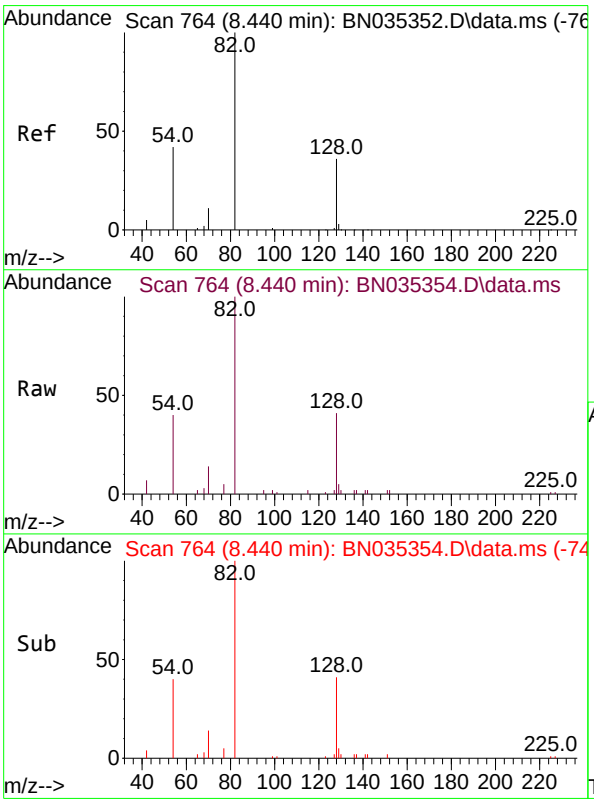

#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC1.6

Tgt Ion:136 Resp: 5309

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 12.4 | 10.2 | 15.2 |
| 54 | 7.2 | 6.1 | 9.1 |
| 68 | 7.6 | 6.4 | 9.6 |

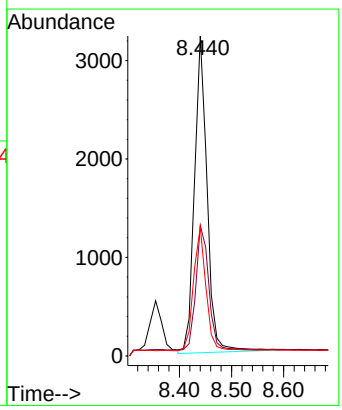


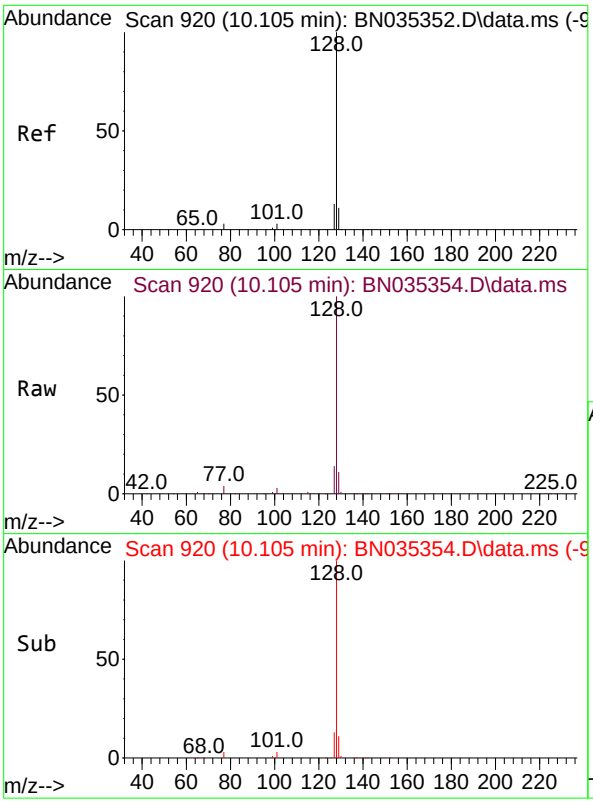




#8
Nitrobenzene-d5
Concen: 1.179 ng
RT: 8.440 min Scan# 764
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion: 82 Resp: 5450

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 40.8 | 33.4 | 50.0 |
| 54 | 40.3 | 36.7 | 55.1 |



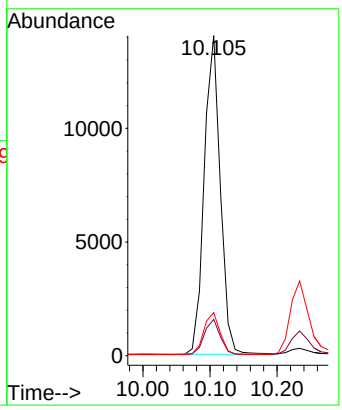


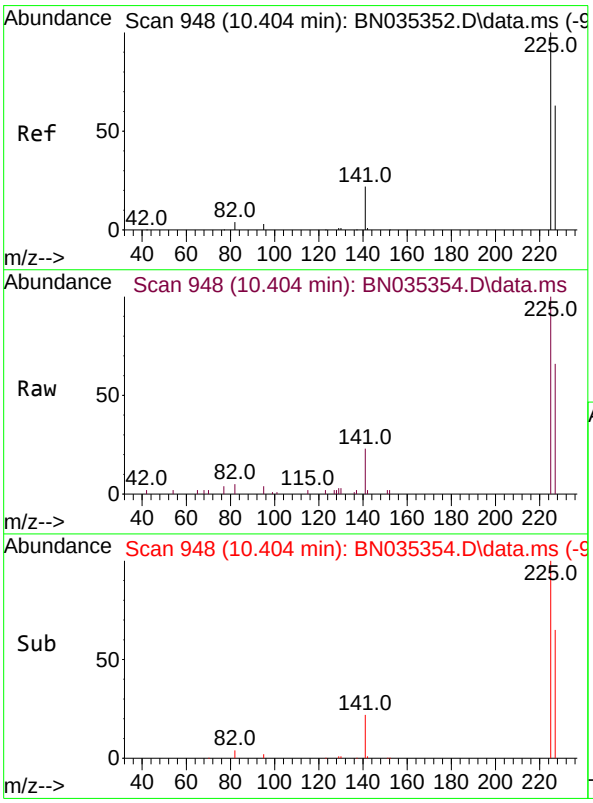

#9
Naphthalene
Concen: 1.680 ng
RT: 10.105 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC1.6

Tgt Ion:128 Resp: 23280

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 11.4 | 9.8 | 14.6 |
| 127 | 13.5 | 11.4 | 17.2 |

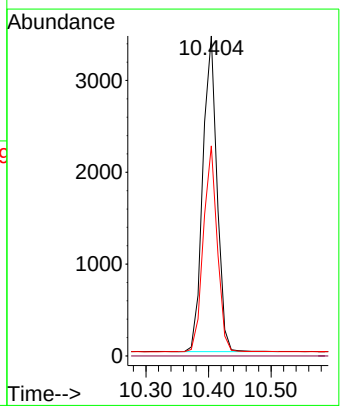


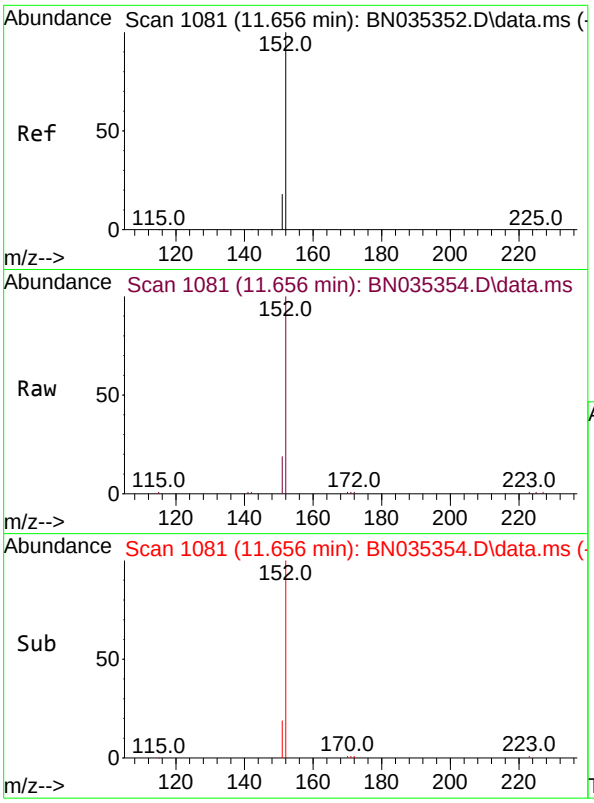




#10
Hexachlorobutadiene
Concen: 1.331 ng
RT: 10.404 min Scan# 948
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion:225 Resp: 5409

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 0.0 | 0.0 | 0.0 |
| 227 | 63.9 | 51.3 | 76.9 |



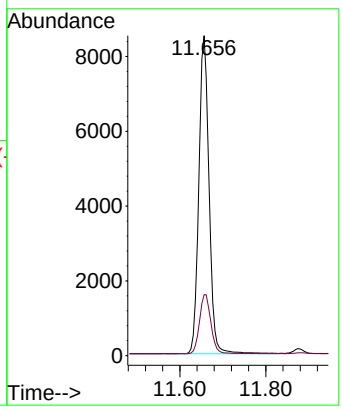


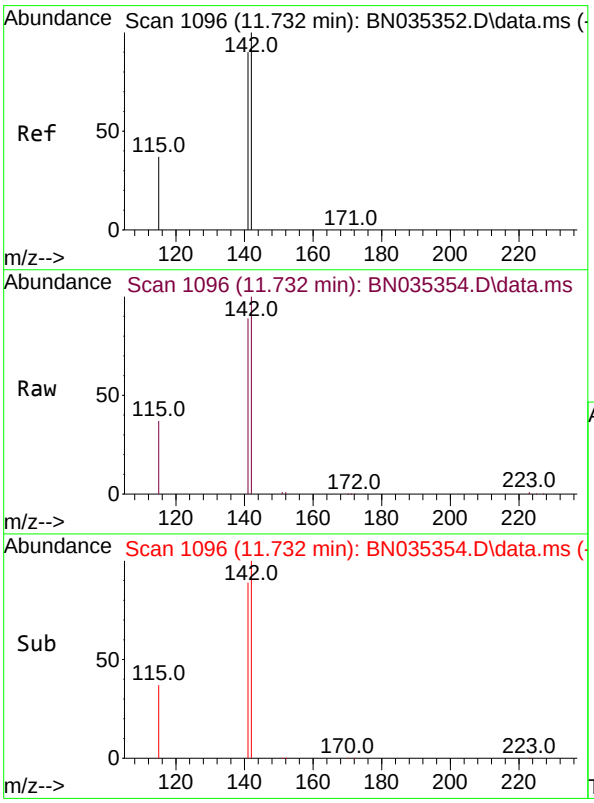

#11
2-Methylnaphthalene-d10
Concen: 1.478 ng
RT: 11.656 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC1.6

Tgt Ion:152 Resp: 13988

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.5 | 16.6 | 25.0 |

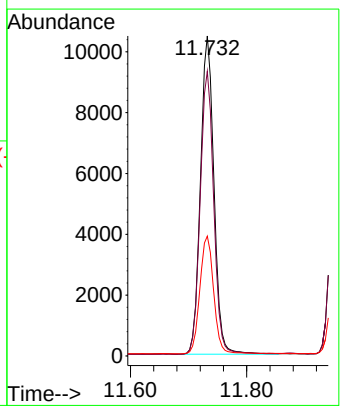


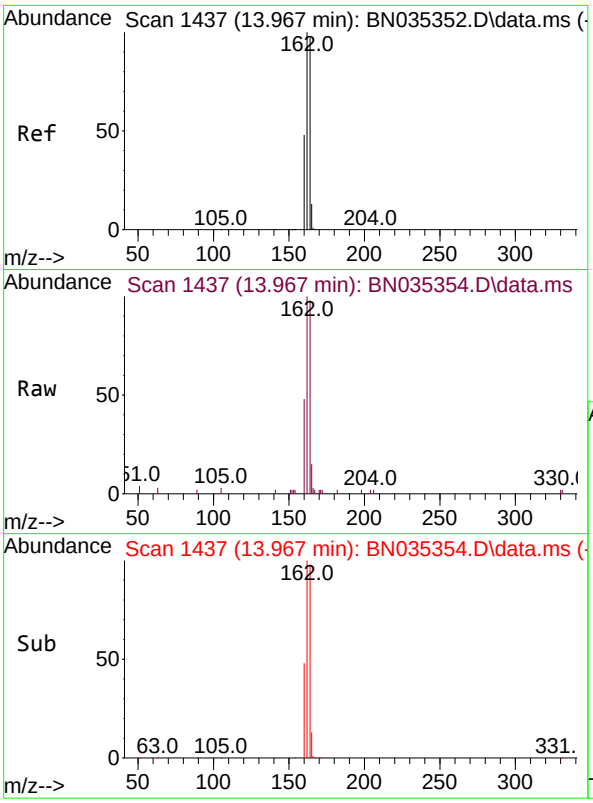




#12
2-Methylnaphthalene
Concen: 1.651 ng
RT: 11.732 min Scan# 1096
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion:142 Resp: 16881

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 89.0 | 72.2 | 108.4 |
| 115 | 37.5 | 31.4 | 47.0 |



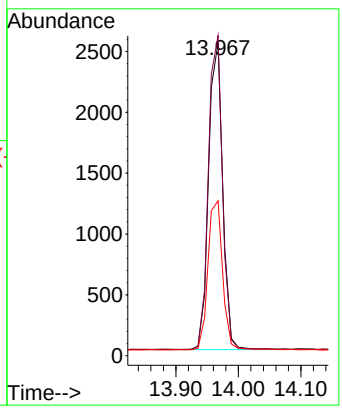


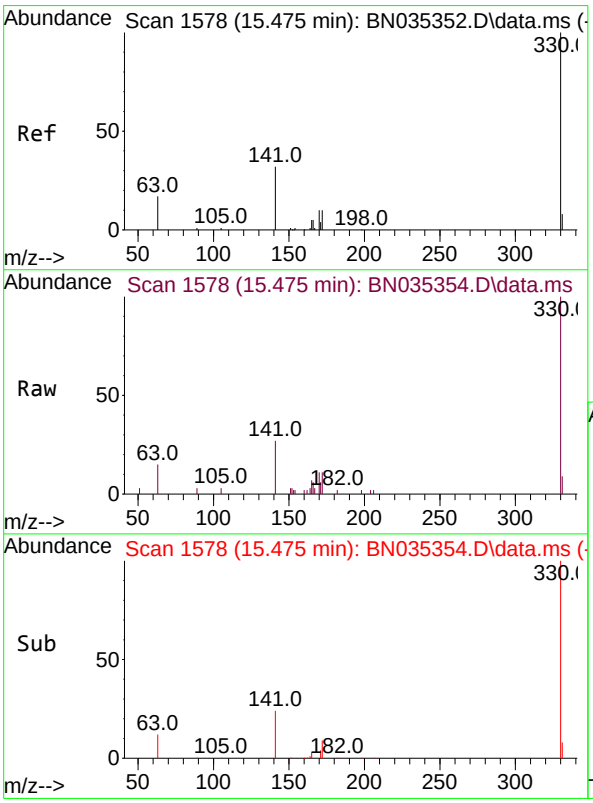

#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC1.6

Tgt Ion:164 Resp: 3942

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 102.2 | 82.2 | 123.2 |
| 160 | 49.5 | 40.1 | 60.1 |

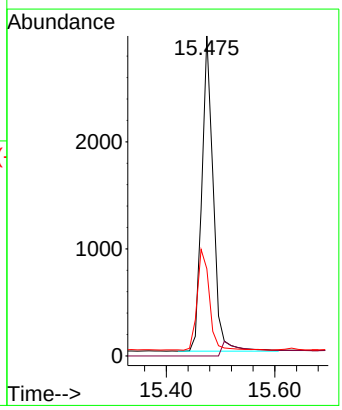


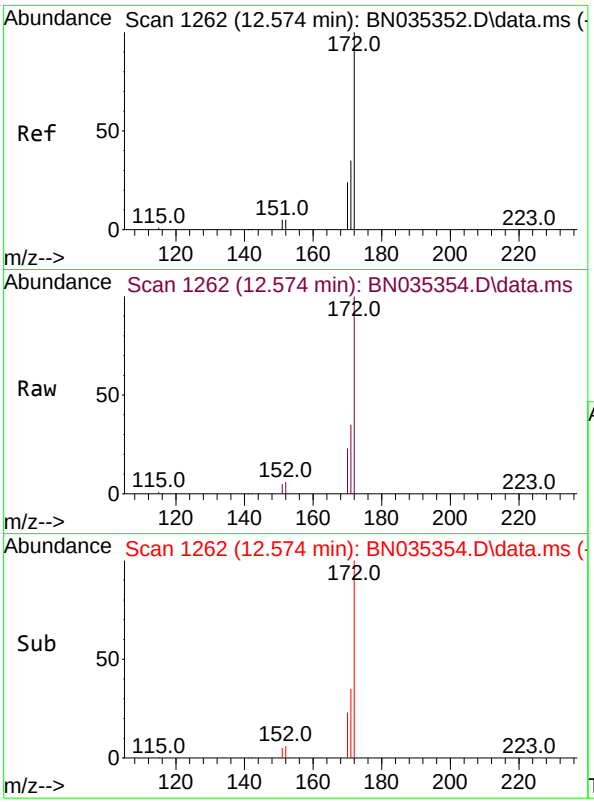




#14
2,4,6-Tribromophenol
Concen: 1.623 ng
RT: 15.475 min Scan# 1578
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion:330 Resp: 4615

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 0.0 | 0.0 | 0.0 |
| 141 | 33.6 | 26.6 | 40.0 |



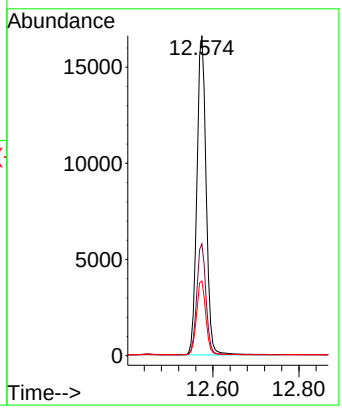


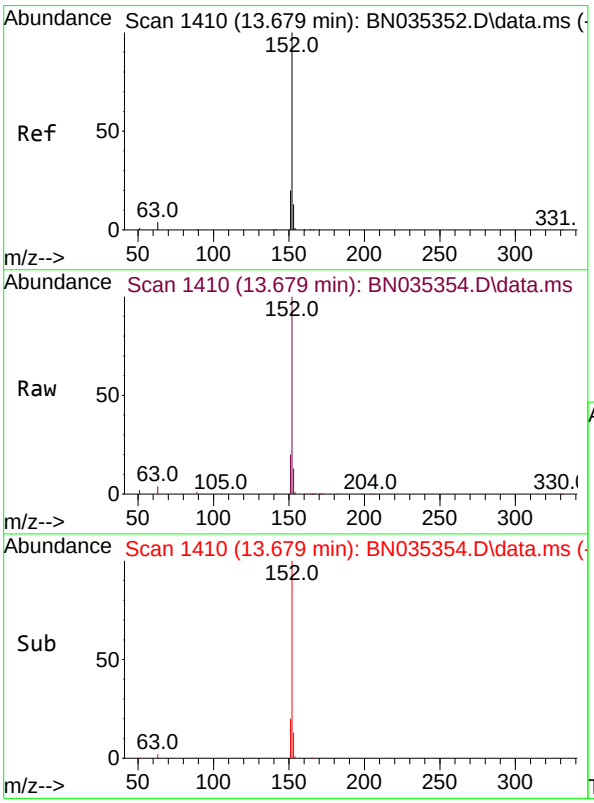

#15
2-Fluorobiphenyl
Concen: 1.542 ng
RT: 12.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC1.6

Tgt Ion:172 Resp: 24687

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 35.0 | 29.0 | 43.4 |
| 170 | 23.4 | 19.8 | 29.8 |

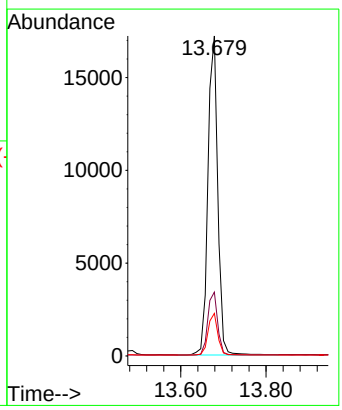


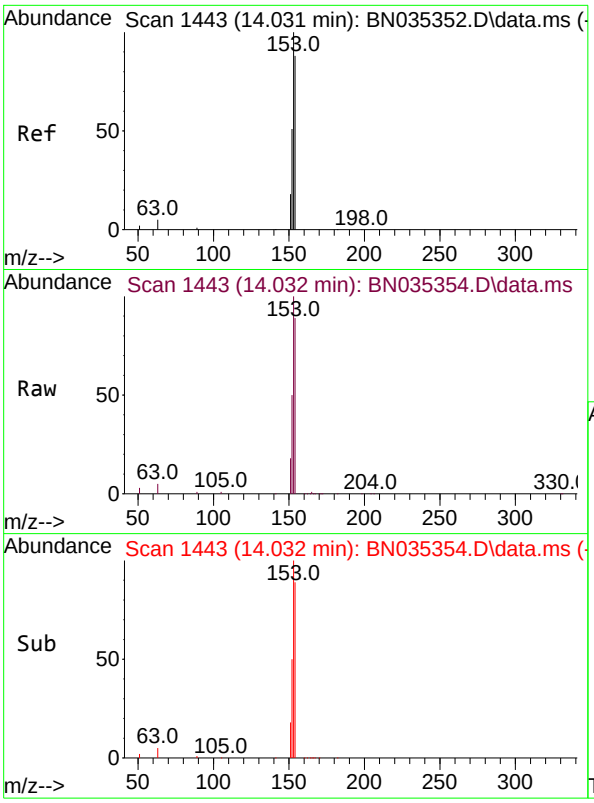




#16
Acenaphthylene
Concen: 1.626 ng
RT: 13.679 min Scan# 1410
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion:152 Resp: 27389

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 19.8 | 16.2 | 24.2 |
| 153 | 13.0 | 10.4 | 15.6 |



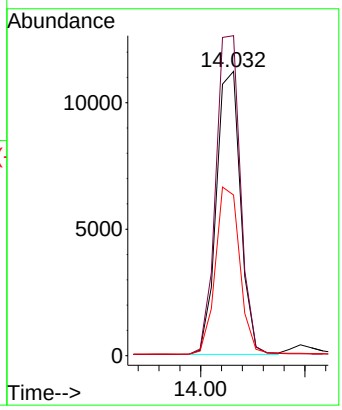


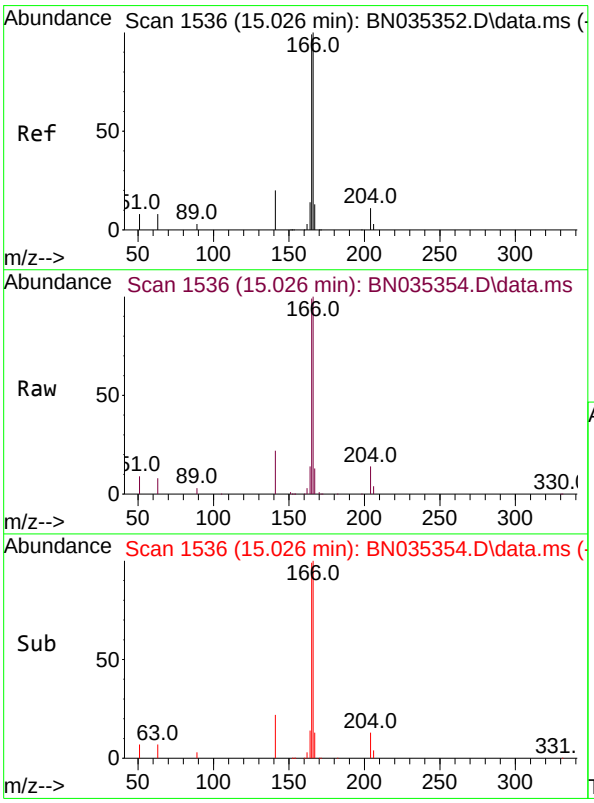

#17
Acenaphthene
Concen: 1.636 ng
RT: 14.032 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC1.6

Tgt Ion:154 Resp: 18061

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 115.1 | 92.6 | 139.0 |
| 152 | 59.9 | 49.0 | 73.6 |

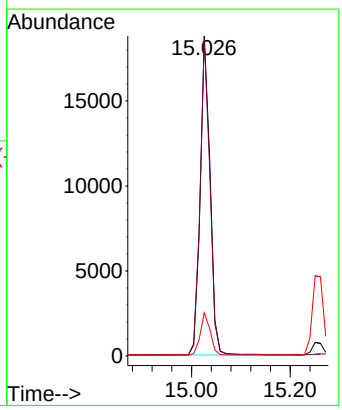


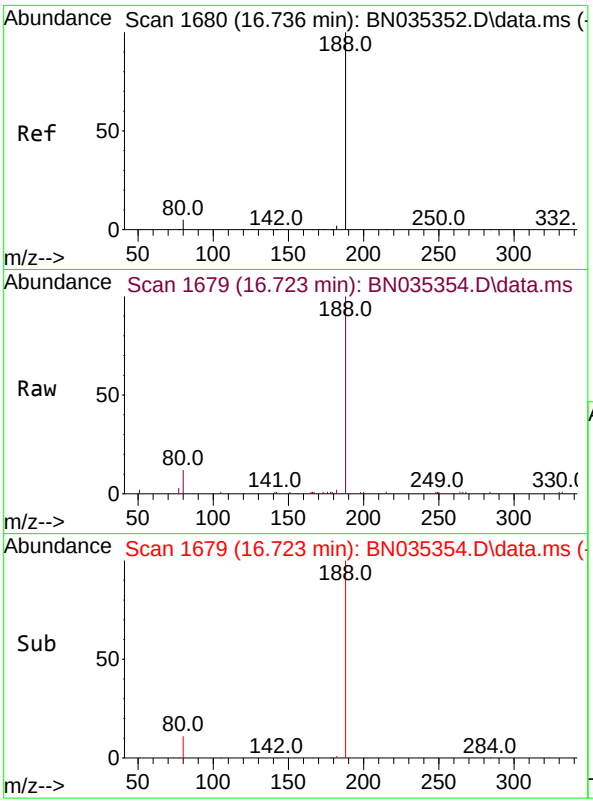




#18
Fluorene
Concen: 1.604 ng
RT: 15.026 min Scan# 1536
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion:166 Resp: 26044

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 98.2 | 79.7 | 119.5 |
| 167 | 13.3 | 10.8 | 16.2 |



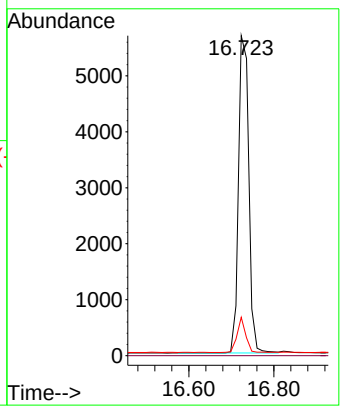


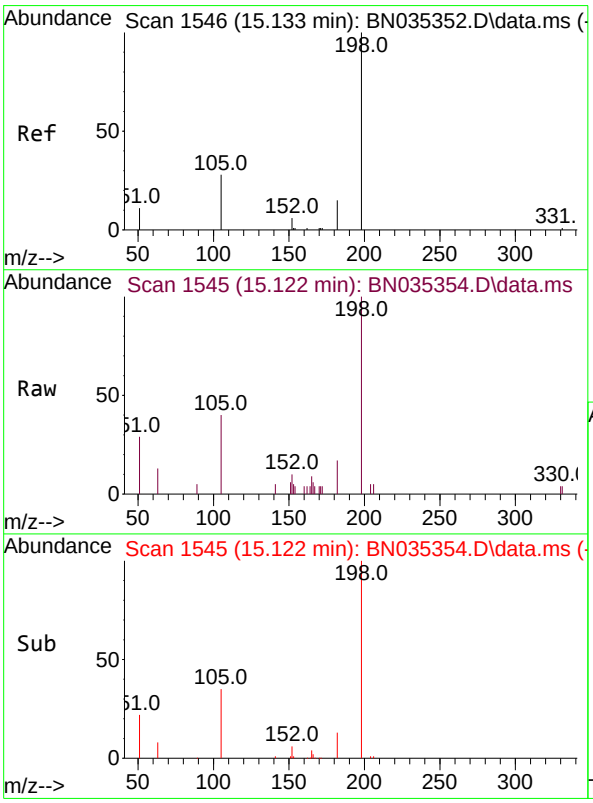

#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.723 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC1.6

Tgt Ion:188 Resp: 9517

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 12.0 | 4.6 | 6.8# |

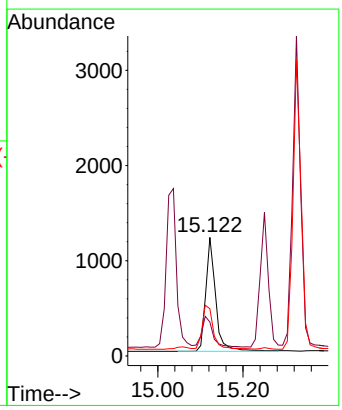


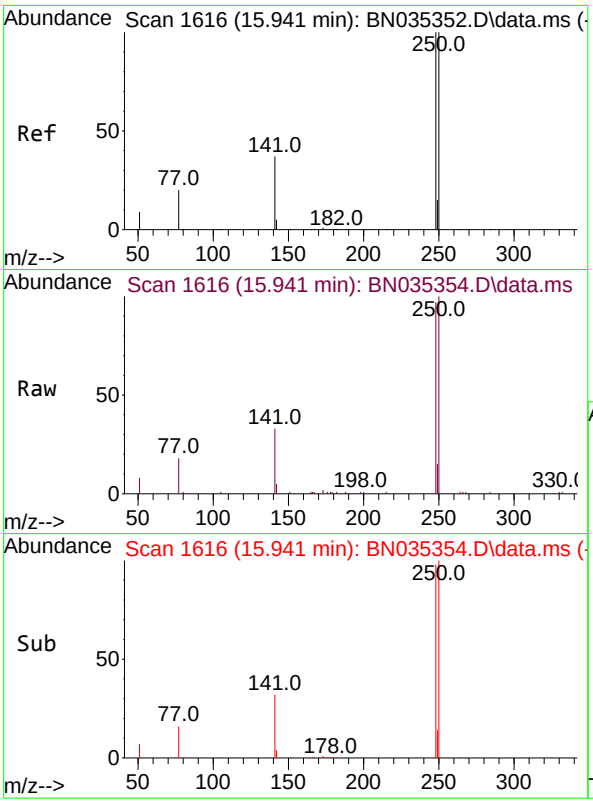




#20
4,6-Dinitro-2-methylphenol
Concen: 0.983 ng
RT: 15.122 min Scan# 1545
Delta R.T. -0.011 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion:198 Resp: 1947

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 198 | 100 | | |
| 51 | 28.6 | 46.5 | 69.7# |
| 105 | 39.8 | 45.3 | 67.9# |



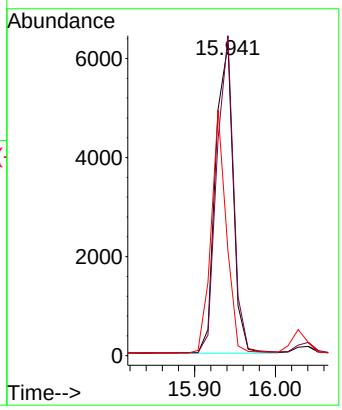


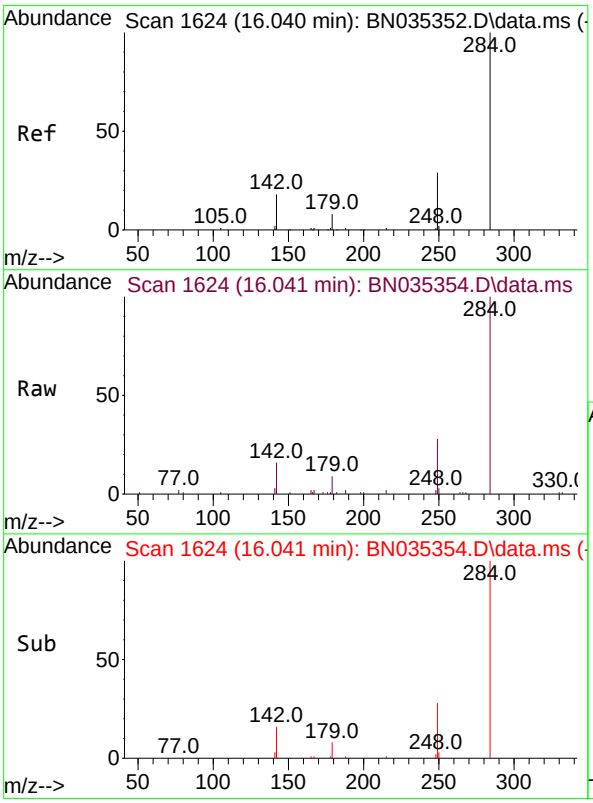

#21
4-Bromophenyl-phenylether
Concen: 1.566 ng
RT: 15.941 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC1.6

Tgt Ion:248 Resp: 9493

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 102.7 | 80.6 | 120.8 |
| 141 | 33.7 | 31.5 | 47.3 |

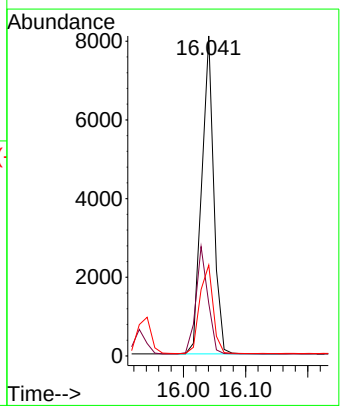


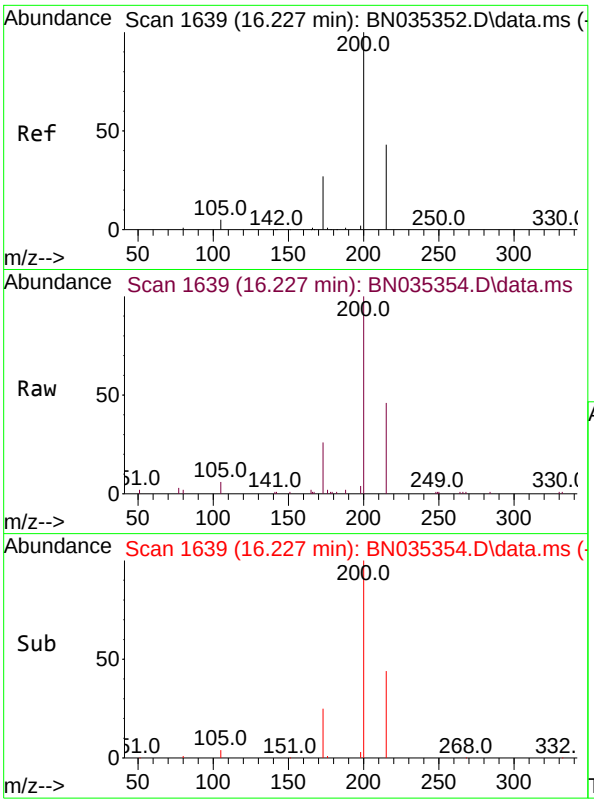




#22
Hexachlorobenzene
Concen: 1.743 ng
RT: 16.041 min Scan# 1624
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion:284 Resp: 10969

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 33.5 | 26.7 | 40.1 |
| 249 | 30.6 | 24.6 | 36.8 |



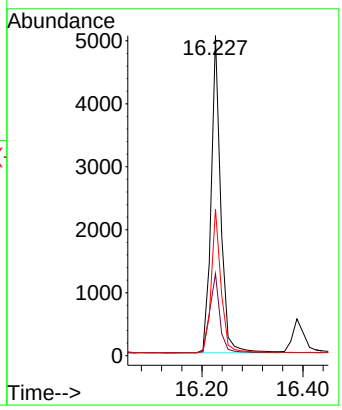


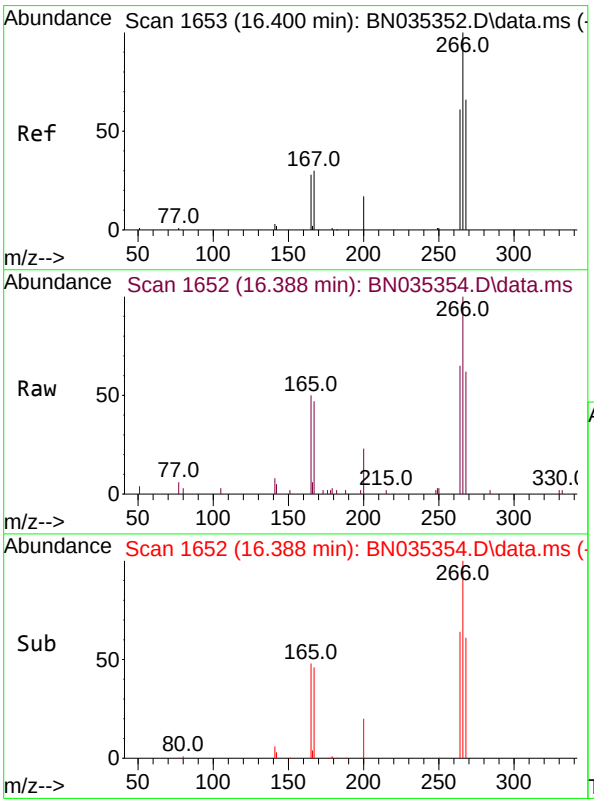

#23
Atrazine
Concen: 1.221 ng
RT: 16.227 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC1.6

Tgt Ion:200 Resp: 6644

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 173 | 25.6 | 24.1 | 36.1 |
| 215 | 45.8 | 36.9 | 55.3 |

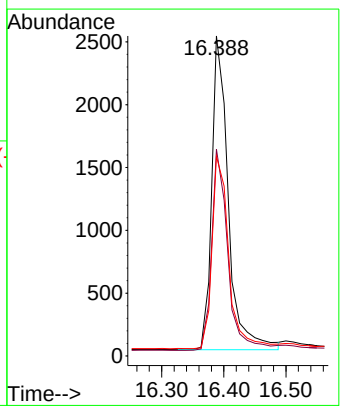


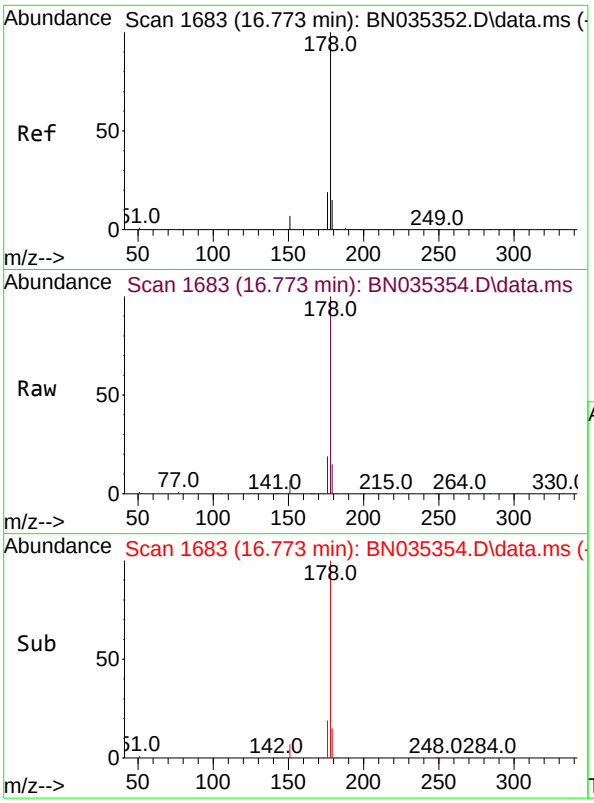




#24
Pentachlorophenol
Concen: 1.571 ng
RT: 16.388 min Scan# 1652
Delta R.T. -0.012 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion:266 Resp: 4618

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 264 | 64.8 | 42.3 | 63.5# |
| 268 | 62.9 | 43.3 | 64.9 |



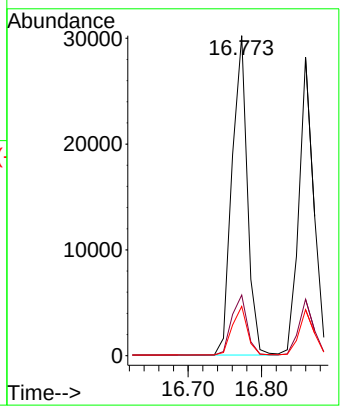


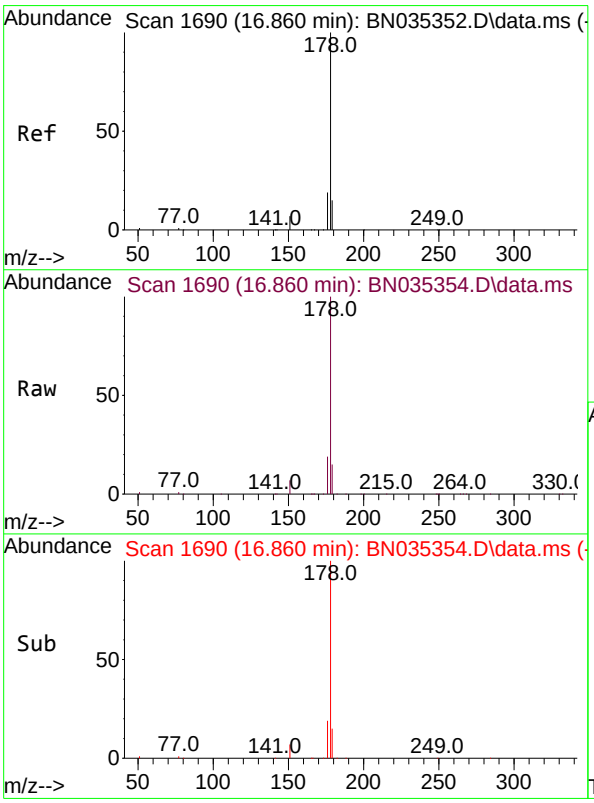

#25
Phenanthrene
Concen: 1.745 ng
RT: 16.773 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC1.6

Tgt Ion:178 Resp: 43698

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.2 | 15.4 | 23.2 |
| 179 | 15.2 | 12.3 | 18.5 |

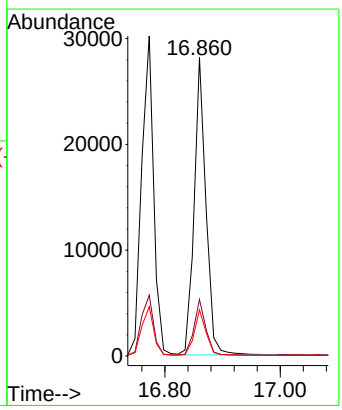


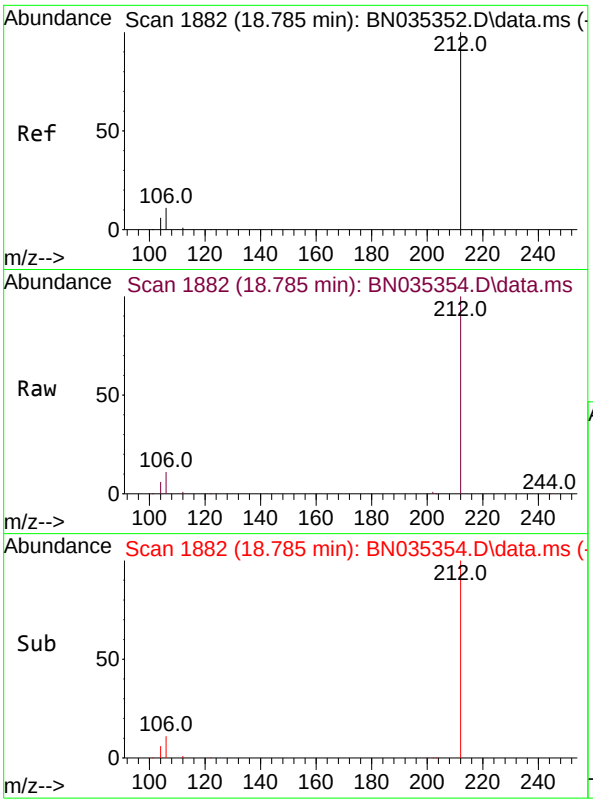




#26
Anthracene
Concen: 1.737 ng
RT: 16.860 min Scan# 1690
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion:178 Resp: 39964

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.7 | 15.0 | 22.6 |
| 179 | 15.3 | 12.6 | 18.8 |



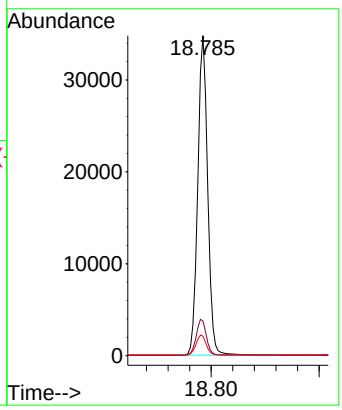


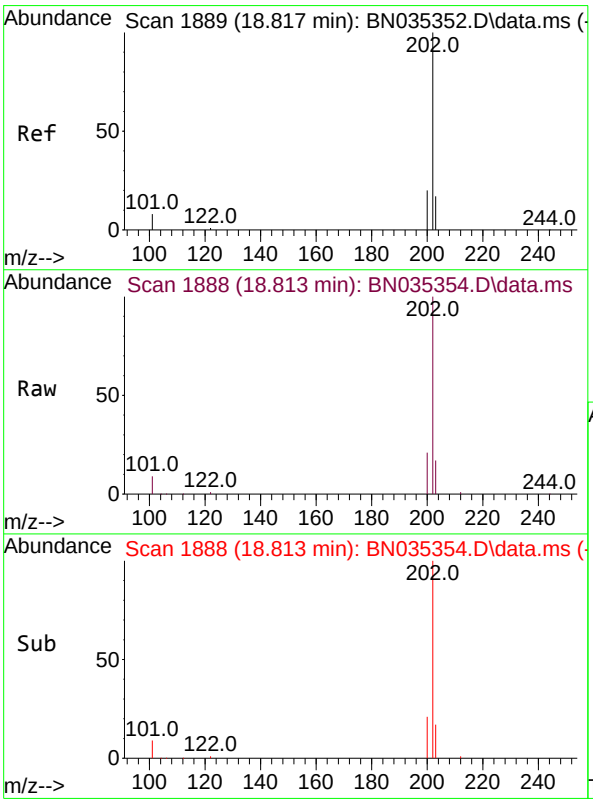

#27
Fluoranthene-d10
Concen: 1.521 ng
RT: 18.785 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC1.6

Tgt Ion:212 Resp: 44338

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 11.4 | 9.2 | 13.8 |
| 104 | 6.4 | 5.3 | 7.9 |

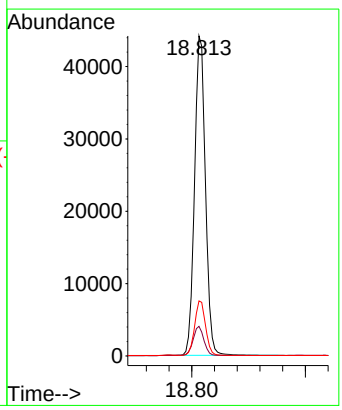


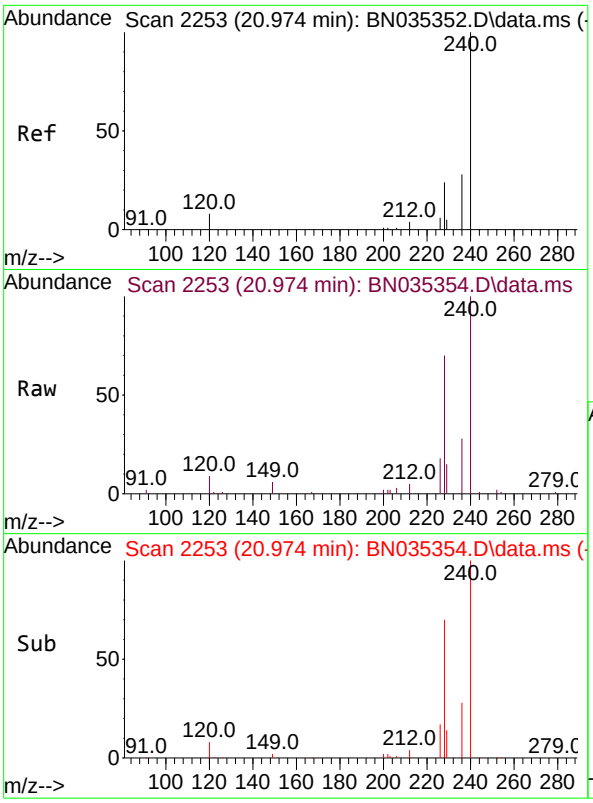




#28
Fluoranthene
Concen: 1.702 ng
RT: 18.813 min Scan# 1888
Delta R.T. -0.005 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion:202 Resp: 58605

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 9.2 | 7.4 | 11.0 |
| 203 | 17.1 | 13.7 | 20.5 |



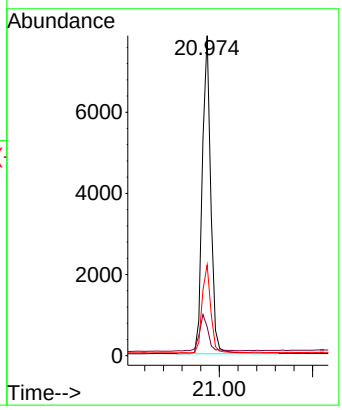


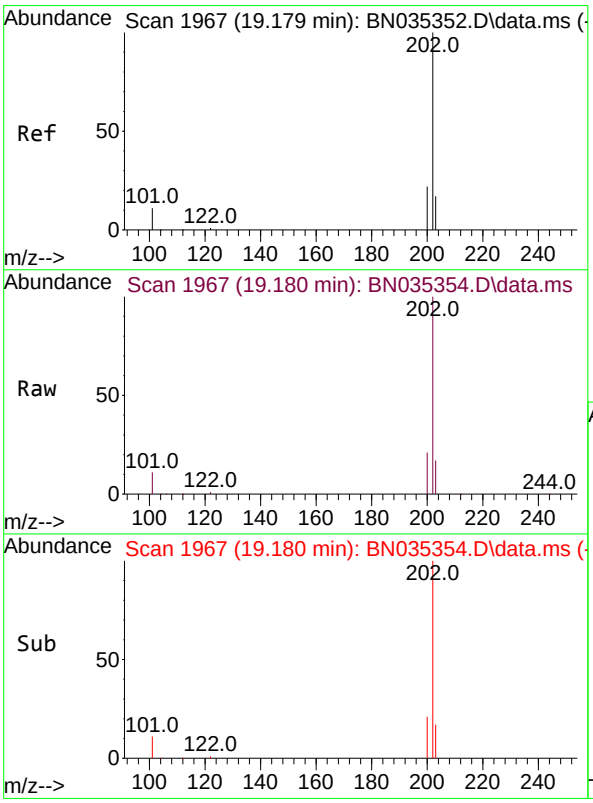

#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.974 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC1.6

Tgt Ion:240 Resp: 9905

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 9.0 | 7.9 | 11.9 |
| 236 | 28.4 | 22.9 | 34.3 |

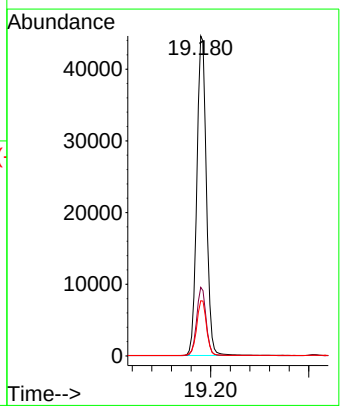


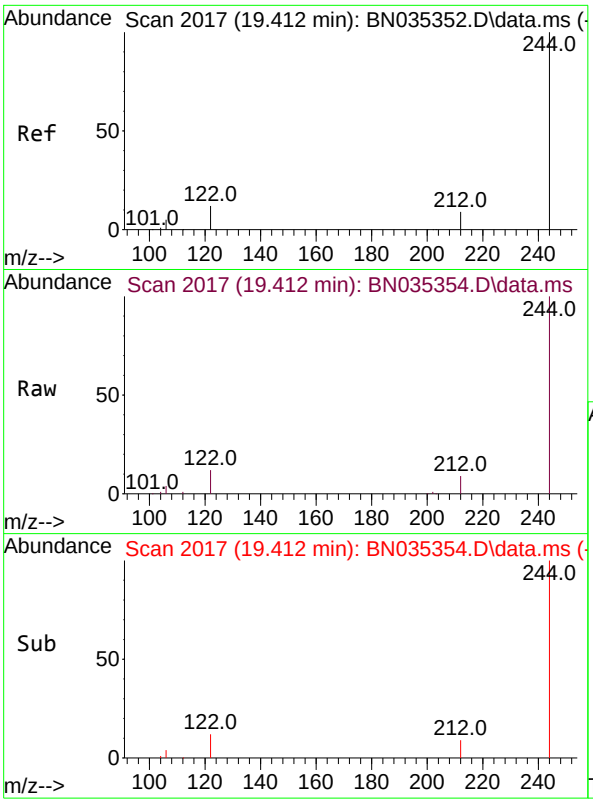




#30
Pyrene
Concen: 1.824 ng
RT: 19.180 min Scan# 1967
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion:202 Resp: 60164

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.1 | 17.0 | 25.4 |
| 203 | 17.7 | 14.3 | 21.5 |



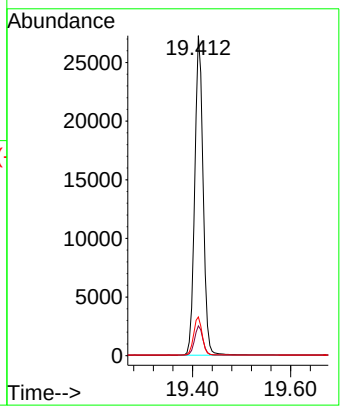


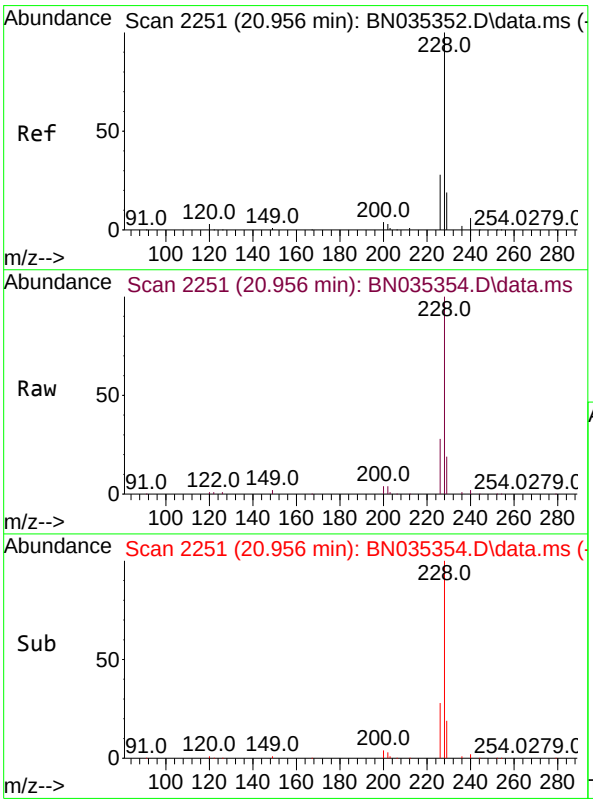

#31
Terphenyl-d14
Concen: 1.548 ng
RT: 19.412 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC1.6

Tgt Ion:244 Resp: 32174

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 9.3 | 8.1 | 12.1 |
| 122 | 12.1 | 10.3 | 15.5 |

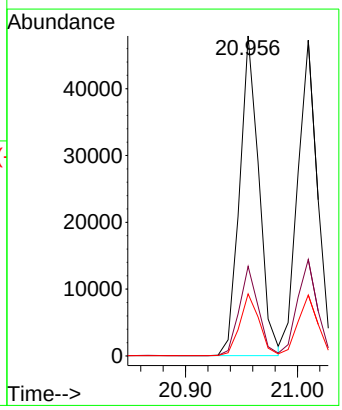


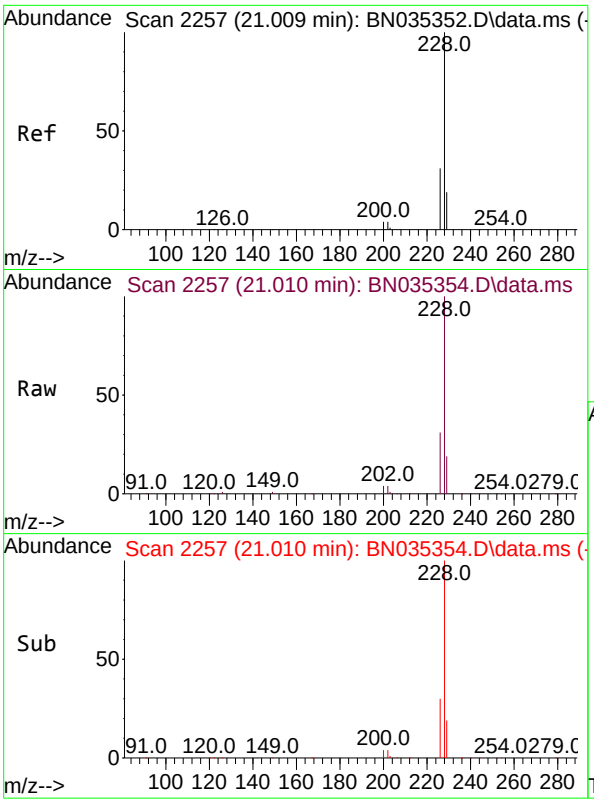




#32
Benzo(a)anthracene
Concen: 1.667 ng
RT: 20.956 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion:228 Resp: 57498

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 28.0 | 22.5 | 33.7 |
| 229 | 19.4 | 15.8 | 23.8 |



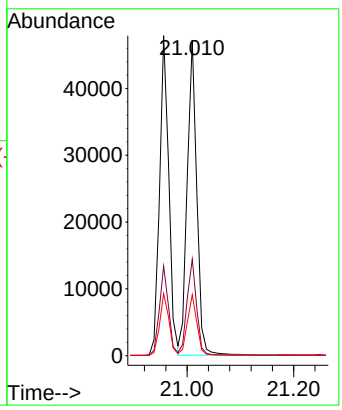


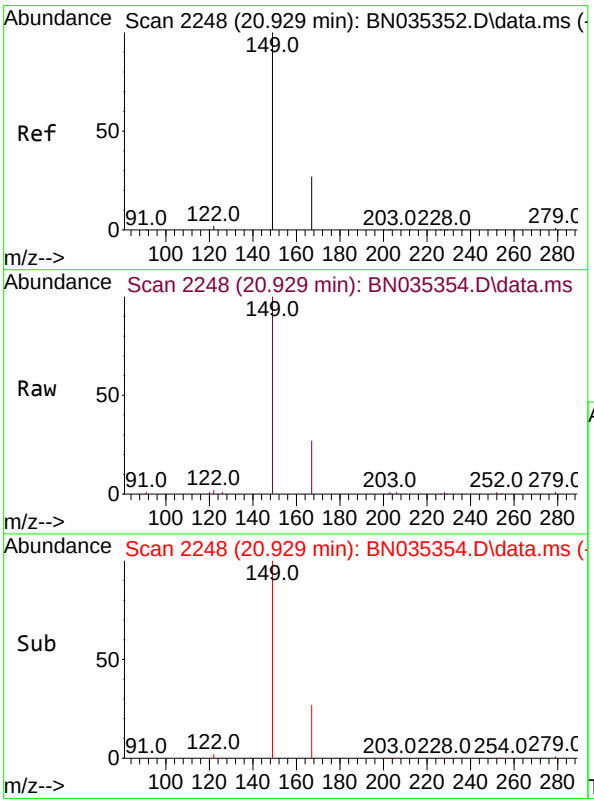

#33
Chrysene
Concen: 1.725 ng
RT: 21.010 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC1.6

Tgt Ion:228 Resp: 58919

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 30.6 | 24.6 | 37.0 |
| 229 | 19.3 | 15.9 | 23.9 |

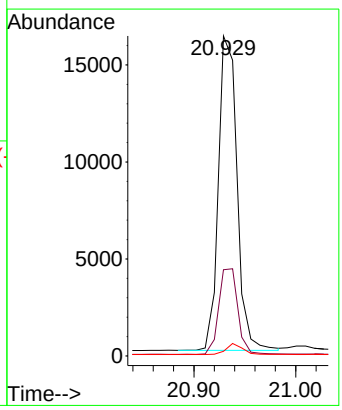


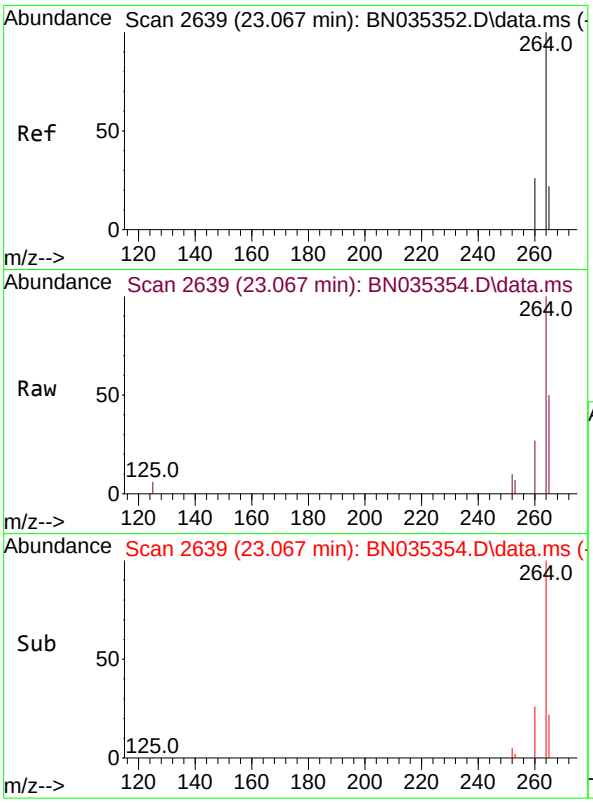




#34
Bis(2-ethylhexyl)phthalate
Concen: 1.138 ng
RT: 20.929 min Scan# 2248
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion:149 Resp: 20598

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 28.0 | 22.2 | 33.4 |
| 279 | 3.2 | 2.7 | 4.1 |



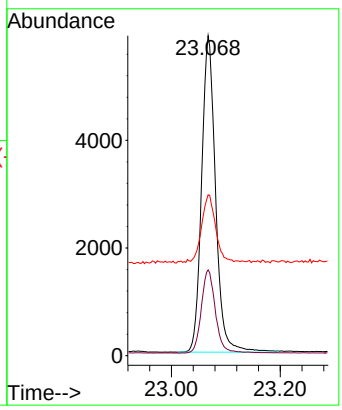


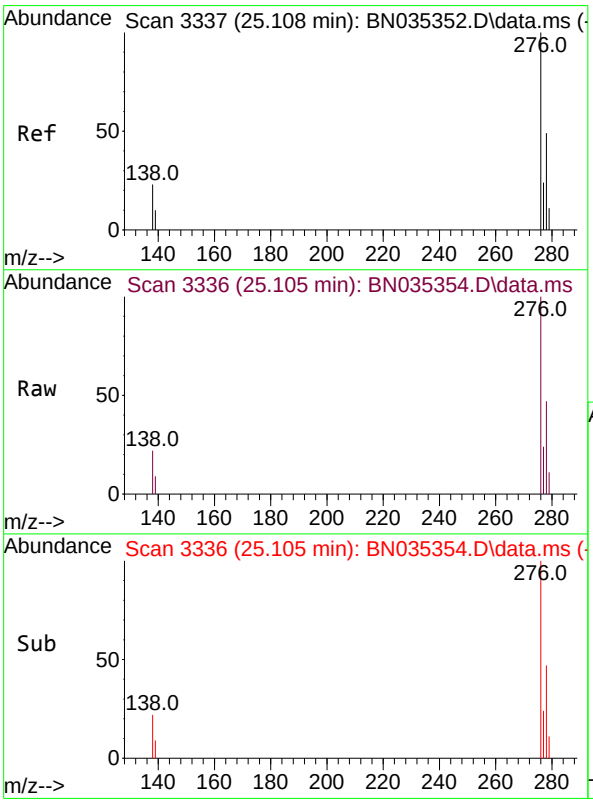

#35
Perylene-d12
Concen: 0.400 ng
RT: 23.067 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC1.6

Tgt Ion:264 Resp: 10469

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 26.8 | 21.4 | 32.2 |
| 265 | 50.3 | 40.2 | 60.4 |

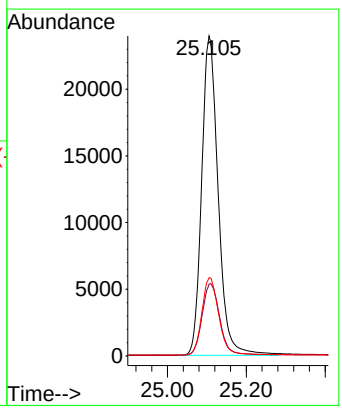


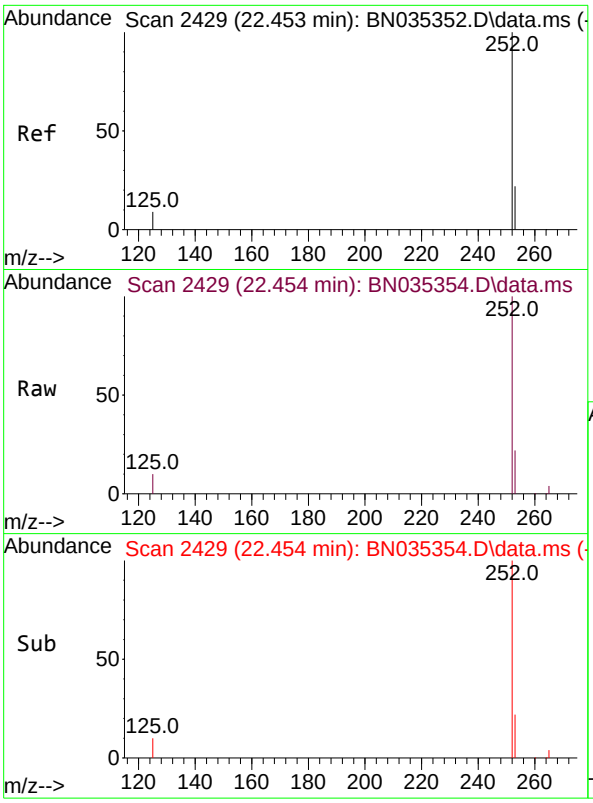




#36
Indeno(1,2,3-cd)pyrene
Concen: 1.665 ng
RT: 25.105 min Scan# 3336
Delta R.T. -0.003 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion:276 Resp: 69517

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 23.7 | 19.4 | 29.0 |
| 277 | 24.8 | 19.8 | 29.6 |



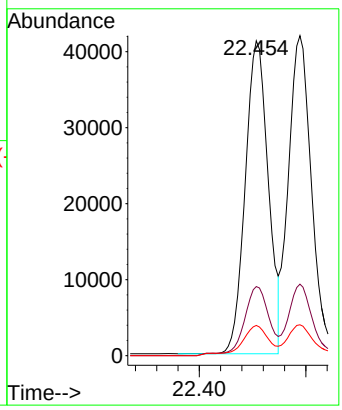


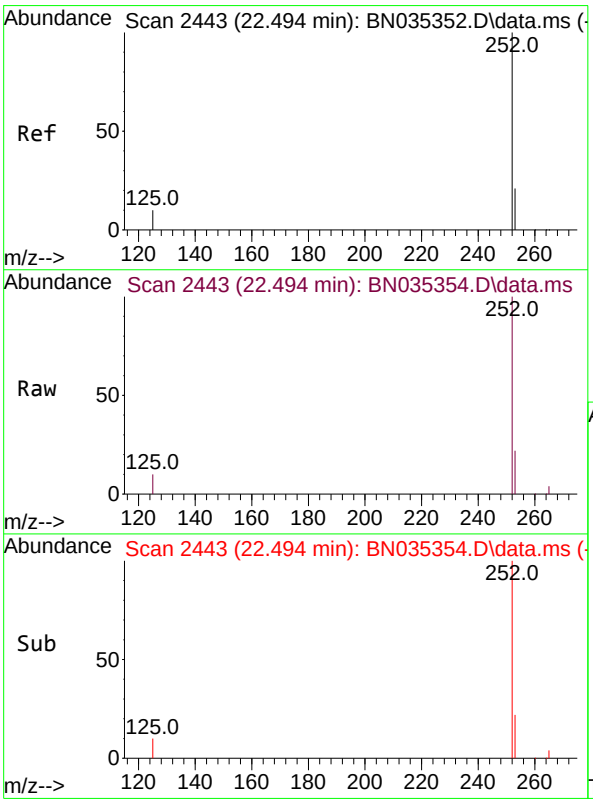

#37
Benzo(b)fluoranthene
Concen: 2.172 ng
RT: 22.454 min Scan# 24
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC1.6

Tgt Ion:252 Resp: 76506

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.0 | 19.6 | 29.4 |
| 125 | 9.6 | 9.6 | 14.4 |

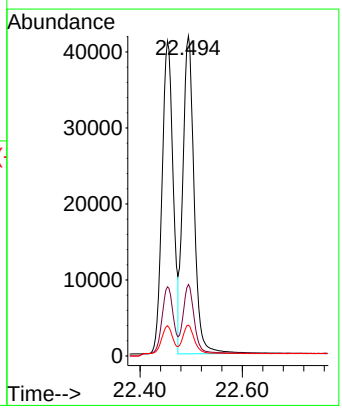


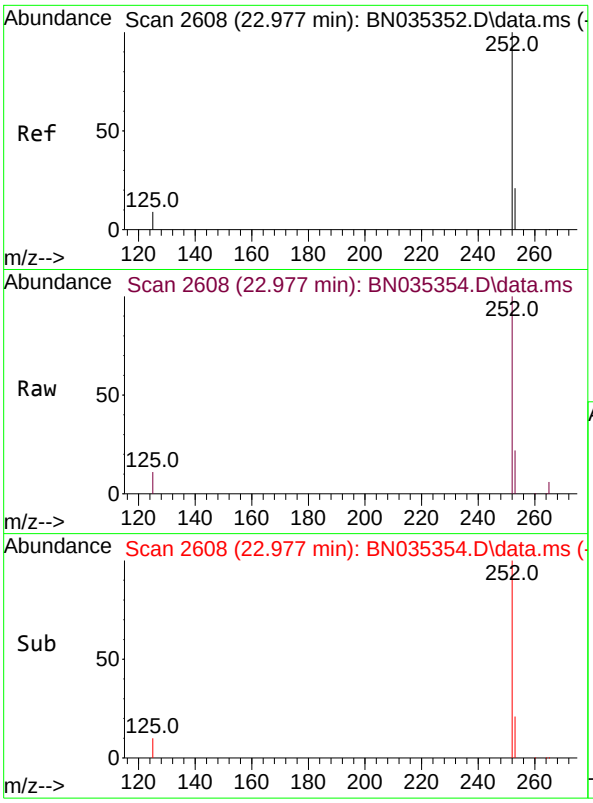




#38
Benzo(k)fluoranthene
Concen: 1.814 ng
RT: 22.494 min Scan# 2443
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion:252 Resp: 63925

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.3 | 19.5 | 29.3 |
| 125 | 9.7 | 10.2 | 15.4# |



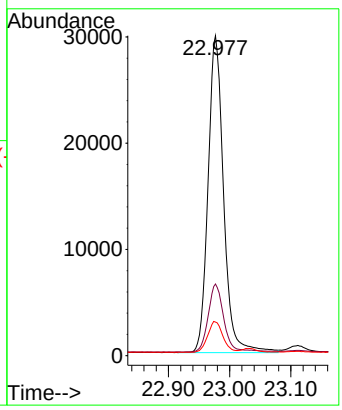


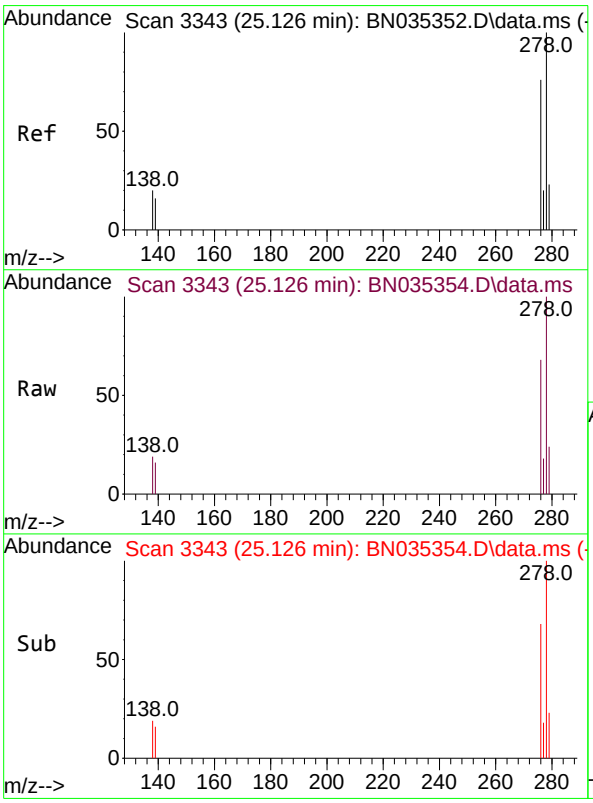

#39
Benzo(a)pyrene
Concen: 1.697 ng
RT: 22.977 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC1.6

Tgt Ion:252 Resp: 52595

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.4 | 20.2 | 30.4 |
| 125 | 10.5 | 10.9 | 16.3# |

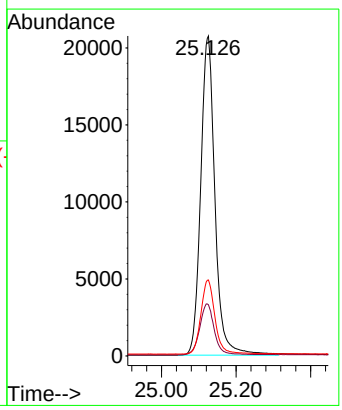


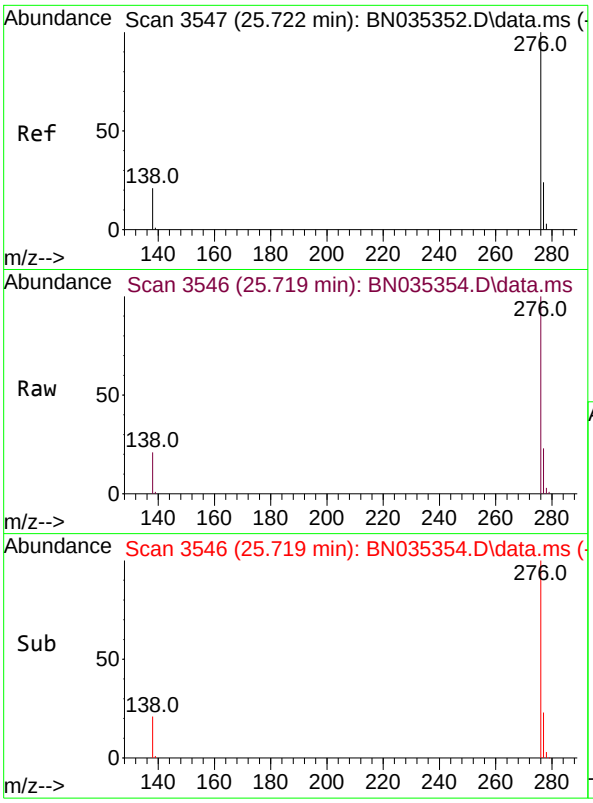




#40
Dibenzo(a,h)anthracene
Concen: 1.664 ng
RT: 25.126 min Scan# 3343
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion:278 Resp: 55068

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 16.0 | 14.2 | 21.4 |
| 279 | 23.8 | 20.5 | 30.7 |



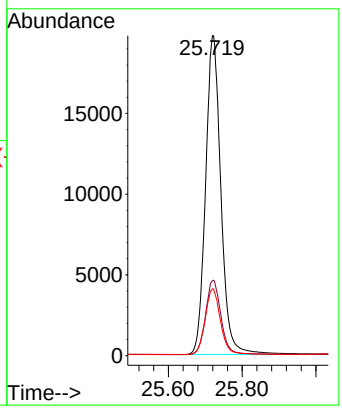



#41
Benzo(g,h,i)perylene
Concen: 1.618 ng
RT: 25.719 min Scan# 3
Delta R.T. -0.003 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC1.6

Tgt Ion:276 Resp: 56947

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 23.4 | 19.9 | 29.9 |
| 138 | 20.9 | 17.8 | 26.8 |



Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035355.D
Acq On : 27 Nov 2024 18:33
Operator : RC/JU
Sample : SSTDICC3.2
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC3.2

Quant Time: Nov 27 22:53:46 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration

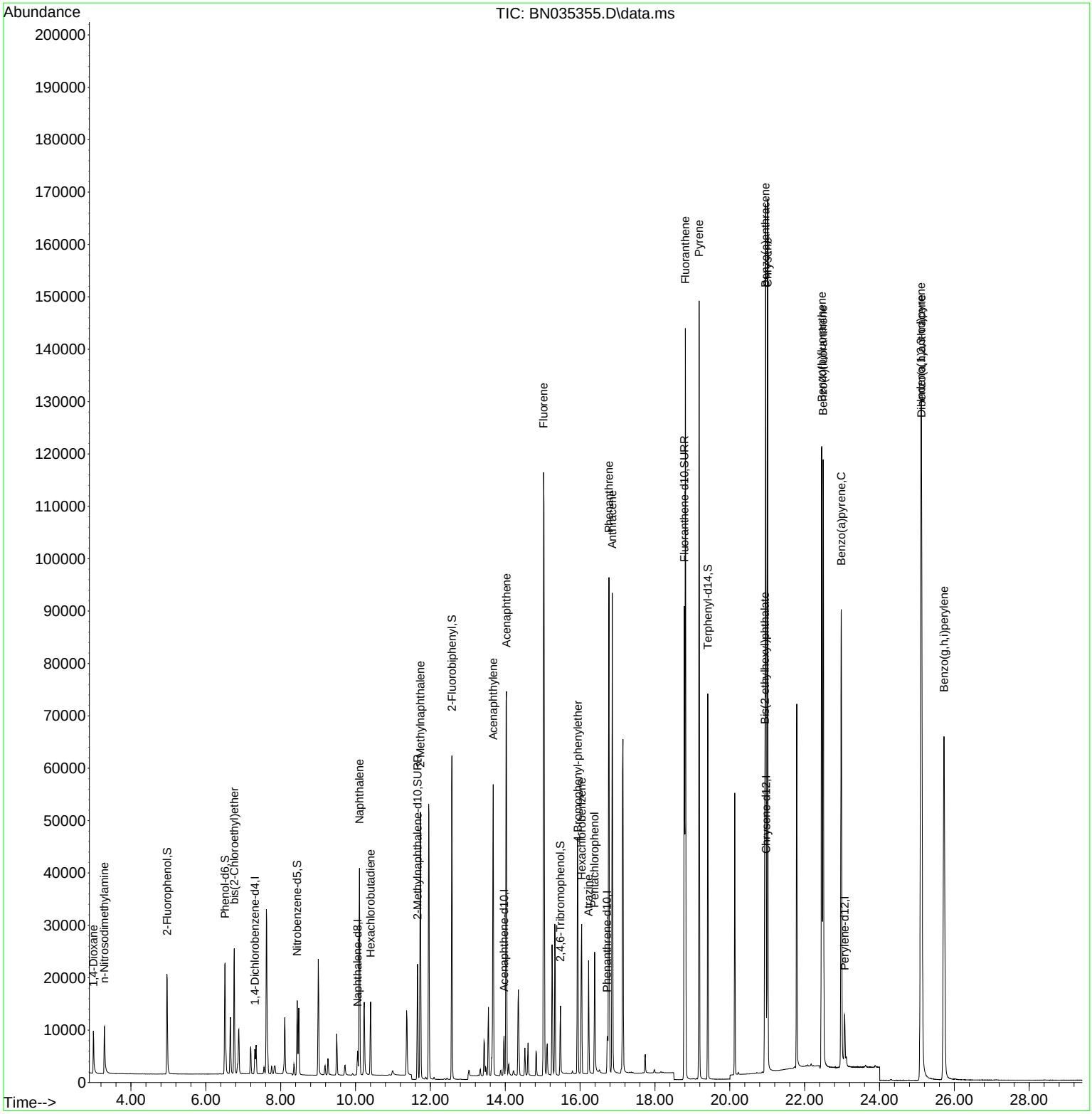
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.308 | 152 | 2226 | 0.400 | ng | | 0.00 |
| 7) Naphthalene-d8 | 10.052 | 136 | 5857 | 0.400 | ng | | 0.00 |
| 13) Acenaphthene-d10 | 13.967 | 164 | 4307 | 0.400 | ng | | 0.00 |
| 19) Phenanthrene-d10 | 16.723 | 188 | 10513 | 0.400 | ng | | #-0.01 |
| 29) Chrysene-d12 | 20.974 | 240 | 11206 | 0.400 | ng | | 0.00 |
| 35) Perylene-d12 | 23.067 | 264 | 11643 | 0.400 | ng | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 4) 2-Fluorophenol | 4.968 | 112 | 16991 | 3.007 | ng | | 0.00 |
| 5) Phenol-d6 | 6.513 | 99 | 21633 | 3.053 | ng | | 0.00 |
| 8) Nitrobenzene-d5 | 8.440 | 82 | 11759 | 2.307 | ng | | 0.00 |
| 11) 2-Methylnaphthalene-d10 | 11.656 | 152 | 29957 | 2.870 | ng | | 0.00 |
| 14) 2,4,6-Tribromophenol | 15.475 | 330 | 10700 | 3.444 | ng | | 0.00 |
| 15) 2-Fluorobiphenyl | 12.574 | 172 | 52048 | 2.976 | ng | | 0.00 |
| 27) Fluoranthene-d10 | 18.785 | 212 | 95675 | 2.971 | ng | | 0.00 |
| 31) Terphenyl-d14 | 19.412 | 244 | 69164 | 2.941 | ng | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 2.996 | 88 | 6360 | 3.146 | ng | | 99 |
| 3) n-Nitrosodimethylamine | 3.285 | 42 | 5524 | 2.932 | ng | # | 95 |
| 6) bis(2-Chloroethyl)ether | 6.759 | 93 | 17762 | 3.339 | ng | | 99 |
| 9) Naphthalene | 10.105 | 128 | 49151 | 3.214 | ng | | 97 |
| 10) Hexachlorobutadiene | 10.404 | 225 | 11039 | 2.463 | ng | # | 100 |
| 12) 2-Methylnaphthalene | 11.732 | 142 | 36121 | 3.202 | ng | | 98 |
| 16) Acenaphthylene | 13.679 | 152 | 60734 | 3.300 | ng | | 99 |
| 17) Acenaphthene | 14.031 | 154 | 38676 | 3.206 | ng | | 99 |
| 18) Fluorene | 15.026 | 166 | 55613 | 3.134 | ng | | 99 |
| 21) 4-Bromophenyl-phenylether | 15.941 | 248 | 20321 | 3.034 | ng | # | 93 |
| 22) Hexachlorobenzene | 16.040 | 284 | 23349 | 3.359 | ng | | 99 |
| 23) Atrazine | 16.227 | 200 | 15072 | 2.508 | ng | | 96 |
| 24) Pentachlorophenol | 16.388 | 266 | 11439 | 3.522 | ng | | 86 |
| 25) Phenanthrene | 16.773 | 178 | 94243 | 3.406 | ng | | 100 |
| 26) Anthracene | 16.860 | 178 | 87657 | 3.449 | ng | | 99 |
| 28) Fluoranthene | 18.812 | 202 | 125901 | 3.309 | ng | | 100 |
| 30) Pyrene | 19.179 | 202 | 129105 | 3.460 | ng | | 100 |
| 32) Benzo(a)anthracene | 20.956 | 228 | 126517 | 3.242 | ng | | 99 |
| 33) Chrysene | 21.009 | 228 | 127439 | 3.297 | ng | | 99 |
| 34) Bis(2-ethylhexyl)phtha... | 20.938 | 149 | 46251 | 2.259 | ng | | 99 |
| 36) Indeno(1,2,3-cd)pyrene | 25.108 | 276 | 150433 | 3.239 | ng | | 99 |
| 37) Benzo(b)fluoranthene | 22.456 | 252 | 136261 | 3.478 | ng | # | 94 |
| 38) Benzo(k)fluoranthene | 22.494 | 252 | 134789 | 3.439 | ng | # | 93 |
| 39) Benzo(a)pyrene | 22.980 | 252 | 114719 | 3.328 | ng | # | 93 |
| 40) Dibenzo(a,h)anthracene | 25.123 | 278 | 119216 | 3.240 | ng | | 96 |
| 41) Benzo(g,h,i)perylene | 25.722 | 276 | 123841 | 3.164 | ng | | 97 |

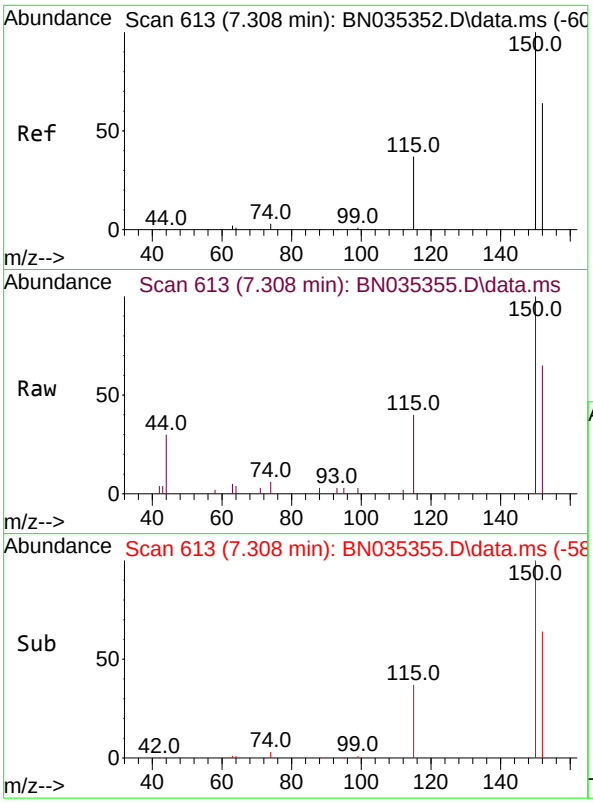
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035355.D
Acq On : 27 Nov 2024 18:33
Operator : RC/JU
Sample : SSTDICC3.2
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC3.2

Quant Time: Nov 27 22:53:46 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration



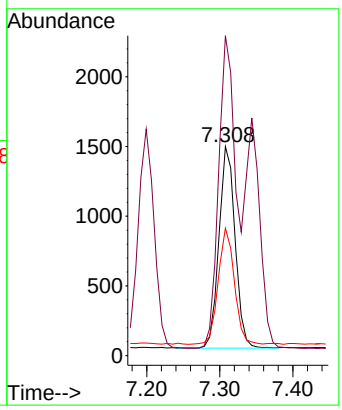


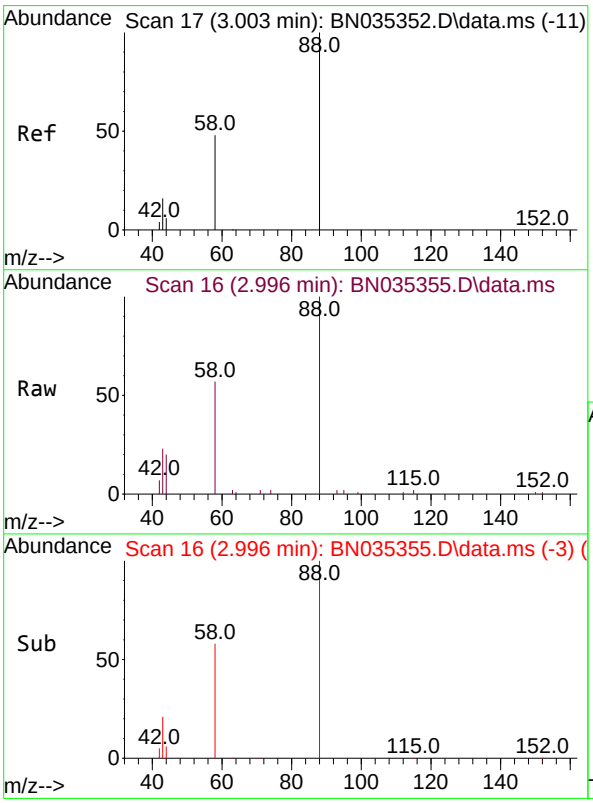

#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC3.2

Tgt Ion:152 Resp: 2226

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 153.0 | 124.0 | 186.0 |
| 115 | 61.0 | 49.6 | 74.4 |

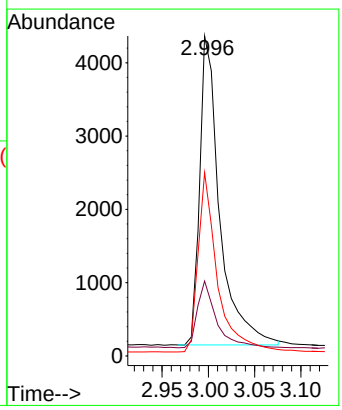


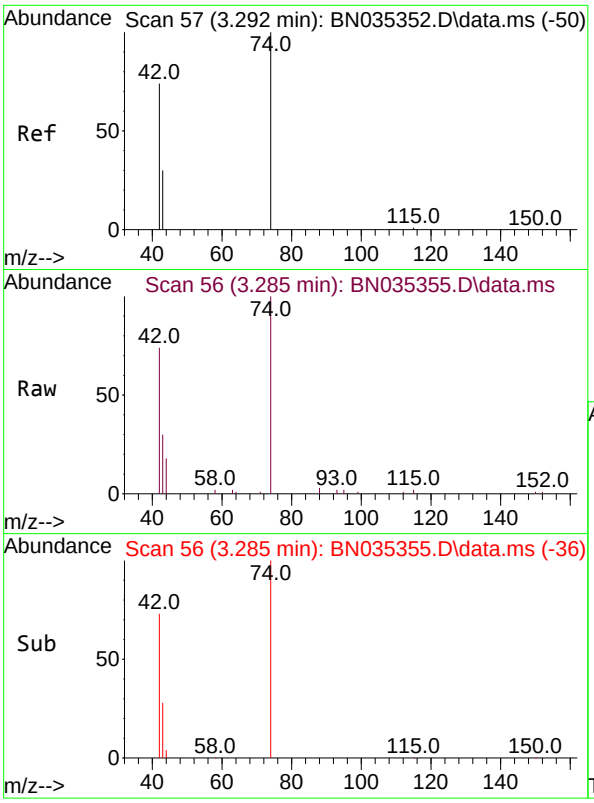




#2
1,4-Dioxane
Concen: 3.146 ng
RT: 2.996 min Scan# 16
Delta R.T. -0.007 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion: 88 Resp: 6360

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 20.6 | 17.2 | 25.8 |
| 58 | 55.4 | 44.5 | 66.7 |



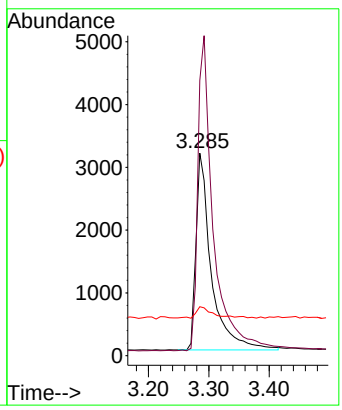


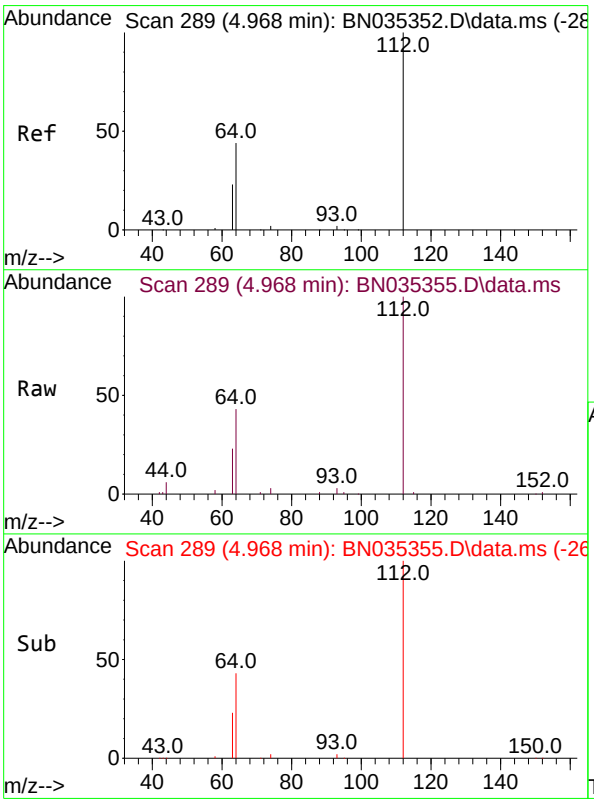

#3
n-Nitrosodimethylamine
Concen: 2.932 ng
RT: 3.285 min Scan# 5
Delta R.T. -0.007 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC3.2

Tgt Ion: 42 Resp: 5524

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 162.0 | 124.9 | 187.3 |
| 44 | 6.4 | 2.2 | 3.4# |

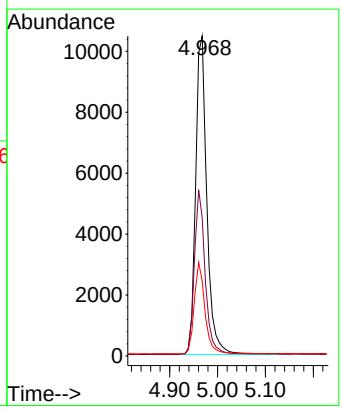


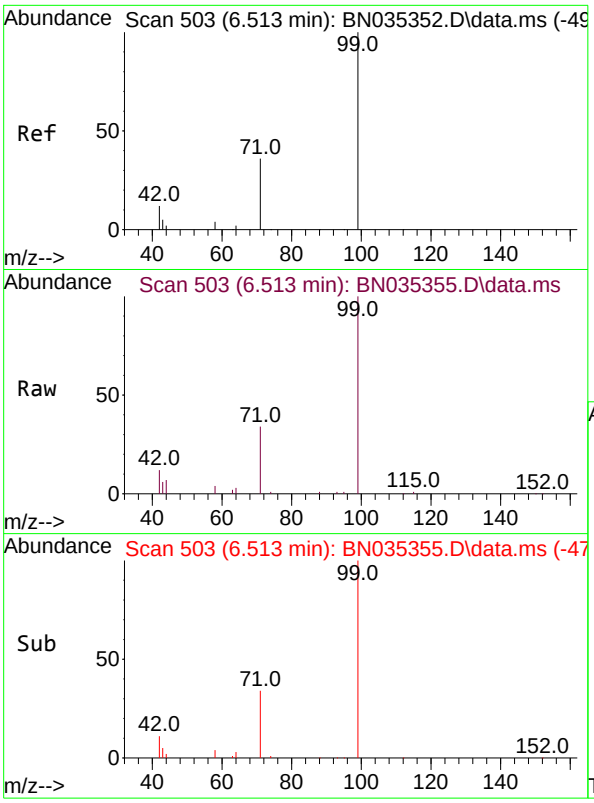




#4
2-Fluorophenol
Concen: 3.007 ng
RT: 4.968 min Scan# 289
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion:112 Resp: 16991

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 49.7 | 39.8 | 59.8 |
| 63 | 27.1 | 21.0 | 31.6 |



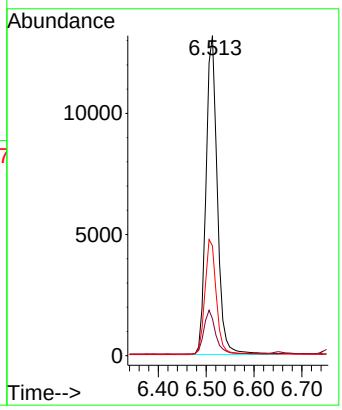


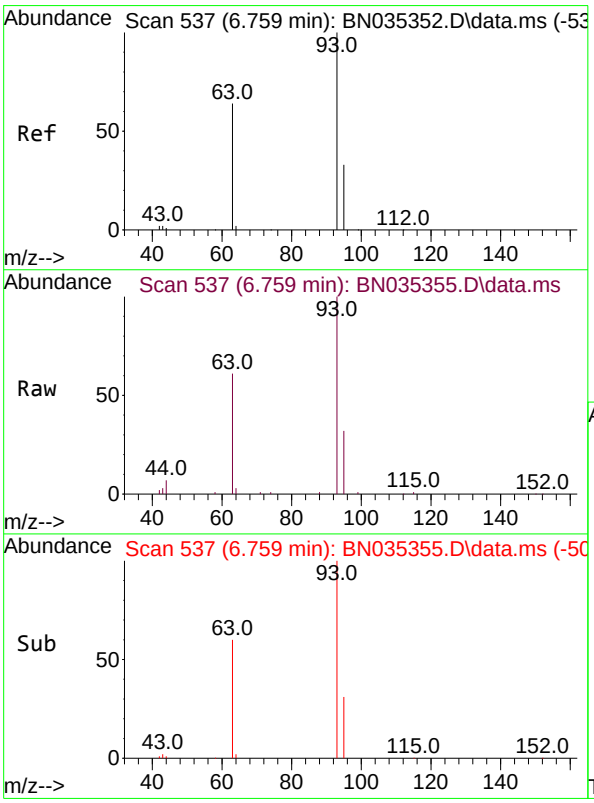

#5
Phenol-d6
Concen: 3.053 ng
RT: 6.513 min Scan# 5
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC3.2

Tgt Ion: 99 Resp: 21633

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 14.1 | 11.4 | 17.2 |
| 71 | 36.5 | 29.3 | 43.9 |

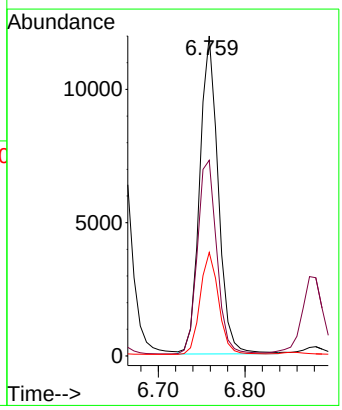


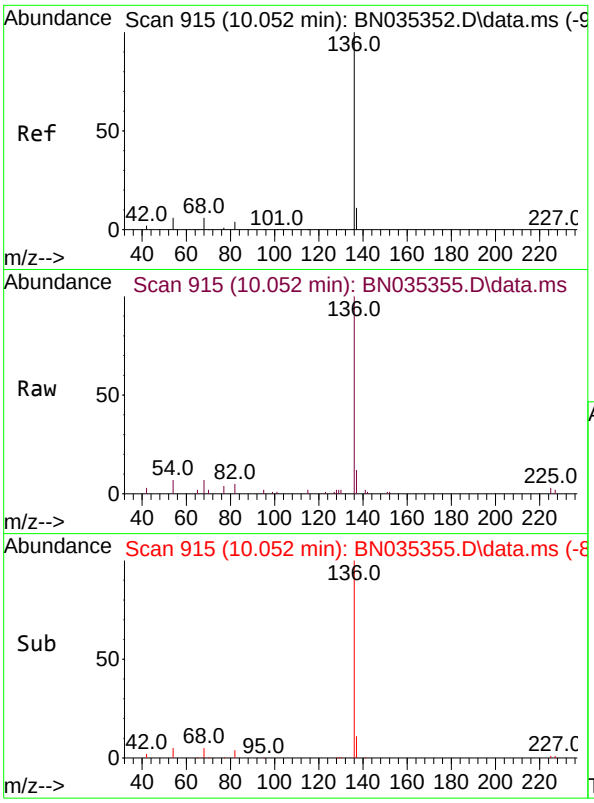




#6
bis(2-Chloroethyl)ether
Concen: 3.339 ng
RT: 6.759 min Scan# 537
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion: 93 Resp: 17762

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 63.6 | 50.4 | 75.6 |
| 95 | 32.0 | 25.7 | 38.5 |



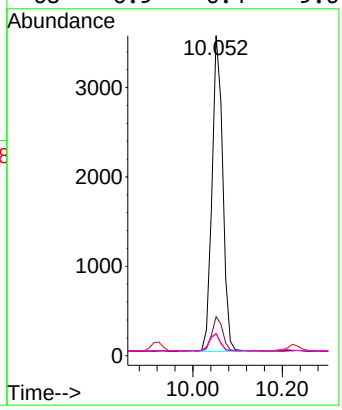


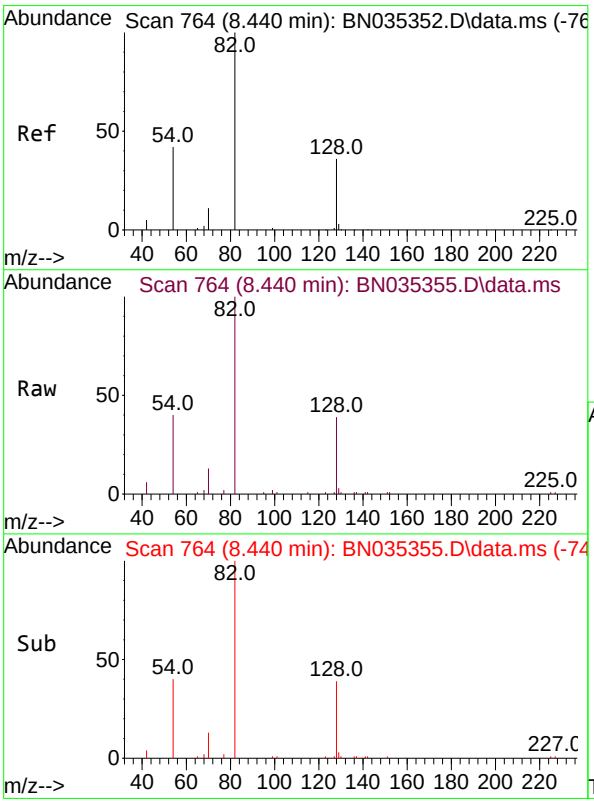

#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 9
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC3.2

Tgt Ion:136 Resp: 5857

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 12.2 | 10.2 | 15.2 |
| 54 | 6.9 | 6.1 | 9.1 |
| 68 | 6.9 | 6.4 | 9.6 |

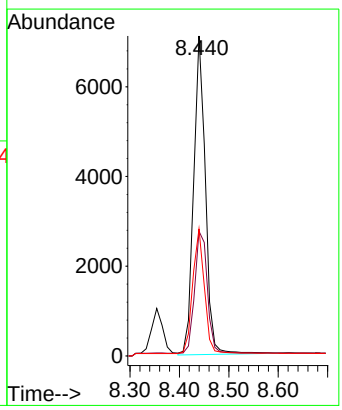


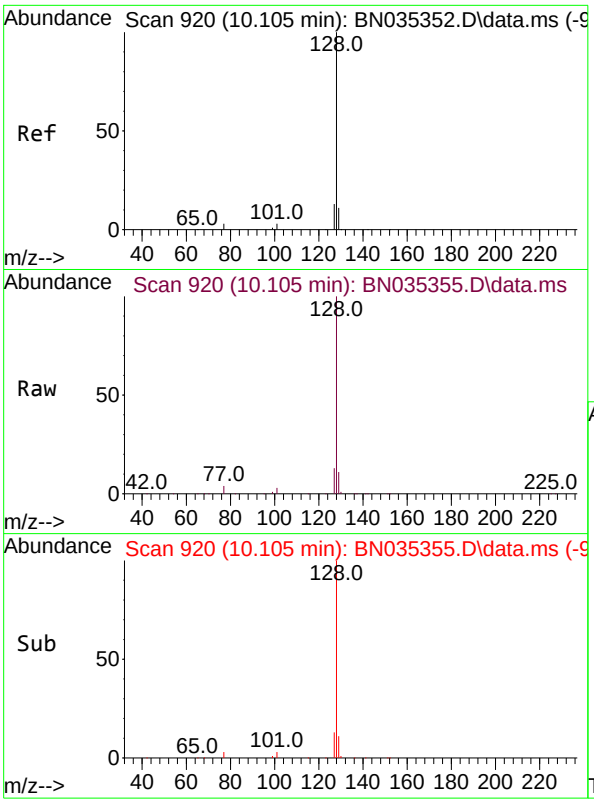




#8
Nitrobenzene-d5
Concen: 2.307 ng
RT: 8.440 min Scan# 764
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion: 82 Resp: 11759

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 39.0 | 33.4 | 50.0 |
| 54 | 39.7 | 36.7 | 55.1 |



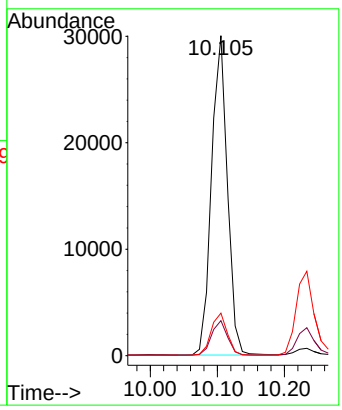


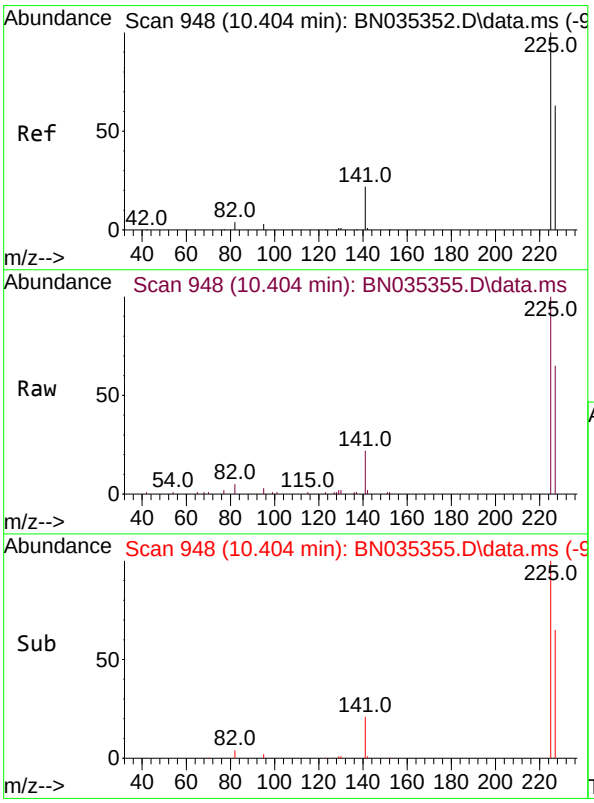

#9
Naphthalene
Concen: 3.214 ng
RT: 10.105 min Scan# 9
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC3.2

Tgt Ion:128 Resp: 49151

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 11.0 | 9.8 | 14.6 |
| 127 | 13.3 | 11.4 | 17.2 |

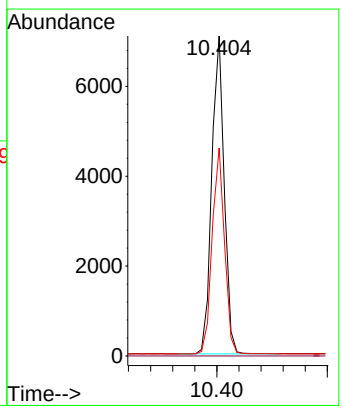


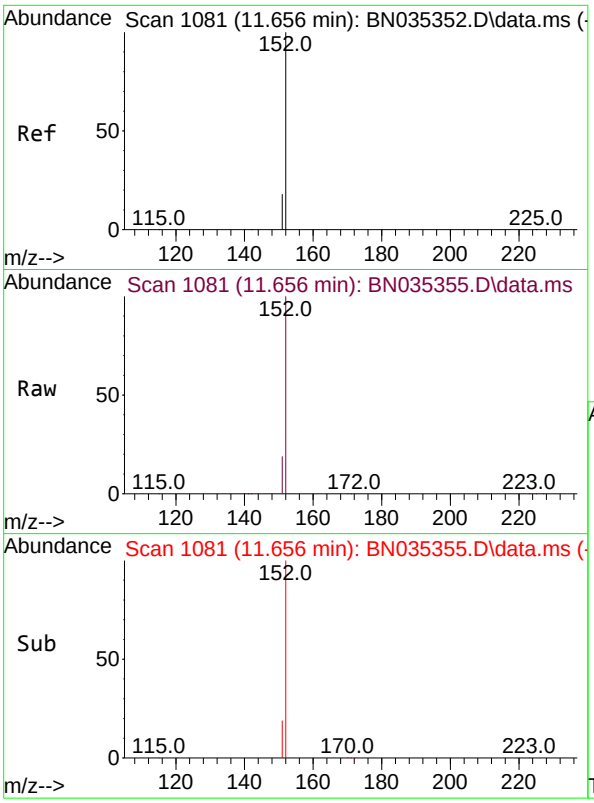




#10
Hexachlorobutadiene
Concen: 2.463 ng
RT: 10.404 min Scan# 948
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion:225 Resp: 11039

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 0.0 | 0.0 | 0.0 |
| 227 | 64.4 | 51.3 | 76.9 |



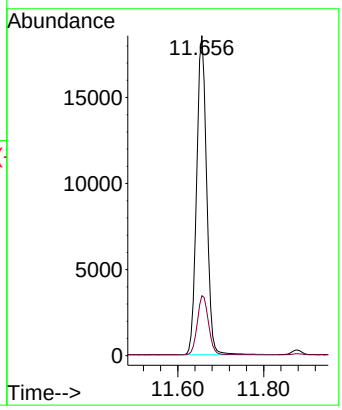


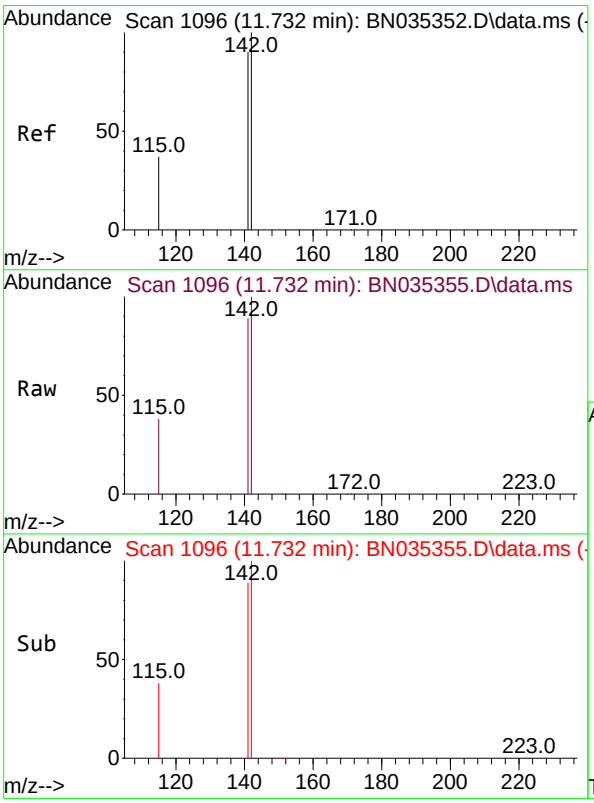

#11
2-Methylnaphthalene-d10
Concen: 2.870 ng
RT: 11.656 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC3.2

Tgt Ion:152 Resp: 29957

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.6 | 16.6 | 25.0 |

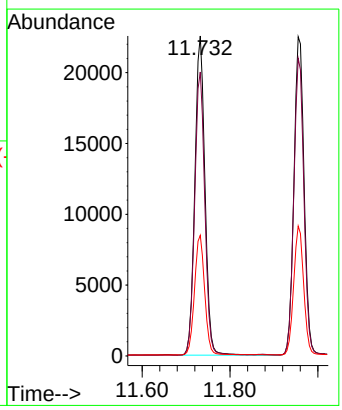


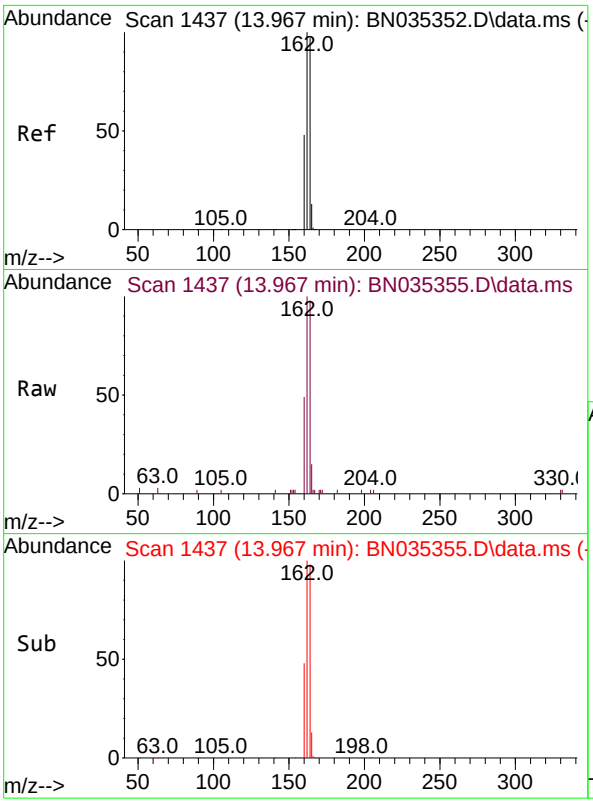




#12
2-Methylnaphthalene
Concen: 3.202 ng
RT: 11.732 min Scan# 1096
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion:142 Resp: 36121

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 88.7 | 72.2 | 108.4 |
| 115 | 37.7 | 31.4 | 47.0 |



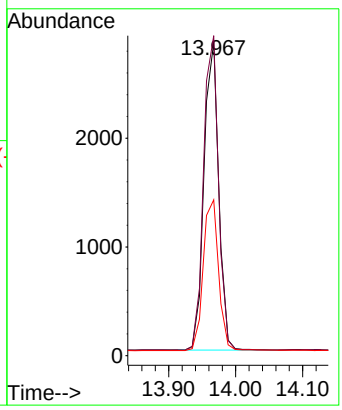


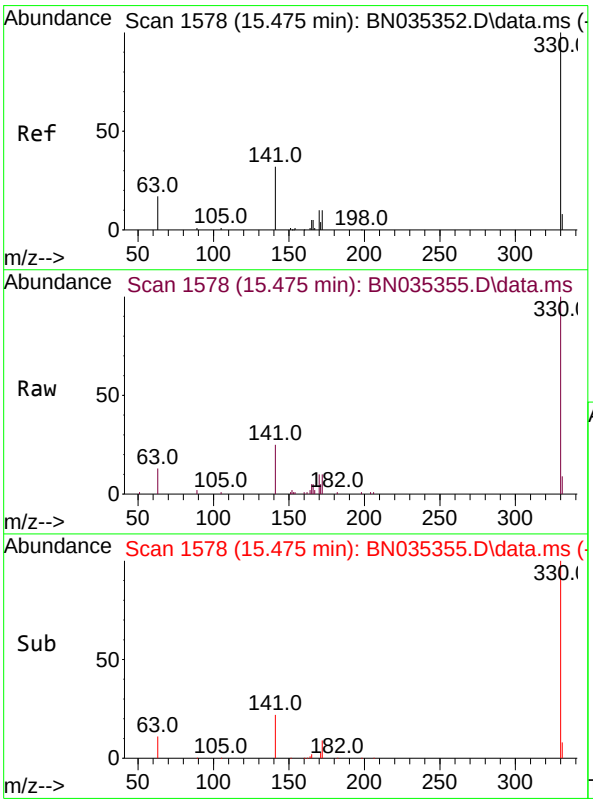

#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC3.2

Tgt Ion:164 Resp: 4307

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 102.0 | 82.2 | 123.2 |
| 160 | 49.7 | 40.1 | 60.1 |

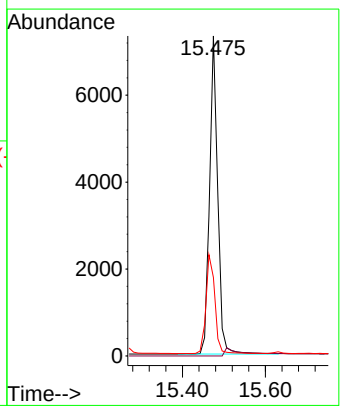


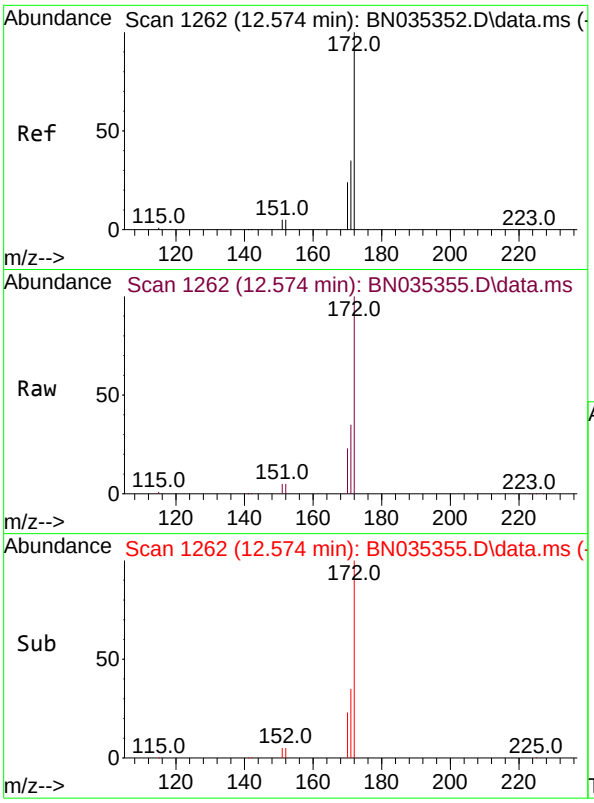




#14
2,4,6-Tribromophenol
Concen: 3.444 ng
RT: 15.475 min Scan# 1578
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion:330 Resp: 10700

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 0.0 | 0.0 | 0.0 |
| 141 | 33.7 | 26.6 | 40.0 |



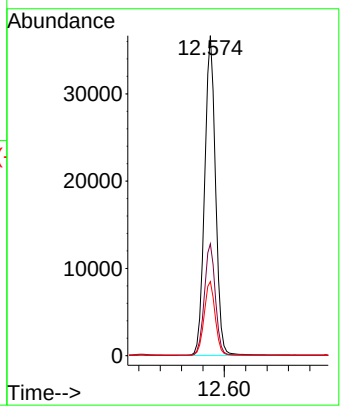


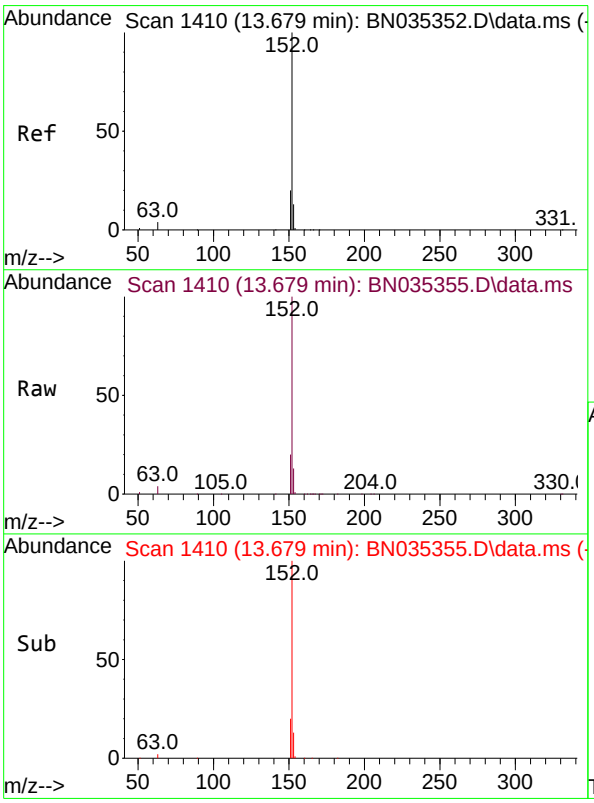

#15
2-Fluorobiphenyl
Concen: 2.976 ng
RT: 12.574 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC3.2

Tgt Ion:172 Resp: 52048

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 35.0 | 29.0 | 43.4 |
| 170 | 23.1 | 19.8 | 29.8 |

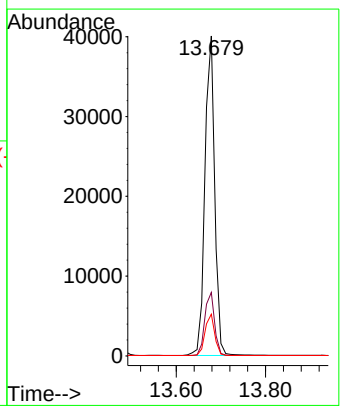


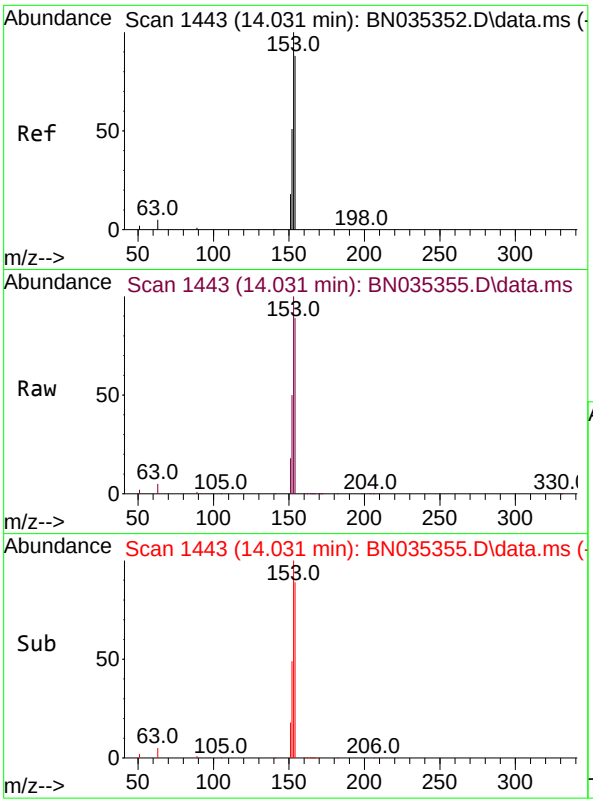




#16
Acenaphthylene
Concen: 3.300 ng
RT: 13.679 min Scan# 1410
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion:152 Resp: 60734

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 19.8 | 16.2 | 24.2 |
| 153 | 12.9 | 10.4 | 15.6 |



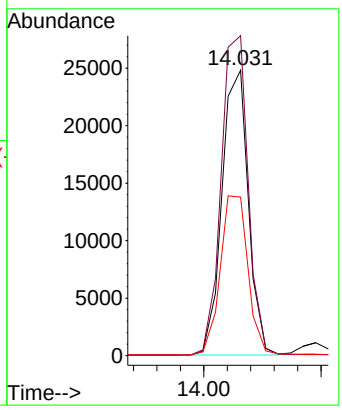


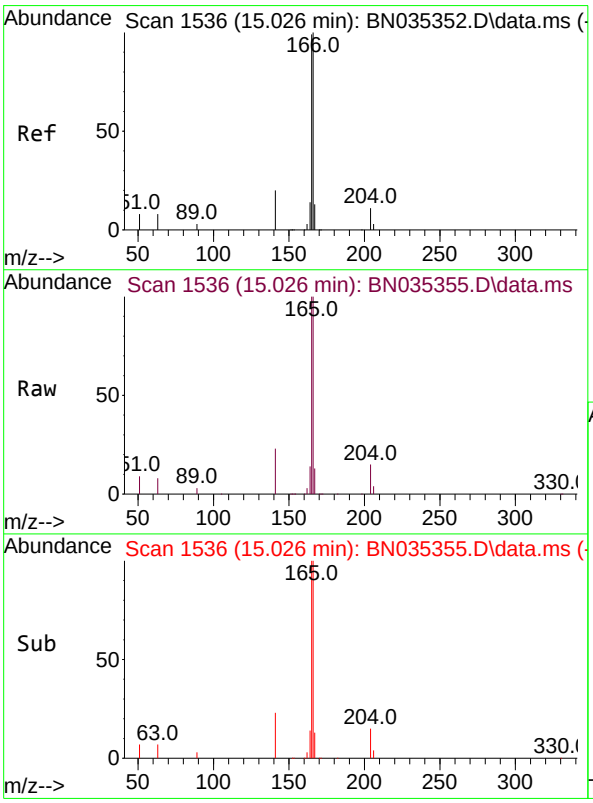

#17
Acenaphthene
Concen: 3.206 ng
RT: 14.031 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC3.2

Tgt Ion:154 Resp: 38676

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 115.5 | 92.6 | 139.0 |
| 152 | 59.2 | 49.0 | 73.6 |

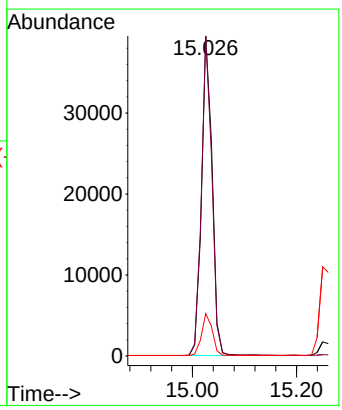


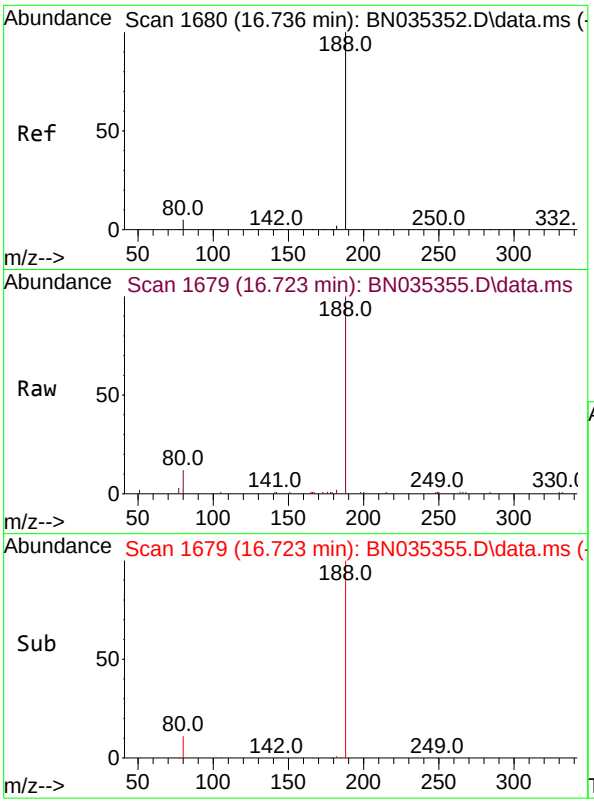




#18
Fluorene
Concen: 3.134 ng
RT: 15.026 min Scan# 1536
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion:166 Resp: 55613

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 98.5 | 79.7 | 119.5 |
| 167 | 13.3 | 10.8 | 16.2 |



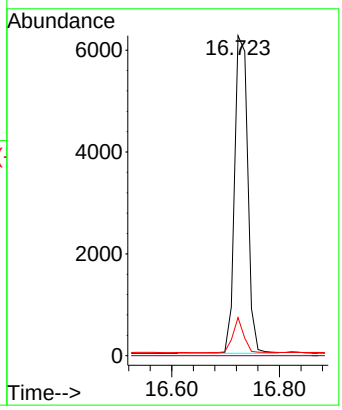


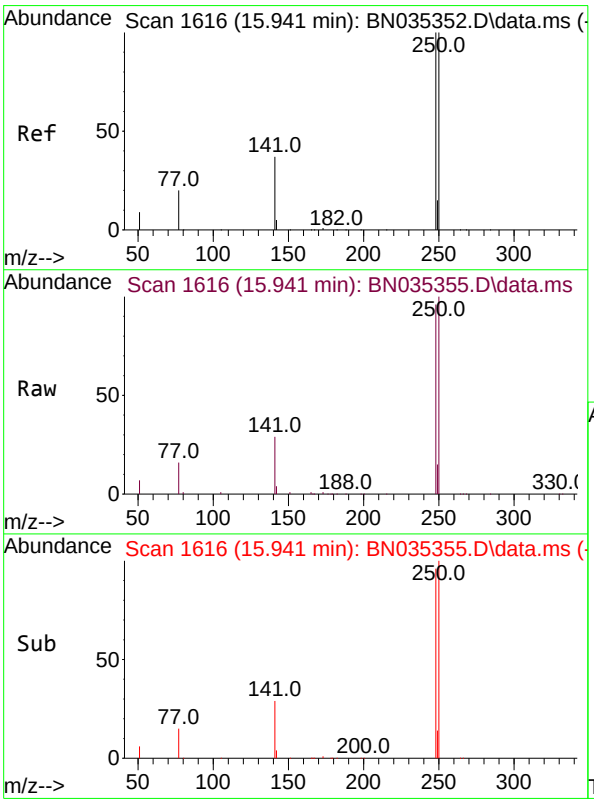

#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.723 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC3.2

Tgt Ion:188 Resp: 10513

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 11.9 | 4.6 | 6.8# |

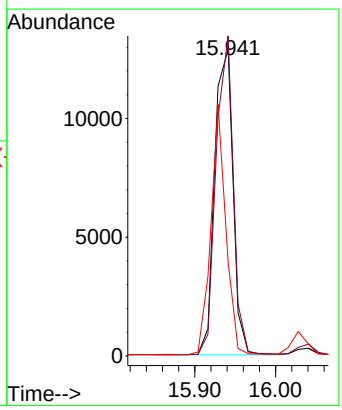


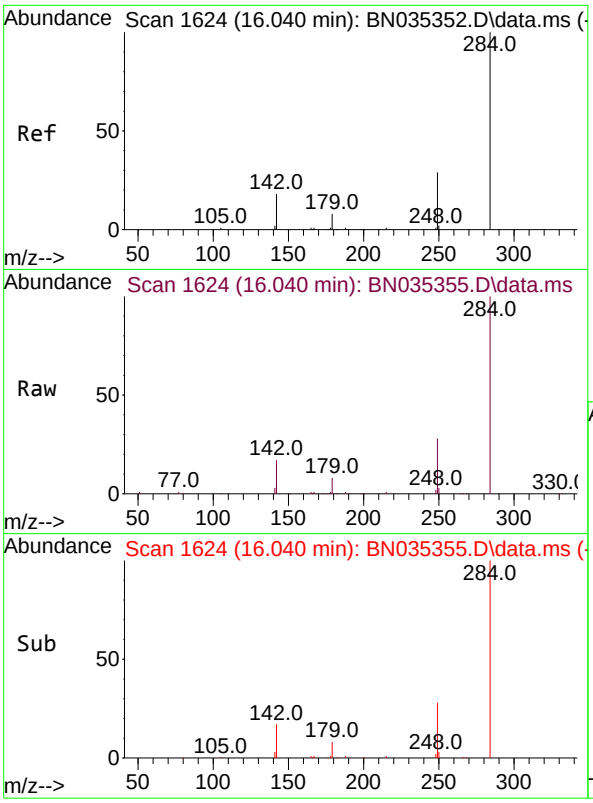




#21
4-Bromophenyl-phenylether
Concen: 3.034 ng
RT: 15.941 min Scan# 1616
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion:248 Resp: 20321

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 104.3 | 80.6 | 120.8 |
| 141 | 30.7 | 31.5 | 47.3# |



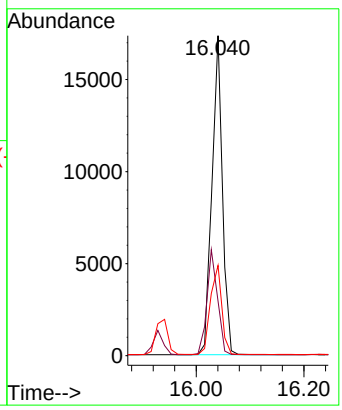


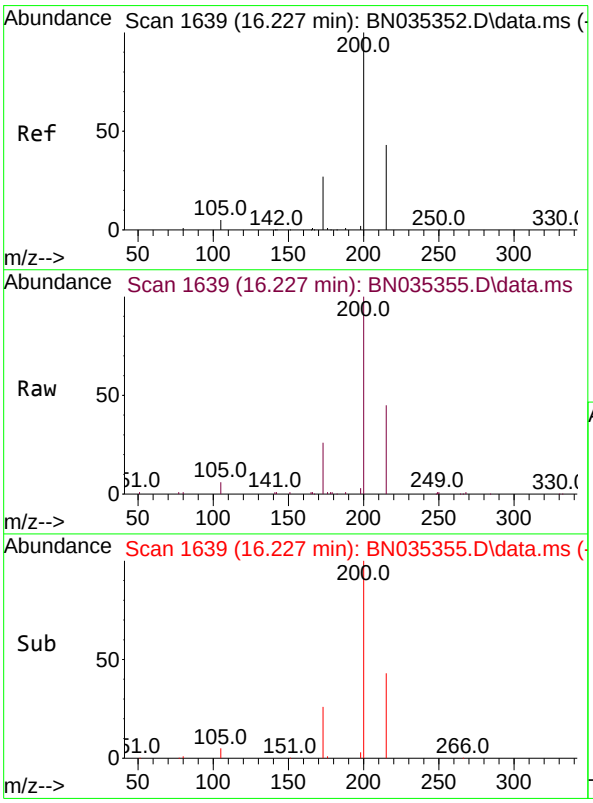

#22
Hexachlorobenzene
Concen: 3.359 ng
RT: 16.040 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC3.2

Tgt Ion:284 Resp: 23349

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 33.3 | 26.7 | 40.1 |
| 249 | 30.2 | 24.6 | 36.8 |

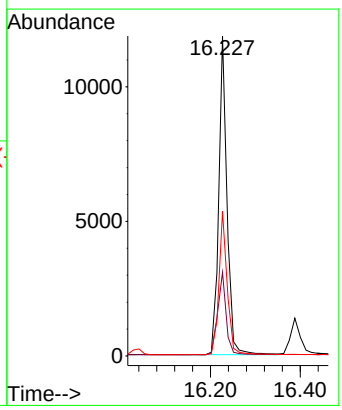


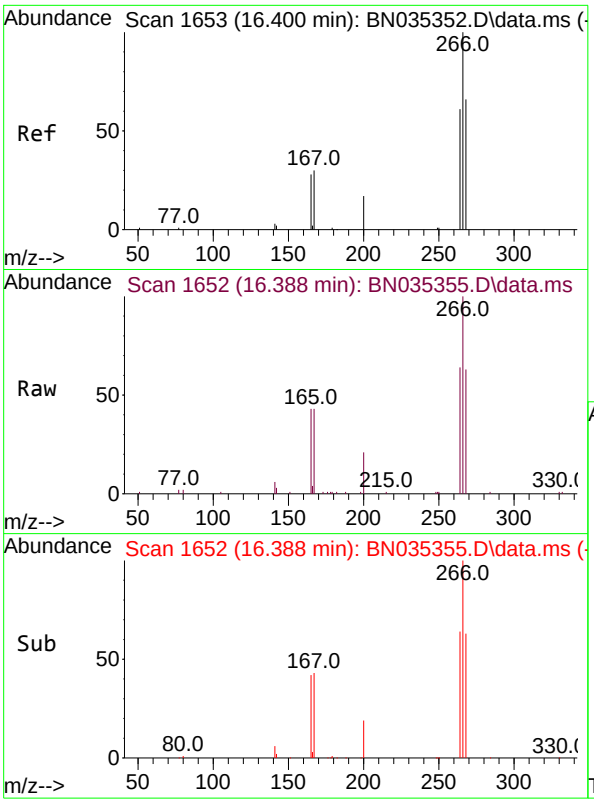




#23
Atrazine
Concen: 2.508 ng
RT: 16.227 min Scan# 1639
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion:200 Resp: 15072

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 173 | 26.2 | 24.1 | 36.1 |
| 215 | 45.1 | 36.9 | 55.3 |



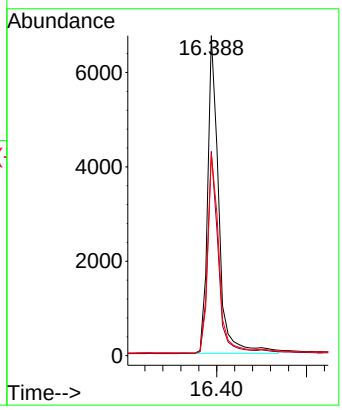


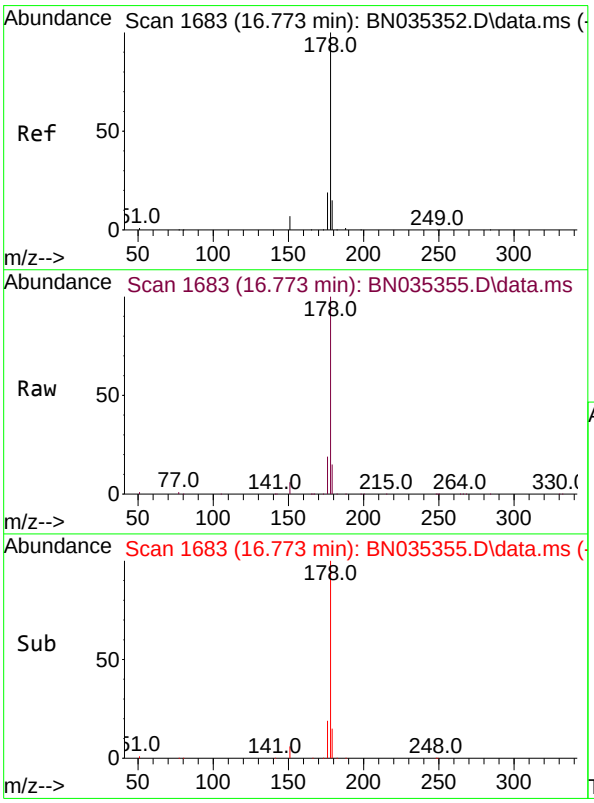

#24
Pentachlorophenol
Concen: 3.522 ng
RT: 16.388 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC3.2

Tgt Ion:266 Resp: 11439

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 264 | 62.6 | 42.3 | 63.5 |
| 268 | 64.4 | 43.3 | 64.9 |

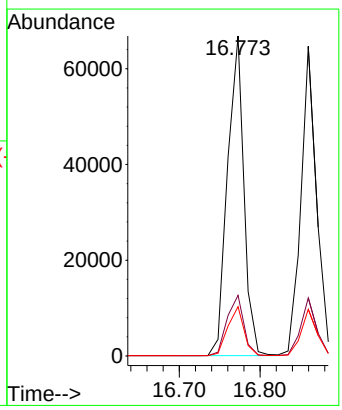


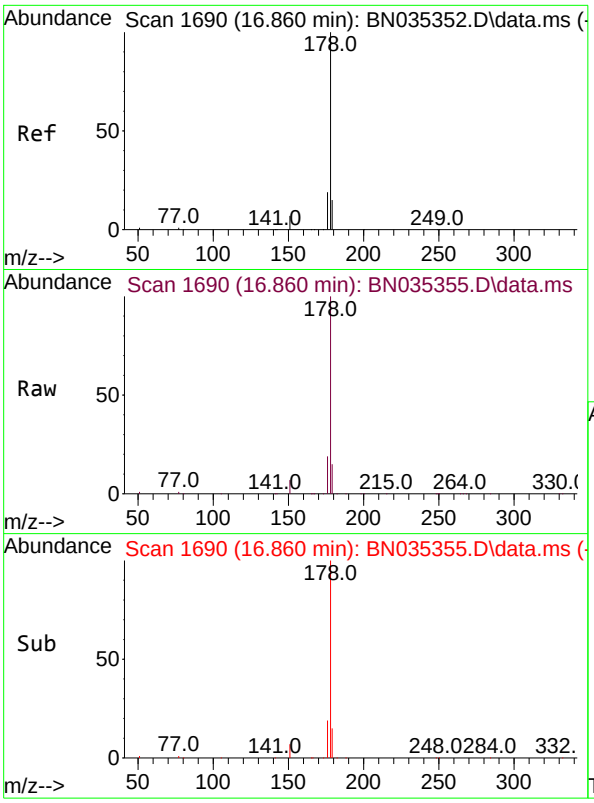




#25
Phenanthrene
Concen: 3.406 ng
RT: 16.773 min Scan# 1683
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion:178 Resp: 94243

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.3 | 15.4 | 23.2 |
| 179 | 15.3 | 12.3 | 18.5 |



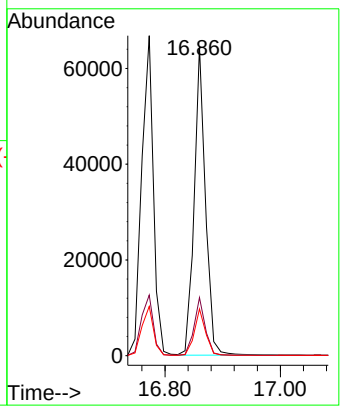


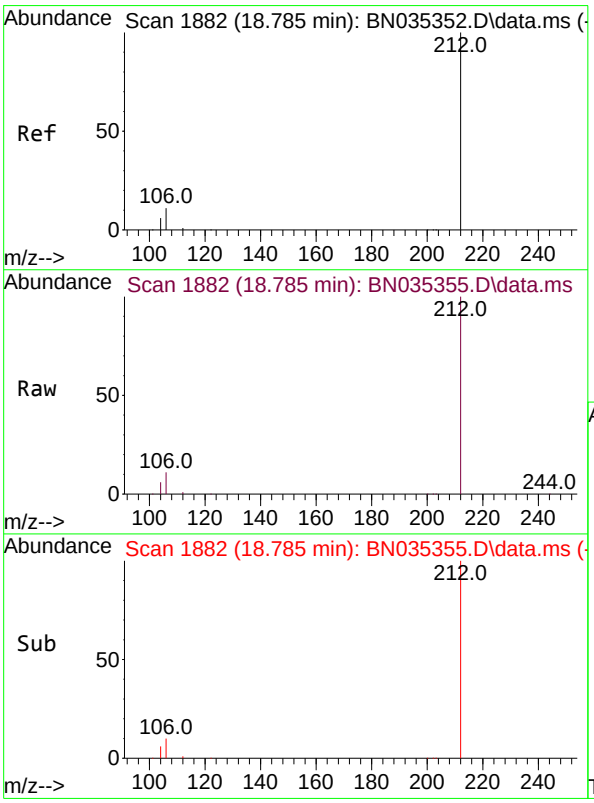

#26
Anthracene
Concen: 3.449 ng
RT: 16.860 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC3.2

Tgt Ion:178 Resp: 87657

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.6 | 15.0 | 22.6 |
| 179 | 15.1 | 12.6 | 18.8 |

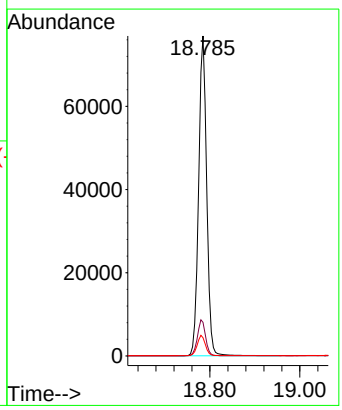


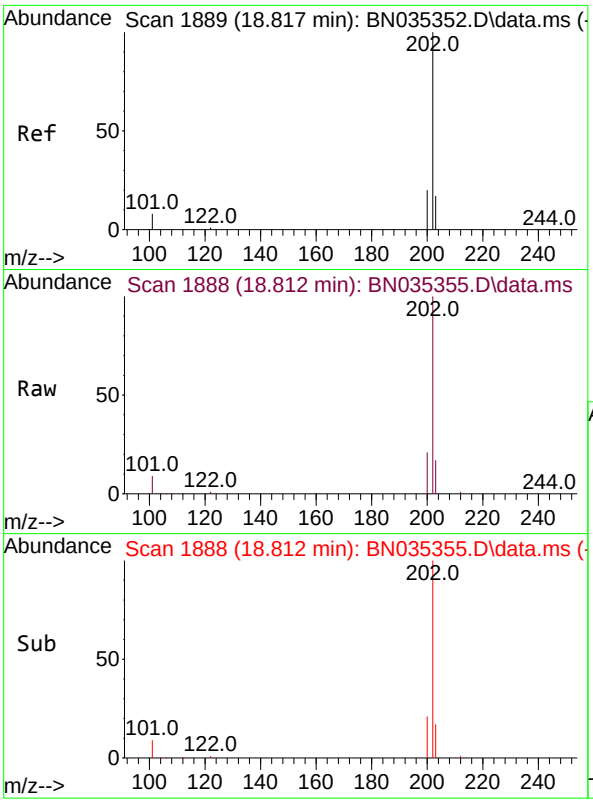




#27
Fluoranthene-d10
Concen: 2.971 ng
RT: 18.785 min Scan# 1882
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion:212 Resp: 95675

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 11.4 | 9.2 | 13.8 |
| 104 | 6.4 | 5.3 | 7.9 |



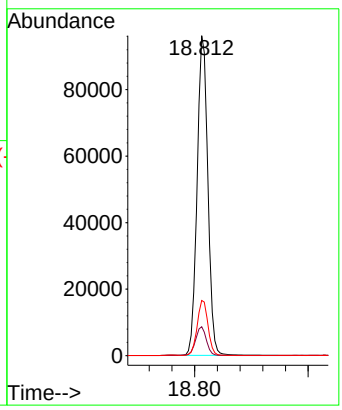


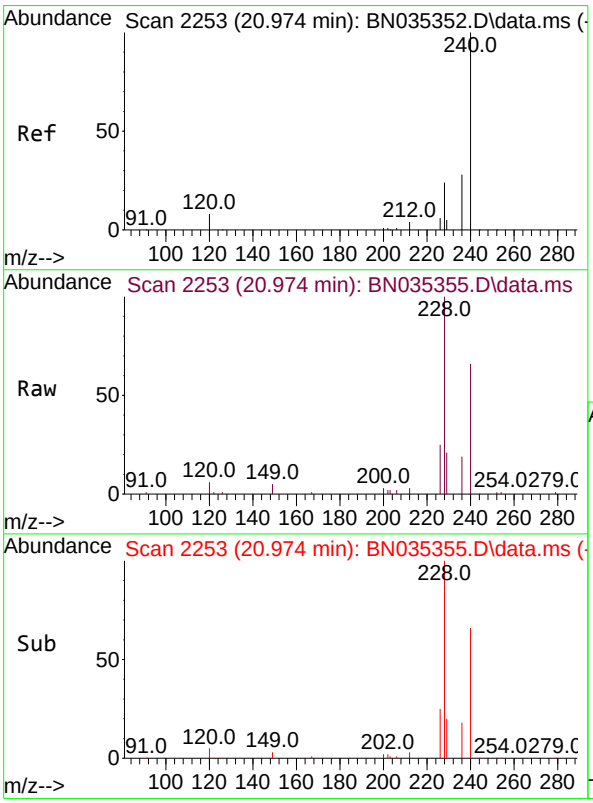

#28
Fluoranthene
Concen: 3.309 ng
RT: 18.812 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC3.2

Tgt Ion:202 Resp: 125901

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 9.1 | 7.4 | 11.0 |
| 203 | 17.3 | 13.7 | 20.5 |

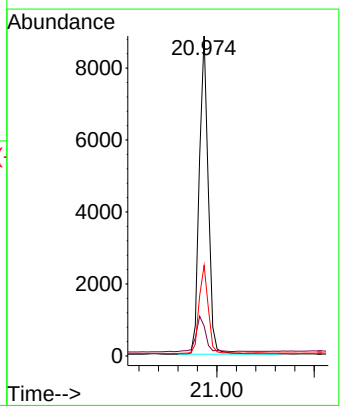


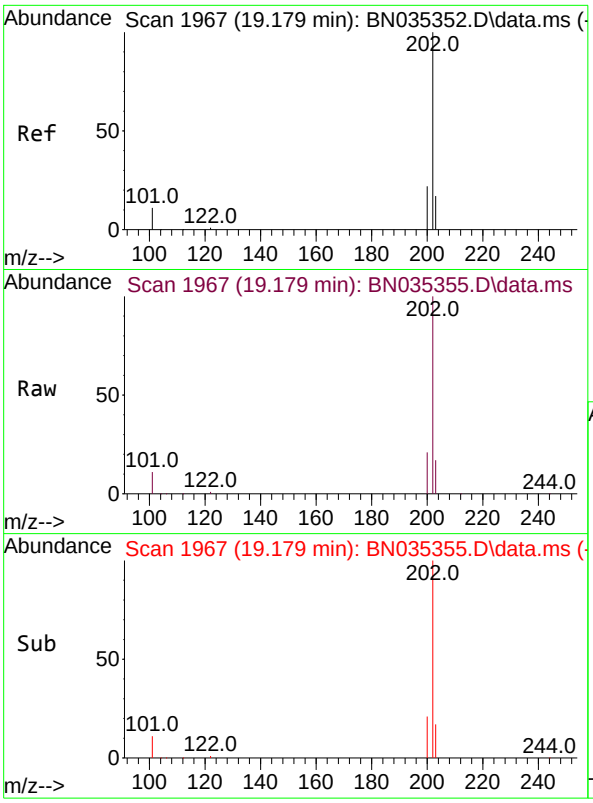




#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.974 min Scan# 2253
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion:240 Resp: 11206

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 9.3 | 7.9 | 11.9 |
| 236 | 28.3 | 22.9 | 34.3 |



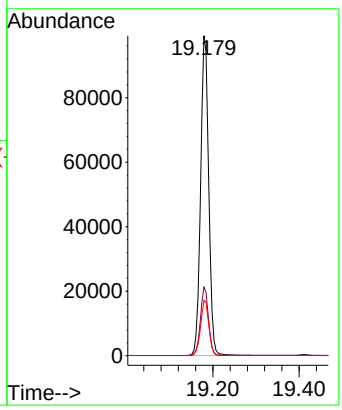


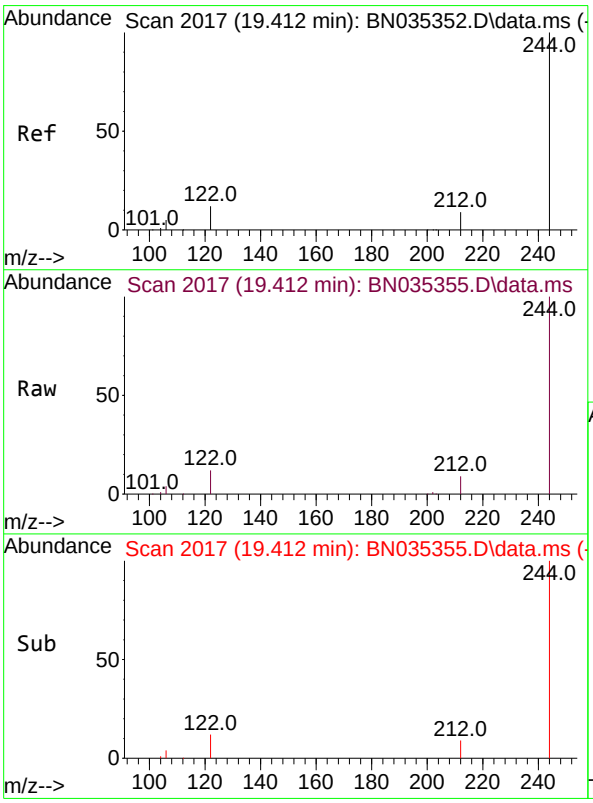

#30
Pyrene
Concen: 3.460 ng
RT: 19.179 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC3.2

Tgt Ion:202 Resp: 129105

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.2 | 17.0 | 25.4 |
| 203 | 17.7 | 14.3 | 21.5 |

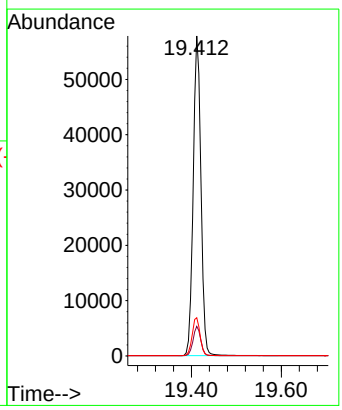


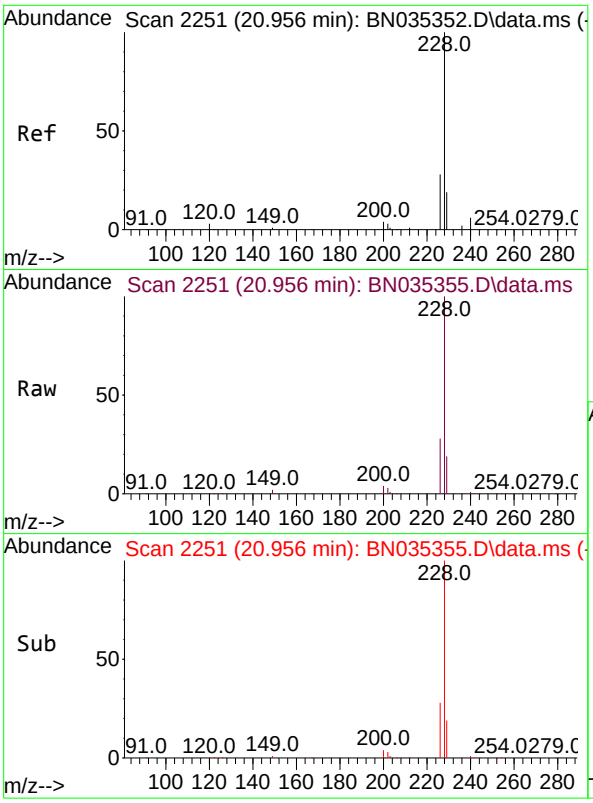




#31
Terphenyl-d14
Concen: 2.941 ng
RT: 19.412 min Scan# 2017
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion:244 Resp: 69164

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 9.2 | 8.1 | 12.1 |
| 122 | 12.0 | 10.3 | 15.5 |



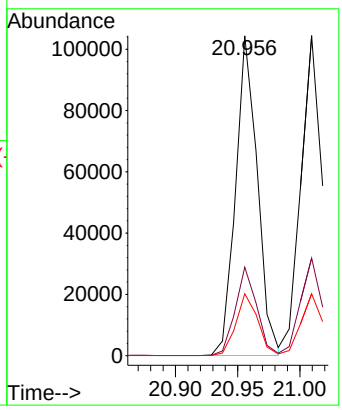


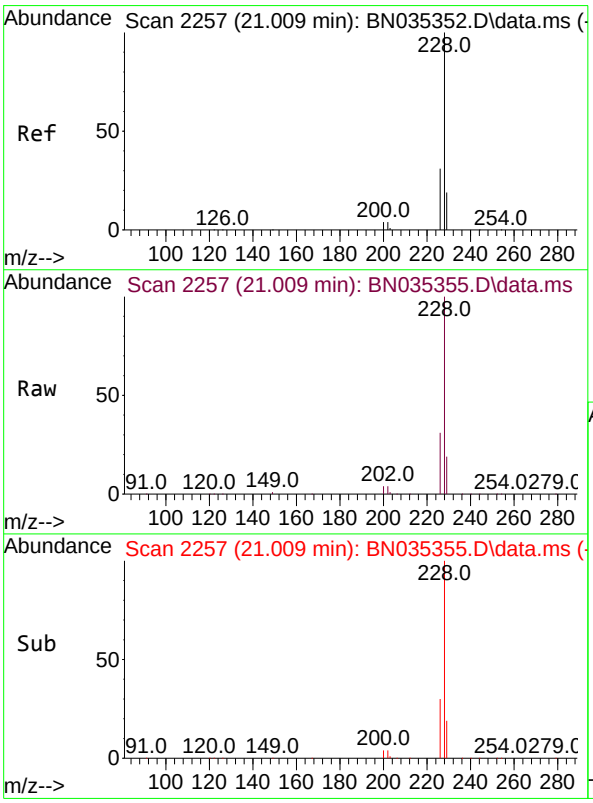

#32
Benzo(a)anthracene
Concen: 3.242 ng
RT: 20.956 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC3.2

Tgt Ion:228 Resp: 126517

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 27.6 | 22.5 | 33.7 |
| 229 | 19.4 | 15.8 | 23.8 |

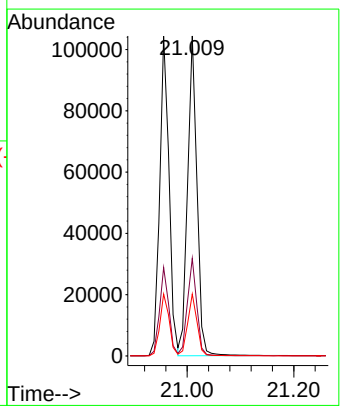


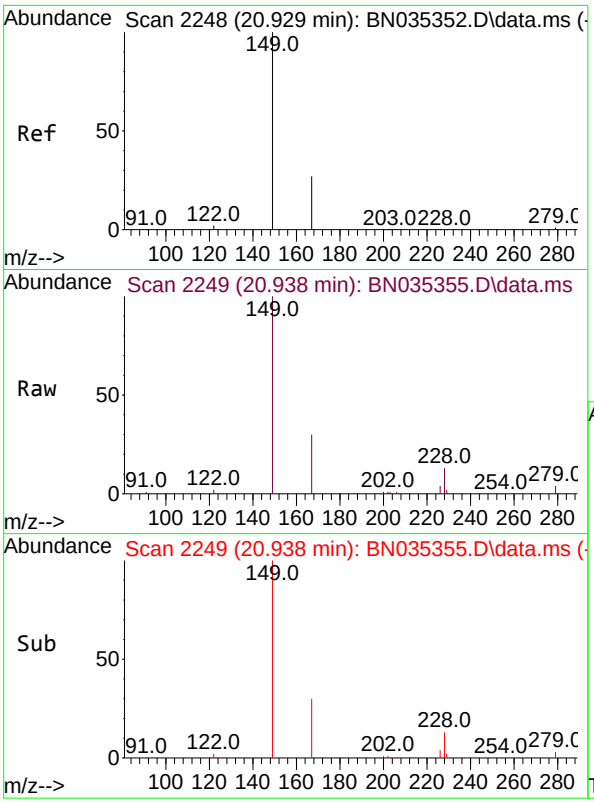




#33
Chrysene
Concen: 3.297 ng
RT: 21.009 min Scan# 2257
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion:228 Resp: 127439

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 30.5 | 24.6 | 37.0 |
| 229 | 19.4 | 15.9 | 23.9 |



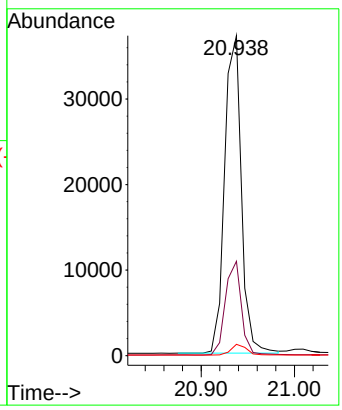


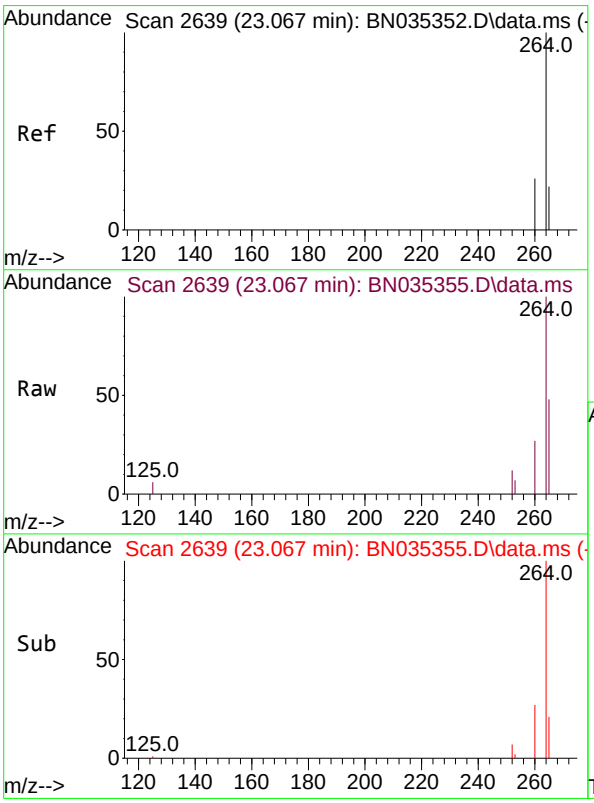

#34
Bis(2-ethylhexyl)phthalate
Concen: 2.259 ng
RT: 20.938 min Scan# 2
Delta R.T. 0.009 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC3.2

Tgt Ion:149 Resp: 46251

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 28.3 | 22.2 | 33.4 |
| 279 | 3.2 | 2.7 | 4.1 |

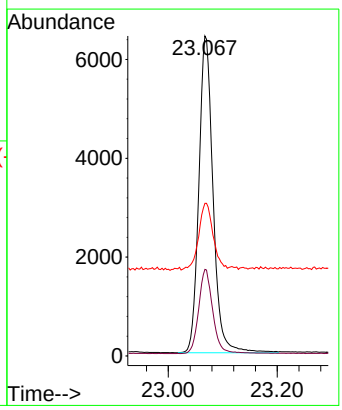


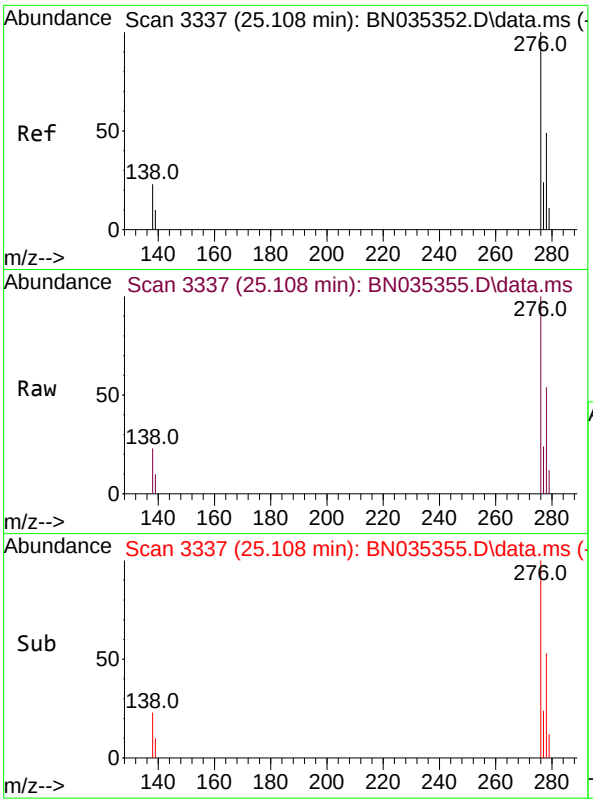




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.067 min Scan# 2639
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion:264 Resp: 11643

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 27.1 | 21.4 | 32.2 |
| 265 | 47.7 | 40.2 | 60.4 |



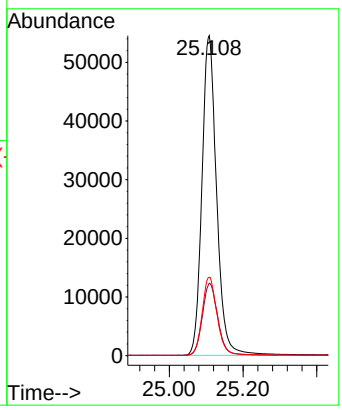


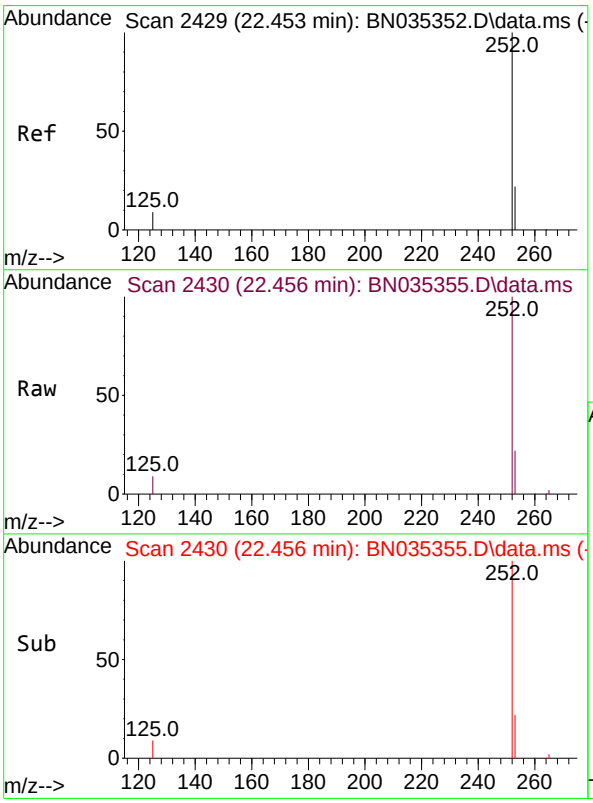

#36
Indeno(1,2,3-cd)pyrene
Concen: 3.239 ng
RT: 25.108 min Scan# 3
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC3.2

Tgt Ion:276 Resp: 150433

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 23.7 | 19.4 | 29.0 |
| 277 | 24.9 | 19.8 | 29.6 |

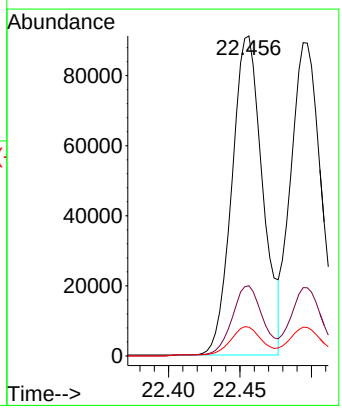


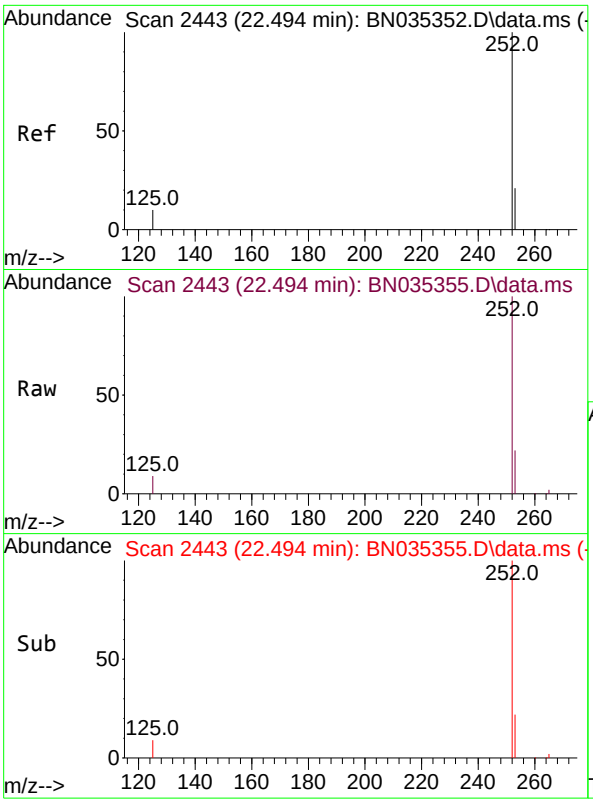




#37
Benzo(b)fluoranthene
Concen: 3.478 ng
RT: 22.456 min Scan# 2430
Delta R.T. 0.003 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion:252 Resp: 136261

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.0 | 19.6 | 29.4 |
| 125 | 9.0 | 9.6 | 14.4# |



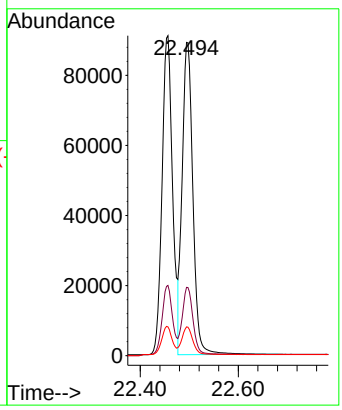


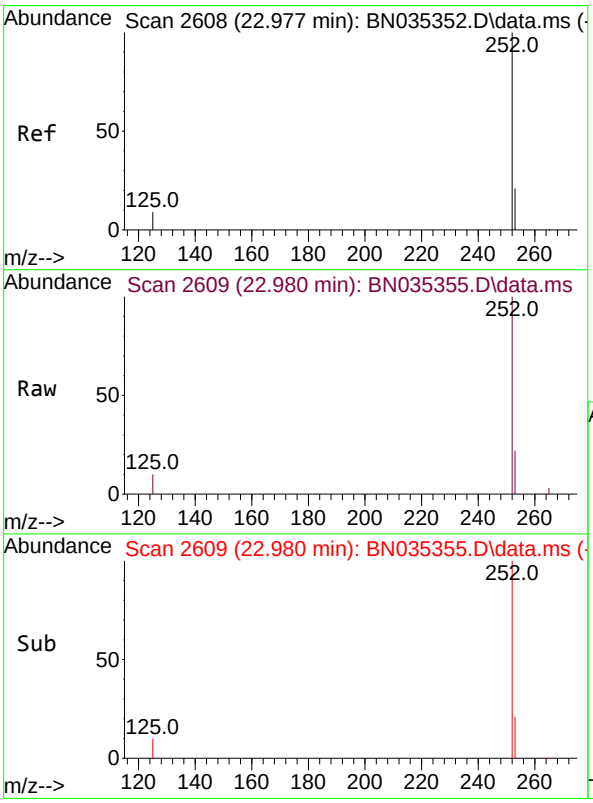

#38
Benzo(k)fluoranthene
Concen: 3.439 ng
RT: 22.494 min Scan# 24
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC3.2

Tgt Ion:252 Resp: 134789

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 21.8 | 19.5 | 29.3 |
| 125 | 9.2 | 10.2 | 15.4# |

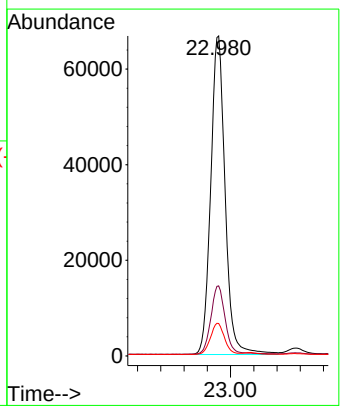


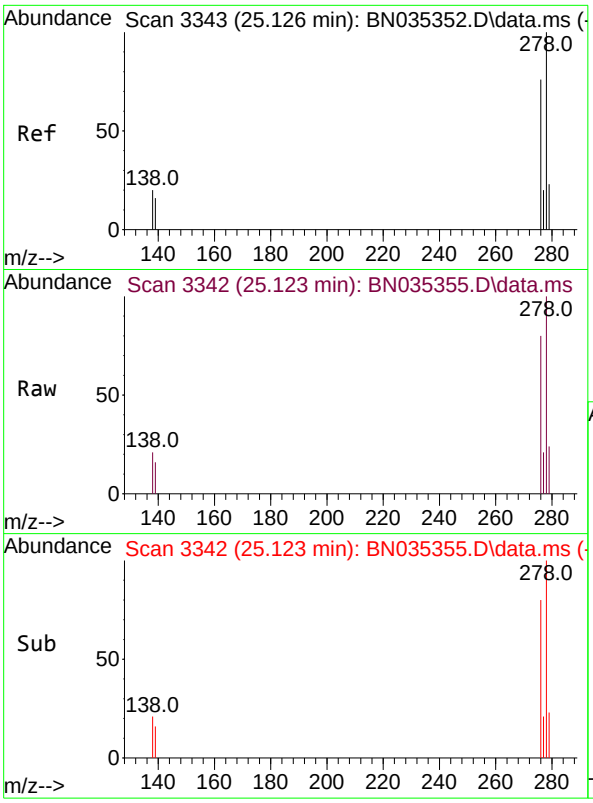




#39
Benzo(a)pyrene
Concen: 3.328 ng
RT: 22.980 min Scan# 2609
Delta R.T. 0.003 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion:252 Resp: 114719

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 21.9 | 20.2 | 30.4 |
| 125 | 10.1 | 10.9 | 16.3# |



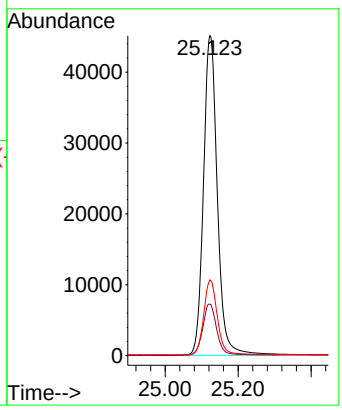


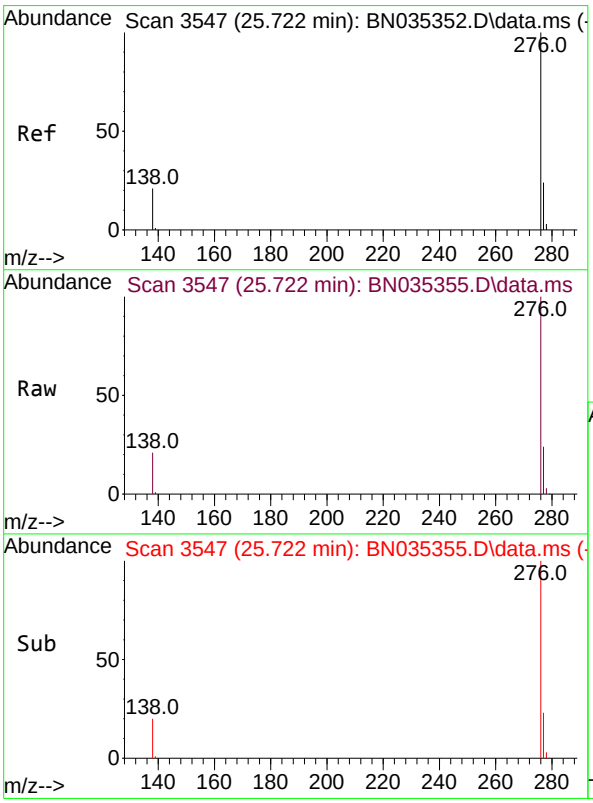

#40
Dibenzo(a,h)anthracene
Concen: 3.240 ng
RT: 25.123 min Scan# 3
Delta R.T. -0.003 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC3.2

Tgt Ion:278 Resp: 119216

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 16.1 | 14.2 | 21.4 |
| 279 | 23.7 | 20.5 | 30.7 |

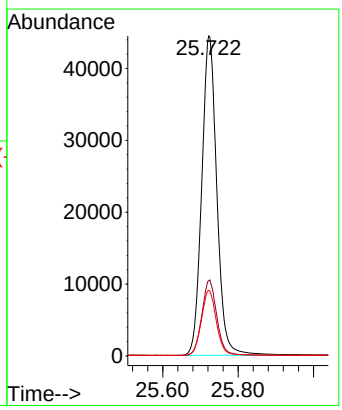



#41
Benzo(g,h,i)perylene
Concen: 3.164 ng
RT: 25.722 min Scan# 3547
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion:276 Resp: 123841

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 23.6 | 19.9 | 29.9 |
| 138 | 20.6 | 17.8 | 26.8 |



Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035356.D
Acq On : 27 Nov 2024 19:09
Operator : RC/JU
Sample : SSTDICC5.0
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC5.0

Quant Time: Nov 27 22:54:04 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration

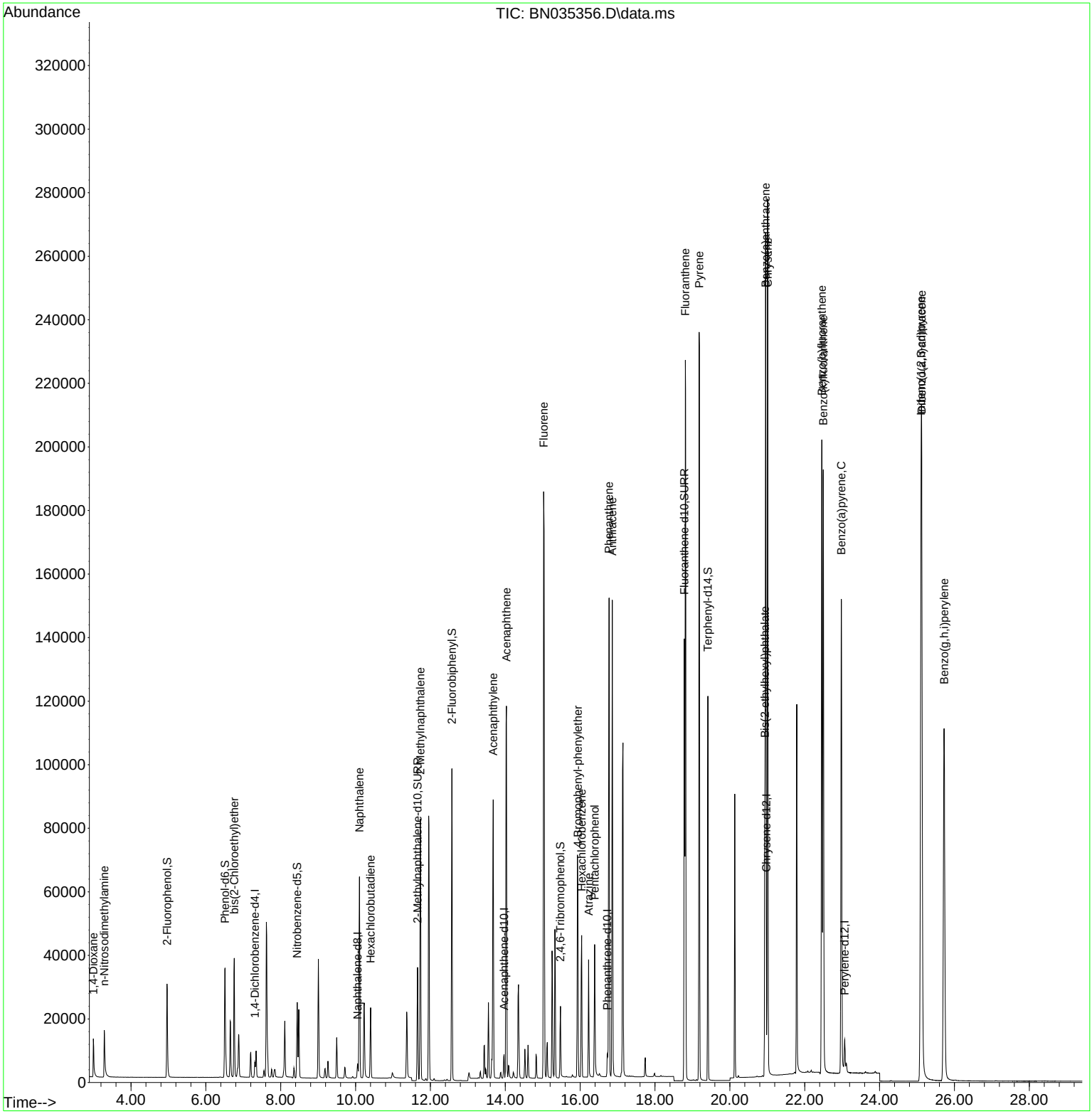
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.308 | 152 | 2249 | 0.400 | ng | | 0.00 |
| 7) Naphthalene-d8 | 10.052 | 136 | 5807 | 0.400 | ng | | 0.00 |
| 13) Acenaphthene-d10 | 13.967 | 164 | 4363 | 0.400 | ng | | 0.00 |
| 19) Phenanthrene-d10 | 16.723 | 188 | 10479 | 0.400 | ng | | #-0.01 |
| 29) Chrysene-d12 | 20.974 | 240 | 11520 | 0.400 | ng | | 0.00 |
| 35) Perylene-d12 | 23.067 | 264 | 12000 | 0.400 | ng | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 4) 2-Fluorophenol | 4.968 | 112 | 26472 | 4.637 | ng | | 0.00 |
| 5) Phenol-d6 | 6.513 | 99 | 34560 | 4.828 | ng | | 0.00 |
| 8) Nitrobenzene-d5 | 8.440 | 82 | 18911 | 3.741 | ng | | 0.00 |
| 11) 2-Methylnaphthalene-d10 | 11.656 | 152 | 47612 | 4.601 | ng | | 0.00 |
| 14) 2,4,6-Tribromophenol | 15.475 | 330 | 17905 | 5.689 | ng | | 0.00 |
| 15) 2-Fluorobiphenyl | 12.574 | 172 | 82401 | 4.650 | ng | | 0.00 |
| 27) Fluoranthene-d10 | 18.785 | 212 | 152416 | 4.748 | ng | | 0.00 |
| 31) Terphenyl-d14 | 19.412 | 244 | 110737 | 4.581 | ng | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 2.996 | 88 | 9786 | 4.790 | ng | | 99 |
| 3) n-Nitrosodimethylamine | 3.285 | 42 | 8681 | 4.560 | ng | # | 96 |
| 6) bis(2-Chloroethyl)ether | 6.759 | 93 | 27872 | 5.187 | ng | | 99 |
| 9) Naphthalene | 10.105 | 128 | 77668 | 5.123 | ng | | 97 |
| 10) Hexachlorobutadiene | 10.404 | 225 | 17273 | 3.887 | ng | # | 100 |
| 12) 2-Methylnaphthalene | 11.732 | 142 | 57698 | 5.158 | ng | | 98 |
| 16) Acenaphthylene | 13.679 | 152 | 97129 | 5.209 | ng | | 99 |
| 17) Acenaphthene | 14.031 | 154 | 62170 | 5.088 | ng | | 98 |
| 18) Fluorene | 15.026 | 166 | 88648 | 4.932 | ng | | 99 |
| 21) 4-Bromophenyl-phenylether | 15.941 | 248 | 31947 | 4.785 | ng | # | 94 |
| 22) Hexachlorobenzene | 16.040 | 284 | 36315 | 5.241 | ng | | 100 |
| 23) Atrazine | 16.227 | 200 | 25034 | 4.179 | ng | | 96 |
| 24) Pentachlorophenol | 16.388 | 266 | 19691 | 6.083 | ng | | 86 |
| 25) Phenanthrene | 16.773 | 178 | 147357 | 5.343 | ng | | 100 |
| 26) Anthracene | 16.860 | 178 | 139399 | 5.503 | ng | | 99 |
| 28) Fluoranthene | 18.812 | 202 | 199850 | 5.270 | ng | | 99 |
| 30) Pyrene | 19.179 | 202 | 206018 | 5.370 | ng | | 100 |
| 32) Benzo(a)anthracene | 20.956 | 228 | 205712 | 5.128 | ng | | 99 |
| 33) Chrysene | 21.009 | 228 | 204475 | 5.146 | ng | | 99 |
| 34) Bis(2-ethylhexyl)phtha... | 20.938 | 149 | 78322 | 3.721 | ng | | 99 |
| 36) Indeno(1,2,3-cd)pyrene | 25.108 | 276 | 252709 | 5.279 | ng | | 99 |
| 37) Benzo(b)fluoranthene | 22.456 | 252 | 241201 | 5.974 | ng | # | 94 |
| 38) Benzo(k)fluoranthene | 22.497 | 252 | 220146 | 5.449 | ng | # | 93 |
| 39) Benzo(a)pyrene | 22.977 | 252 | 190665 | 5.367 | ng | # | 92 |
| 40) Dibenzo(a,h)anthracene | 25.126 | 278 | 199852 | 5.269 | ng | | 96 |
| 41) Benzo(g,h,i)perylene | 25.725 | 276 | 209119 | 5.183 | ng | | 97 |

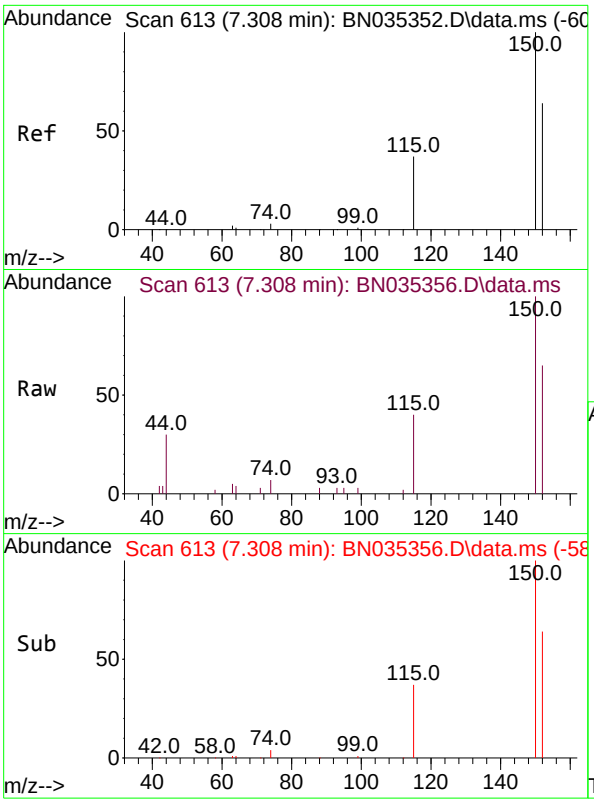
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035356.D
Acq On : 27 Nov 2024 19:09
Operator : RC/JU
Sample : SSTDICC5.0
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC5.0

Quant Time: Nov 27 22:54:04 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration



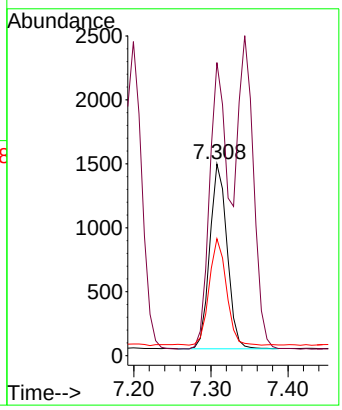


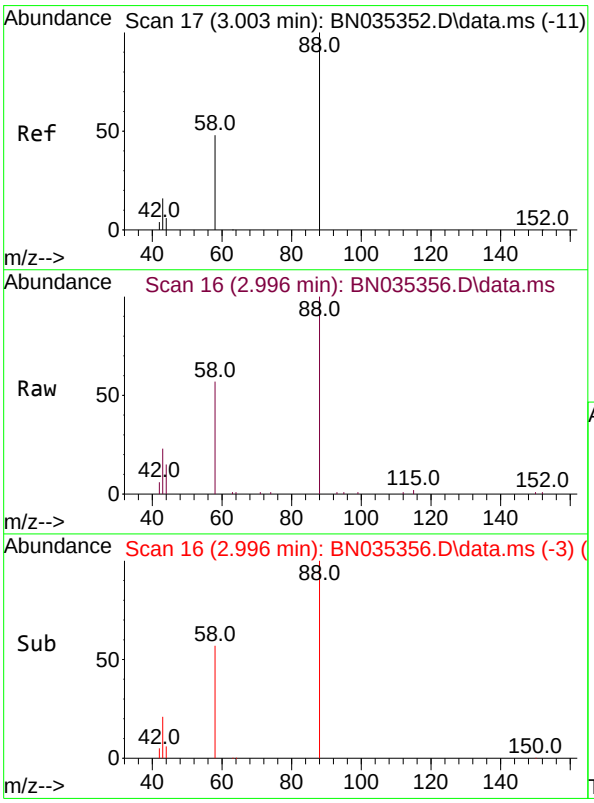

#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC5.0

Tgt Ion:152 Resp: 2249

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 152.9 | 124.0 | 186.0 |
| 115 | 61.0 | 49.6 | 74.4 |

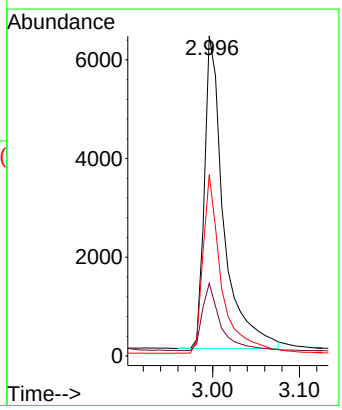


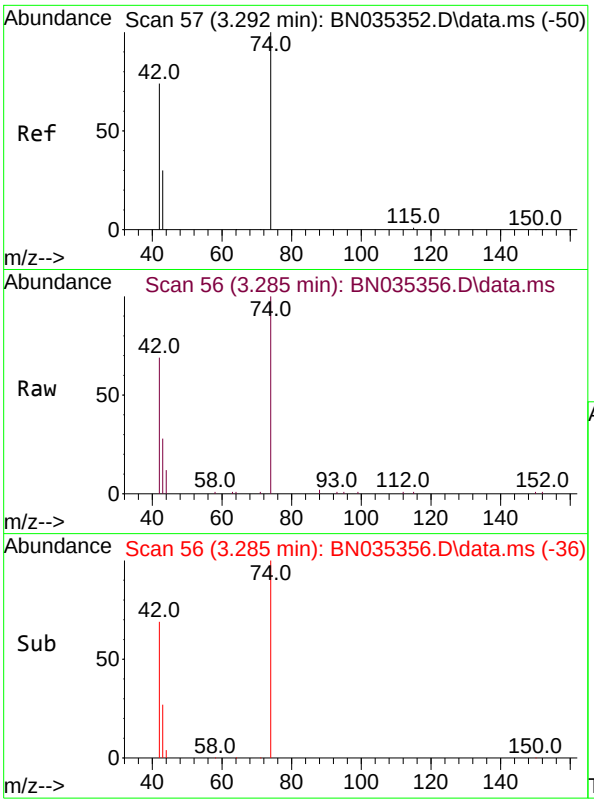




#2
1,4-Dioxane
Concen: 4.790 ng
RT: 2.996 min Scan# 16
Delta R.T. -0.007 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion: 88 Resp: 9786

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 20.5 | 17.2 | 25.8 |
| 58 | 54.8 | 44.5 | 66.7 |



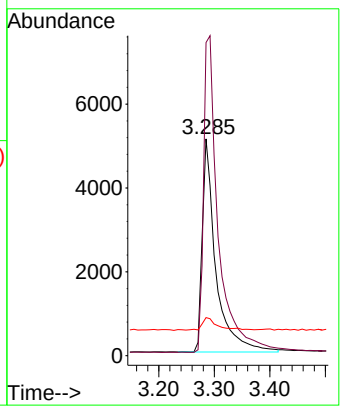


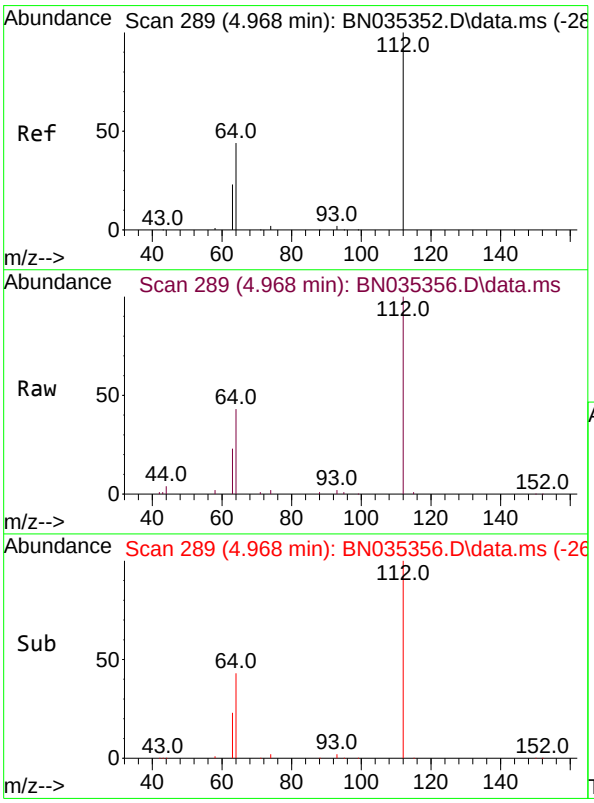

#3
n-Nitrosodimethylamine
Concen: 4.560 ng
RT: 3.285 min Scan# 5
Delta R.T. -0.007 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC5.0

Tgt Ion: 42 Resp: 8681

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 161.2 | 124.9 | 187.3 |
| 44 | 6.7 | 2.2 | 3.4# |

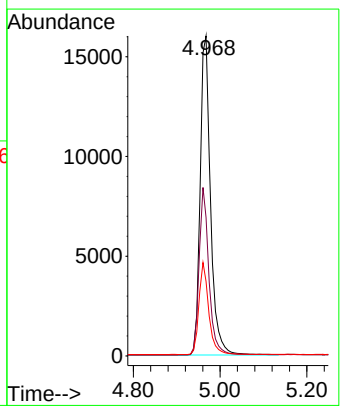


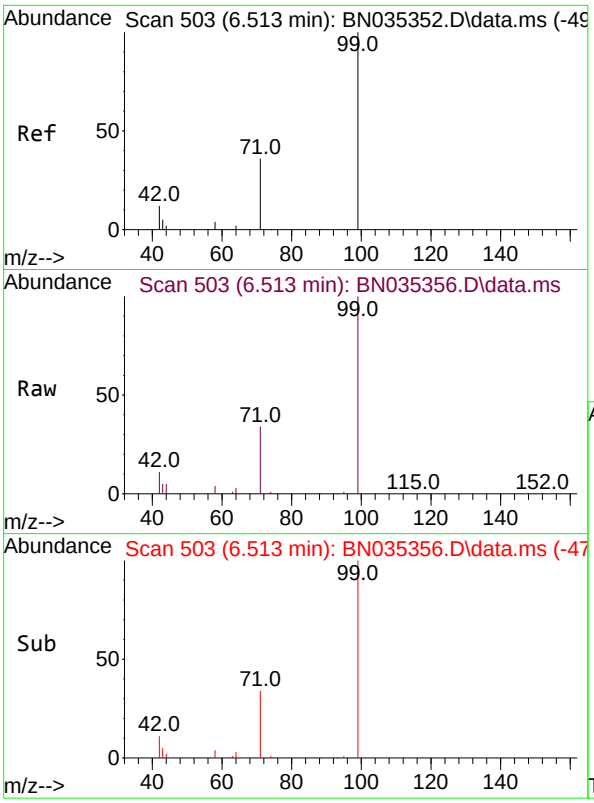




#4
2-Fluorophenol
Concen: 4.637 ng
RT: 4.968 min Scan# 289
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion:112 Resp: 26472

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 50.0 | 39.8 | 59.8 |
| 63 | 27.4 | 21.0 | 31.6 |



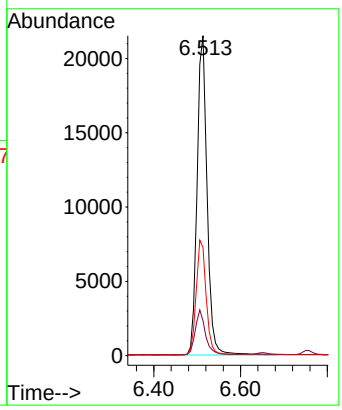


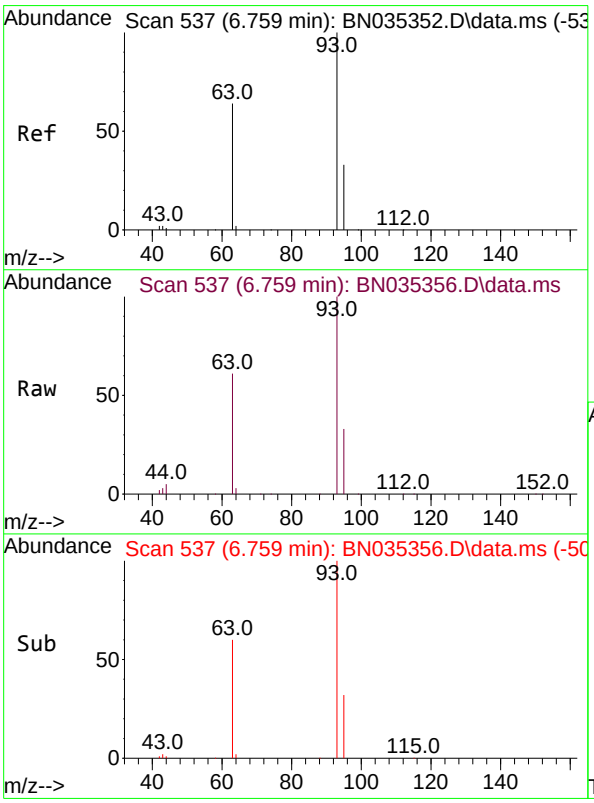

#5
Phenol-d6
Concen: 4.828 ng
RT: 6.513 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC5.0

Tgt Ion: 99 Resp: 34560

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 14.1 | 11.4 | 17.2 |
| 71 | 36.4 | 29.3 | 43.9 |

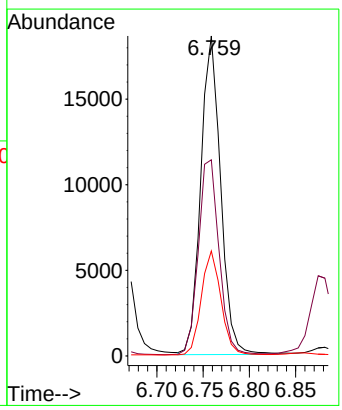


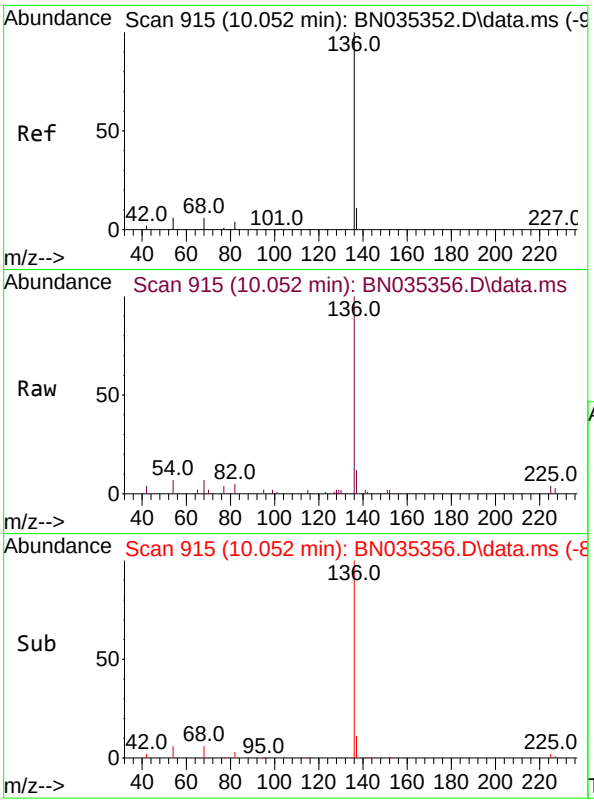




#6
bis(2-Chloroethyl)ether
Concen: 5.187 ng
RT: 6.759 min Scan# 537
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion: 93 Resp: 27872

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 63.7 | 50.4 | 75.6 |
| 95 | 32.1 | 25.7 | 38.5 |



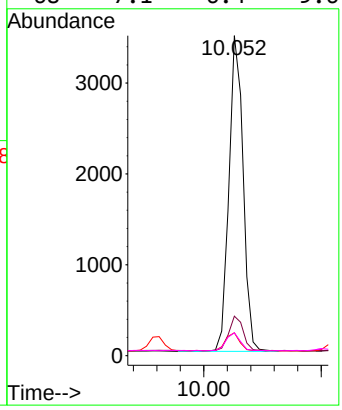


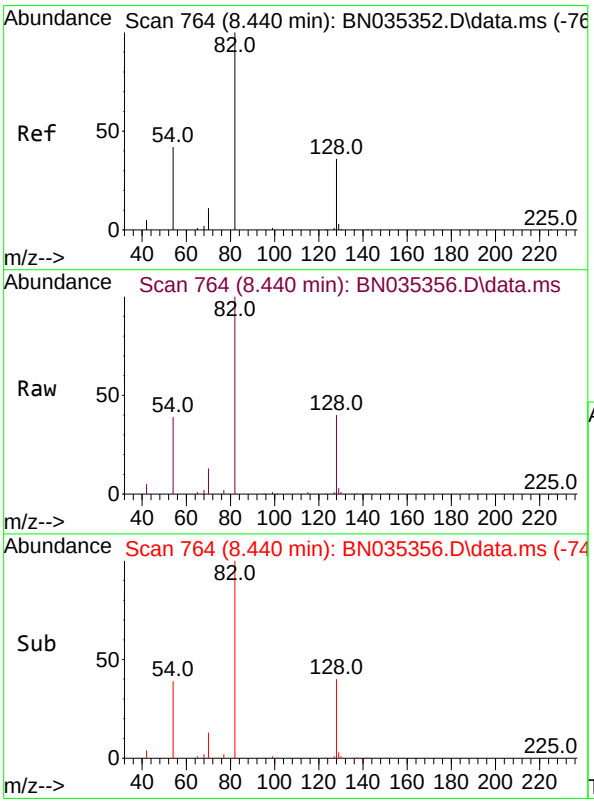

#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC5.0

Tgt Ion:136 Resp: 5807

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 12.4 | 10.2 | 15.2 |
| 54 | 7.1 | 6.1 | 9.1 |
| 68 | 7.1 | 6.4 | 9.6 |

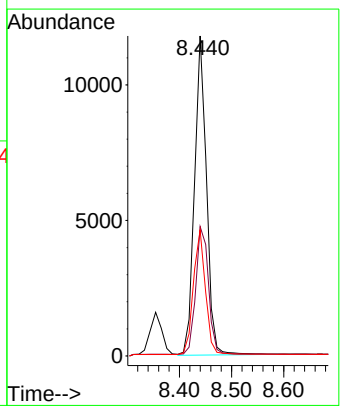


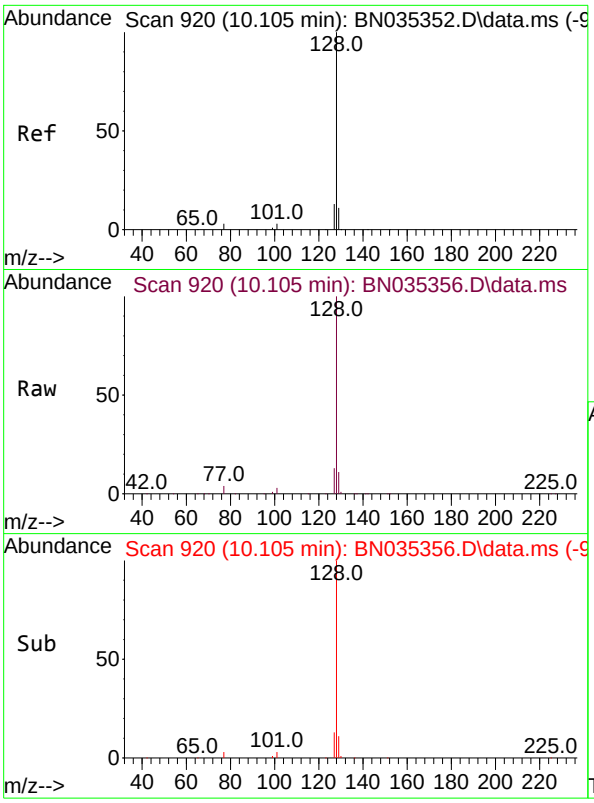




#8
Nitrobenzene-d5
Concen: 3.741 ng
RT: 8.440 min Scan# 764
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion: 82 Resp: 18911

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 40.4 | 33.4 | 50.0 |
| 54 | 39.4 | 36.7 | 55.1 |



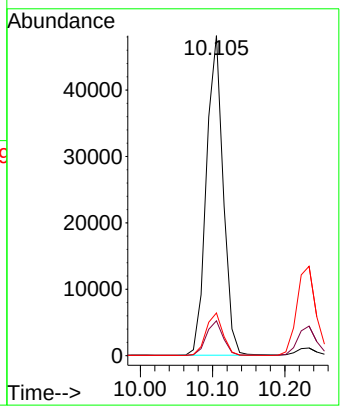


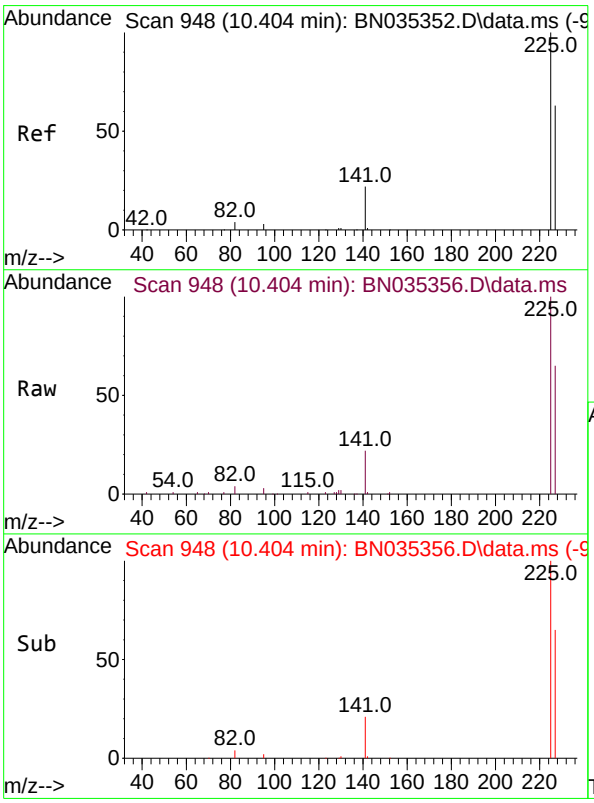

#9
Naphthalene
Concen: 5.123 ng
RT: 10.105 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC5.0

Tgt Ion:128 Resp: 77668

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 10.9 | 9.8 | 14.6 |
| 127 | 13.4 | 11.4 | 17.2 |

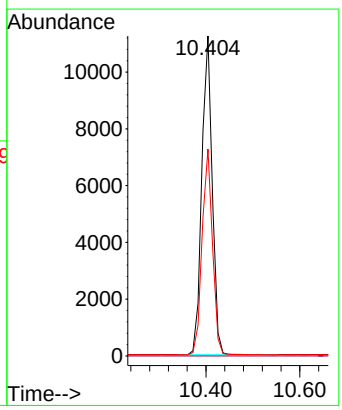


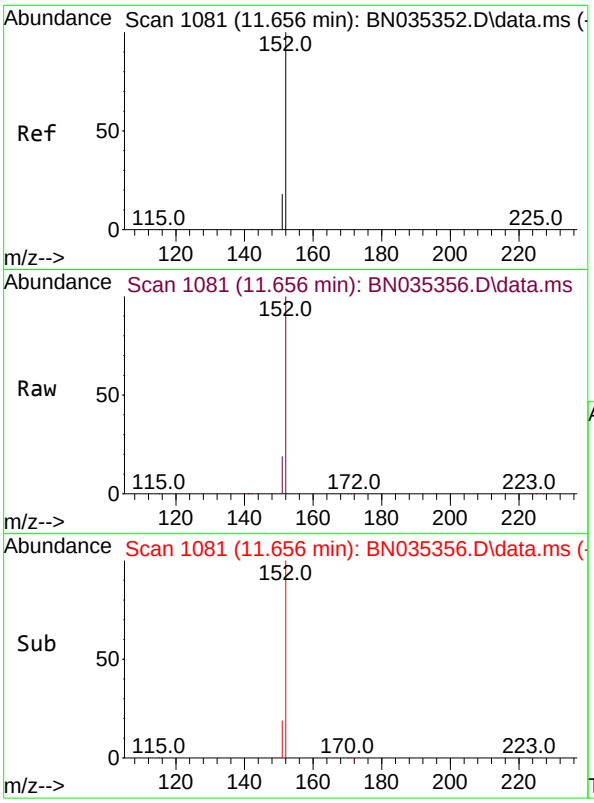




#10
Hexachlorobutadiene
Concen: 3.887 ng
RT: 10.404 min Scan# 948
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion:225 Resp: 17273

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 0.0 | 0.0 | 0.0 |
| 227 | 64.2 | 51.3 | 76.9 |



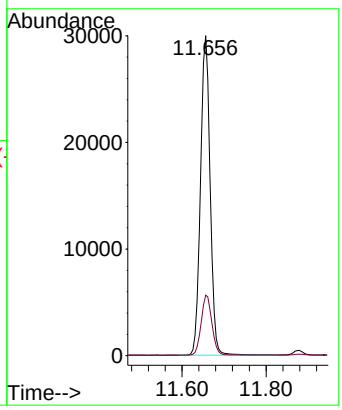


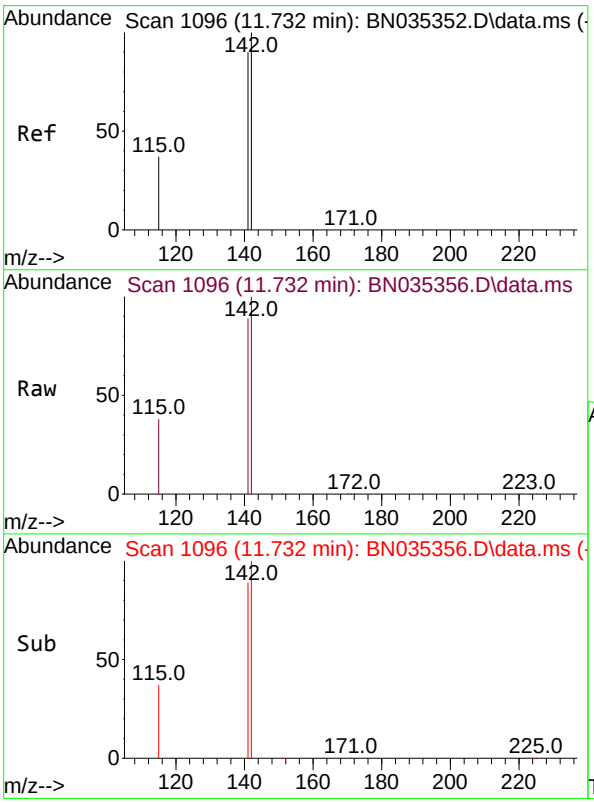

#11
2-Methylnaphthalene-d10
Concen: 4.601 ng
RT: 11.656 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC5.0

Tgt Ion:152 Resp: 47612

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.8 | 16.6 | 25.0 |

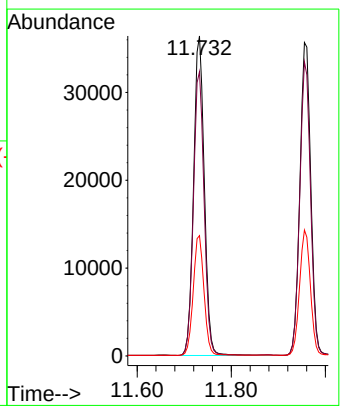


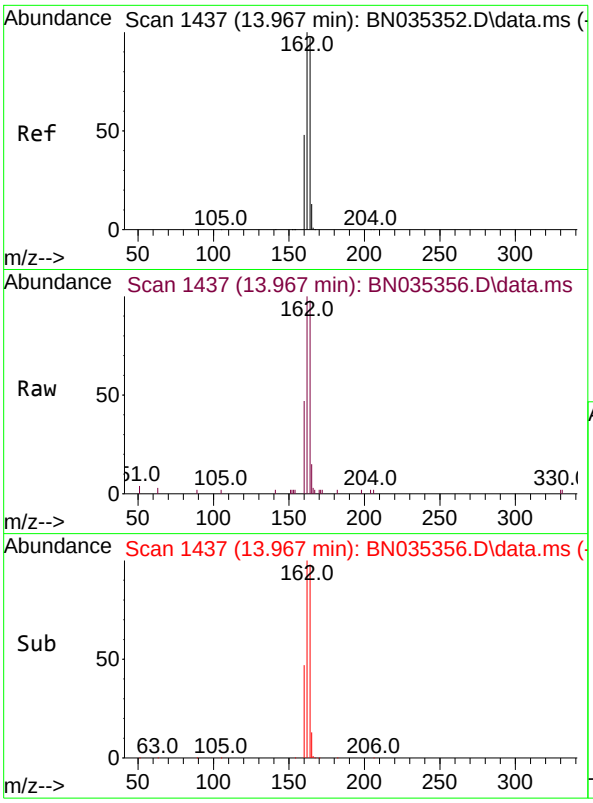




#12
2-Methylnaphthalene
Concen: 5.158 ng
RT: 11.732 min Scan# 1096
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion:142 Resp: 57698

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 88.8 | 72.2 | 108.4 |
| 115 | 37.6 | 31.4 | 47.0 |



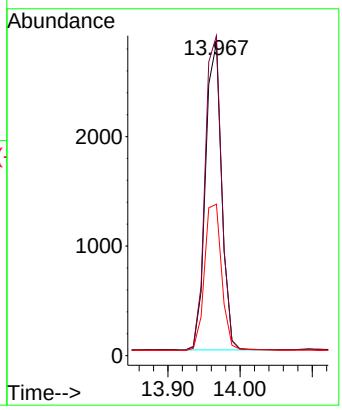


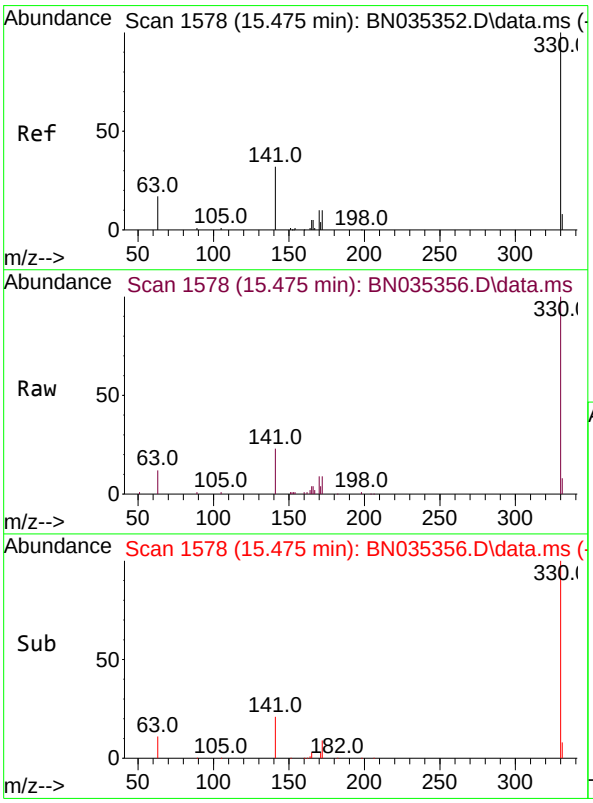

#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC5.0

Tgt Ion:164 Resp: 4363

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 102.2 | 82.2 | 123.2 |
| 160 | 48.4 | 40.1 | 60.1 |

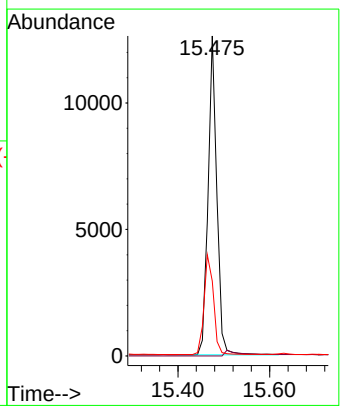


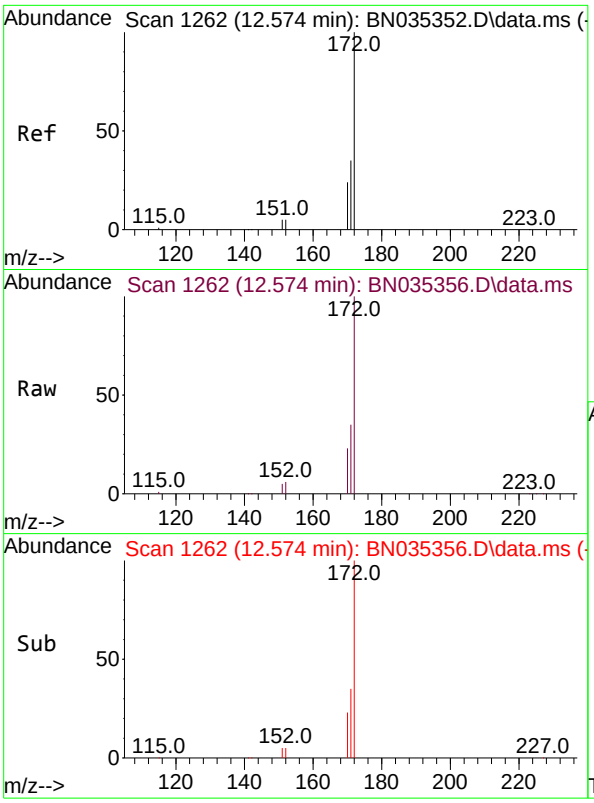




#14
2,4,6-Tribromophenol
Concen: 5.689 ng
RT: 15.475 min Scan# 1578
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion:330 Resp: 17905

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 0.0 | 0.0 | 0.0 |
| 141 | 33.4 | 26.6 | 40.0 |



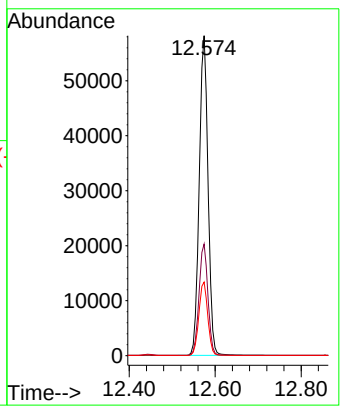


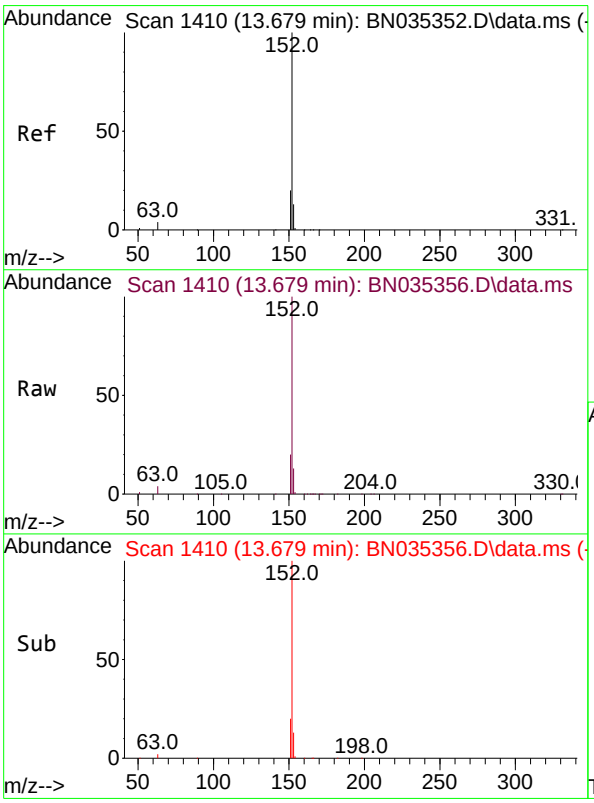

#15
2-Fluorobiphenyl
Concen: 4.650 ng
RT: 12.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC5.0

Tgt Ion:172 Resp: 82401

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 34.9 | 29.0 | 43.4 |
| 170 | 23.0 | 19.8 | 29.8 |

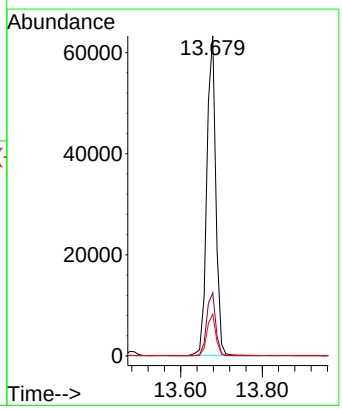


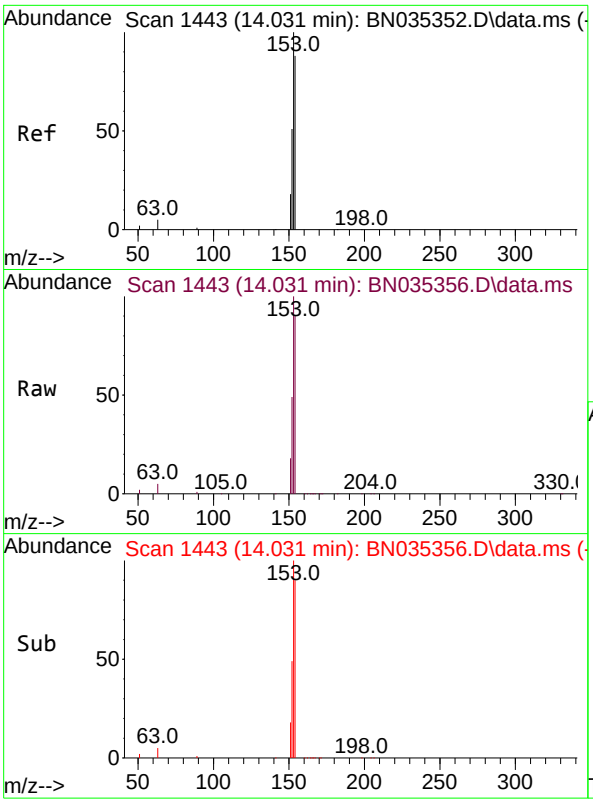




#16
Acenaphthylene
Concen: 5.209 ng
RT: 13.679 min Scan# 1410
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion:152 Resp: 97129

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 19.7 | 16.2 | 24.2 |
| 153 | 12.9 | 10.4 | 15.6 |



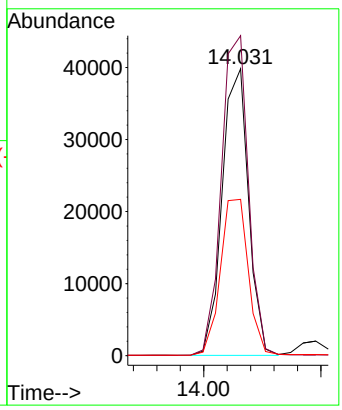


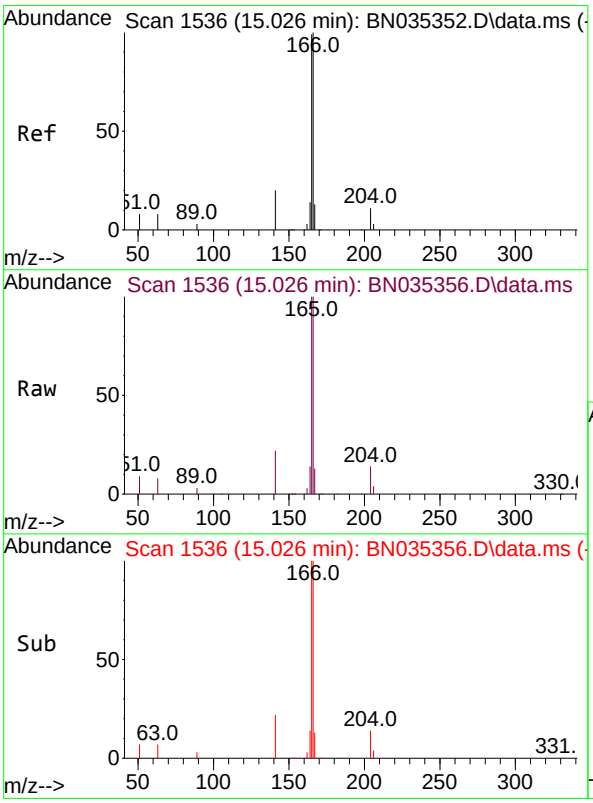

#17
Acenaphthene
Concen: 5.088 ng
RT: 14.031 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC5.0

Tgt Ion:154 Resp: 62170

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 114.7 | 92.6 | 139.0 |
| 152 | 58.1 | 49.0 | 73.6 |

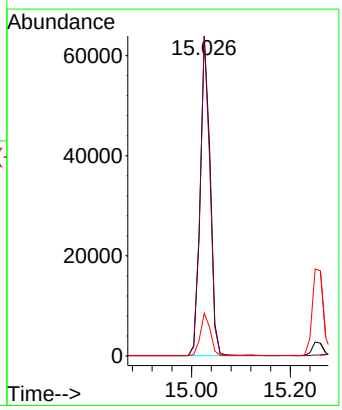


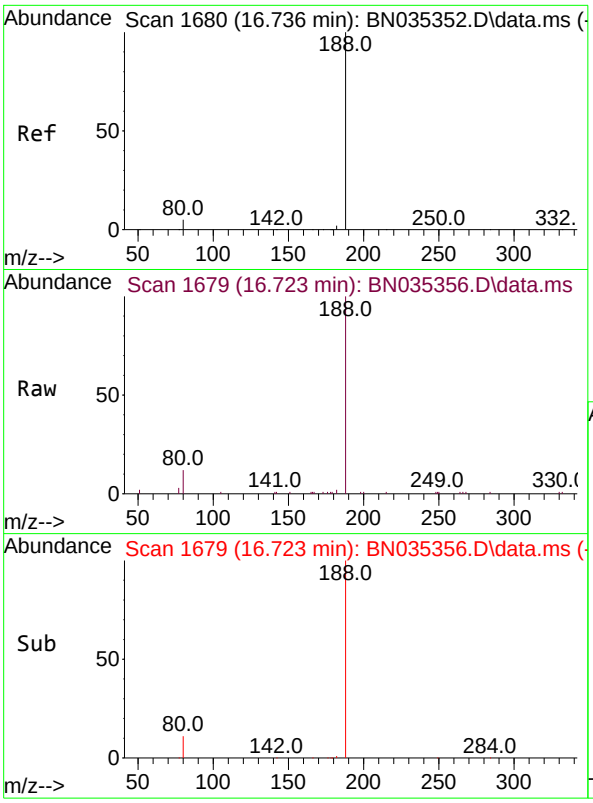




#18
Fluorene
Concen: 4.932 ng
RT: 15.026 min Scan# 1536
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion:166 Resp: 88648

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 98.5 | 79.7 | 119.5 |
| 167 | 13.4 | 10.8 | 16.2 |



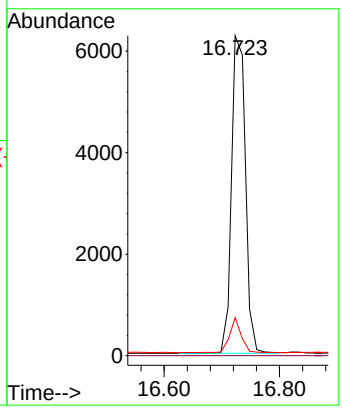


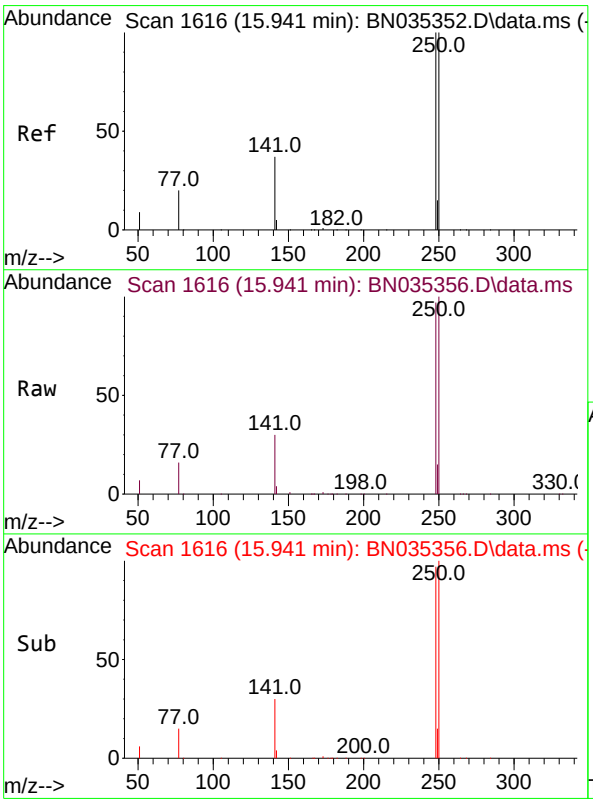

#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.723 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC5.0

Tgt Ion:188 Resp: 10479

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 11.9 | 4.6 | 6.8# |

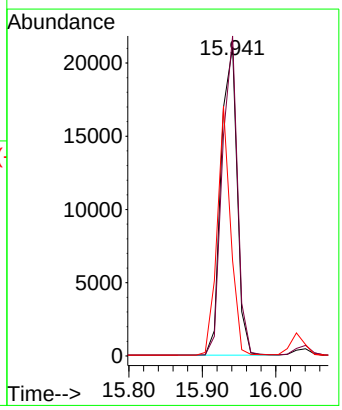


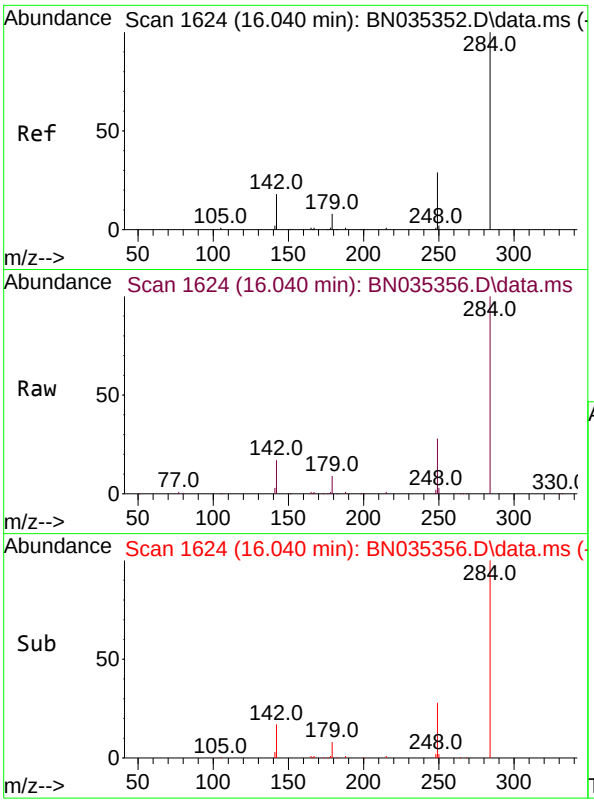




#21
4-Bromophenyl-phenylether
Concen: 4.785 ng
RT: 15.941 min Scan# 1616
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion:248 Resp: 31947

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 103.5 | 80.6 | 120.8 |
| 141 | 30.8 | 31.5 | 47.3# |



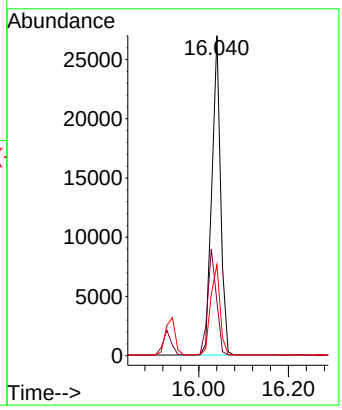


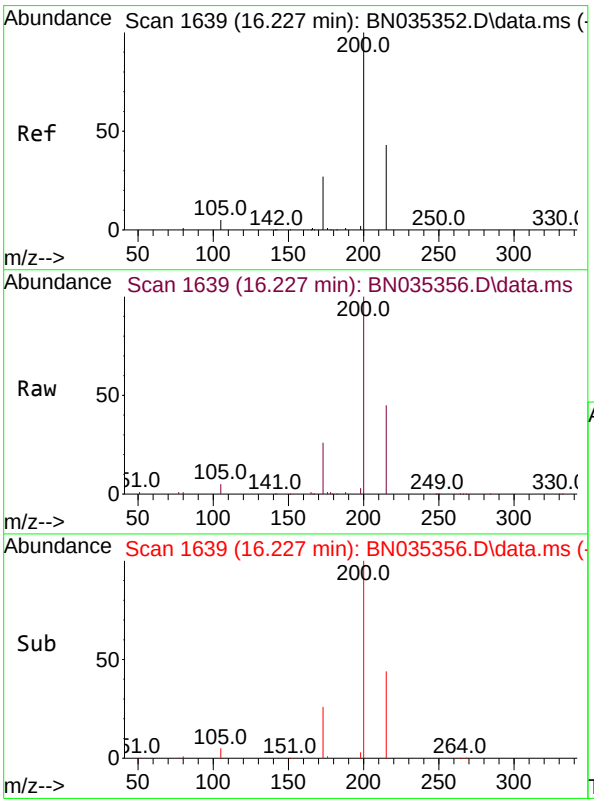

#22
Hexachlorobenzene
Concen: 5.241 ng
RT: 16.040 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC5.0

Tgt Ion:284 Resp: 36315

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 33.4 | 26.7 | 40.1 |
| 249 | 30.4 | 24.6 | 36.8 |

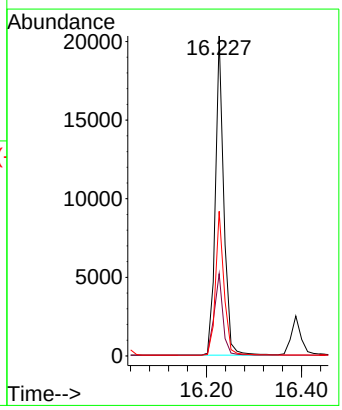


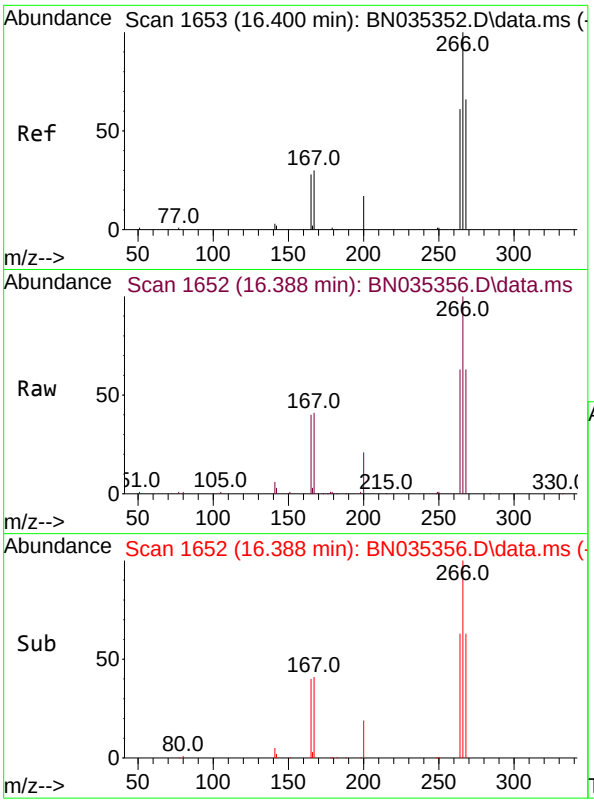




#23
Atrazine
Concen: 4.179 ng
RT: 16.227 min Scan# 1639
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion:200 Resp: 25034

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 173 | 25.7 | 24.1 | 36.1 |
| 215 | 45.2 | 36.9 | 55.3 |



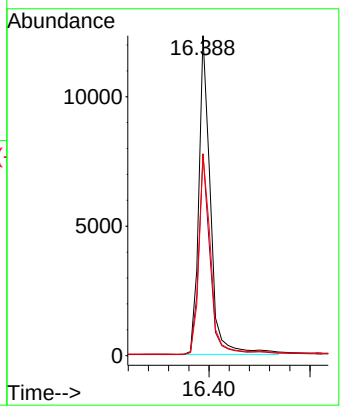


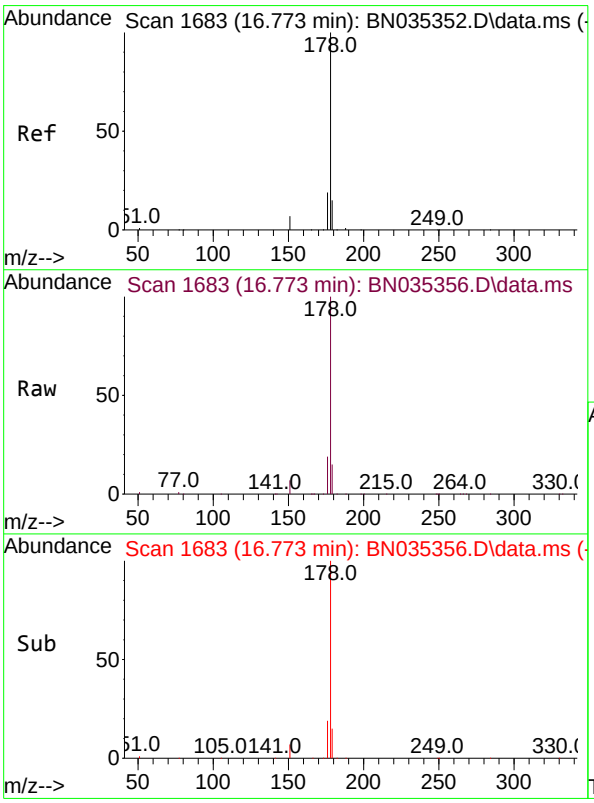

#24
Pentachlorophenol
Concen: 6.083 ng
RT: 16.388 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC5.0

Tgt Ion:266 Resp: 19691

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 264 | 62.6 | 42.3 | 63.5 |
| 268 | 64.1 | 43.3 | 64.9 |

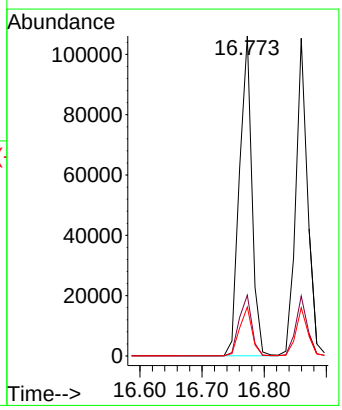


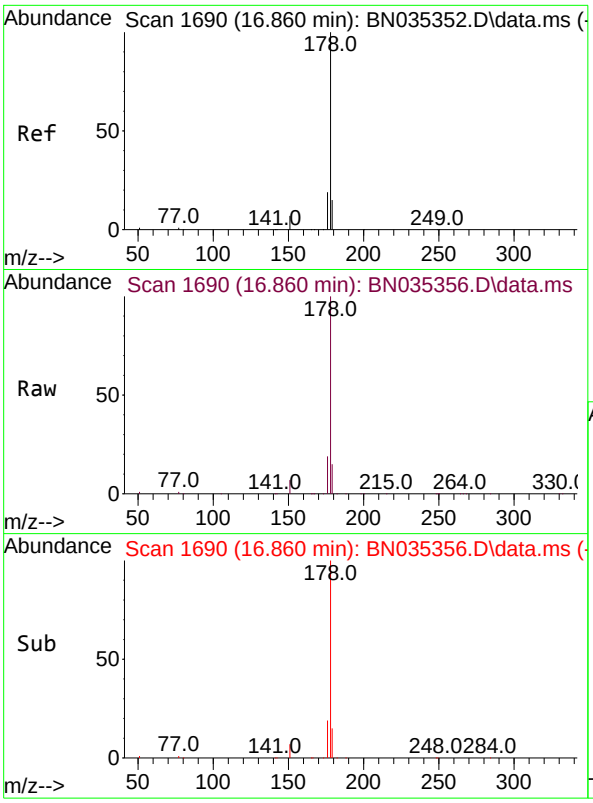




#25
Phenanthrene
Concen: 5.343 ng
RT: 16.773 min Scan# 1683
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion:178 Resp: 147357

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.4 | 15.4 | 23.2 |
| 179 | 15.2 | 12.3 | 18.5 |



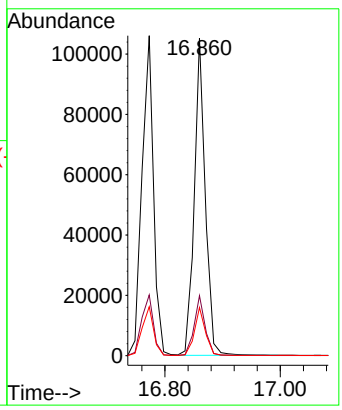


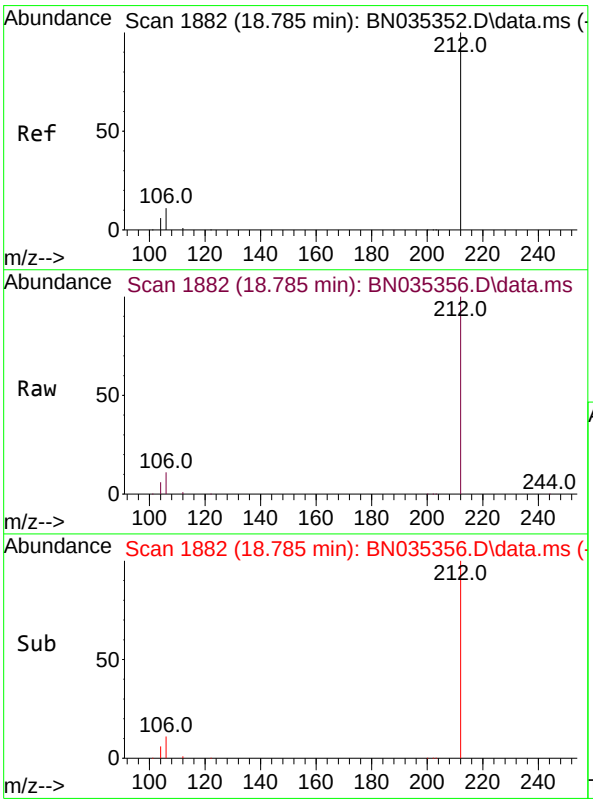

#26
Anthracene
Concen: 5.503 ng
RT: 16.860 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC5.0

Tgt Ion:178 Resp: 139399

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.7 | 15.0 | 22.6 |
| 179 | 15.1 | 12.6 | 18.8 |

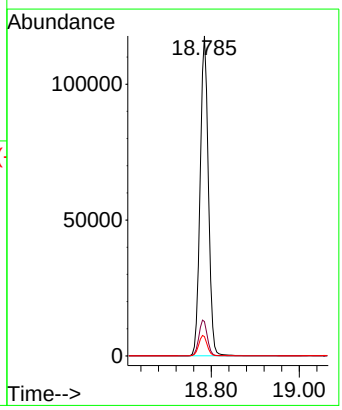


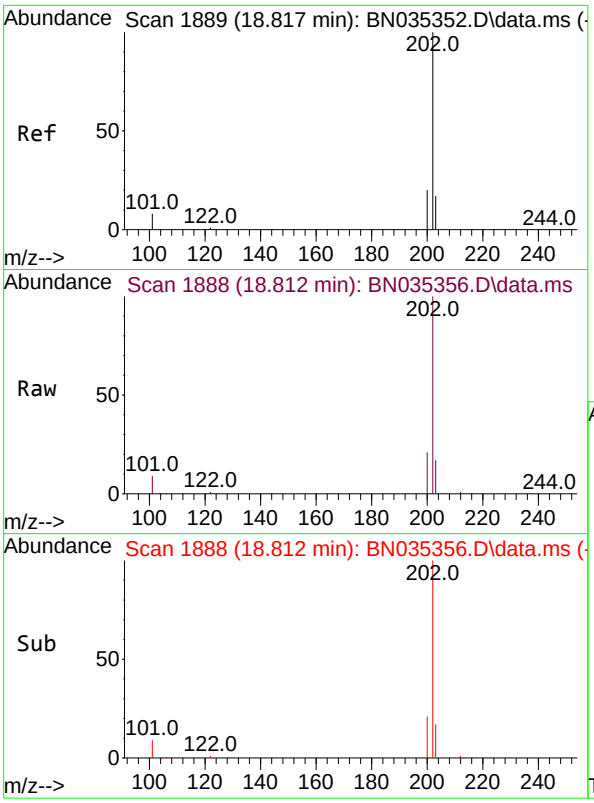




#27
Fluoranthene-d10
Concen: 4.748 ng
RT: 18.785 min Scan# 1882
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion:212 Resp: 152416

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 11.5 | 9.2 | 13.8 |
| 104 | 6.5 | 5.3 | 7.9 |



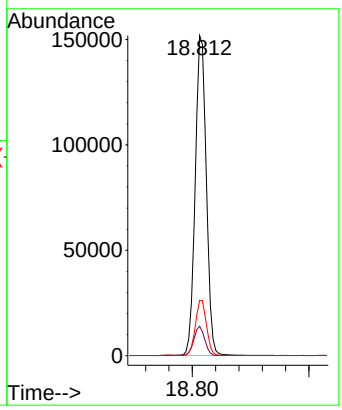


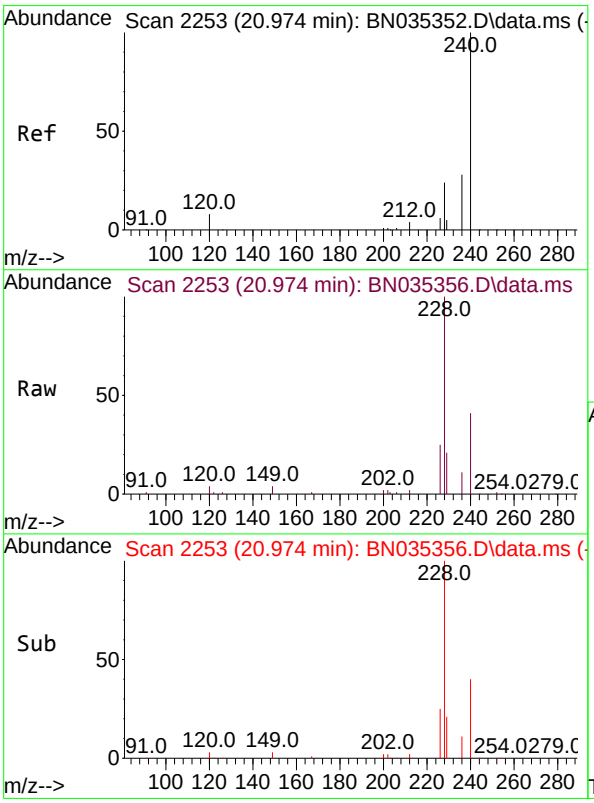

#28
Fluoranthene
Concen: 5.270 ng
RT: 18.812 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC5.0

Tgt Ion:202 Resp: 199850

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 9.1 | 7.4 | 11.0 |
| 203 | 17.4 | 13.7 | 20.5 |

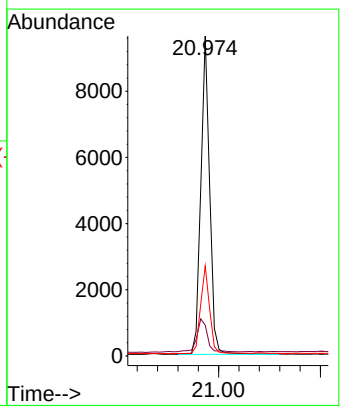


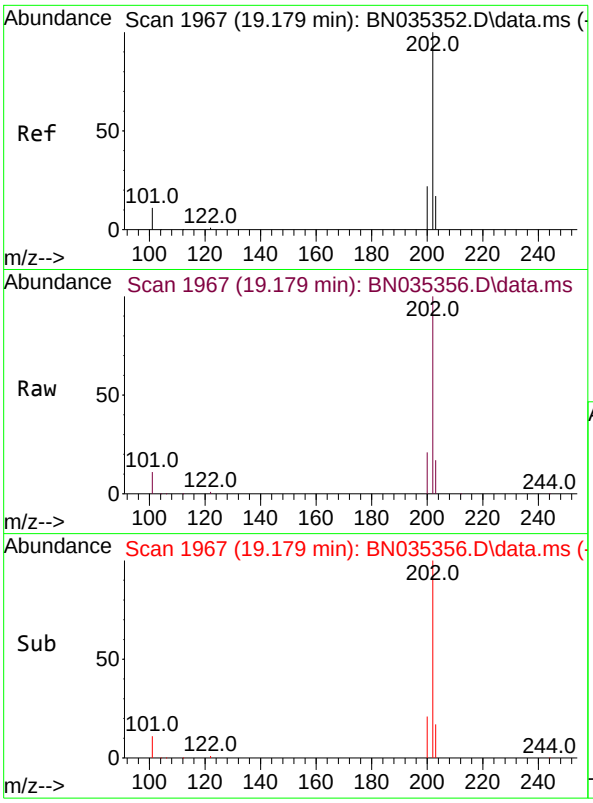




#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.974 min Scan# 2253
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion:240 Resp: 11520

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 9.6 | 7.9 | 11.9 |
| 236 | 28.1 | 22.9 | 34.3 |



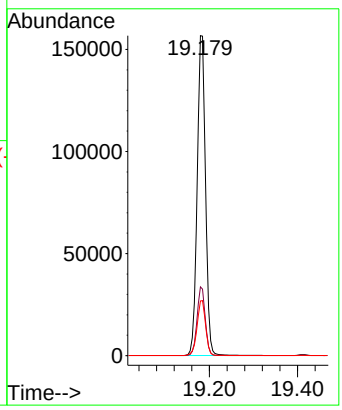


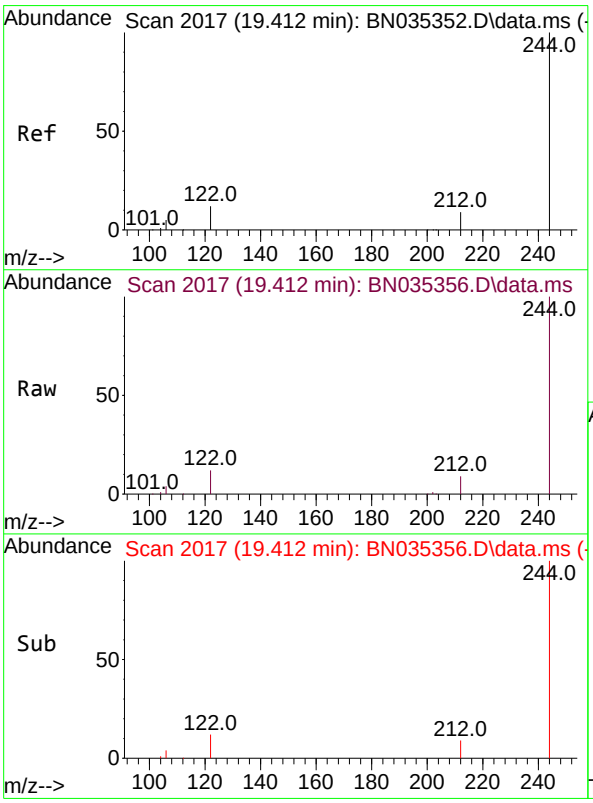

#30
Pyrene
Concen: 5.370 ng
RT: 19.179 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC5.0

Tgt Ion:202 Resp: 206018

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.2 | 17.0 | 25.4 |
| 203 | 17.7 | 14.3 | 21.5 |

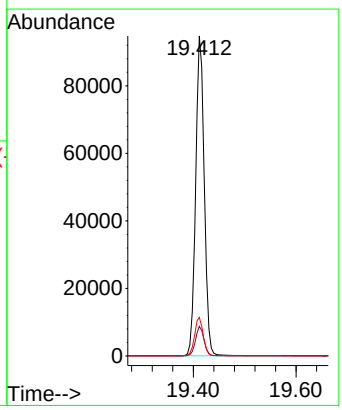


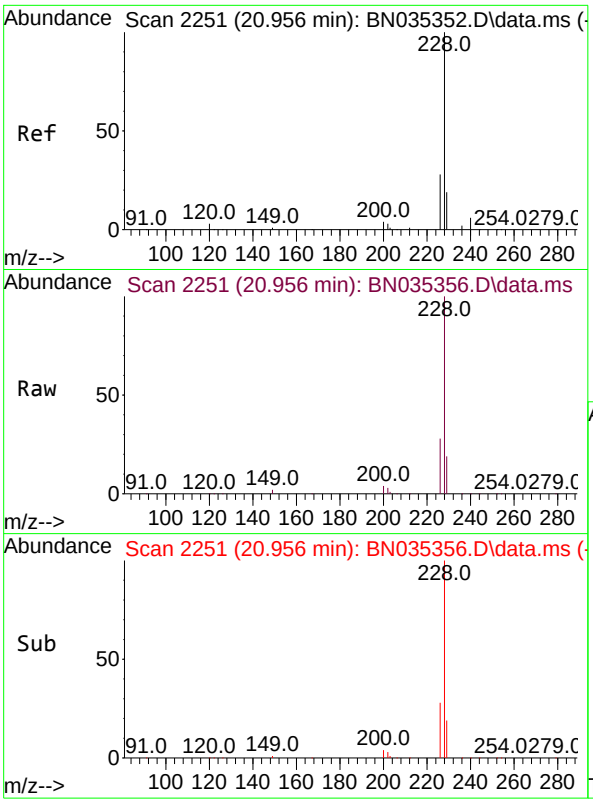




#31
Terphenyl-d14
Concen: 4.581 ng
RT: 19.412 min Scan# 2017
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion:244 Resp: 110737

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 9.2 | 8.1 | 12.1 |
| 122 | 12.1 | 10.3 | 15.5 |



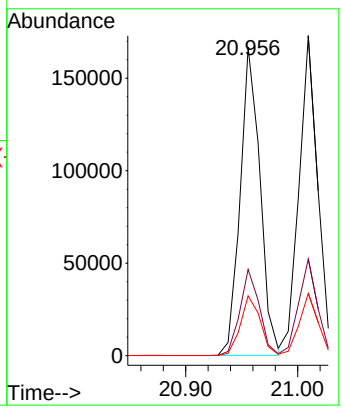


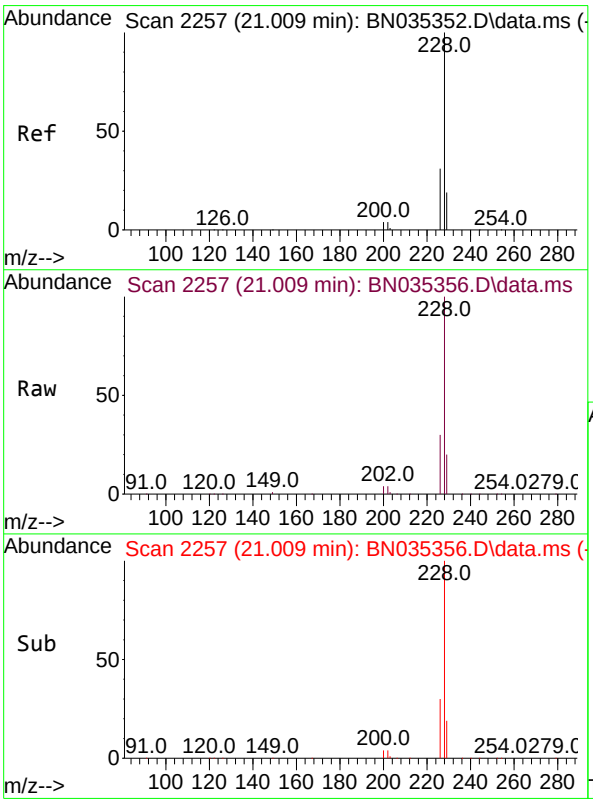

#32
Benzo(a)anthracene
Concen: 5.128 ng
RT: 20.956 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC5.0

Tgt Ion:228 Resp: 205712

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 27.9 | 22.5 | 33.7 |
| 229 | 19.4 | 15.8 | 23.8 |

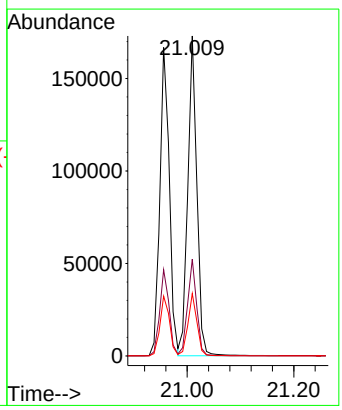


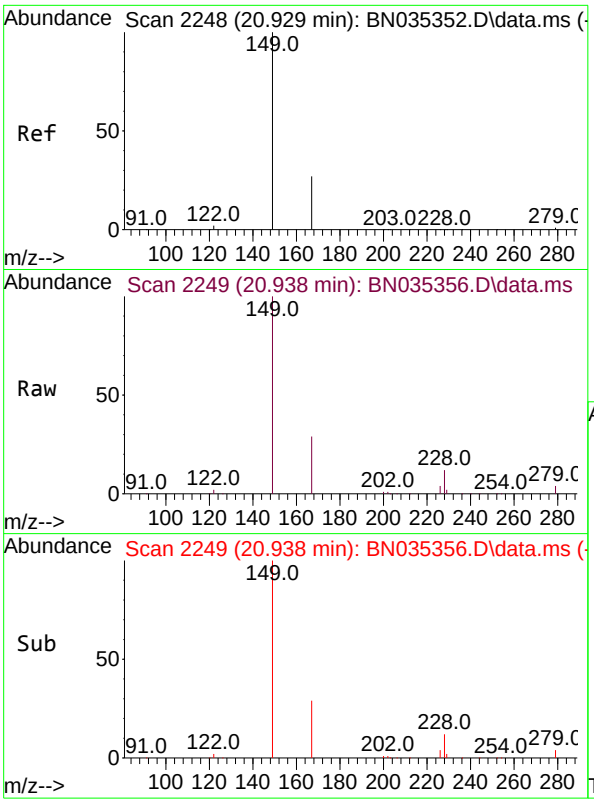




#33
Chrysene
Concen: 5.146 ng
RT: 21.009 min Scan# 2257
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion:228 Resp: 204475

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 30.2 | 24.6 | 37.0 |
| 229 | 19.5 | 15.9 | 23.9 |



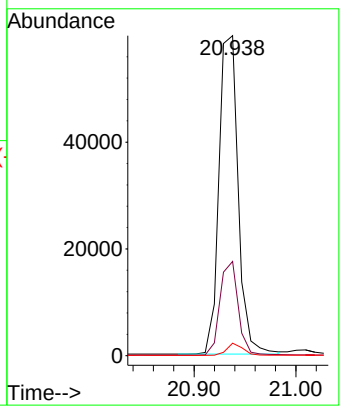


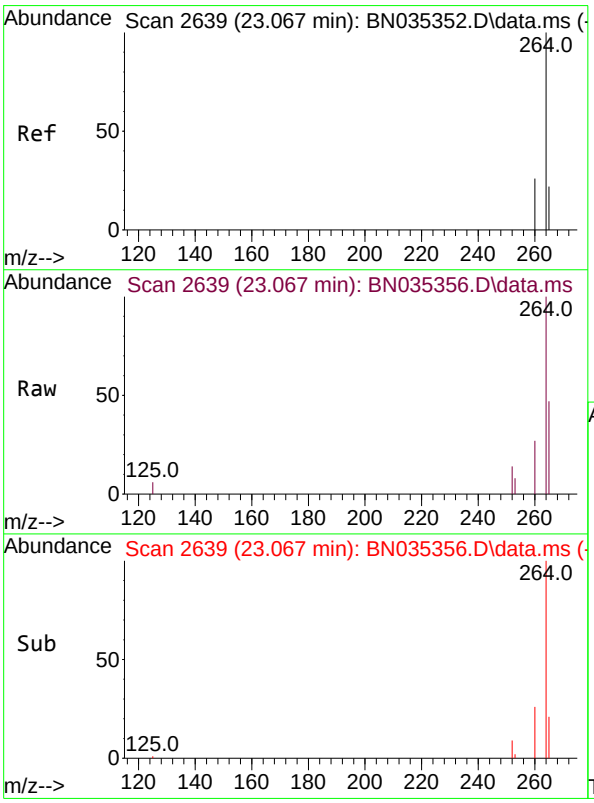

#34
Bis(2-ethylhexyl)phthalate
Concen: 3.721 ng
RT: 20.938 min Scan# 2
Delta R.T. 0.009 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC5.0

Tgt Ion:149 Resp: 78322

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 28.1 | 22.2 | 33.4 |
| 279 | 3.2 | 2.7 | 4.1 |

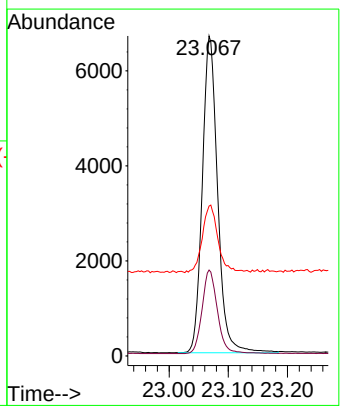


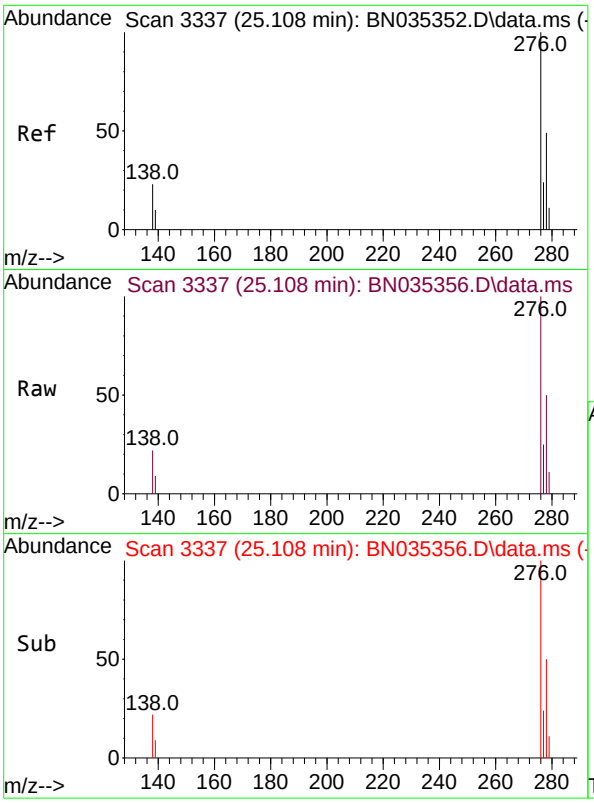




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.067 min Scan# 2639
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion:264 Resp: 12000

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 26.9 | 21.4 | 32.2 |
| 265 | 46.8 | 40.2 | 60.4 |



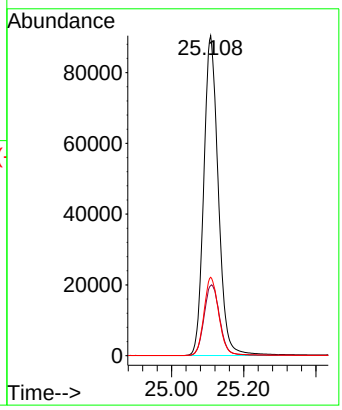


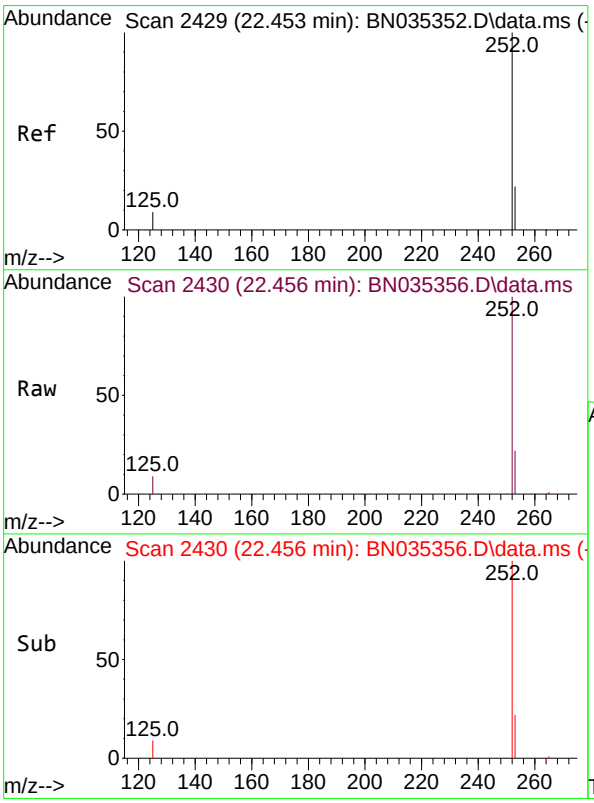

#36
Indeno(1,2,3-cd)pyrene
Concen: 5.279 ng
RT: 25.108 min Scan# 3
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC5.0

Tgt Ion:276 Resp: 252709

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 23.7 | 19.4 | 29.0 |
| 277 | 25.0 | 19.8 | 29.6 |

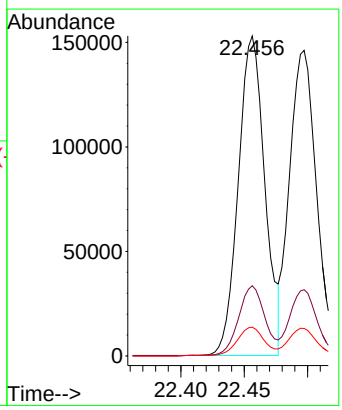


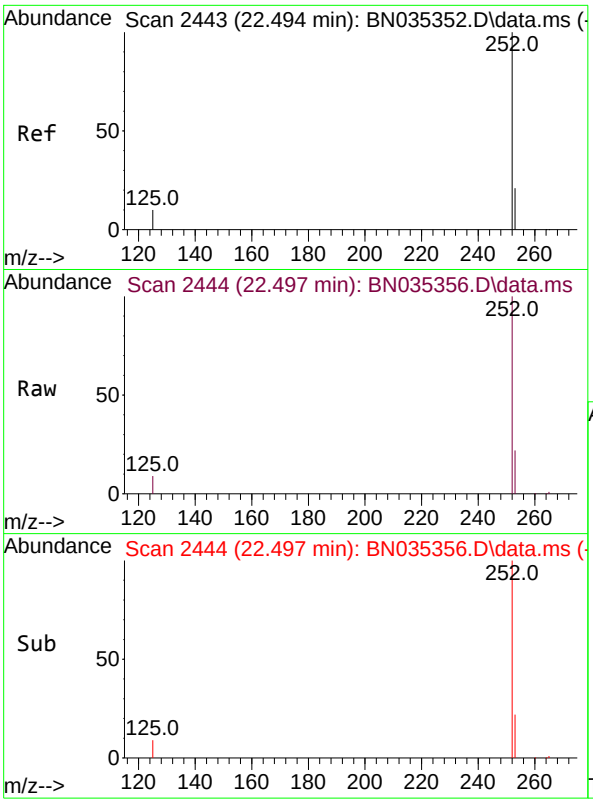




#37
Benzo(b)fluoranthene
Concen: 5.974 ng
RT: 22.456 min Scan# 2430
Delta R.T. 0.003 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion:252 Resp: 241201

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.0 | 19.6 | 29.4 |
| 125 | 9.0 | 9.6 | 14.4# |



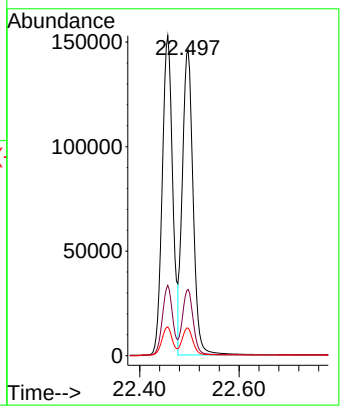


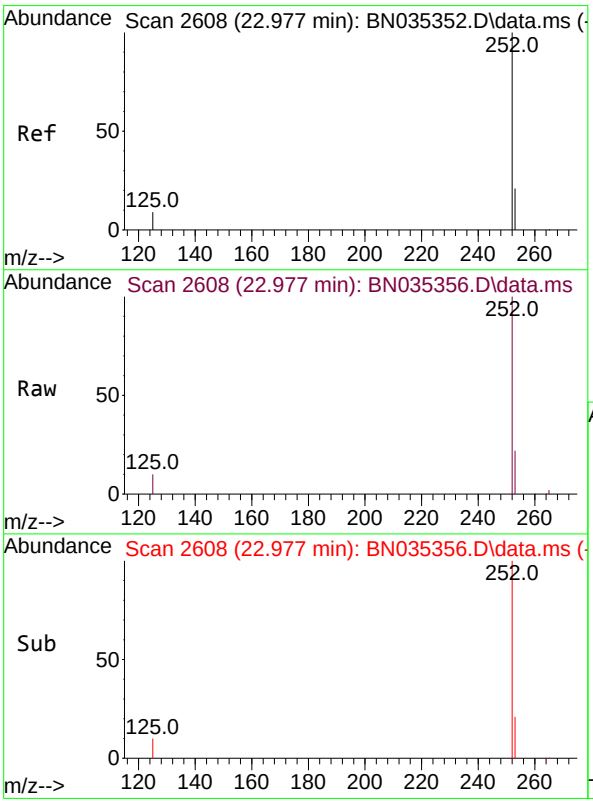

#38
Benzo(k)fluoranthene
Concen: 5.449 ng
RT: 22.497 min Scan# 24
Delta R.T. 0.003 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC5.0

Tgt Ion:252 Resp: 220146

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 21.7 | 19.5 | 29.3 |
| 125 | 9.0 | 10.2 | 15.4# |

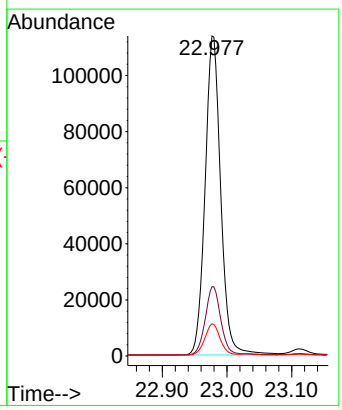


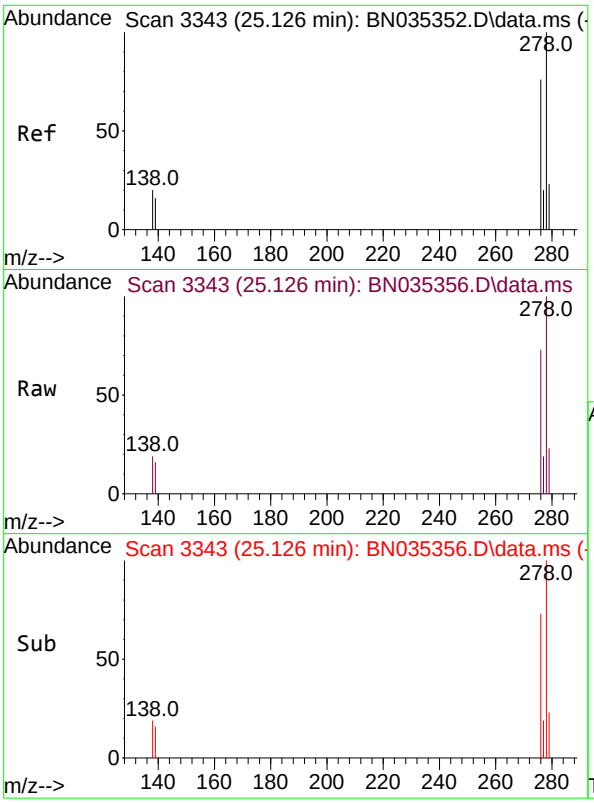




#39
Benzo(a)pyrene
Concen: 5.367 ng
RT: 22.977 min Scan# 2608
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion:252 Resp: 190665

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 21.6 | 20.2 | 30.4 |
| 125 | 10.0 | 10.9 | 16.3# |



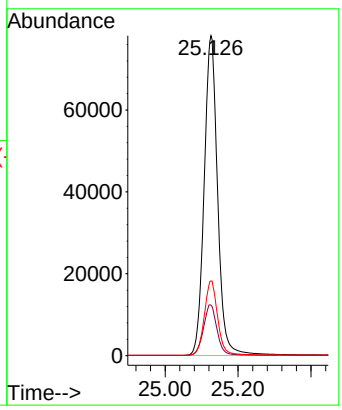


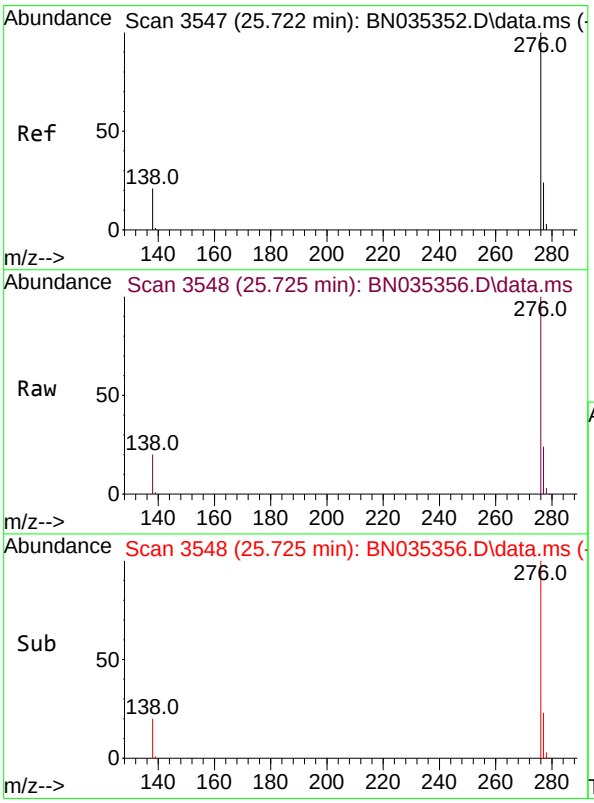

#40
Dibenzo(a,h)anthracene
Concen: 5.269 ng
RT: 25.126 min Scan# 3
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC5.0

Tgt Ion:278 Resp: 199852

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 15.8 | 14.2 | 21.4 |
| 279 | 23.3 | 20.5 | 30.7 |

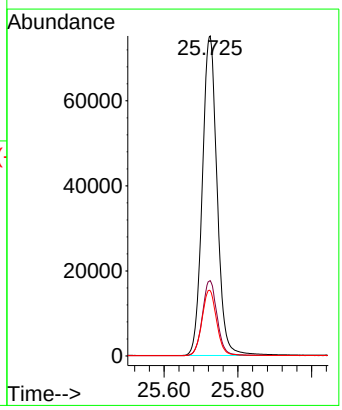



#41
Benzo(g,h,i)perylene
Concen: 5.183 ng
RT: 25.725 min Scan# 3548
Delta R.T. 0.003 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion:276 Resp: 209119

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 23.5 | 19.9 | 29.9 |
| 138 | 20.4 | 17.8 | 26.8 |



Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035357.D
Acq On : 27 Nov 2024 20:21
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
ICVBN112724

**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

Quant Time: Nov 27 23:06:03 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.308 | 152 | 1540 | 0.400 | ng | | 0.00 |
| 7) Naphthalene-d8 | 10.052 | 136 | 3904 | 0.400 | ng | | 0.00 |
| 13) Acenaphthene-d10 | 13.967 | 164 | 2879 | 0.400 | ng | | 0.00 |
| 19) Phenanthrene-d10 | 16.723 | 188 | 7350 | 0.400 | ng | | #-0.01 |
| 29) Chrysene-d12 | 20.974 | 240 | 7576 | 0.400 | ng | | 0.00 |
| 35) Perylene-d12 | 23.067 | 264 | 8338 | 0.400 | ng | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 4) 2-Fluorophenol | 4.968 | 112 | 1280 | 0.332 | ng | | 0.00 |
| 5) Phenol-d6 | 6.513 | 99 | 1437 | 0.310 | ng | | 0.00 |
| 8) Nitrobenzene-d5 | 8.440 | 82 | 938m | 0.393 | ng | | 0.00 |
| 11) 2-Methylnaphthalene-d10 | 11.656 | 152 | 2565 | 0.420 | ng | | 0.00 |
| 14) 2,4,6-Tribromophenol | 15.475 | 330 | 617 | 0.302 | ng | | 0.00 |
| 15) 2-Fluorobiphenyl | 12.574 | 172 | 4647 | 0.427 | ng | | 0.00 |
| 27) Fluoranthene-d10 | 18.785 | 212 | 8415 | 0.404 | ng | | 0.00 |
| 31) Terphenyl-d14 | 19.412 | 244 | 6272 | 0.420 | ng | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.003 | 88 | 684 | 0.465 | ng | | 99 |
| 3) n-Nitrosodimethylamine | 3.299 | 42 | 495 | 0.404 | ng | # | 88 |
| 6) bis(2-Chloroethyl)ether | 6.759 | 93 | 1676 | 0.430 | ng | | 99 |
| 9) Naphthalene | 10.105 | 128 | 4364 | 0.424 | ng | | 99 |
| 10) Hexachlorobutadiene | 10.404 | 225 | 1005 | 0.423 | ng | # | 100 |
| 12) 2-Methylnaphthalene | 11.732 | 142 | 3157 | 0.428 | ng | | 98 |
| 16) Acenaphthylene | 13.679 | 152 | 5261 | 0.435 | ng | | 100 |
| 17) Acenaphthene | 14.031 | 154 | 3421 | 0.426 | ng | | 99 |
| 18) Fluorene | 15.026 | 166 | 4825 | 0.420 | ng | | 99 |
| 20) 4,6-Dinitro-2-methylph... | 15.132 | 198 | 263 | 0.364 | ng | # | 86 |
| 21) 4-Bromophenyl-phenylether | 15.941 | 248 | 1742 | 0.405 | ng | | 99 |
| 22) Hexachlorobenzene | 16.040 | 284 | 2151 | 0.426 | ng | | 99 |
| 23) Atrazine | 16.227 | 200 | 1227 | 0.401 | ng | | 99 |
| 24) Pentachlorophenol | 16.400 | 266 | 662 | 0.301 | ng | # | 83 |
| 25) Phenanthrene | 16.773 | 178 | 8509 | 0.421 | ng | | 100 |
| 26) Anthracene | 16.860 | 178 | 7849 | 0.430 | ng | | 100 |
| 28) Fluoranthene | 18.812 | 202 | 10941 | 0.402 | ng | | 100 |
| 30) Pyrene | 19.179 | 202 | 11476 | 0.410 | ng | | 100 |
| 32) Benzo(a)anthracene | 20.956 | 228 | 10934 | 0.413 | ng | | 100 |
| 33) Chrysene | 21.009 | 228 | 11926 | 0.436 | ng | | 99 |
| 34) Bis(2-ethylhexyl)phtha... | 20.929 | 149 | 4016 | 0.384 | ng | | 100 |
| 36) Indeno(1,2,3-cd)pyrene | 25.105 | 276 | 14433 | 0.443 | ng | | 99 |
| 37) Benzo(b)fluoranthene | 22.453 | 252 | 12988 | 0.426 | ng | | 99 |
| 38) Benzo(k)fluoranthene | 22.494 | 252 | 12669 | 0.422 | ng | | 99 |
| 39) Benzo(a)pyrene | 22.974 | 252 | 11094 | 0.442 | ng | | 99 |
| 40) Dibenzo(a,h)anthracene | 25.123 | 278 | 11141 | 0.433 | ng | | 100 |
| 41) Benzo(g,h,i)perylene | 25.722 | 276 | 10870 | 0.404 | ng | | 99 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

ICAL Form

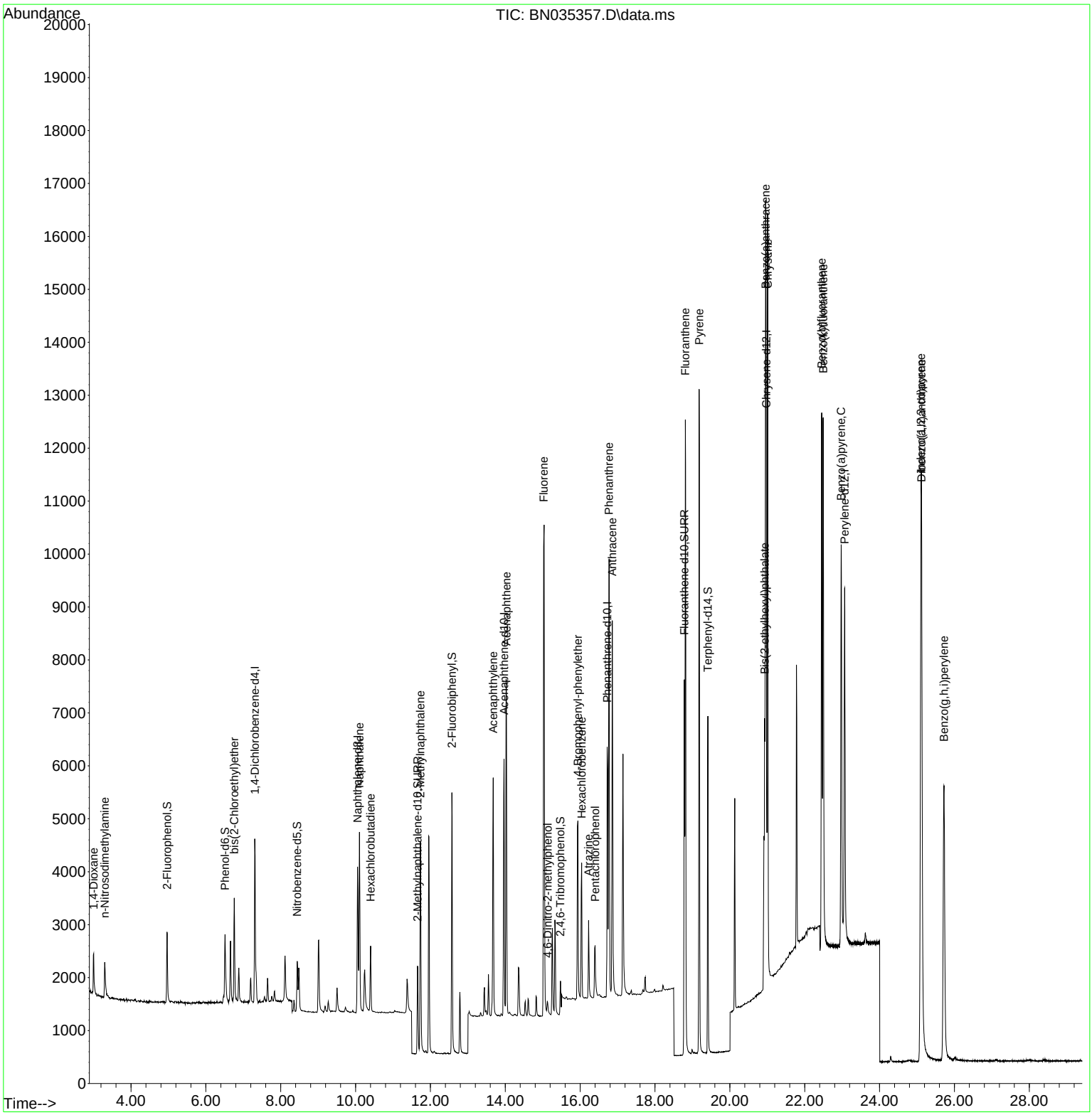
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035357.D
Acq On : 27 Nov 2024 20:21
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 10 Sample Multiplier: 1

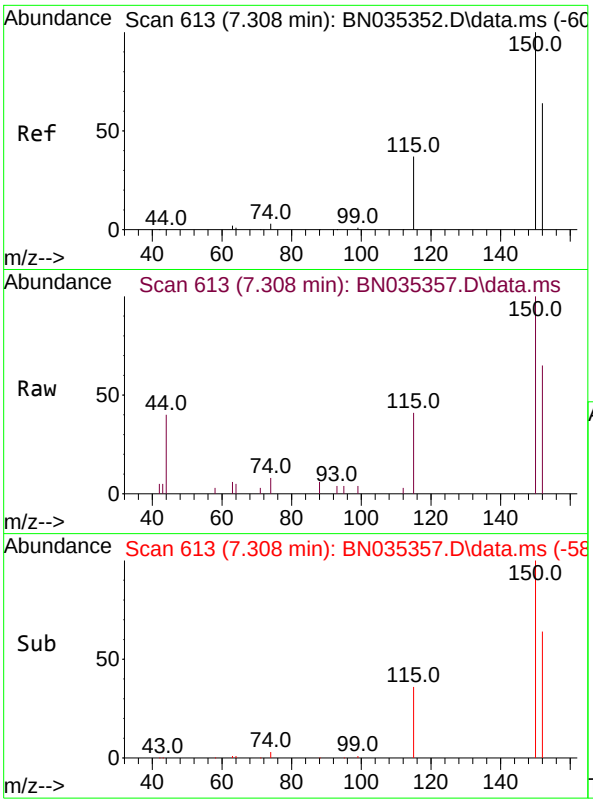
Quant Time: Nov 27 23:06:03 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration

**Instrument :**
BNA_N
**ClientSampleId :**
ICVBN112724

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

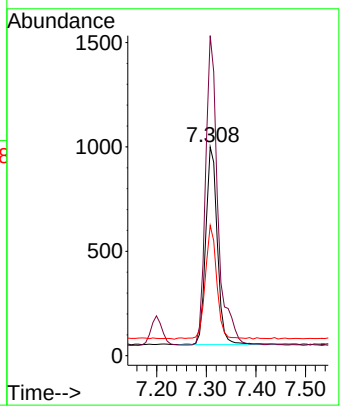





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:152 Resp: 154

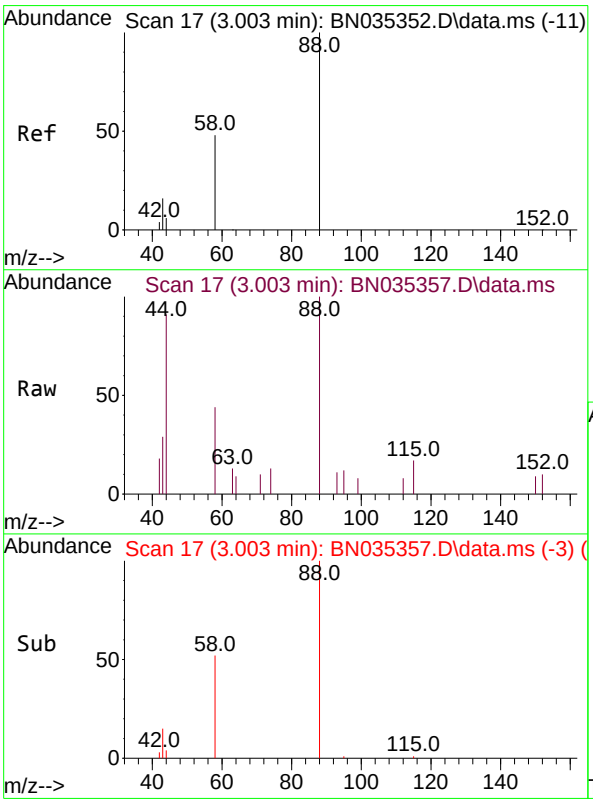
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 153.3 | 124.0 | 186.0 |
| 115 | 62.4 | 49.6 | 74.4 |




**Instrument :**
BNA_N
**ClientSampleId :**
ICVBN112724

**Manual Integrations**
**APPROVED**

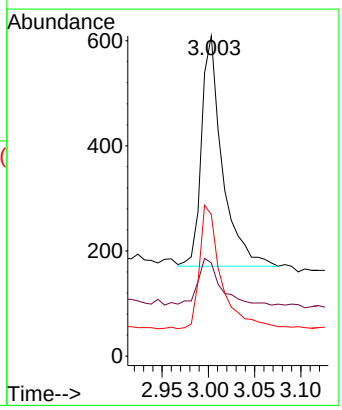
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

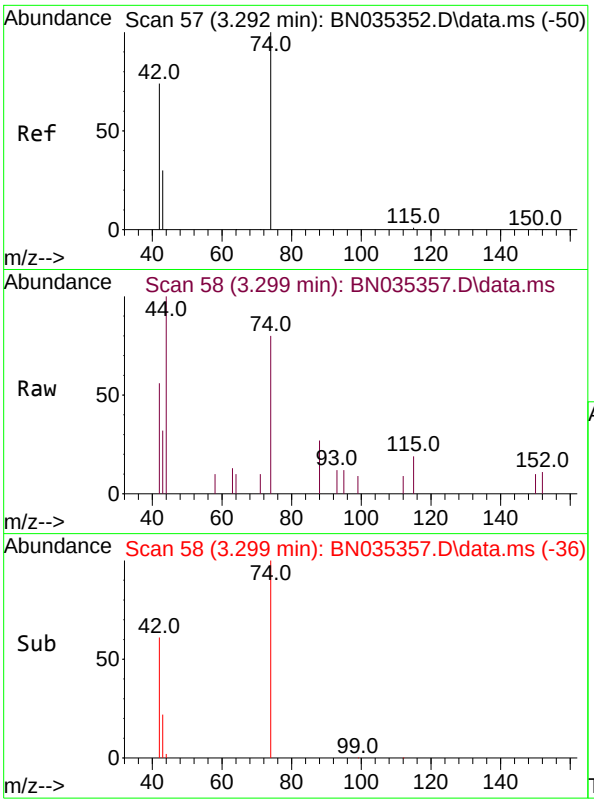



#2
1,4-Dioxane
Concen: 0.465 ng
RT: 3.003 min Scan# 17
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion: 88 Resp: 684

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 21.8 | 17.2 | 25.8 |
| 58 | 56.0 | 44.5 | 66.7 |

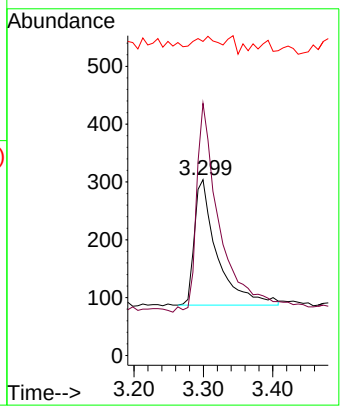





#3
n-Nitrosodimethylamine
Concen: 0.404 ng
RT: 3.299 min Scan# 5
Delta R.T. 0.007 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion: 42 Resp: 49

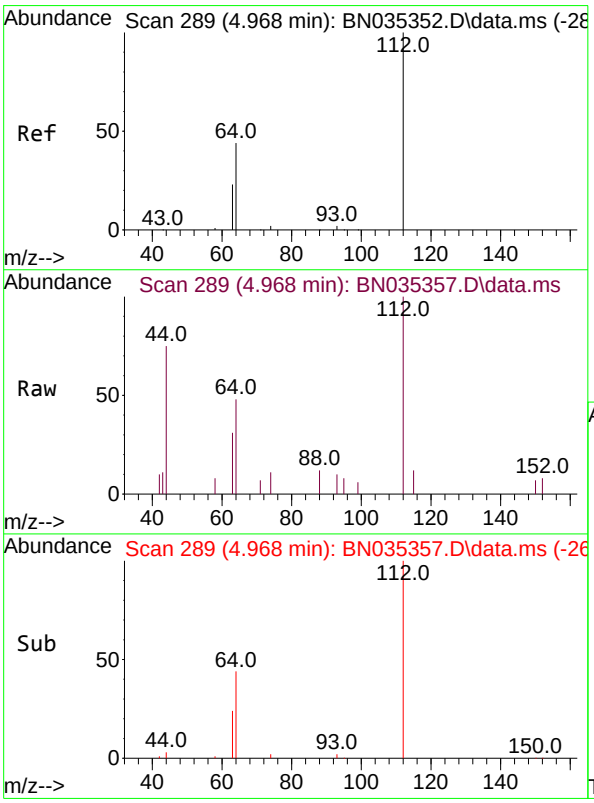
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 172.1 | 124.9 | 187.3 |
| 44 | 6.3 | 2.2 | 3.4 |




**Instrument :**
BNA_N
**ClientSampleId :**
ICVBN112724

**Manual Integrations APPROVED**

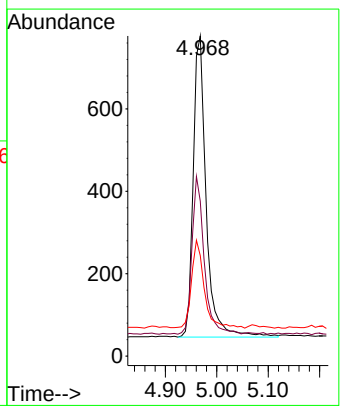
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

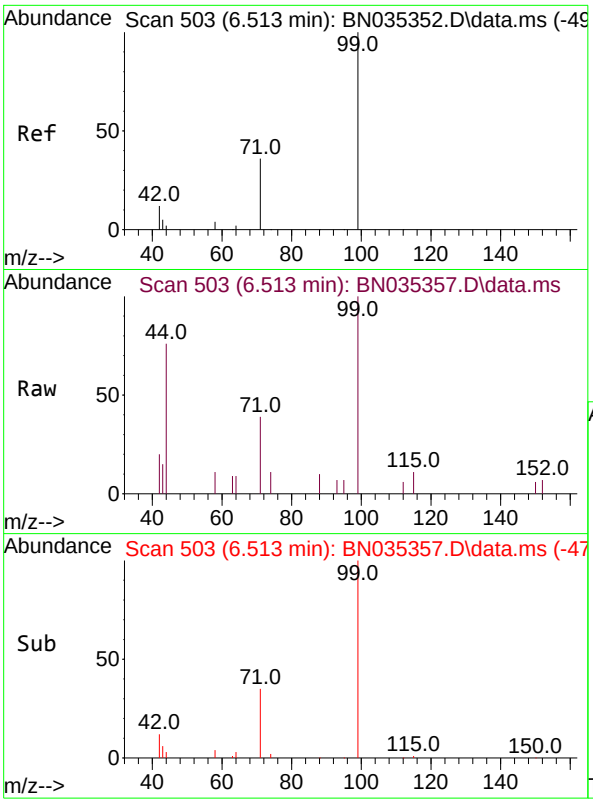



#4
2-Fluorophenol
Concen: 0.332 ng
RT: 4.968 min Scan# 289
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:112 Resp: 1280

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 49.0 | 39.8 | 59.8 |
| 63 | 28.4 | 21.0 | 31.6 |

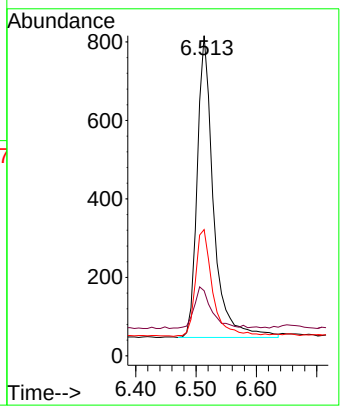





#5
Phenol-d6
Concen: 0.310 ng
RT: 6.513 min Scan# 5(
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion: 99 Resp: 143

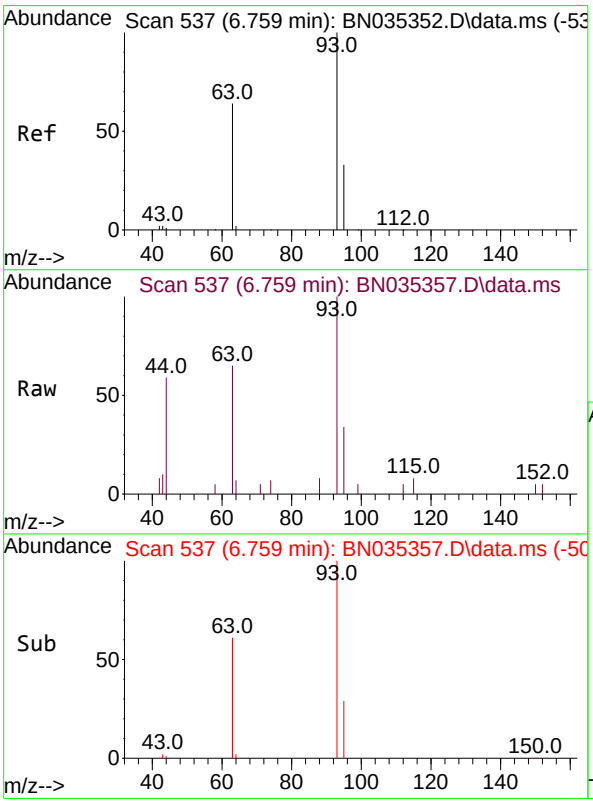
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 13.9 | 11.4 | 17.2 |
| 71 | 37.2 | 29.3 | 43.9 |




**Instrument :**
BNA_N
**ClientSampleId :**
ICVBN112724

**Manual Integrations**
**APPROVED**

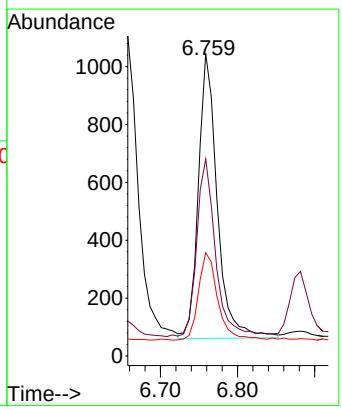
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

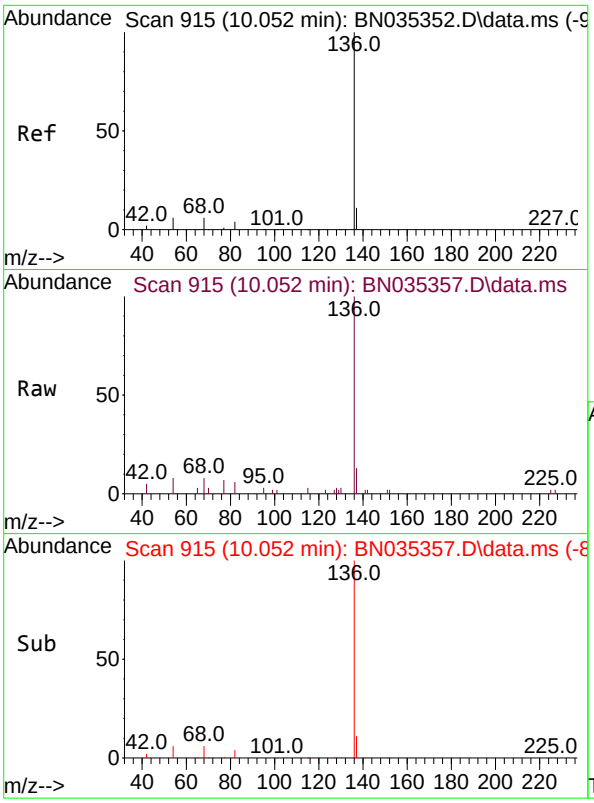



#6
bis(2-Chloroethyl)ether
Concen: 0.430 ng
RT: 6.759 min Scan# 537
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion: 93 Resp: 1676

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 62.1 | 50.4 | 75.6 |
| 95 | 31.4 | 25.7 | 38.5 |

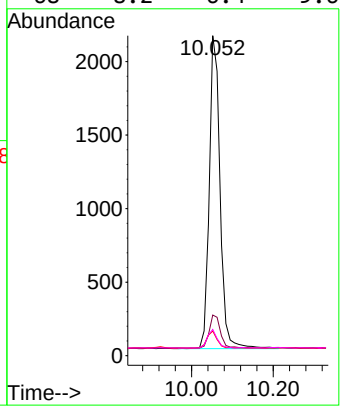





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:136 Resp: 390

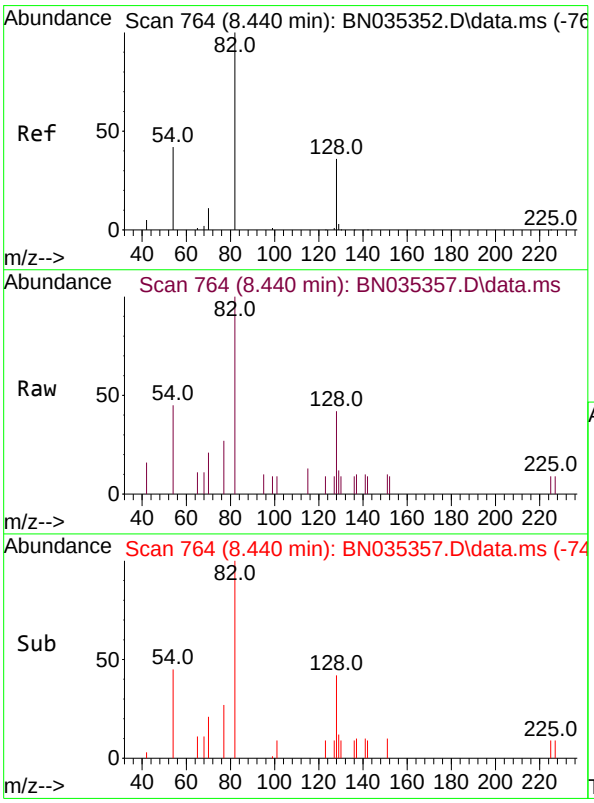
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 12.7 | 10.2 | 15.2 |
| 54 | 7.7 | 6.1 | 9.1 |
| 68 | 8.2 | 6.4 | 9.6 |




**Instrument :**
BNA_N
**ClientSampleId :**
ICVBN112724

**Manual Integrations**
**APPROVED**

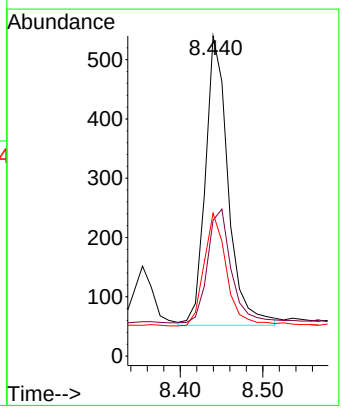
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

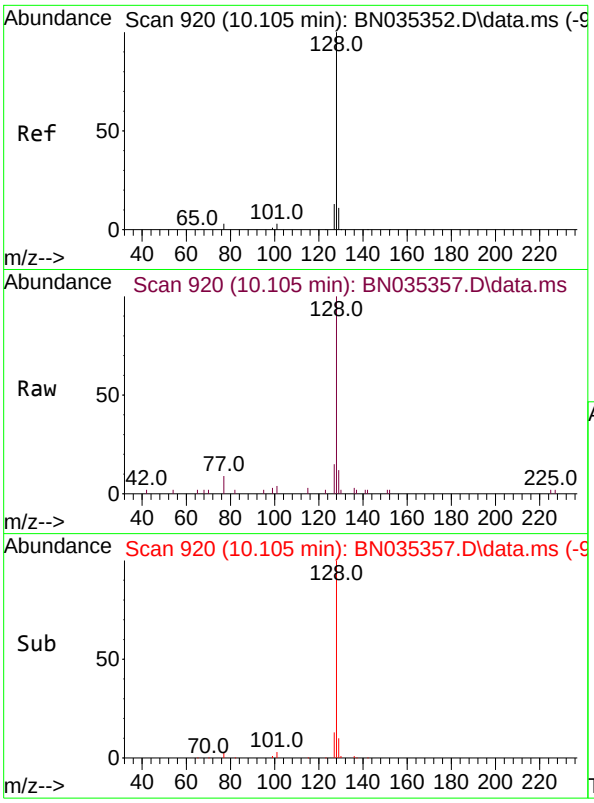



#8
Nitrobenzene-d5
Concen: 0.393 ng m
RT: 8.440 min Scan# 764
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion: 82 Resp: 938

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 42.4 | 33.4 | 50.0 |
| 54 | 44.6 | 36.7 | 55.1 |

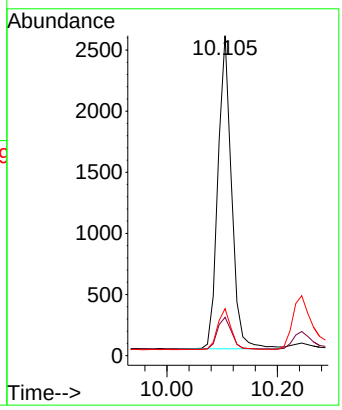





#9
Naphthalene
Concen: 0.424 ng
RT: 10.105 min Scan# 9
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:128 Resp: 436

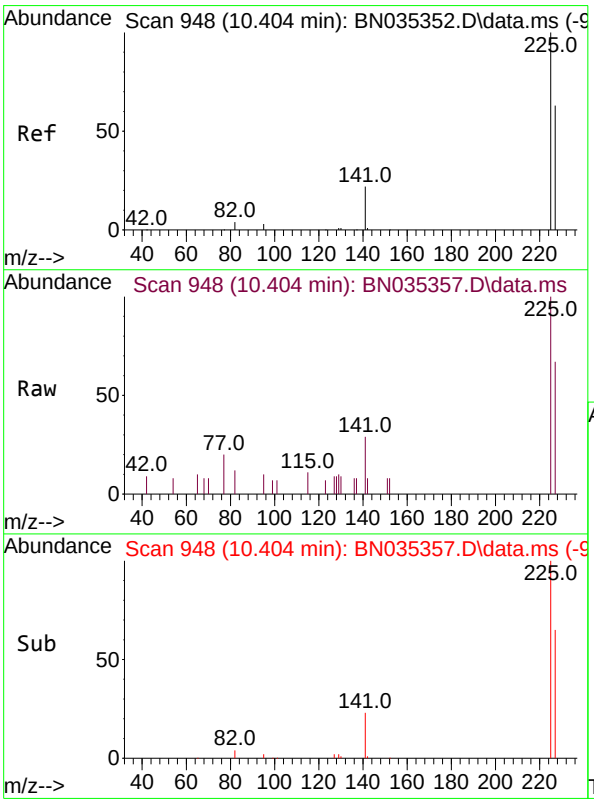
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 12.0 | 9.8 | 14.6 |
| 127 | 14.7 | 11.4 | 17.2 |




**Instrument :**
BNA_N
**ClientSampleId :**
ICVBN112724

**Manual Integrations**
**APPROVED**

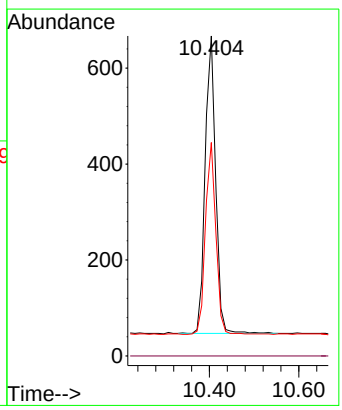
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

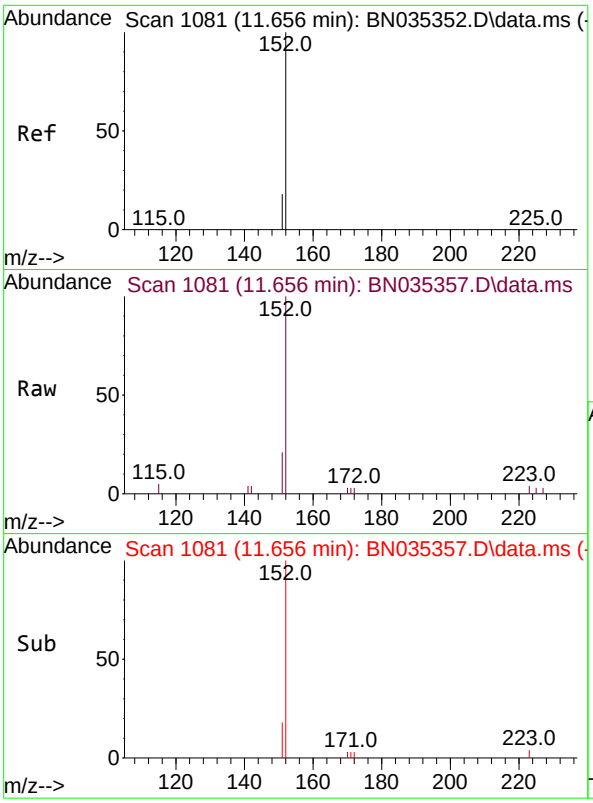



#10
Hexachlorobutadiene
Concen: 0.423 ng
RT: 10.404 min Scan# 948
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:225 Resp: 1005

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 0.0 | 0.0 | 0.0 |
| 227 | 64.3 | 51.3 | 76.9 |

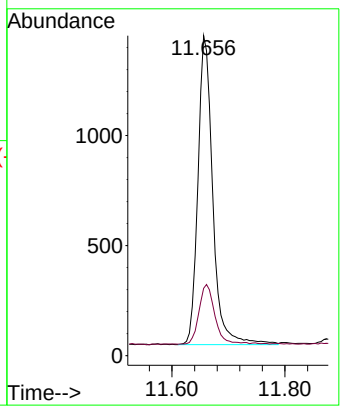





#11
2-Methylnaphthalene-d10
Concen: 0.420 ng
RT: 11.656 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:152 Resp: 256

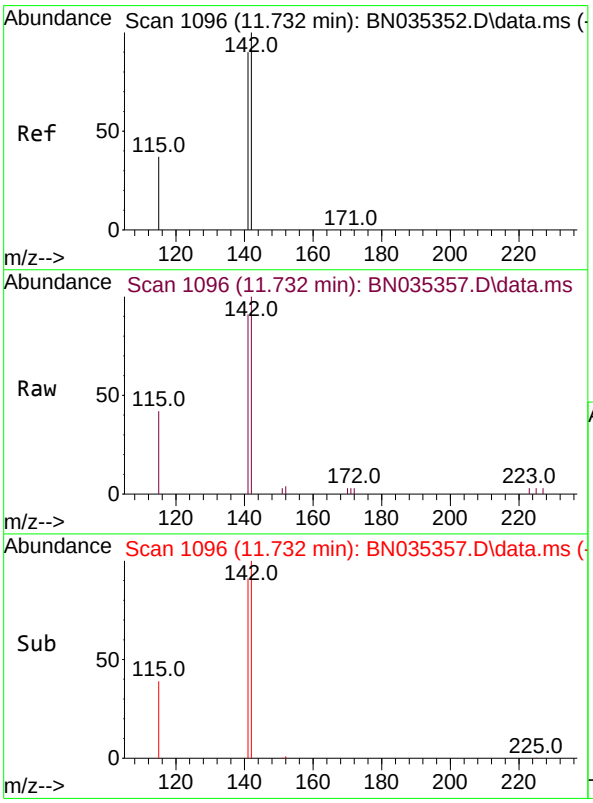
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.5 | 16.6 | 25.0 |




**Instrument :**
BNA_N
**ClientSampleId :**
ICVBN112724

**Manual Integrations**
**APPROVED**

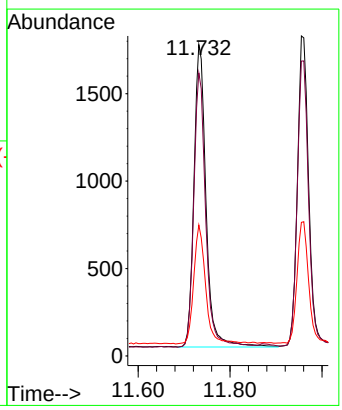
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

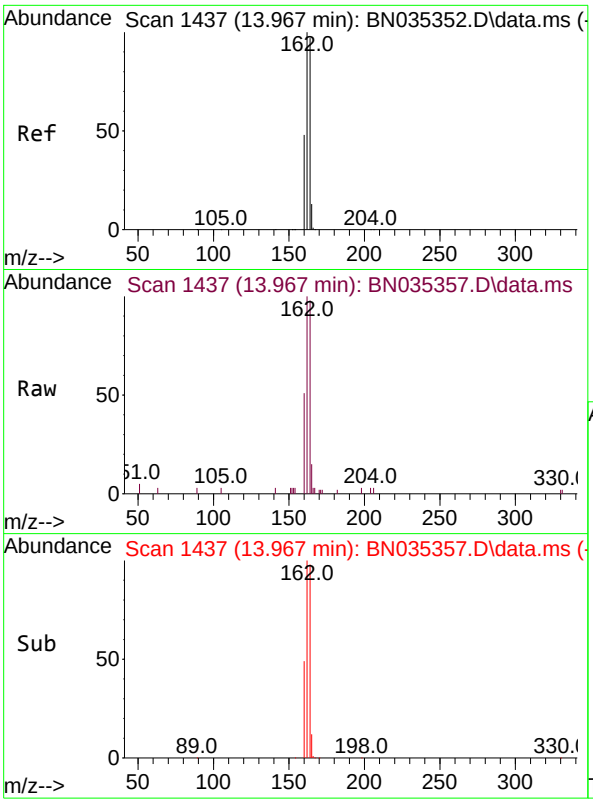



#12
2-Methylnaphthalene
Concen: 0.428 ng
RT: 11.732 min Scan# 1096
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:142 Resp: 3157

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 90.9 | 72.2 | 108.4 |
| 115 | 42.0 | 31.4 | 47.0 |

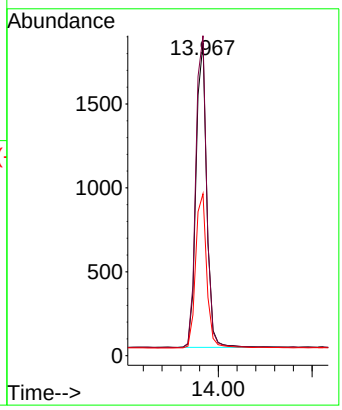





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:164 Resp: 287

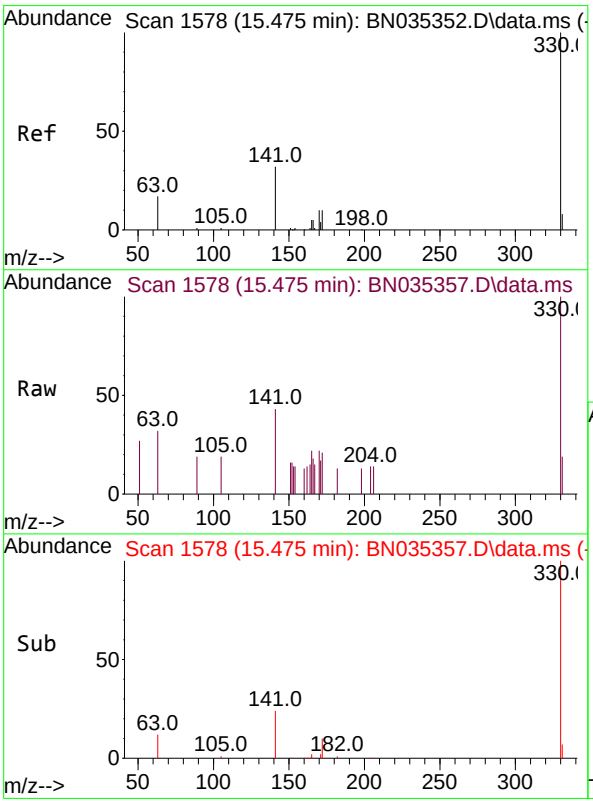
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 102.3 | 82.2 | 123.2 |
| 160 | 51.8 | 40.1 | 60.1 |




**Instrument :**
BNA_N
**ClientSampleId :**
ICVBN112724

**Manual Integrations**
**APPROVED**

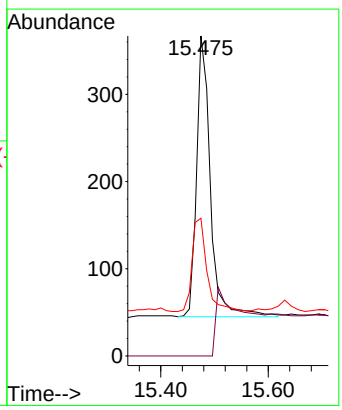
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

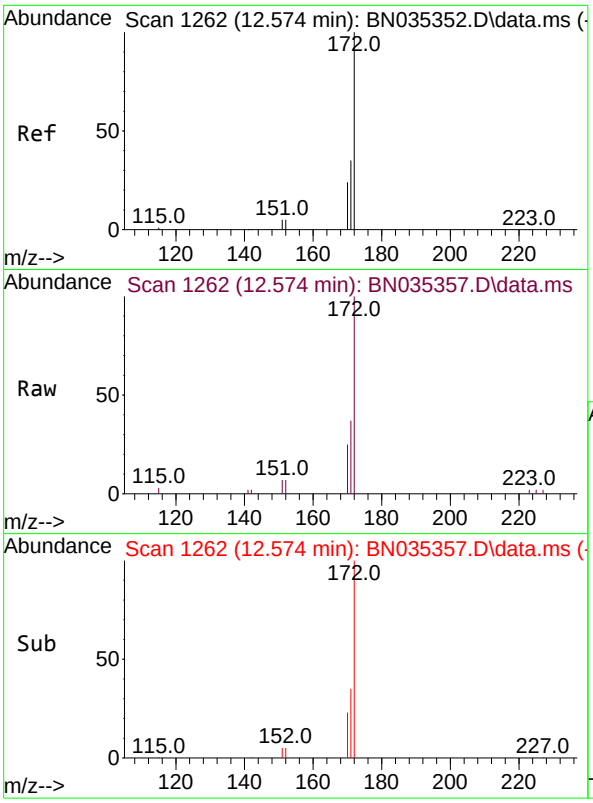



#14
2,4,6-Tribromophenol
Concen: 0.302 ng
RT: 15.475 min Scan# 1578
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:330 Resp: 617

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 0.0 | 0.0 | 0.0 |
| 141 | 34.7 | 26.6 | 40.0 |

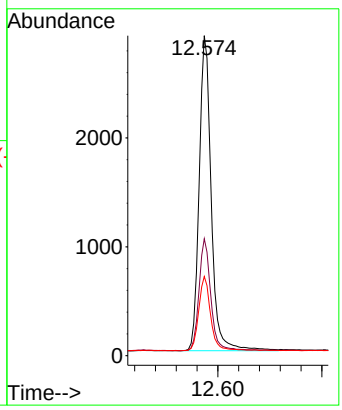





#15
2-Fluorobiphenyl
Concen: 0.427 ng
RT: 12.574 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:172 Resp: 464

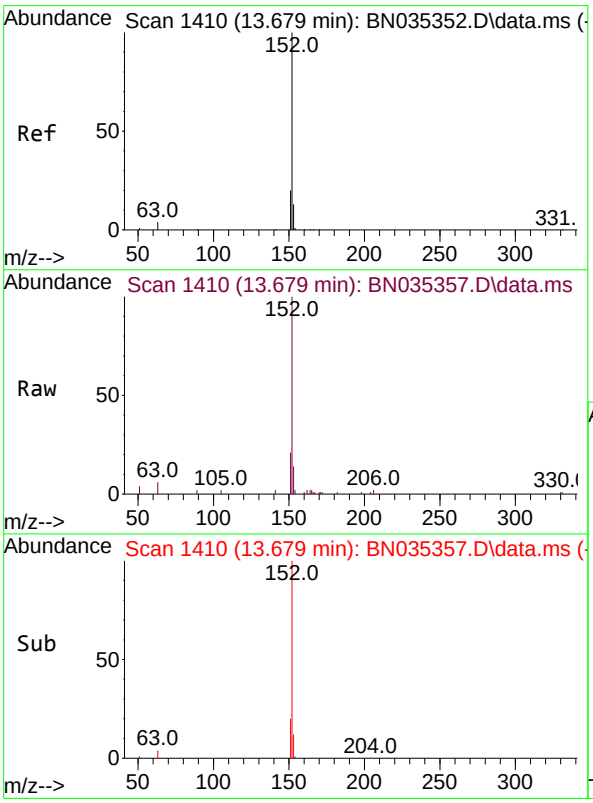
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 36.5 | 29.0 | 43.4 |
| 170 | 24.7 | 19.8 | 29.8 |




**Instrument :**
BNA_N
**ClientSampleId :**
ICVBN112724

**Manual Integrations APPROVED**

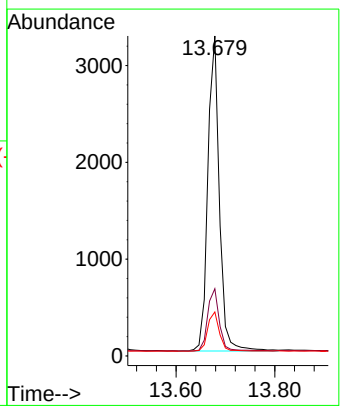
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

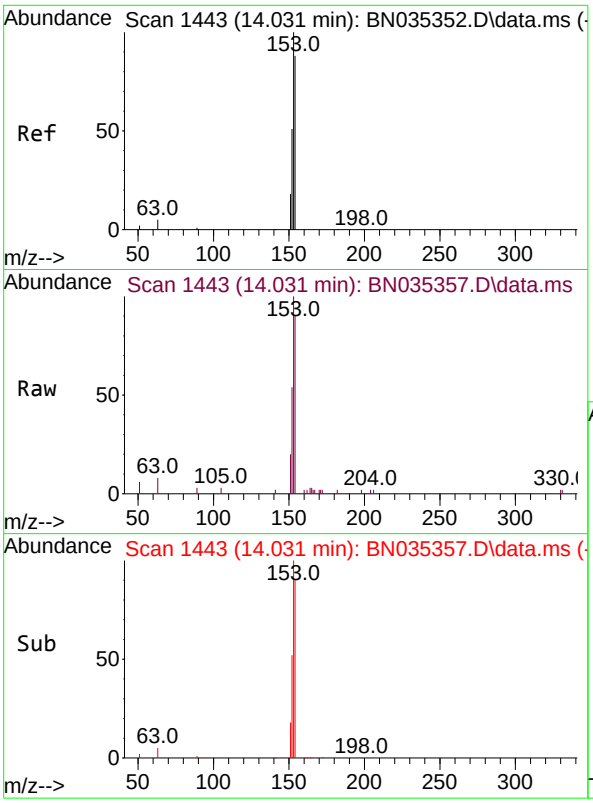



#16
Acenaphthylene
Concen: 0.435 ng
RT: 13.679 min Scan# 1410
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:152 Resp: 5261

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.1 | 16.2 | 24.2 |
| 153 | 12.7 | 10.4 | 15.6 |

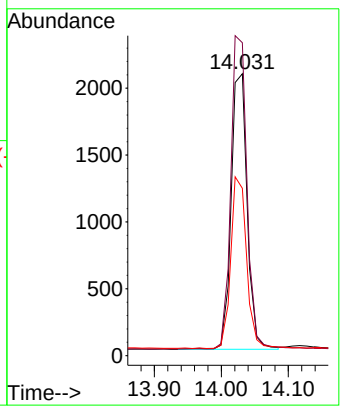





#17
Acenaphthene
Concen: 0.426 ng
RT: 14.031 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:154 Resp: 342

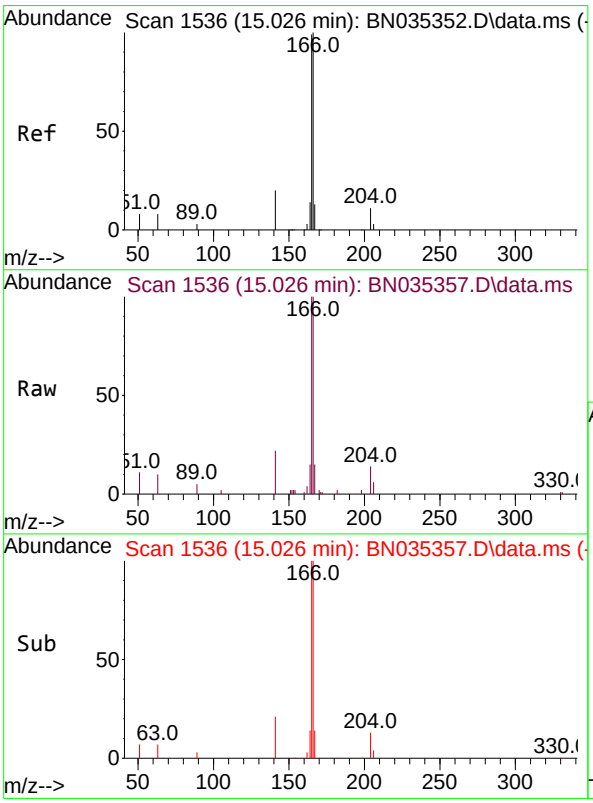
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 115.4 | 92.6 | 139.0 |
| 152 | 61.9 | 49.0 | 73.6 |




**Instrument :**
BNA_N
**ClientSampleId :**
ICVBN112724

**Manual Integrations**
**APPROVED**

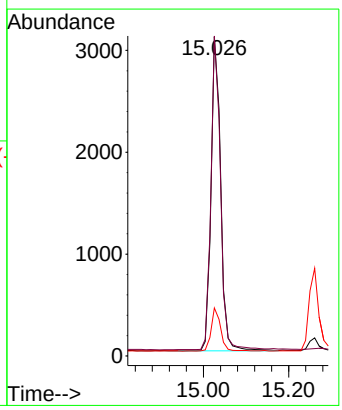
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

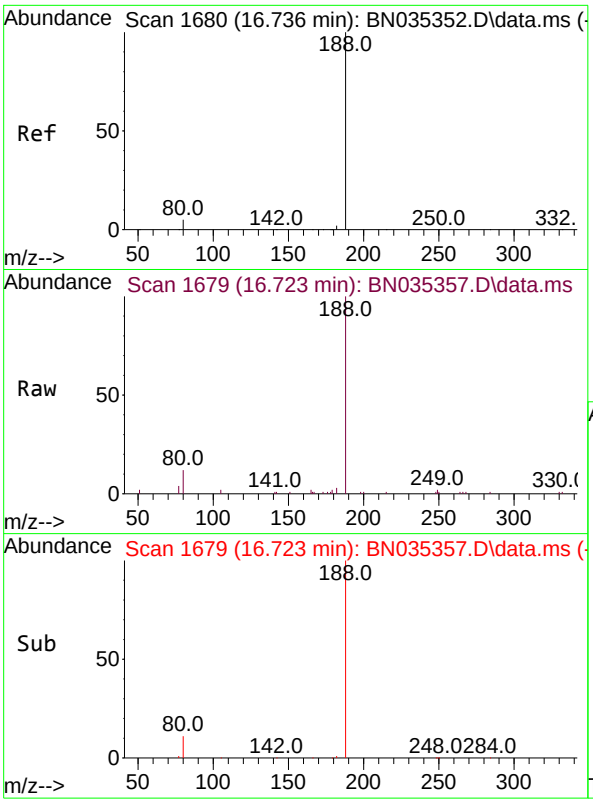



#18
Fluorene
Concen: 0.420 ng
RT: 15.026 min Scan# 1536
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:166 Resp: 4825

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 98.4 | 79.7 | 119.5 |
| 167 | 13.6 | 10.8 | 16.2 |

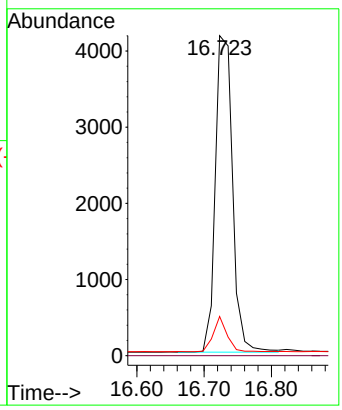





#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.723 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:188 Resp: 735(

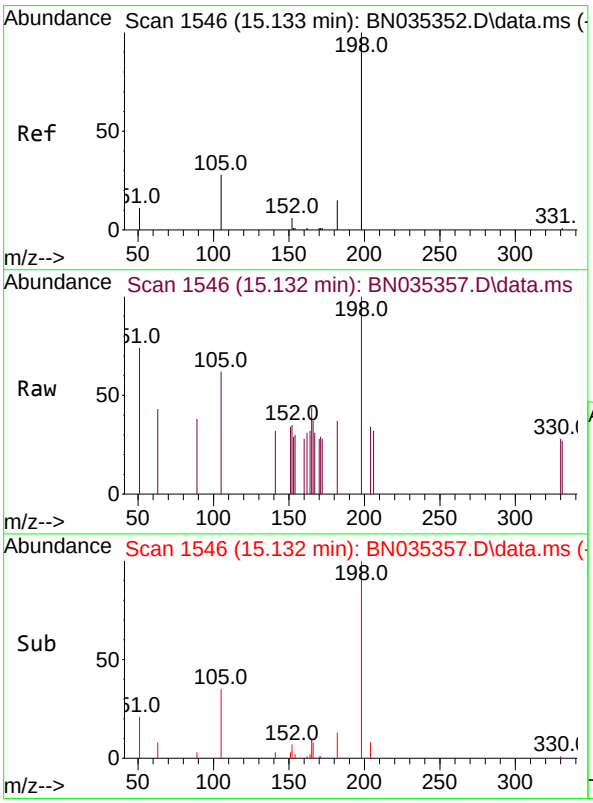
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 12.2 | 4.6 | 6.8# |




**Instrument :**
BNA_N
**ClientSampleId :**
ICVBN112724

**Manual Integrations APPROVED**

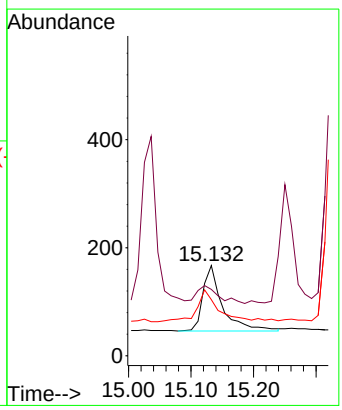
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

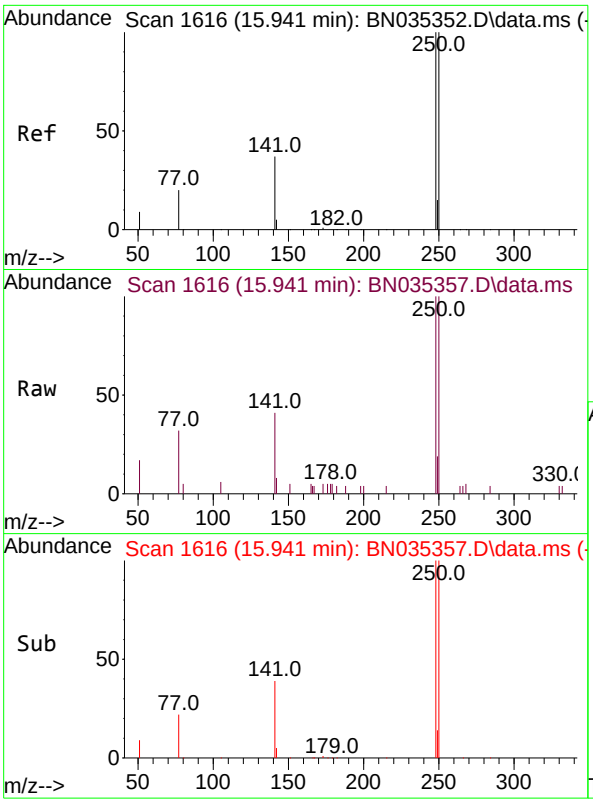



#20
4,6-Dinitro-2-methylphenol
Concen: 0.364 ng
RT: 15.132 min Scan# 1546
Delta R.T. -0.001 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:198 Resp: 263

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 198 | 100 | | |
| 51 | 73.7 | 46.5 | 69.7# |
| 105 | 62.3 | 45.3 | 67.9 |

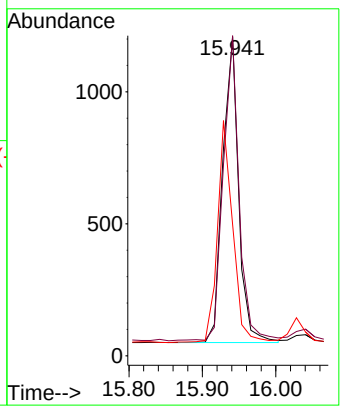





#21
4-Bromophenyl-phenylether
Concen: 0.405 ng
RT: 15.941 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:248 Resp: 174

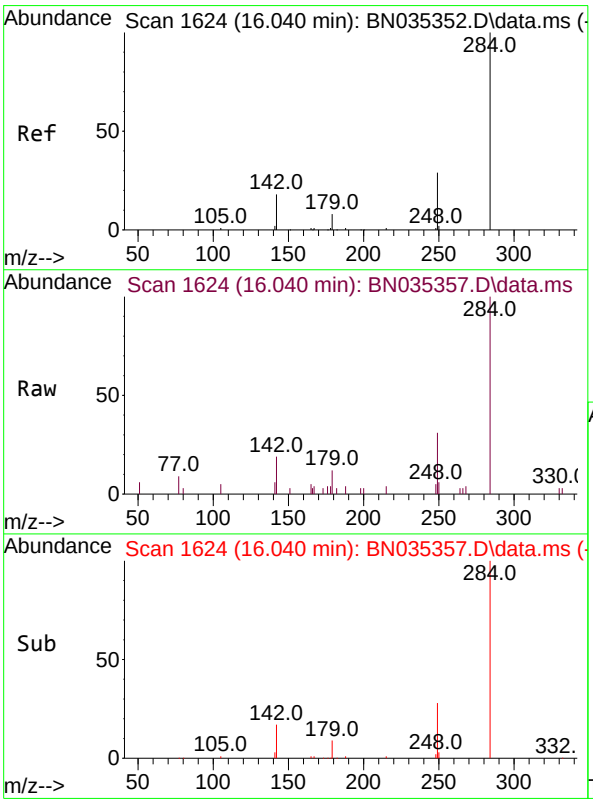
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 100.3 | 80.6 | 120.8 |
| 141 | 41.2 | 31.5 | 47.3 |




**Instrument :**
BNA_N
**ClientSampleId :**
ICVBN112724

**Manual Integrations APPROVED**

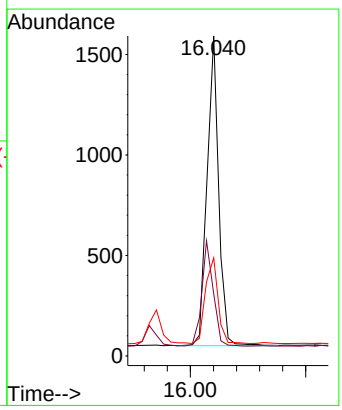
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

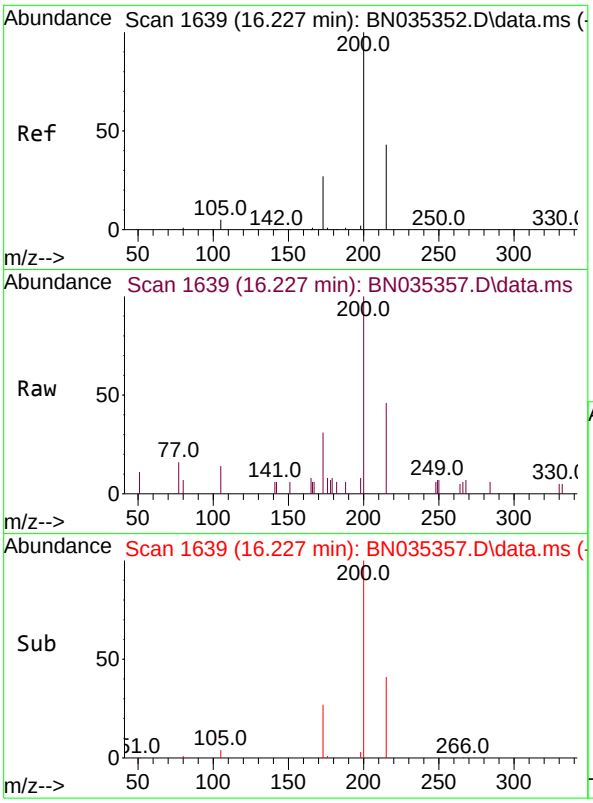



#22
Hexachlorobenzene
Concen: 0.426 ng
RT: 16.040 min Scan# 1624
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:284 Resp: 2151

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 33.5 | 26.7 | 40.1 |
| 249 | 30.0 | 24.6 | 36.8 |

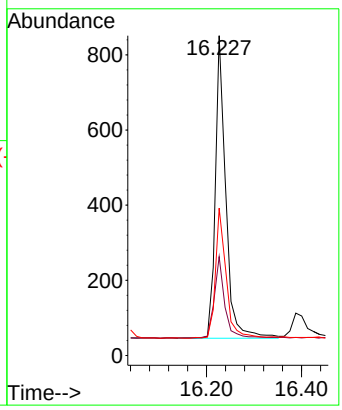





#23
Atrazine
Concen: 0.401 ng
RT: 16.227 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:200 Resp: 122

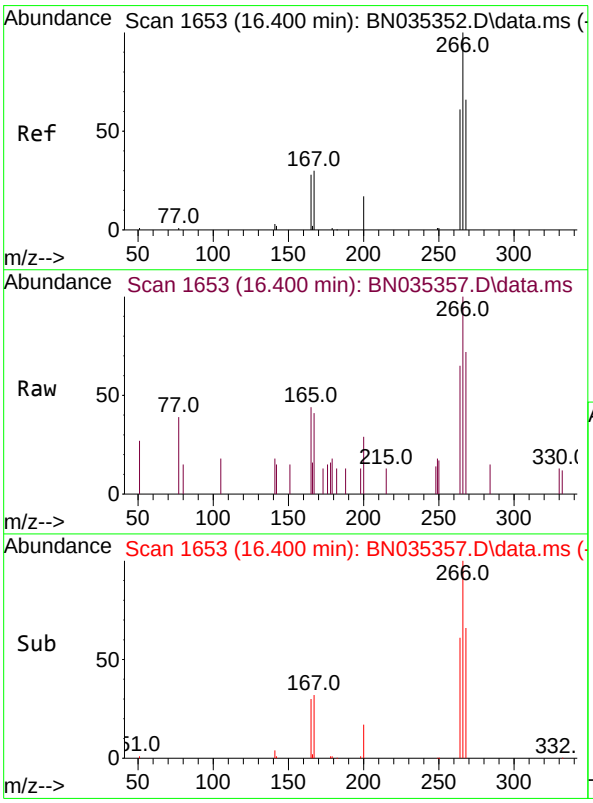
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 173 | 30.9 | 24.1 | 36.1 |
| 215 | 46.1 | 36.9 | 55.3 |




**Instrument :**
BNA_N
**ClientSampleId :**
ICVBN112724

**Manual Integrations**
**APPROVED**

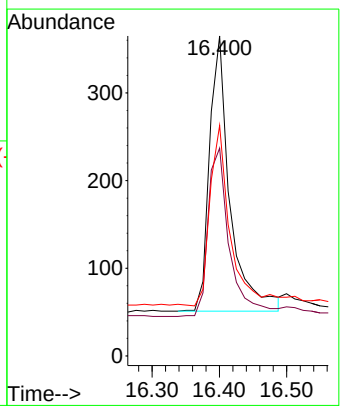
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

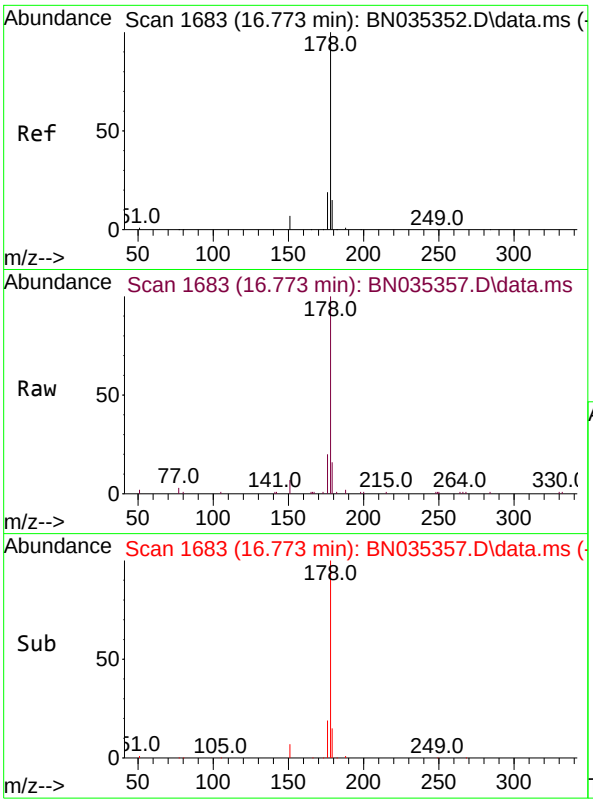



#24
Pentachlorophenol
Concen: 0.301 ng
RT: 16.400 min Scan# 1653
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:266 Resp: 662

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 264 | 65.0 | 42.3 | 63.5# |
| 268 | 66.8 | 43.3 | 64.9# |

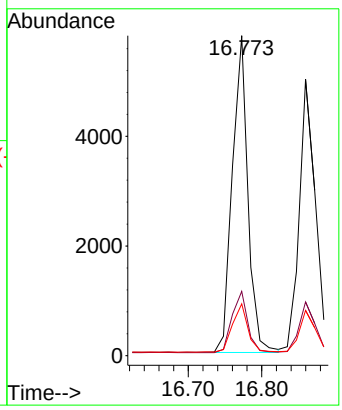





#25
Phenanthrene
Concen: 0.421 ng
RT: 16.773 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:178 Resp: 850

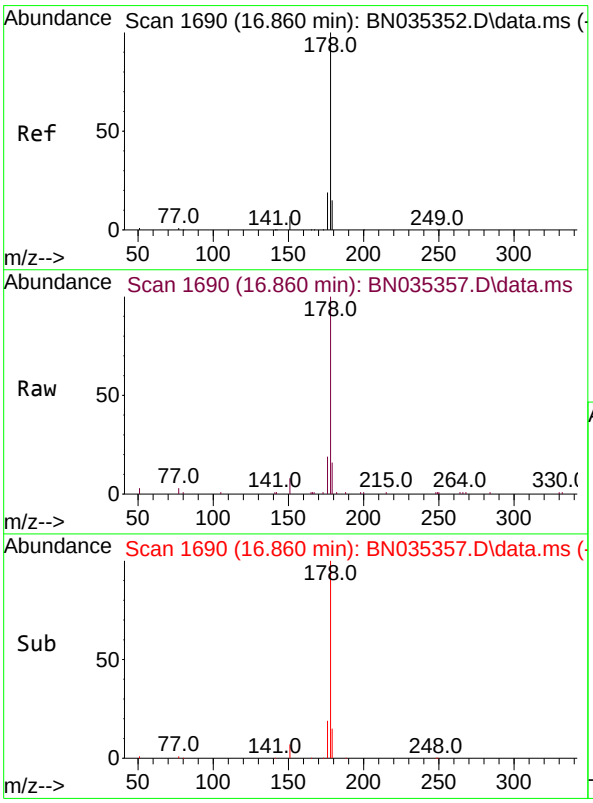
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.6 | 15.4 | 23.2 |
| 179 | 15.4 | 12.3 | 18.5 |




**Instrument :**
BNA_N
**ClientSampleId :**
ICVBN112724

**Manual Integrations**
**APPROVED**

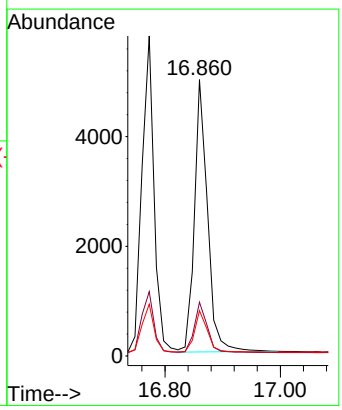
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

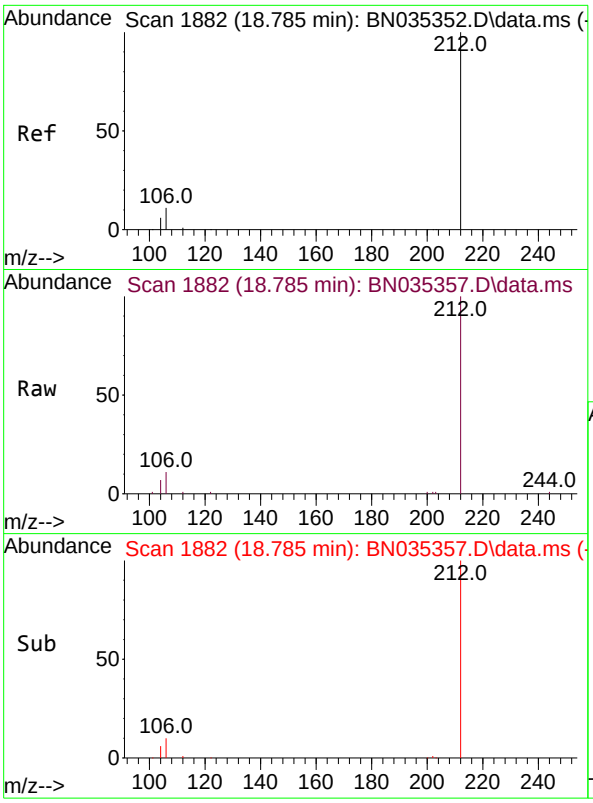



#26
Anthracene
Concen: 0.430 ng
RT: 16.860 min Scan# 1690
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:178 Resp: 7849

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.8 | 15.0 | 22.6 |
| 179 | 15.3 | 12.6 | 18.8 |

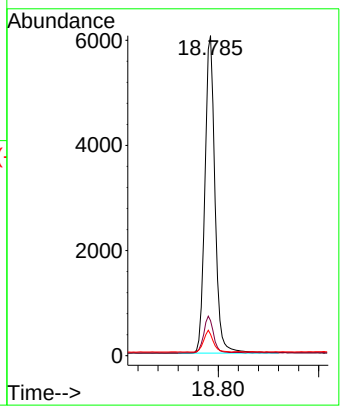





#27
Fluoranthene-d10
Concen: 0.404 ng
RT: 18.785 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:212 Resp: 841

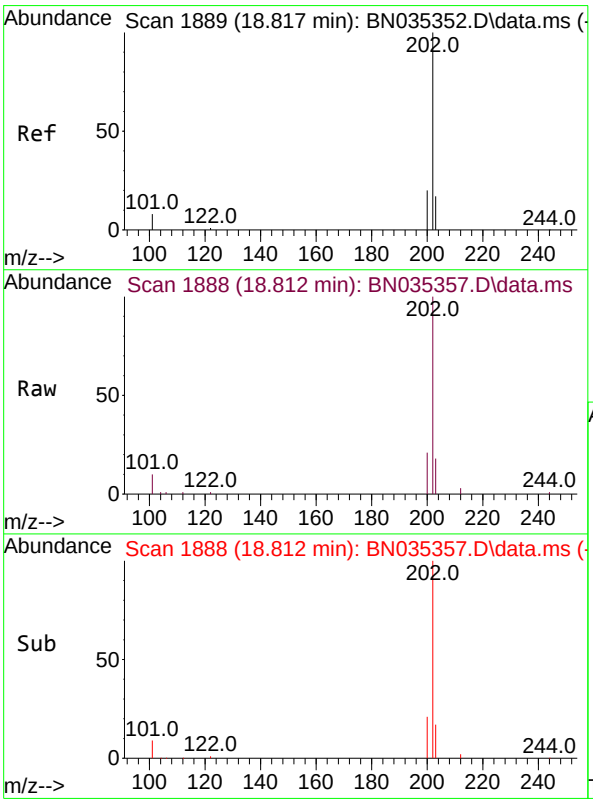
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 11.3 | 9.2 | 13.8 |
| 104 | 6.4 | 5.3 | 7.9 |




**Instrument :**
BNA_N
**ClientSampleId :**
ICVBN112724

**Manual Integrations**
**APPROVED**

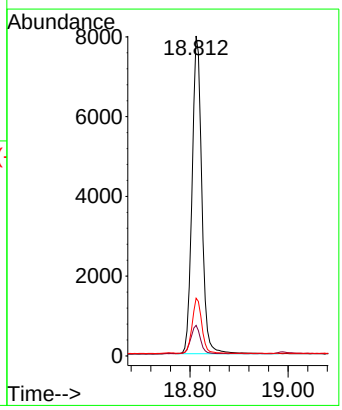
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

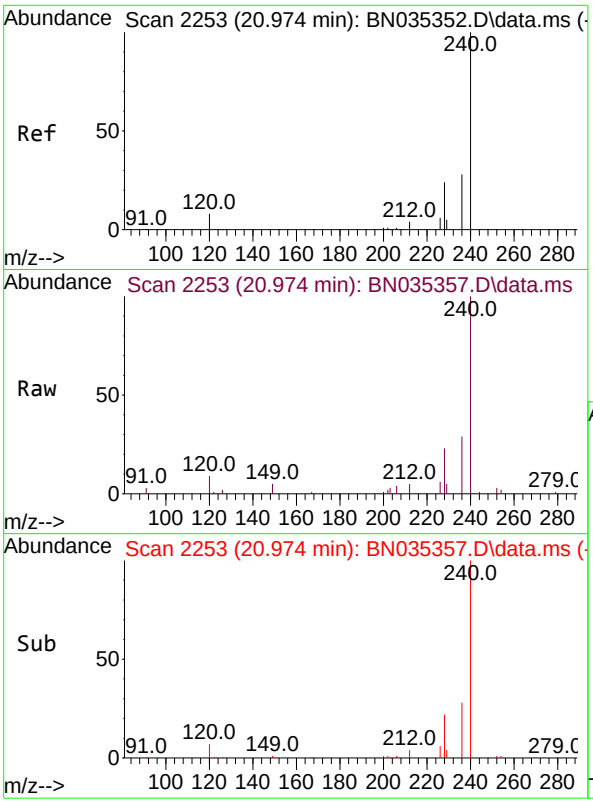



#28
Fluoranthene
Concen: 0.402 ng
RT: 18.812 min Scan# 1888
Delta R.T. -0.005 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:202 Resp: 10941

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 9.2 | 7.4 | 11.0 |
| 203 | 17.1 | 13.7 | 20.5 |

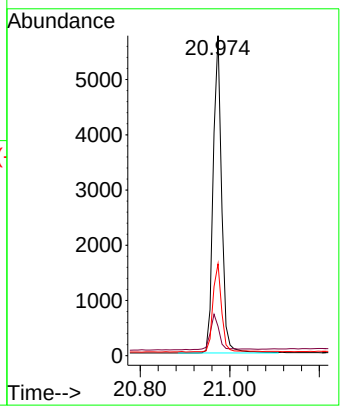





#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.974 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:240 Resp: 757

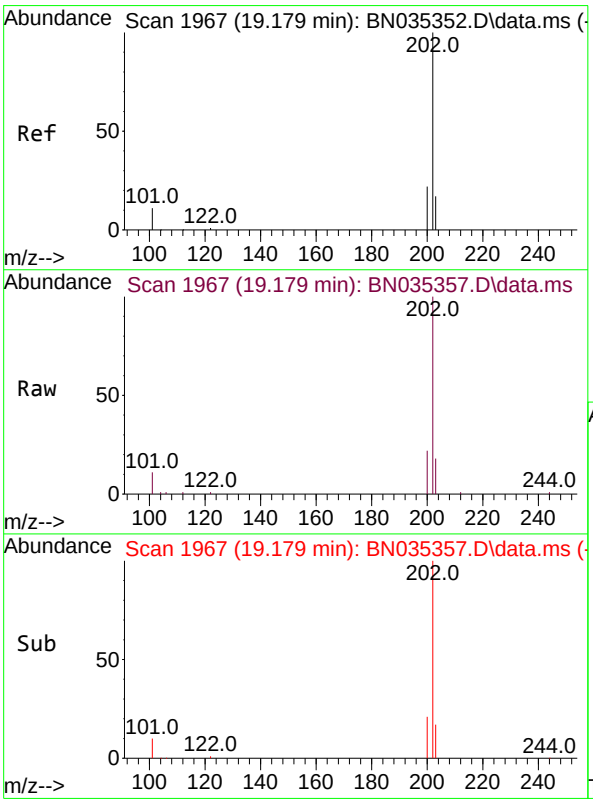
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 9.1 | 7.9 | 11.9 |
| 236 | 28.7 | 22.9 | 34.3 |




**Instrument :**
BNA_N
**ClientSampleId :**
ICVBN112724

**Manual Integrations APPROVED**

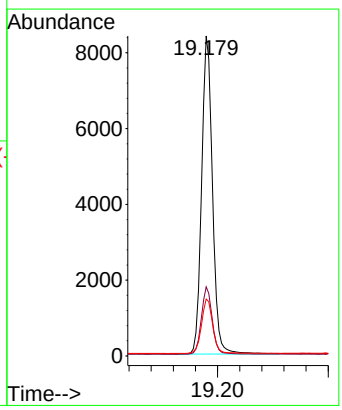
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

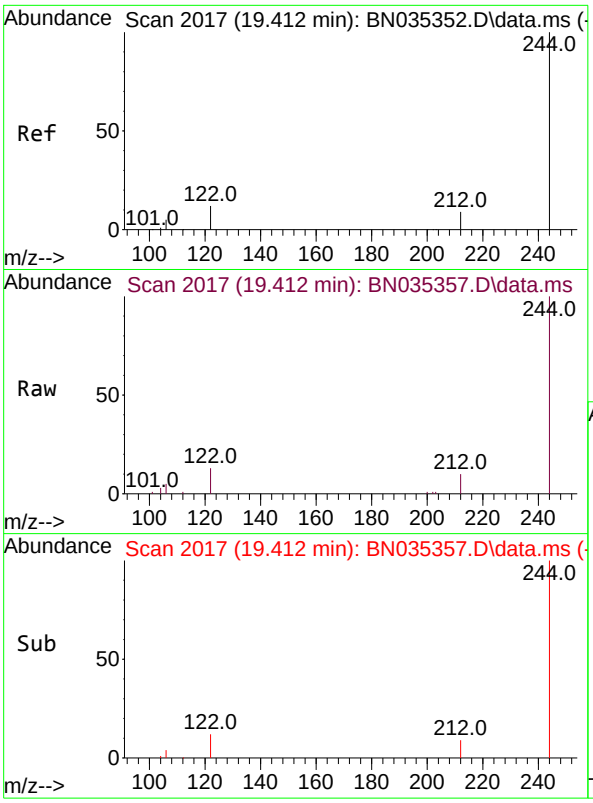



#30
Pyrene
Concen: 0.410 ng
RT: 19.179 min Scan# 1967
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:202 Resp: 11476

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 20.9 | 17.0 | 25.4 |
| 203 | 17.8 | 14.3 | 21.5 |

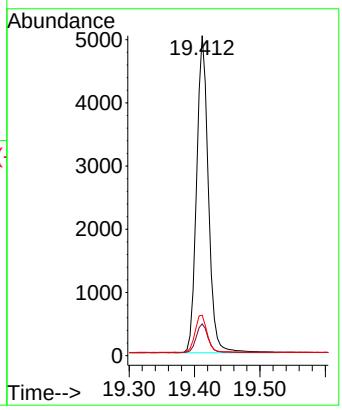





#31
Terphenyl-d14
Concen: 0.420 ng
RT: 19.412 min Scan# 2(
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:244 Resp: 627

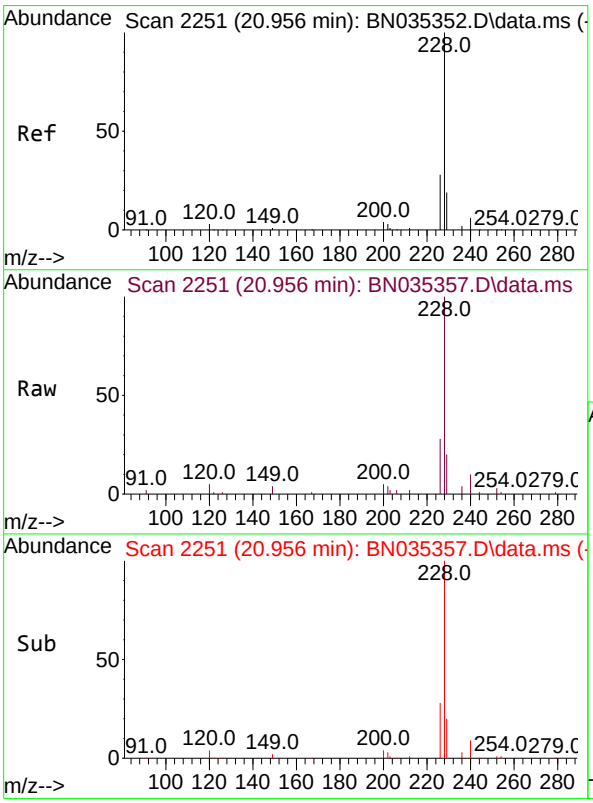
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 9.9 | 8.1 | 12.1 |
| 122 | 12.6 | 10.3 | 15.5 |




**Instrument :**
BNA_N
**ClientSampleId :**
ICVBN112724

**Manual Integrations APPROVED**

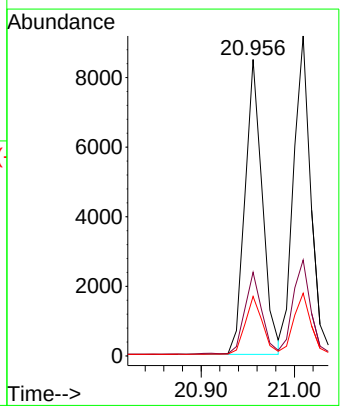
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

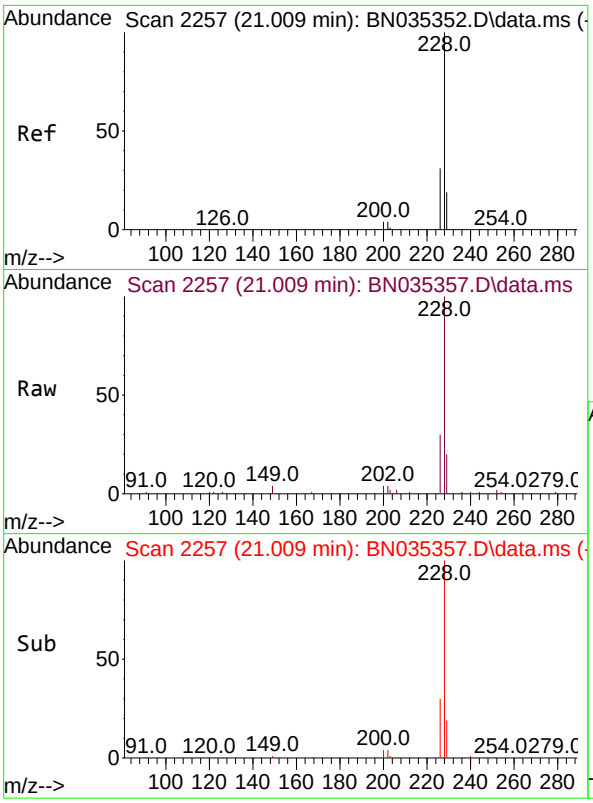



#32
Benzo(a)anthracene
Concen: 0.413 ng
RT: 20.956 min Scan# 2251
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:228 Resp: 10934

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 28.2 | 22.5 | 33.7 |
| 229 | 20.1 | 15.8 | 23.8 |

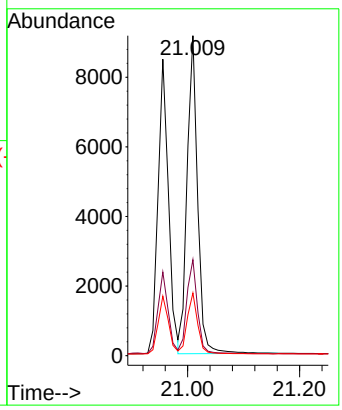





#33
Chrysene
Concen: 0.436 ng
RT: 21.009 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:228 Resp: 1192

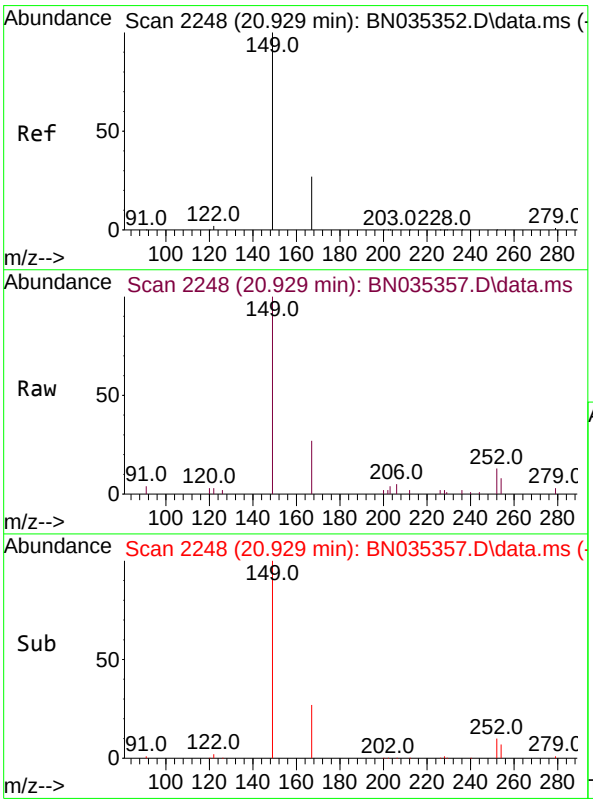
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 30.0 | 24.6 | 37.0 |
| 229 | 19.6 | 15.9 | 23.9 |




**Instrument :**
BNA_N
**ClientSampleId :**
ICVBN112724

**Manual Integrations**
**APPROVED**

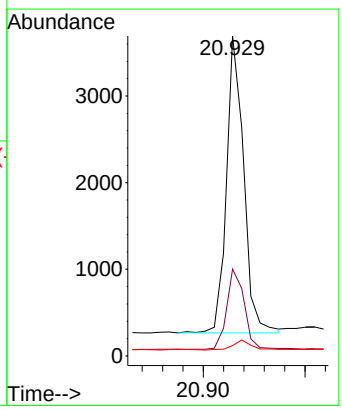
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

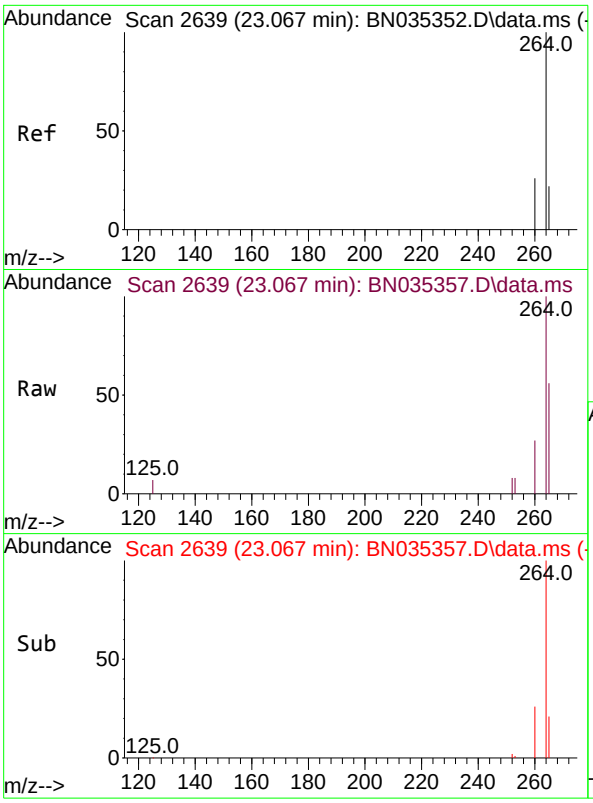



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.384 ng
RT: 20.929 min Scan# 2248
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:149 Resp: 4016

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 27.7 | 22.2 | 33.4 |
| 279 | 3.7 | 2.7 | 4.1 |

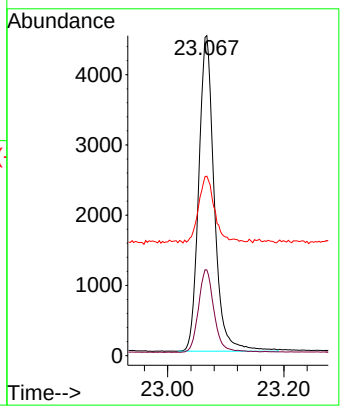





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.067 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:264 Resp: 833

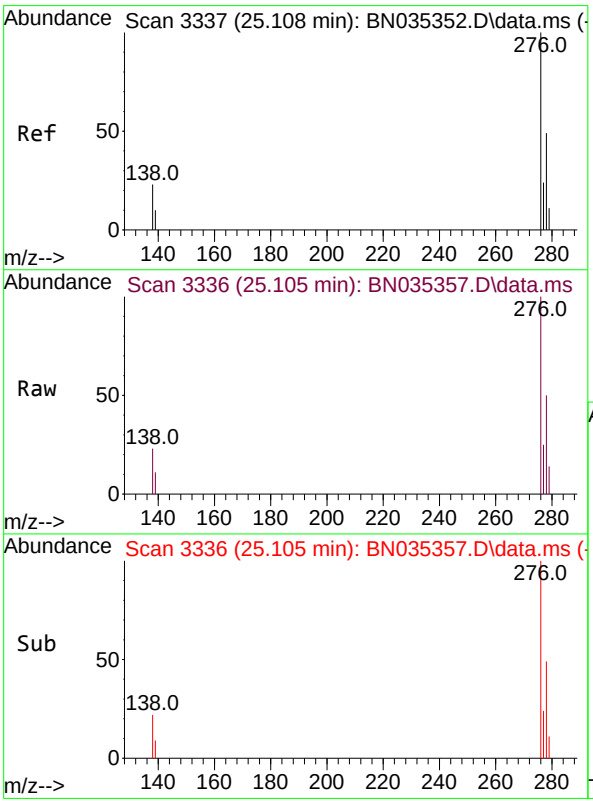
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 26.8 | 21.4 | 32.2 |
| 265 | 56.1 | 40.2 | 60.4 |




**Instrument :**
BNA_N
**ClientSampleId :**
ICVBN112724

**Manual Integrations**
**APPROVED**

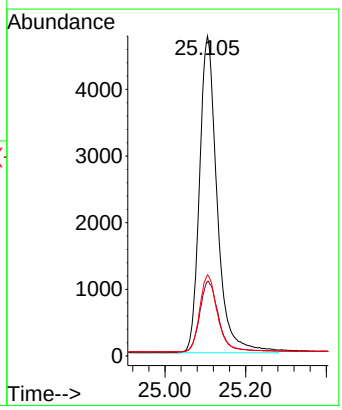
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

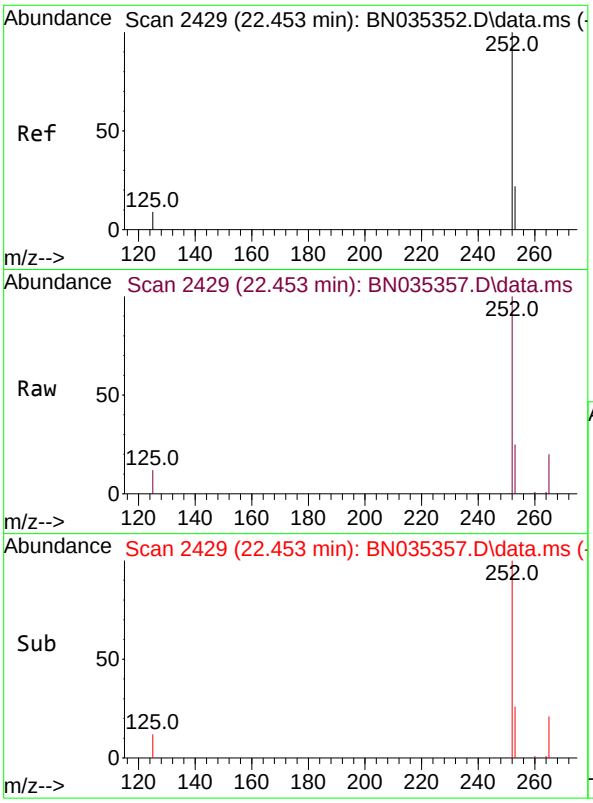



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.443 ng
RT: 25.105 min Scan# 3336
Delta R.T. -0.003 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:276 Resp: 14433

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 23.5 | 19.4 | 29.0 |
| 277 | 24.6 | 19.8 | 29.6 |

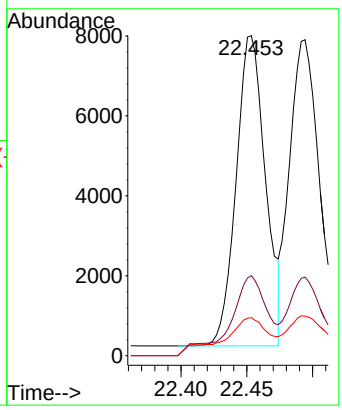





#37
Benzo(b)fluoranthene
Concen: 0.426 ng
RT: 22.453 min Scan# 24
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:252 Resp: 1298

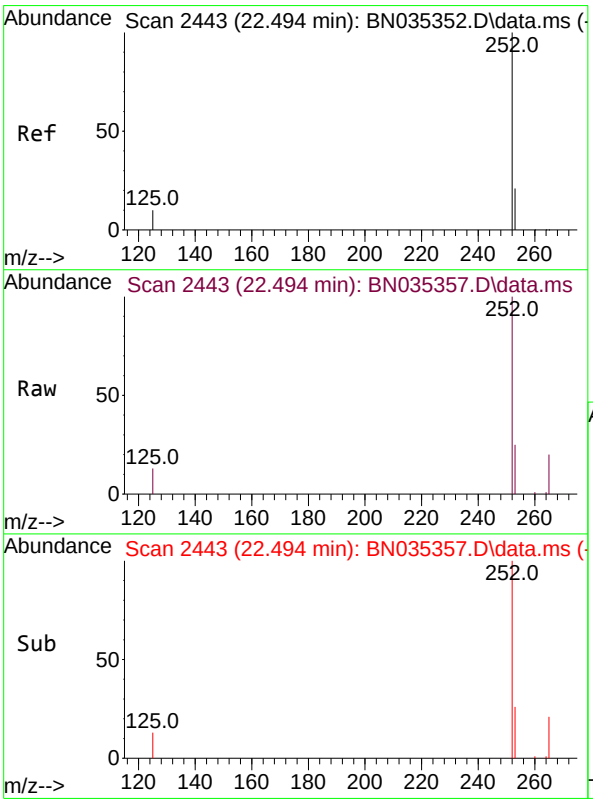
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 25.0 | 19.6 | 29.4 |
| 125 | 11.9 | 9.6 | 14.4 |




**Instrument :**
BNA_N
**ClientSampleId :**
ICVBN112724

**Manual Integrations**
**APPROVED**

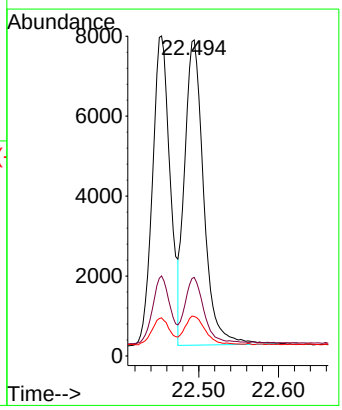
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

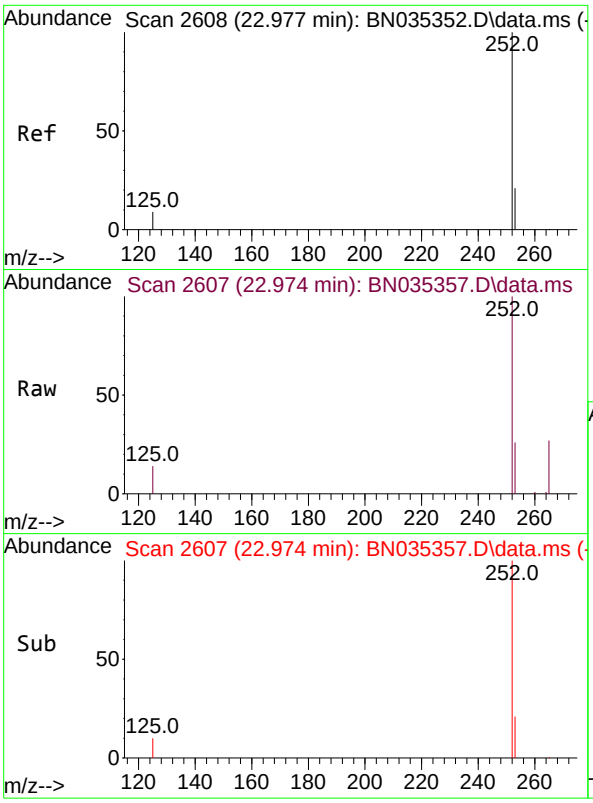



#38
Benzo(k)fluoranthene
Concen: 0.422 ng
RT: 22.494 min Scan# 2443
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:252 Resp: 12669

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 24.8 | 19.5 | 29.3 |
| 125 | 12.5 | 10.2 | 15.4 |

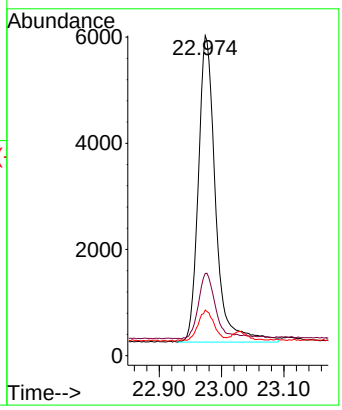





#39
Benzo(a)pyrene
Concen: 0.442 ng
RT: 22.974 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:252 Resp: 1109

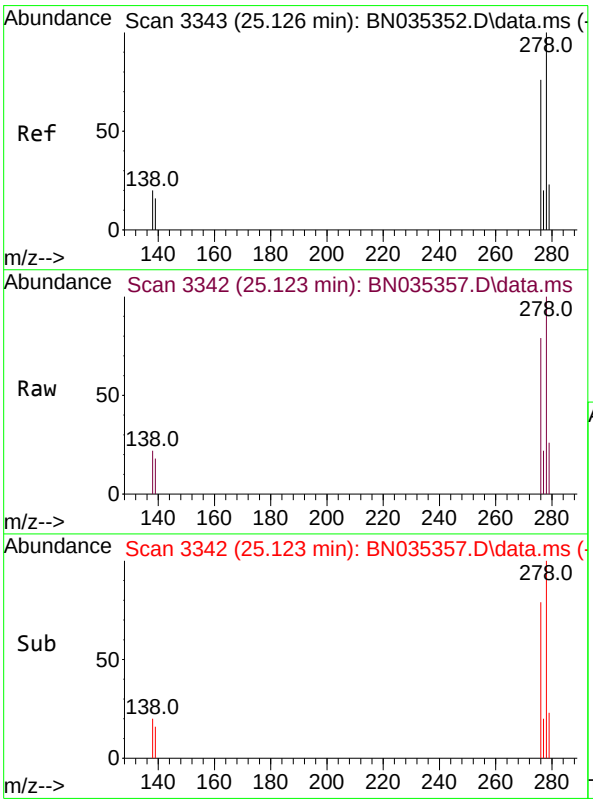
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 25.7 | 20.2 | 30.4 |
| 125 | 14.3 | 10.9 | 16.3 |




**Instrument :**
BNA_N
**ClientSampleId :**
ICVBN112724

**Manual Integrations**
**APPROVED**

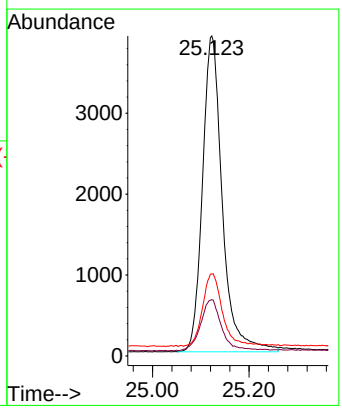
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

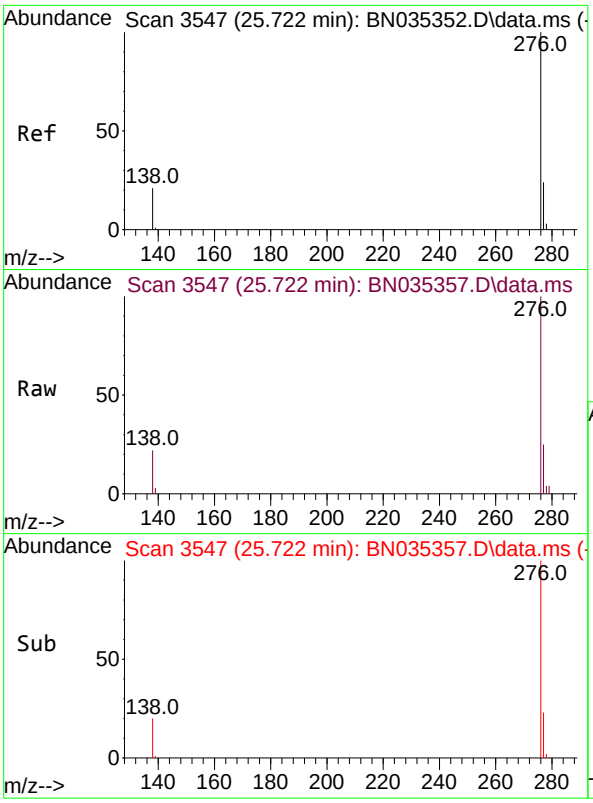



#40
Dibenzo(a,h)anthracene
Concen: 0.433 ng
RT: 25.123 min Scan# 3342
Delta R.T. -0.003 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:278 Resp: 11141

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 17.6 | 14.2 | 21.4 |
| 279 | 25.6 | 20.5 | 30.7 |

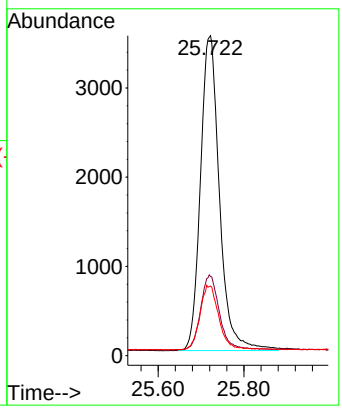





#41
Benzo(g,h,i)perylene
Concen: 0.404 ng
RT: 25.722 min Scan# 3
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:276 Resp: 1087

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 24.7 | 19.9 | 29.9 |
| 138 | 21.7 | 17.8 | 26.8 |




**Instrument :**
BNA_N
**ClientSampleId :**
ICVBN112724

**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

# Evaluate Continuing Calibration Report

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035357.D
Acq On : 27 Nov 2024 20:21
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
ICVBN112724

Quant Time: Nov 27 23:06:03 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 75 | 0.00 |
| 2 | | 1,4-Dioxane | 0.382 | 0.444 | -16.2 | 89 | 0.00 |
| 3 | | n-Nitrosodimethylamine | 0.319 | 0.321 | -0.6 | 74 | 0.00 |
| 4 | S | 2-Fluorophenol | 1.001 | 0.831 | 17.0 | 61 | 0.00 |
| 5 | S | Phenol-d6 | 1.204 | 0.933 | 22.5 | 59 | 0.00 |
| 6 | | bis(2-Chloroethyl)ether | 1.012 | 1.088 | -7.5 | 82 | 0.00 |
| 7 | I | Naphthalene-d8 | 1.000 | 1.000 | 0.0 | 75 | 0.00 |
| 8 | S | Nitrobenzene-d5 | 0.244 | 0.240 | 1.6 | 76 | 0.00 |
| 9 | | Naphthalene | 1.055 | 1.118 | -6.0 | 80 | 0.00 |
| 10 | | Hexachlorobutadiene | 0.243 | 0.257 | -5.8 | 78 | 0.00 |
| 11 | SURR | 2-Methylnaphthalene-d10 | 0.626 | 0.657 | -5.0 | 79 | 0.00 |
| 12 | | 2-Methylnaphthalene | 0.755 | 0.809 | -7.2 | 82 | 0.00 |
| 13 | I | Acenaphthene-d10 | 1.000 | 1.000 | 0.0 | 76 | 0.00 |
| 14 | S | 2,4,6-Tribromophenol | 0.284 | 0.214 | 24.6 | 63 | 0.00 |
| 15 | S | 2-Fluorobiphenyl | 1.512 | 1.614 | -6.7 | 81 | 0.00 |
| 16 | | Acenaphthylene | 1.680 | 1.827 | -8.8 | 87 | 0.00 |
| 17 | | Acenaphthene | 1.115 | 1.188 | -6.5 | 83 | 0.00 |
| 18 | | Fluorene | 1.596 | 1.676 | -5.0 | 82 | 0.00 |
| 19 | I | Phenanthrene-d10 | 1.000 | 1.000 | 0.0 | 77 | -0.01 |
| 20 | | 4,6-Dinitro-2-methylphenol | 0.039 | 0.036 | 7.7 | 78 | 0.00 |
| 21 | | 4-Bromophenyl-phenylether | 0.234 | 0.237 | -1.3 | 81 | 0.00 |
| 22 | | Hexachlorobenzene | 0.275 | 0.293 | -6.5 | 83 | 0.00 |
| 23 | | Atrazine | 0.167 | 0.167 | 0.0 | 84 | 0.00 |
| 24 | | Pentachlorophenol | 0.120 | 0.090 | 25.0 | 73 | 0.00 |
| 25 | | Phenanthrene | 1.099 | 1.158 | -5.4 | 84 | 0.00 |
| 26 | | Anthracene | 0.994 | 1.068 | -7.4 | 88 | 0.00 |
| 27 | SURR | Fluoranthene-d10 | 1.134 | 1.145 | -1.0 | 82 | 0.00 |
| 28 | | Fluoranthene | 1.481 | 1.489 | -0.5 | 81 | 0.00 |
| 29 | I | Chrysene-d12 | 1.000 | 1.000 | 0.0 | 80 | 0.00 |
| 30 | | Pyrene | 1.477 | 1.515 | -2.6 | 82 | 0.00 |
| 31 | S | Terphenyl-d14 | 0.789 | 0.828 | -4.9 | 83 | 0.00 |
| 32 | | Benzo(a)anthracene | 1.399 | 1.443 | -3.1 | 85 | 0.00 |
| 33 | | Chrysene | 1.443 | 1.574 | -9.1 | 87 | 0.00 |
| 34 | | Bis(2-ethylhexyl)phthalate | 0.553 | 0.530 | 4.2 | 82 | 0.00 |
| 35 | I | Perylene-d12 | 1.000 | 1.000 | 0.0 | 77 | 0.00 |
| 36 | | Indeno(1,2,3-cd)pyrene | 1.564 | 1.731 | -10.7 | 87 | 0.00 |
| 37 | | Benzo(b)fluoranthene | 1.463 | 1.558 | -6.5 | 91 | 0.00 |
| 38 | | Benzo(k)fluoranthene | 1.440 | 1.519 | -5.5 | 83 | 0.00 |
| 39 | C | Benzo(a)pyrene | 1.205 | 1.331 | -10.5 | 89 | 0.00 |
| 40 | | Dibenzo(a,h)anthracene | 1.234 | 1.336 | -8.3 | 86 | 0.00 |
| 41 | | Benzo(g,h,i)perylene | 1.289 | 1.304 | -1.2 | 80 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035357.D
Acq On : 27 Nov 2024 20:21
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
ICVBN112724

Quant Time: Nov 27 23:06:03 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | 1,4-Dichlorobenzene-d4 | 0.400 | 0.400 | 0.0 | 75 | 0.00 |
| 2 | | 1,4-Dioxane | 0.400 | 0.465 | -16.3 | 89 | 0.00 |
| 3 | | n-Nitrosodimethylamine | 0.400 | 0.404 | -1.0 | 74 | 0.00 |
| 4 | S | 2-Fluorophenol | 0.400 | 0.332 | 17.0 | 61 | 0.00 |
| 5 | S | Phenol-d6 | 0.400 | 0.310 | 22.5 | 59 | 0.00 |
| 6 | | bis(2-Chloroethyl)ether | 0.400 | 0.430 | -7.5 | 82 | 0.00 |
| 7 | I | Naphthalene-d8 | 0.400 | 0.400 | 0.0 | 75 | 0.00 |
| 8 | S | Nitrobenzene-d5 | 0.400 | 0.393 | 1.8 | 76 | 0.00 |
| 9 | | Naphthalene | 0.400 | 0.424 | -6.0 | 80 | 0.00 |
| 10 | | Hexachlorobutadiene | 0.400 | 0.423 | -5.7 | 78 | 0.00 |
| 11 | SURR | 2-Methylnaphthalene-d10 | 0.400 | 0.420 | -5.0 | 79 | 0.00 |
| 12 | | 2-Methylnaphthalene | 0.400 | 0.428 | -7.0 | 82 | 0.00 |
| 13 | I | Acenaphthene-d10 | 0.400 | 0.400 | 0.0 | 76 | 0.00 |
| 14 | S | 2,4,6-Tribromophenol | 0.400 | 0.302 | 24.5 | 63 | 0.00 |
| 15 | S | 2-Fluorobiphenyl | 0.400 | 0.427 | -6.7 | 81 | 0.00 |
| 16 | | Acenaphthylene | 0.400 | 0.435 | -8.7 | 87 | 0.00 |
| 17 | | Acenaphthene | 0.400 | 0.426 | -6.5 | 83 | 0.00 |
| 18 | | Fluorene | 0.400 | 0.420 | -5.0 | 82 | 0.00 |
| 19 | I | Phenanthrene-d10 | 0.400 | 0.400 | 0.0 | 77 | -0.01 |
| 20 | | 4,6-Dinitro-2-methylphenol | 0.400 | 0.364 | 9.0 | 78 | 0.00 |
| 21 | | 4-Bromophenyl-phenylether | 0.400 | 0.405 | -1.3 | 81 | 0.00 |
| 22 | | Hexachlorobenzene | 0.400 | 0.426 | -6.5 | 83 | 0.00 |
| 23 | | Atrazine | 0.400 | 0.401 | -0.3 | 84 | 0.00 |
| 24 | | Pentachlorophenol | 0.400 | 0.301 | 24.8 | 73 | 0.00 |
| 25 | | Phenanthrene | 0.400 | 0.421 | -5.2 | 84 | 0.00 |
| 26 | | Anthracene | 0.400 | 0.430 | -7.5 | 88 | 0.00 |
| 27 | SURR | Fluoranthene-d10 | 0.400 | 0.404 | -1.0 | 82 | 0.00 |
| 28 | | Fluoranthene | 0.400 | 0.402 | -0.5 | 81 | 0.00 |
| 29 | I | Chrysene-d12 | 0.400 | 0.400 | 0.0 | 80 | 0.00 |
| 30 | | Pyrene | 0.400 | 0.410 | -2.5 | 82 | 0.00 |
| 31 | S | Terphenyl-d14 | 0.400 | 0.420 | -5.0 | 83 | 0.00 |
| 32 | | Benzo(a)anthracene | 0.400 | 0.413 | -3.2 | 85 | 0.00 |
| 33 | | Chrysene | 0.400 | 0.436 | -9.0 | 87 | 0.00 |
| 34 | | Bis(2-ethylhexyl)phthalate | 0.400 | 0.384 | 4.0 | 82 | 0.00 |
| 35 | I | Perylene-d12 | 0.400 | 0.400 | 0.0 | 77 | 0.00 |
| 36 | | Indeno(1,2,3-cd)pyrene | 0.400 | 0.443 | -10.7 | 87 | 0.00 |
| 37 | | Benzo(b)fluoranthene | 0.400 | 0.426 | -6.5 | 91 | 0.00 |
| 38 | | Benzo(k)fluoranthene | 0.400 | 0.422 | -5.5 | 83 | 0.00 |
| 39 | C | Benzo(a)pyrene | 0.400 | 0.442 | -10.5 | 89 | 0.00 |
| 40 | | Dibenzo(a,h)anthracene | 0.400 | 0.433 | -8.2 | 86 | 0.00 |
| 41 | | Benzo(g,h,i)perylene | 0.400 | 0.404 | -1.0 | 80 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: P5376 SAS No.: P5376 SDG No.: P5376

Instrument ID: BNA_N Calibration Date/Time: 12/24/2024 08:59

Lab File ID: BN035811.D Init. Calib. Date(s): 11/27/2024 11/27/2024

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 15:34 19:09

GC Column: ZB-GR ID: 0.25 (mm)

| COMPOUND | RRF | RRF0.4 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| 2-Methylnaphthalene-d10 | 0.626 | 0.541 | | -13.6 | 20.0 |
| Fluoranthene-d10 | 1.134 | 0.953 | | -16.0 | 20.0 |
| 2-Fluorophenol | 1.001 | 0.931 | | -7.0 | 20.0 |
| Phenol-d6 | 1.204 | 1.289 | | 7.1 | 20.0 |
| Nitrobenzene-d5 | 0.244 | 0.285 | | 16.8 | 20.0 |
| 2-Fluorobiphenyl | 1.512 | 1.523 | | 0.7 | 20.0 |
| 2,4,6-Tribromophenol | 0.284 | 0.214 | | -24.6 | 20.0 |
| Terphenyl-d14 | 0.789 | 0.804 | | 1.9 | 20.0 |
| 1,4-Dioxane | 0.382 | 0.457 | | 19.6 | 20.0 |

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035811.D
Acq On : 24 Dec 2024 08:59
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Dec 24 23:16:14 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.264 | 152 | 3972 | 0.400 | ng | | 0.00 |
| 7) Naphthalene-d8 | 9.998 | 136 | 9483 | 0.400 | ng | | -0.02 |
| 13) Acenaphthene-d10 | 13.924 | 164 | 5387 | 0.400 | ng | | -0.01 |
| 19) Phenanthrene-d10 | 16.698 | 188 | 10855 | 0.400 | ng | | # 0.00 |
| 29) Chrysene-d12 | 20.947 | 240 | 8569 | 0.400 | ng | | 0.00 |
| 35) Perylene-d12 | 23.029 | 264 | 8879 | 0.400 | ng | | #-0.01 |
| System Monitoring Compounds | | | | | | | |
| 4) 2-Fluorophenol | 4.924 | 112 | 3699 | 0.372 | ng | | -0.01 |
| 5) Phenol-d6 | 6.470 | 99 | 5118 | 0.428 | ng | | -0.02 |
| 8) Nitrobenzene-d5 | 8.397 | 82 | 2707m | 0.467 | ng | | -0.01 |
| 11) 2-Methylnaphthalene-d10 | 11.610 | 152 | 5128 | 0.346 | ng | | -0.01 |
| 14) 2,4,6-Tribromophenol | 15.442 | 330 | 1155 | 0.302 | ng | | -0.01 |
| 15) 2-Fluorobiphenyl | 12.533 | 172 | 8203 | 0.403 | ng | | -0.01 |
| 27) Fluoranthene-d10 | 18.752 | 212 | 10340 | 0.336 | ng | | 0.00 |
| 31) Terphenyl-d14 | 19.384 | 244 | 6888 | 0.407 | ng | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 2.974 | 88 | 1814 | 0.478 | ng | | 98 |
| 3) n-Nitrosodimethylamine | 3.270 | 42 | 1302 | 0.412 | ng | # | 91 |
| 6) bis(2-Chloroethyl)ether | 6.715 | 93 | 3672 | 0.366 | ng | | 99 |
| 9) Naphthalene | 10.052 | 128 | 9671 | 0.387 | ng | | 99 |
| 10) Hexachlorobutadiene | 10.340 | 225 | 2548 | 0.442 | ng | # | 100 |
| 12) 2-Methylnaphthalene | 11.686 | 142 | 6060 | 0.338 | ng | | 100 |
| 16) Acenaphthylene | 13.636 | 152 | 8415 | 0.372 | ng | | 100 |
| 17) Acenaphthene | 13.978 | 154 | 5782 | 0.385 | ng | | 99 |
| 18) Fluorene | 14.993 | 166 | 7456 | 0.347 | ng | | 100 |
| 20) 4,6-Dinitro-2-methylph... | 15.122 | 198 | 244 | 0.229 | ng | # | 7 |
| 21) 4-Bromophenyl-phenylether | 15.904 | 248 | 2379 | 0.375 | ng | # | 93 |
| 22) Hexachlorobenzene | 16.003 | 284 | 3393 | 0.455 | ng | | 97 |
| 23) Atrazine | 16.202 | 200 | 1640 | 0.363 | ng | | 96 |
| 24) Pentachlorophenol | 16.363 | 266 | 1040 | 0.321 | ng | | 87 |
| 25) Phenanthrene | 16.735 | 178 | 10950 | 0.367 | ng | | 99 |
| 26) Anthracene | 16.835 | 178 | 9488 | 0.352 | ng | | 100 |
| 28) Fluoranthene | 18.780 | 202 | 13421 | 0.334 | ng | | 99 |
| 30) Pyrene | 19.151 | 202 | 13577 | 0.429 | ng | | 100 |
| 32) Benzo(a)anthracene | 20.929 | 228 | 9796 | 0.327 | ng | | 99 |
| 33) Chrysene | 20.982 | 228 | 13234 | 0.428 | ng | | 99 |
| 34) Bis(2-ethylhexyl)phtha... | 20.893 | 149 | 4719 | 0.399 | ng | | 100 |
| 36) Indeno(1,2,3-cd)pyrene | 25.049 | 276 | 12494 | 0.360 | ng | | 99 |
| 37) Benzo(b)fluoranthene | 22.418 | 252 | 16964 | 0.522 | ng | # | 95 |
| 38) Benzo(k)fluoranthene | 22.459 | 252 | 13236m | 0.414 | ng | | |
| 39) Benzo(a)pyrene | 22.939 | 252 | 10000 | 0.374 | ng | # | 91 |
| 40) Dibenzo(a,h)anthracene | 25.073 | 278 | 8960 | 0.327 | ng | | 94 |
| 41) Benzo(g,h,i)perylene | 25.658 | 276 | 11606 | 0.405 | ng | | 99 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

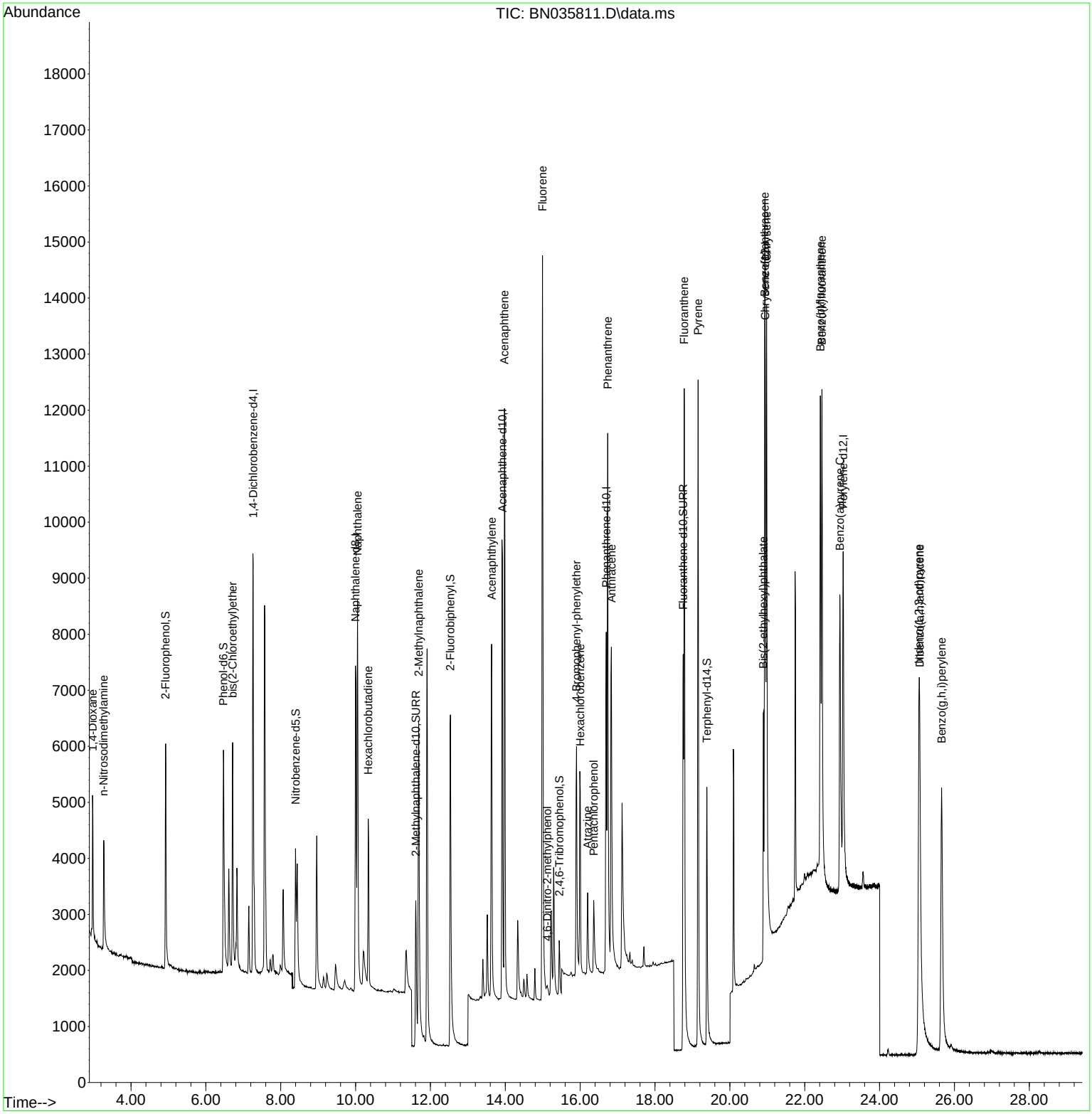
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035811.D
Acq On : 24 Dec 2024 08:59
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 22 Sample Multiplier: 1

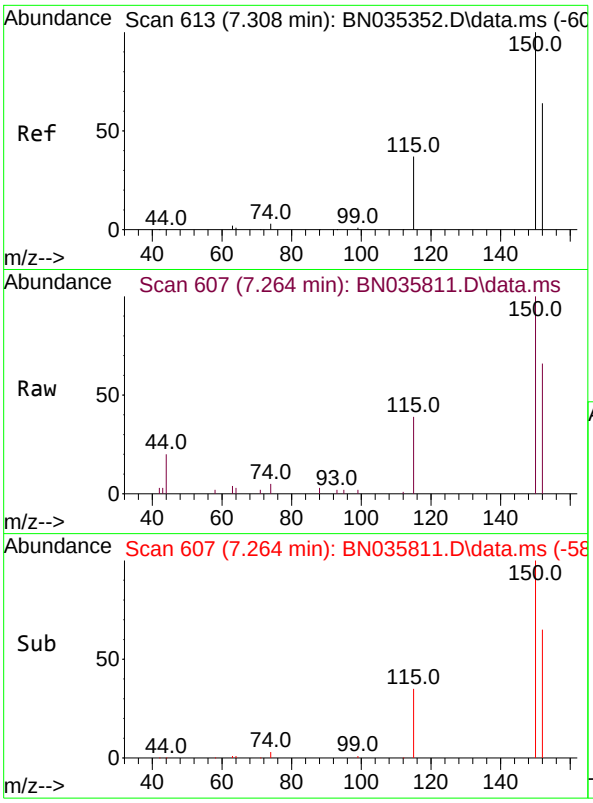
Quant Time: Dec 24 23:16:14 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

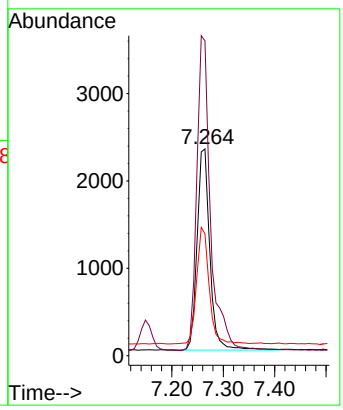





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.264 min Scan# 6
Delta R.T. -0.008 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:152 Resp: 397

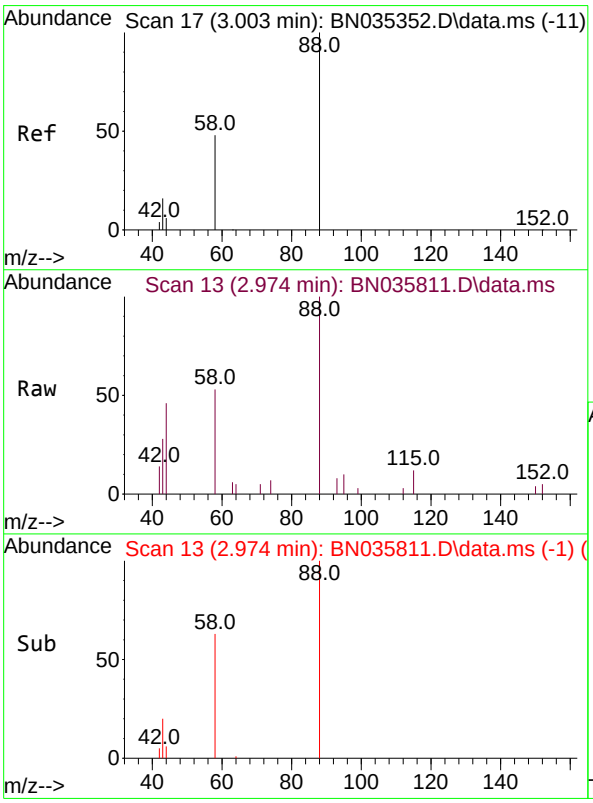
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 152.3 | 124.0 | 186.0 |
| 115 | 58.9 | 49.6 | 74.4 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations**
**APPROVED**

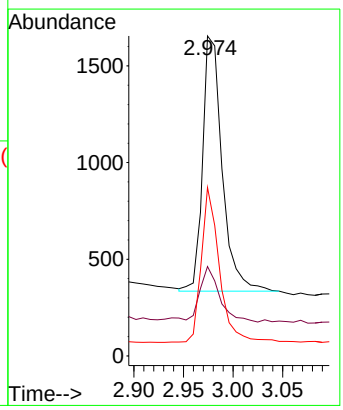
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

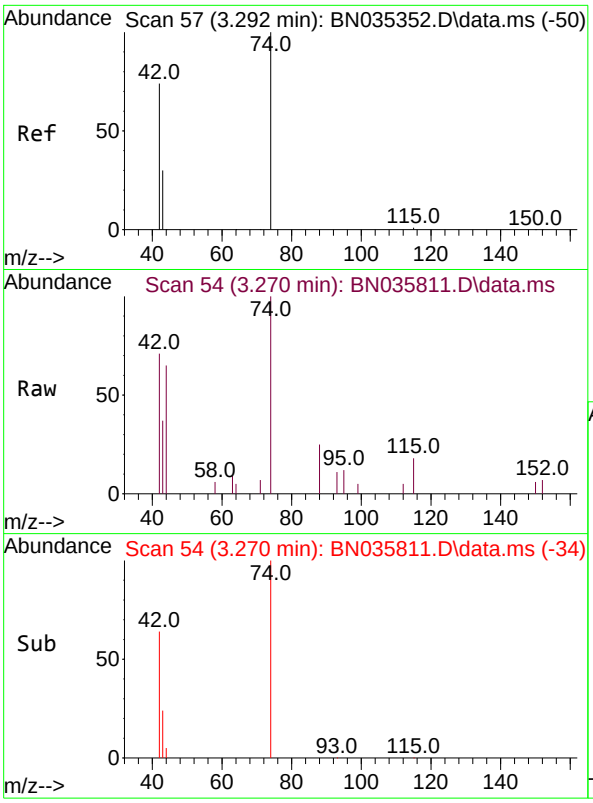



#2
1,4-Dioxane
Concen: 0.478 ng
RT: 2.974 min Scan# 13
Delta R.T. -0.007 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion: 88 Resp: 1814

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 23.2 | 17.2 | 25.8 |
| 58 | 56.2 | 44.5 | 66.7 |

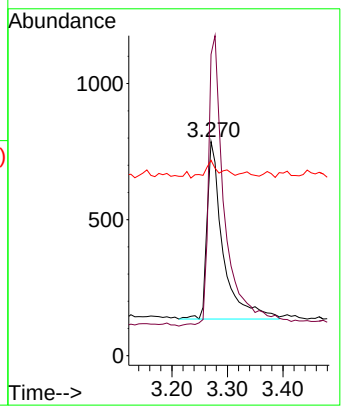





#3
n-Nitrosodimethylamine
Concen: 0.412 ng
RT: 3.270 min Scan# 54
Delta R.T. -0.007 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

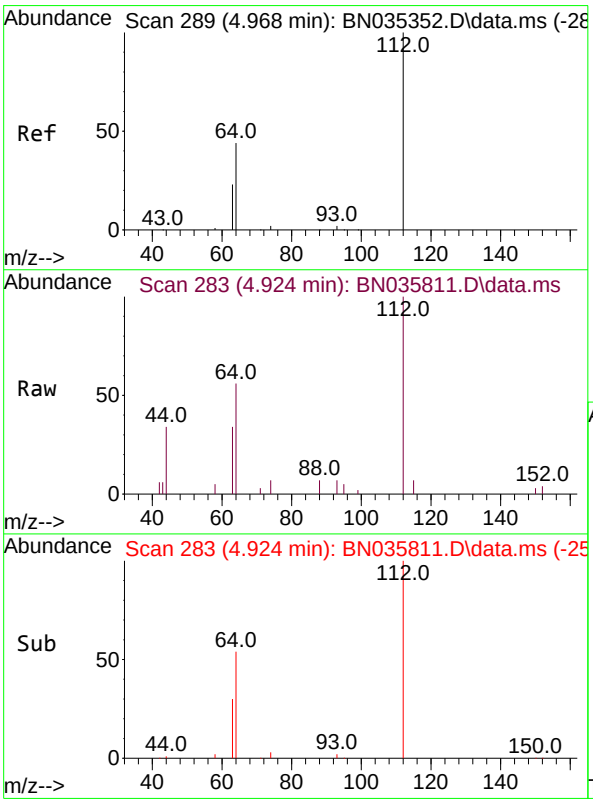
Tgt Ion: 42 Resp: 130

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 167.4 | 124.9 | 187.3 |
| 44 | 5.4 | 2.2 | 3.4 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

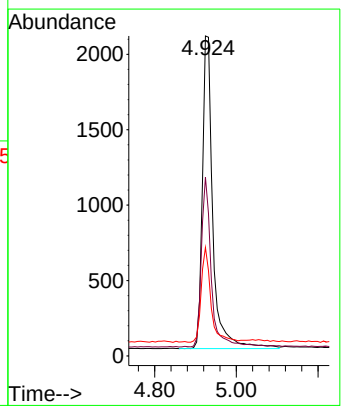
**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

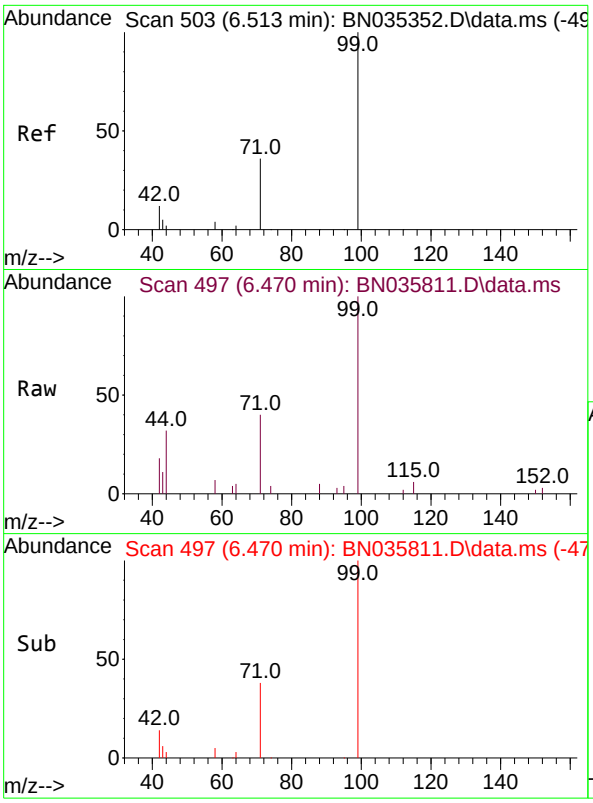



#4
2-Fluorophenol
Concen: 0.372 ng
RT: 4.924 min Scan# 283
Delta R.T. -0.015 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:112 Resp: 3699

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 51.2 | 39.8 | 59.8 |
| 63 | 27.9 | 21.0 | 31.6 |

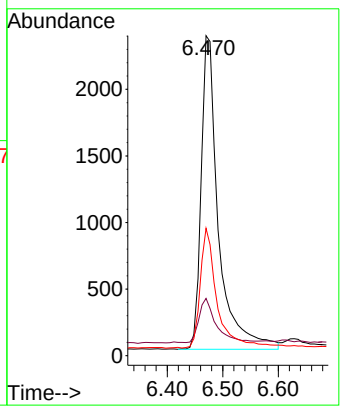





#5
Phenol-d6
Concen: 0.428 ng
RT: 6.470 min Scan# 4
Delta R.T. -0.022 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion: 99 Resp: 511

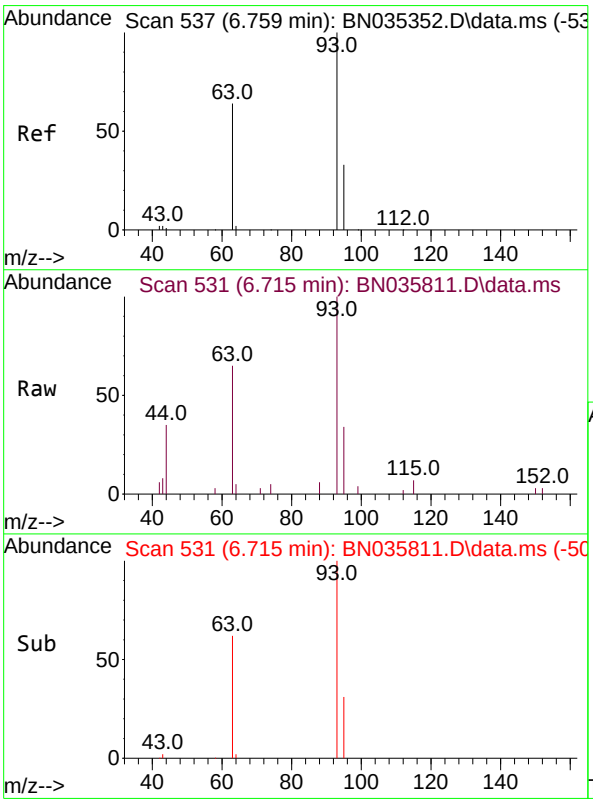
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 13.7 | 11.4 | 17.2 |
| 71 | 38.3 | 29.3 | 43.9 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations**
**APPROVED**

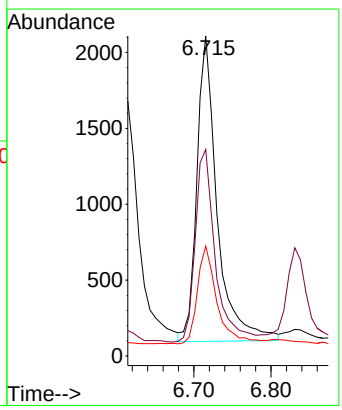
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

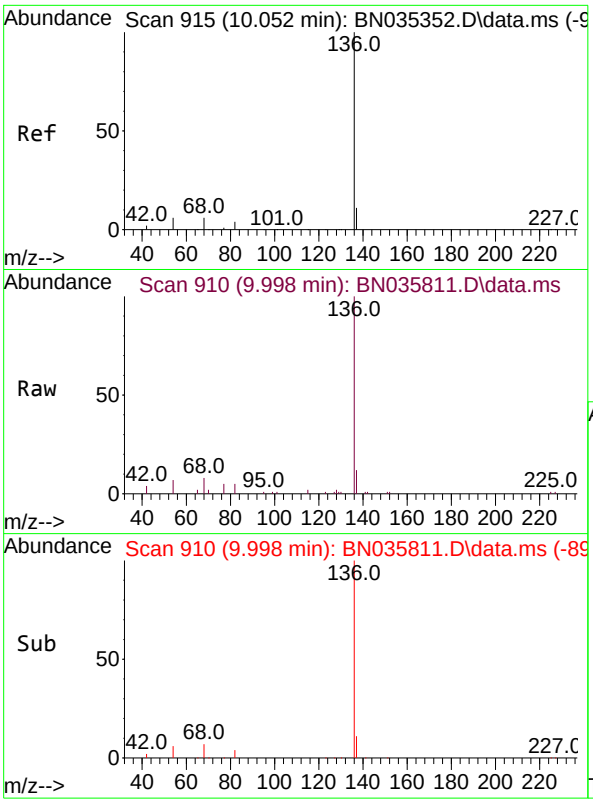



#6
bis(2-Chloroethyl)ether
Concen: 0.366 ng
RT: 6.715 min Scan# 531
Delta R.T. -0.015 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion: 93 Resp: 3672

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 62.3 | 50.4 | 75.6 |
| 95 | 30.7 | 25.7 | 38.5 |

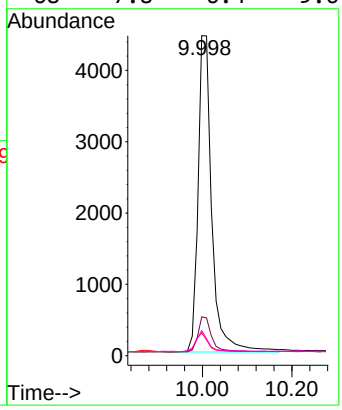





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 9.998 min Scan# 91
Delta R.T. -0.022 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

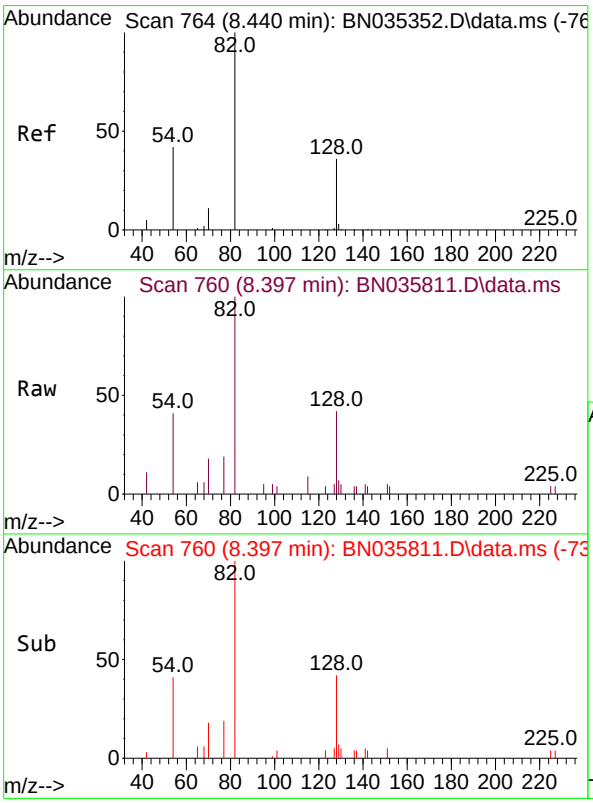
Tgt Ion:136 Resp: 948

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 12.1 | 10.2 | 15.2 |
| 54 | 7.1 | 6.1 | 9.1 |
| 68 | 7.8 | 6.4 | 9.6 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

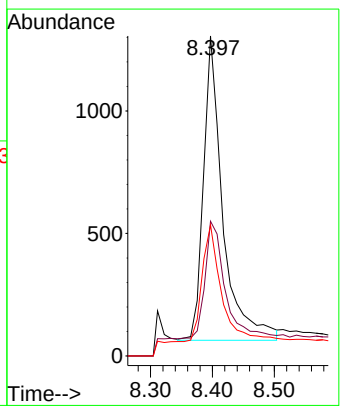
**Manual Integrations**
**APPROVED**
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

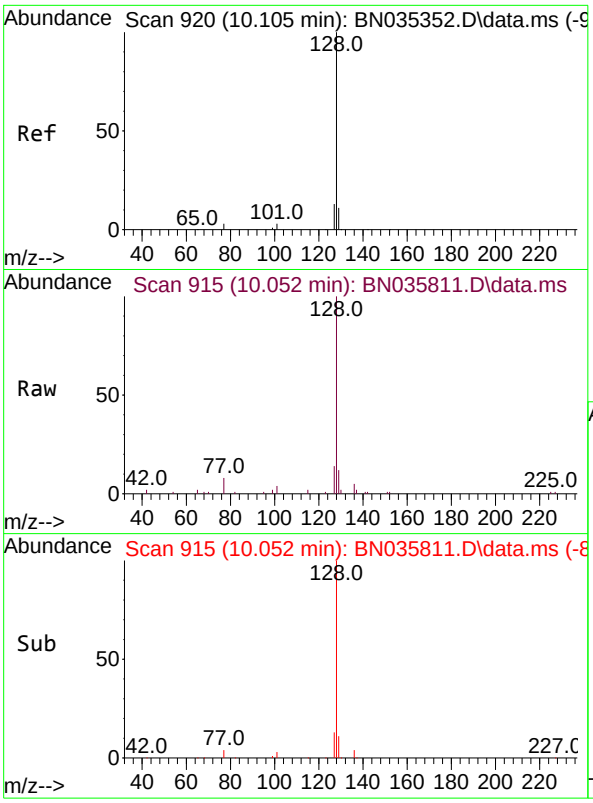



#8
Nitrobenzene-d5
Concen: 0.467 ng m
RT: 8.397 min Scan# 760
Delta R.T. -0.011 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion: 82 Resp: 2707

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 42.1 | 33.4 | 50.0 |
| 54 | 41.0 | 36.7 | 55.1 |

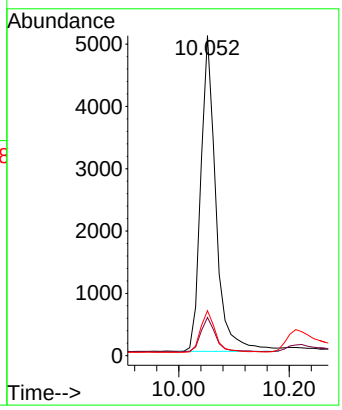





#9
Naphthalene
Concen: 0.387 ng
RT: 10.052 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:128 Resp: 967

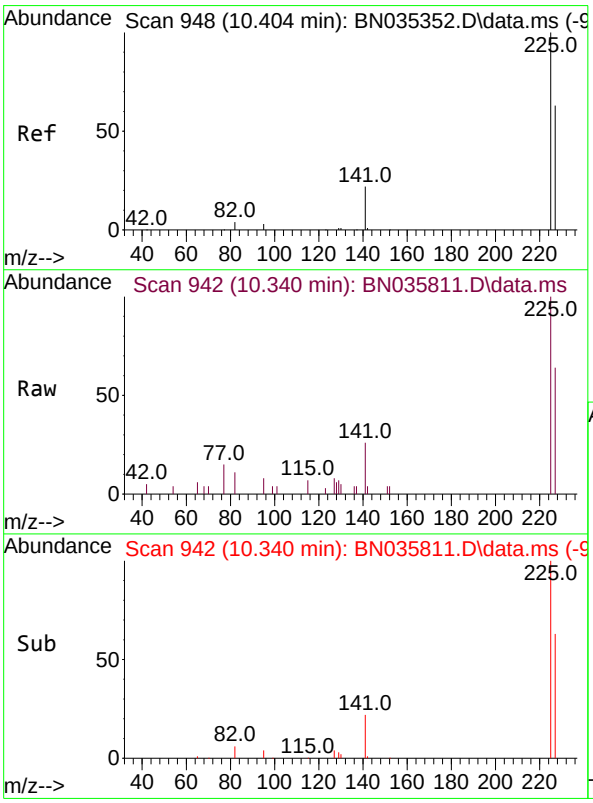
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 11.9 | 9.8 | 14.6 |
| 127 | 14.1 | 11.4 | 17.2 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations**
**APPROVED**

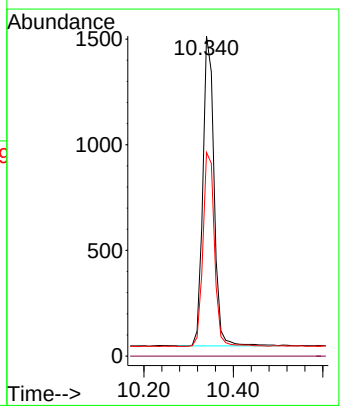
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

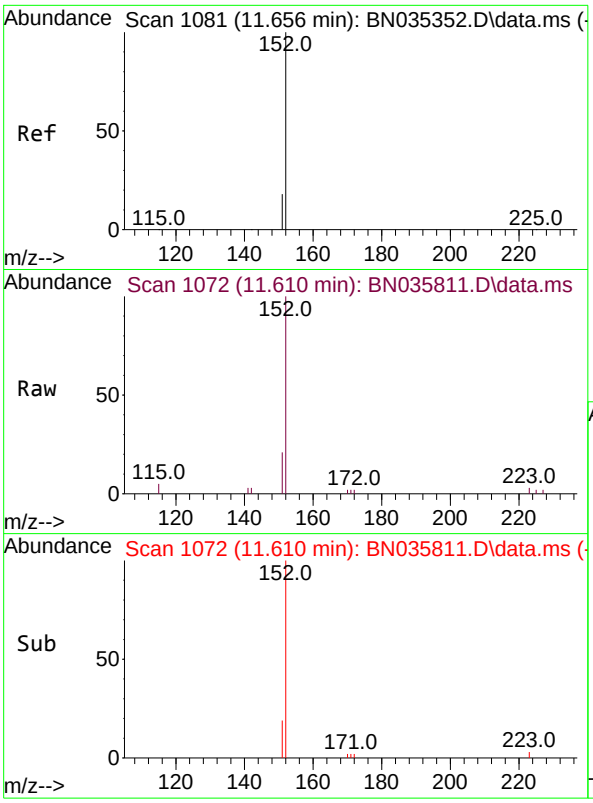



#10
Hexachlorobutadiene
Concen: 0.442 ng
RT: 10.340 min Scan# 942
Delta R.T. -0.022 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:225 Resp: 2548

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 0.0 | 0.0 | 0.0 |
| 227 | 64.3 | 51.3 | 76.9 |

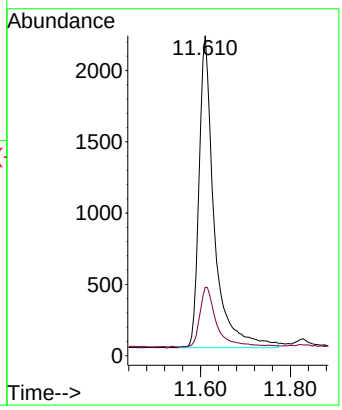





#11
2-Methylnaphthalene-d10
Concen: 0.346 ng
RT: 11.610 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:152 Resp: 512

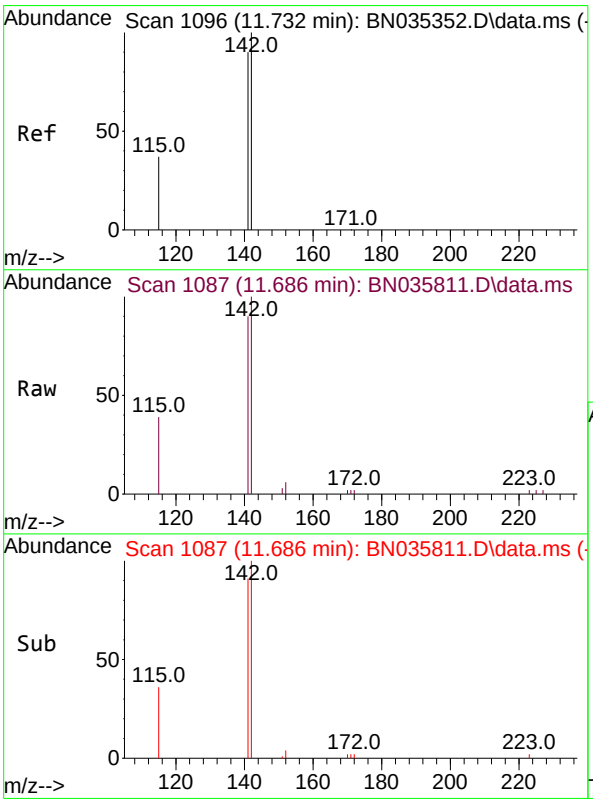
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.9 | 16.6 | 25.0 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations**
**APPROVED**

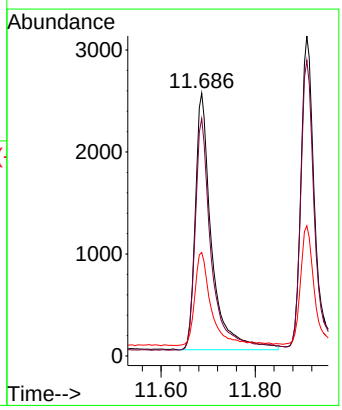
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

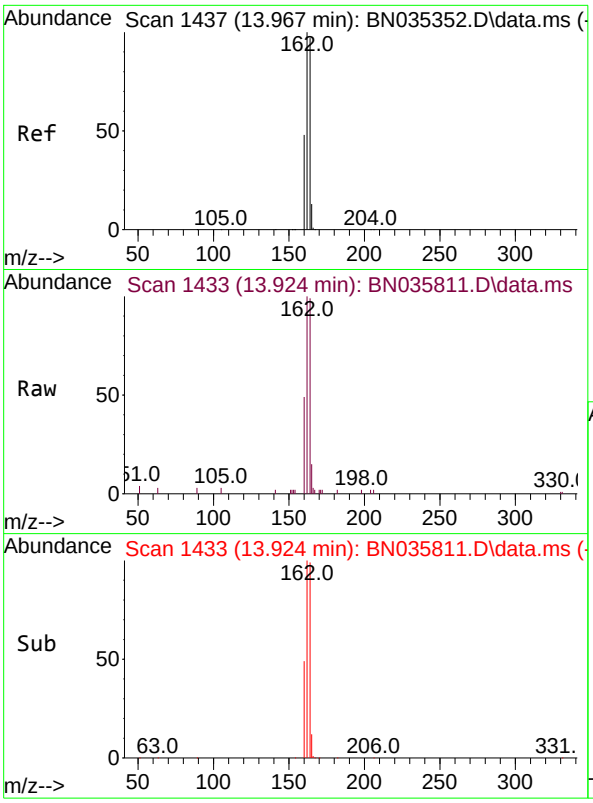



#12
2-Methylnaphthalene
Concen: 0.338 ng
RT: 11.686 min Scan# 1087
Delta R.T. -0.010 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:142 Resp: 6060

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 90.3 | 72.2 | 108.4 |
| 115 | 39.4 | 31.4 | 47.0 |

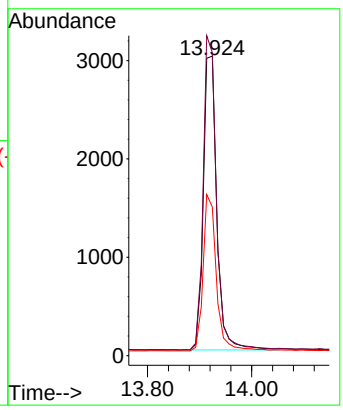





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.924 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:164 Resp: 538

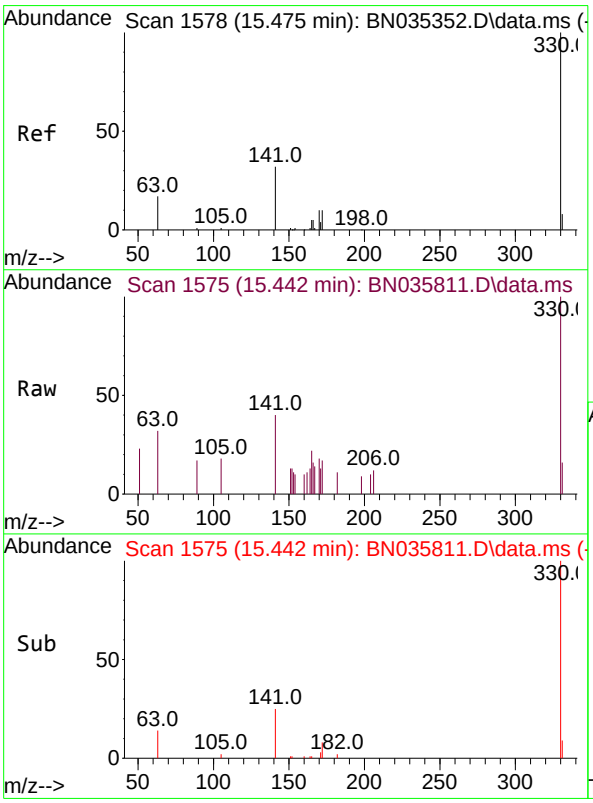
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 101.1 | 82.2 | 123.2 |
| 160 | 49.7 | 40.1 | 60.1 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations**
**APPROVED**

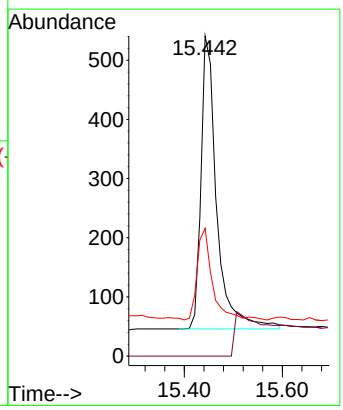
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

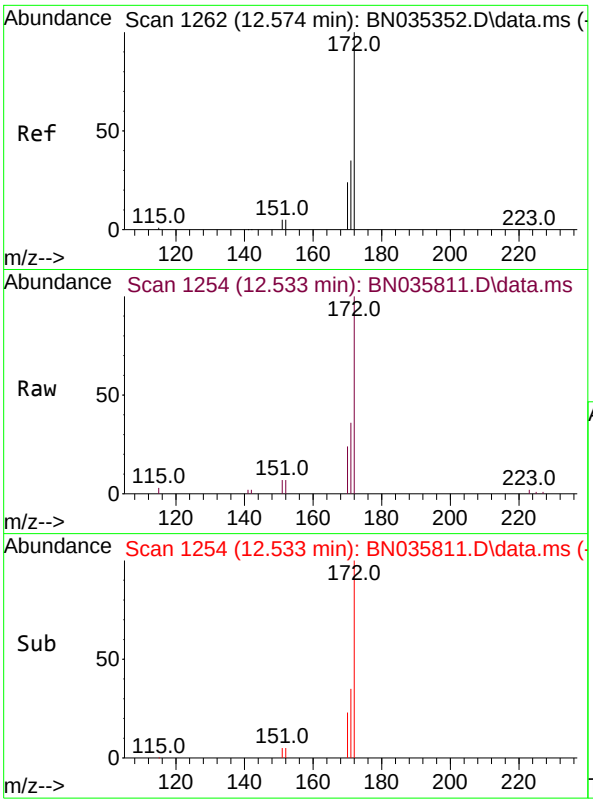



#14
2,4,6-Tribromophenol
Concen: 0.302 ng
RT: 15.442 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:330 Resp: 1155

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 0.0 | 0.0 | 0.0 |
| 141 | 30.2 | 26.6 | 40.0 |

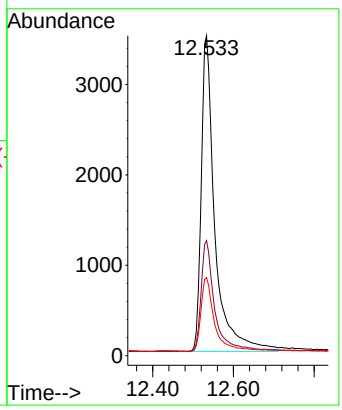





#15
2-Fluorobiphenyl
Concen: 0.403 ng
RT: 12.533 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:172 Resp: 820

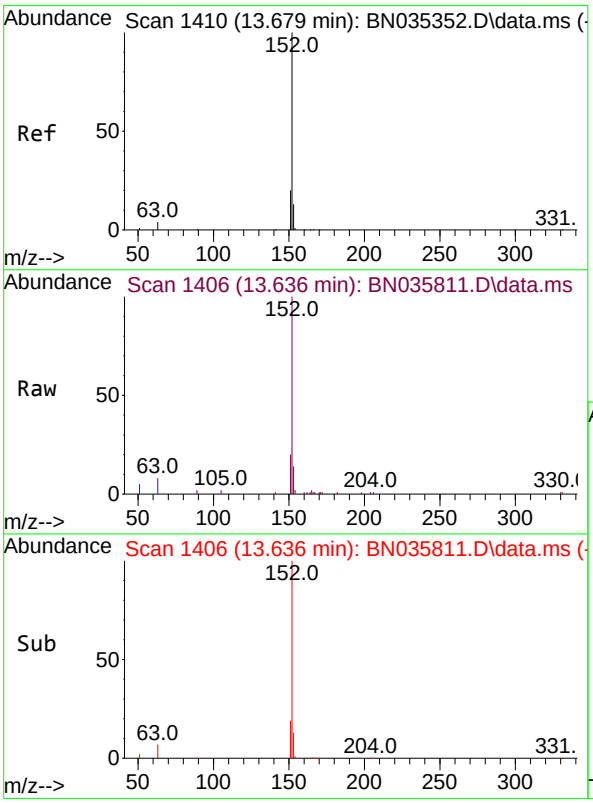
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 36.0 | 29.0 | 43.4 |
| 170 | 24.4 | 19.8 | 29.8 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations**
**APPROVED**

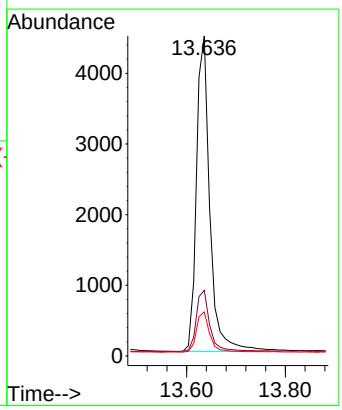
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

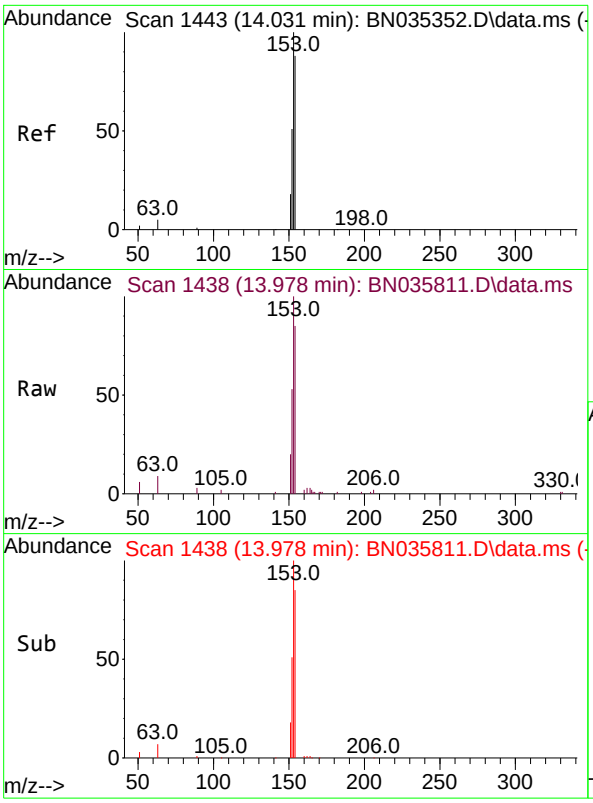



#16
Acenaphthylene
Concen: 0.372 ng
RT: 13.636 min Scan# 1406
Delta R.T. -0.011 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:152 Resp: 8415

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.0 | 16.2 | 24.2 |
| 153 | 13.0 | 10.4 | 15.6 |

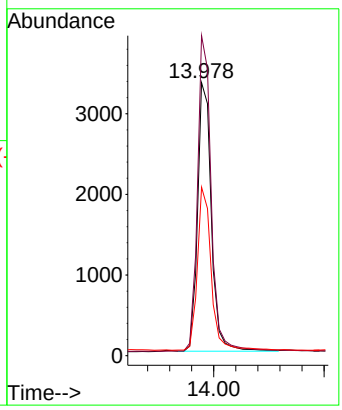





#17
Acenaphthene
Concen: 0.385 ng
RT: 13.978 min Scan# 14
Delta R.T. -0.022 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:154 Resp: 578

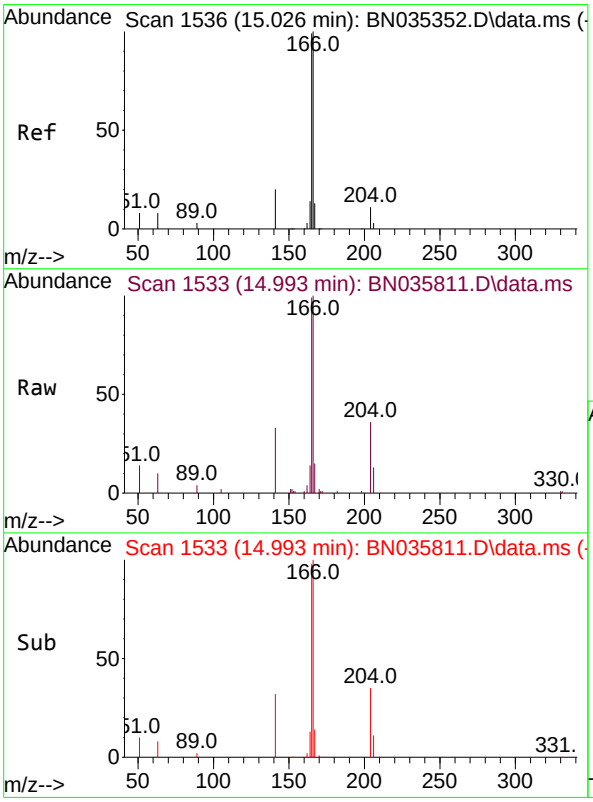
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 117.6 | 92.6 | 139.0 |
| 152 | 60.7 | 49.0 | 73.6 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations**
**APPROVED**

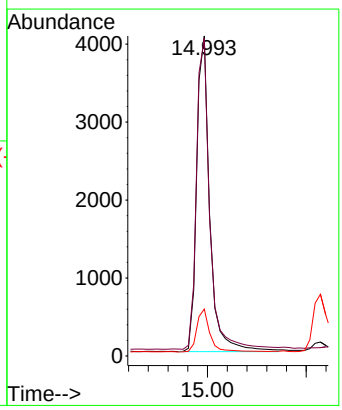
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

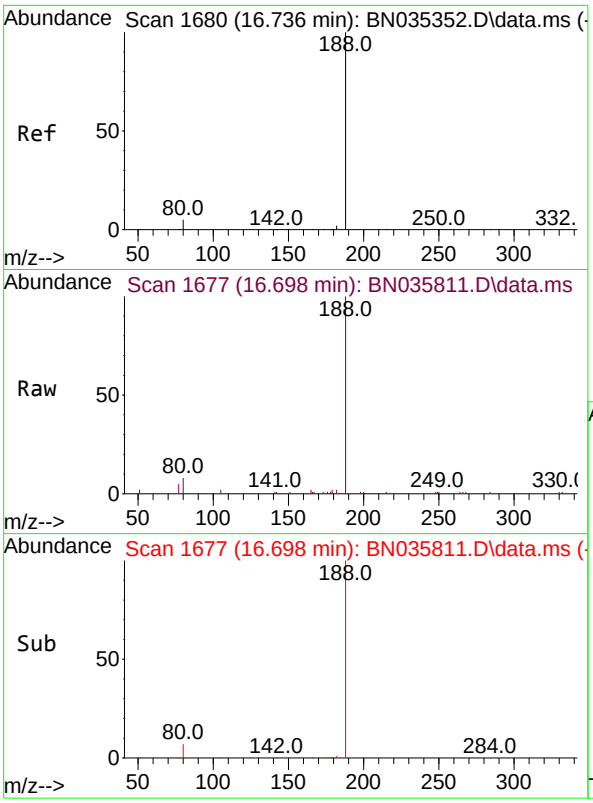



#18
Fluorene
Concen: 0.347 ng
RT: 14.993 min Scan# 1533
Delta R.T. -0.011 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:166 Resp: 7456

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 99.4 | 79.7 | 119.5 |
| 167 | 13.7 | 10.8 | 16.2 |

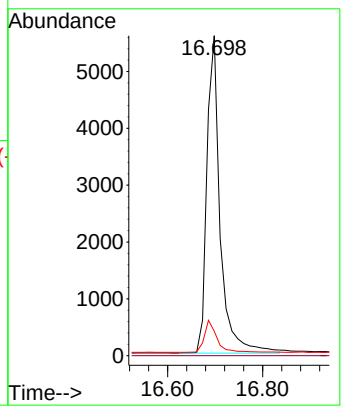





#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:188 Resp: 1085

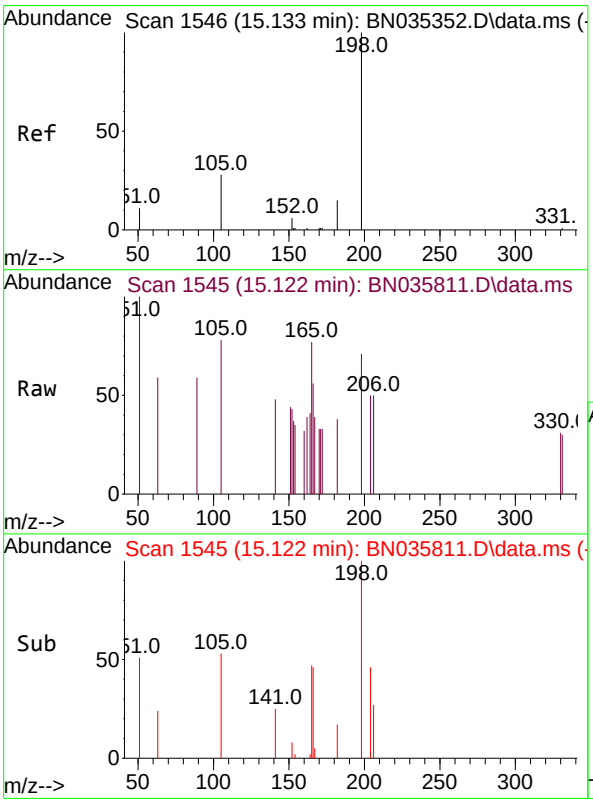
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 7.7 | 4.6 | 6.8# |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations**
**APPROVED**

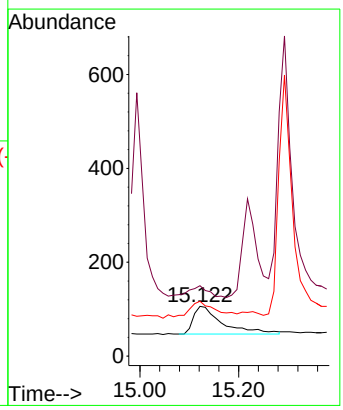
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

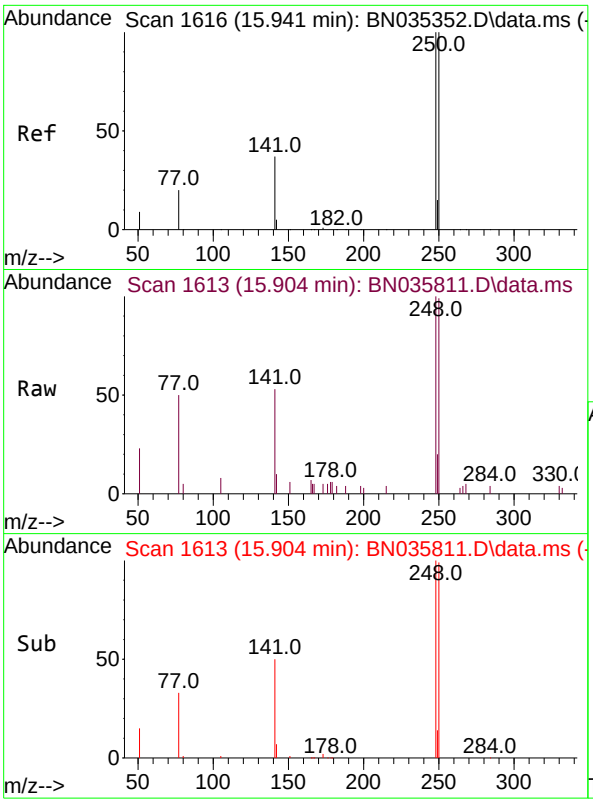



#20
4,6-Dinitro-2-methylphenol
Concen: 0.229 ng
RT: 15.122 min Scan# 1545
Delta R.T. -0.000 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:198 Resp: 244

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 198 | 100 | | |
| 51 | 141.5 | 46.5 | 69.7# |
| 105 | 110.4 | 45.3 | 67.9# |

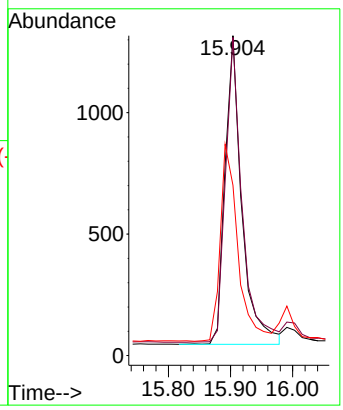





#21
4-Bromophenyl-phenylether
Concen: 0.375 ng
RT: 15.904 min Scan# 1(
Delta R.T. -0.013 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:248 Resp: 237

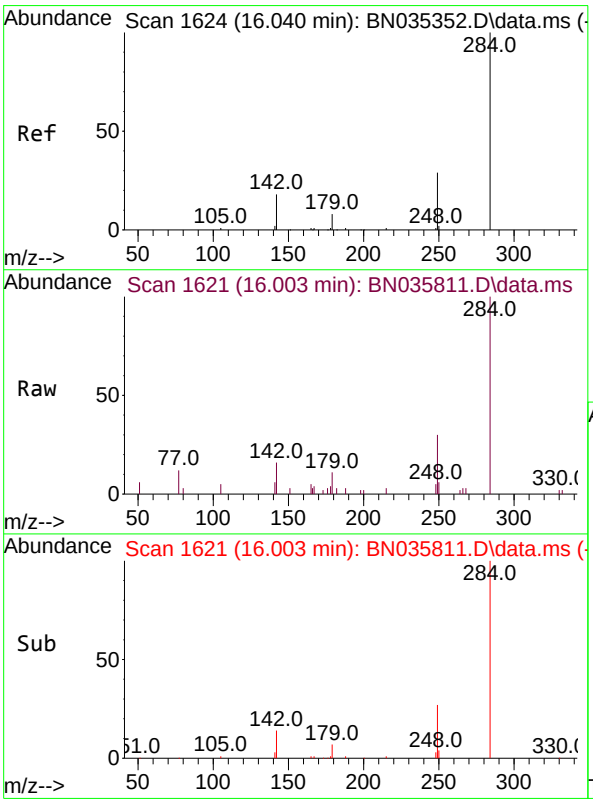
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 99.5 | 80.6 | 120.8 |
| 141 | 53.2 | 31.5 | 47.3# |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations**
**APPROVED**

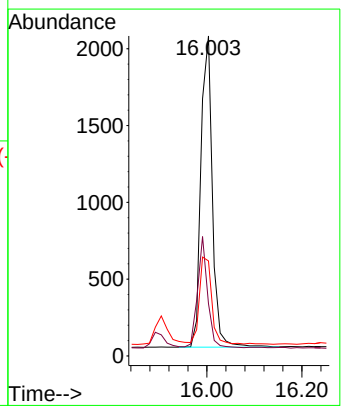
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

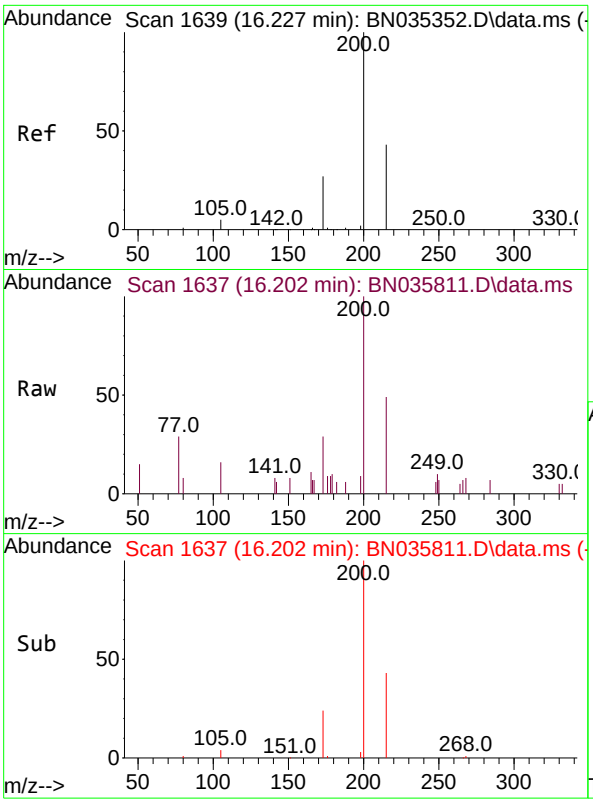



#22
Hexachlorobenzene
Concen: 0.455 ng
RT: 16.003 min Scan# 1621
Delta R.T. -0.013 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:284 Resp: 3393

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 31.1 | 26.7 | 40.1 |
| 249 | 30.0 | 24.6 | 36.8 |

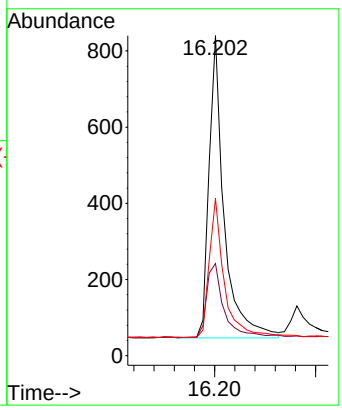





#23
Atrazine
Concen: 0.363 ng
RT: 16.202 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:200 Resp: 164(

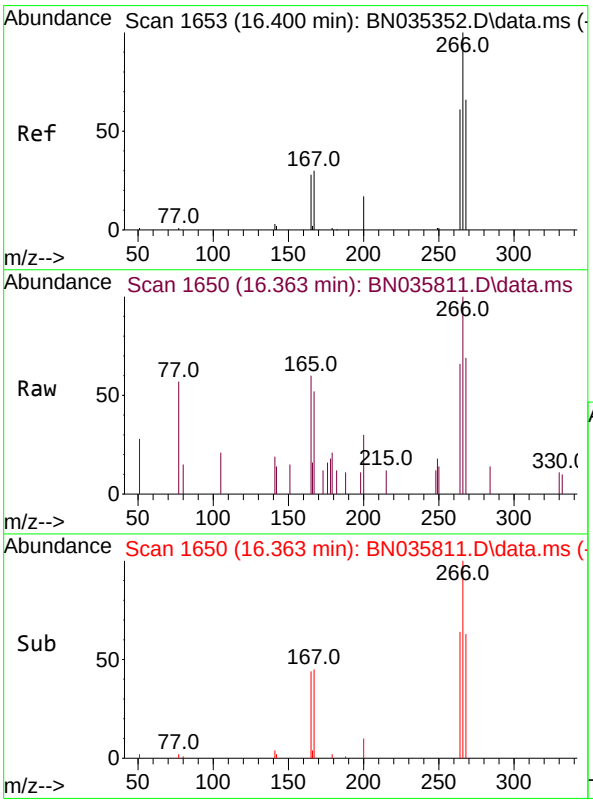
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 173 | 28.8 | 24.1 | 36.1 |
| 215 | 49.2 | 36.9 | 55.3 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations**
**APPROVED**

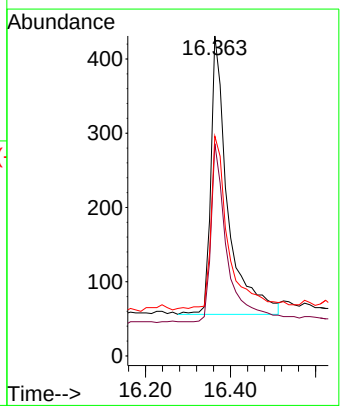
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

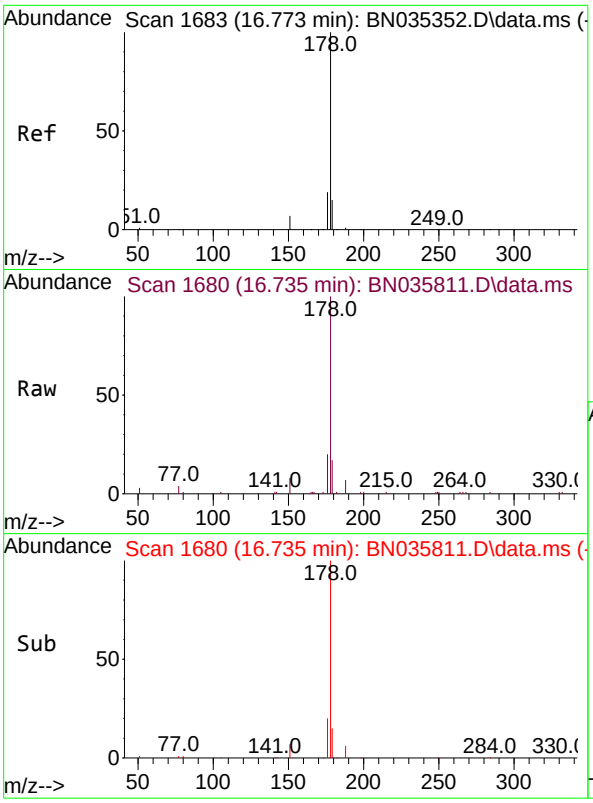



#24
Pentachlorophenol
Concen: 0.321 ng
RT: 16.363 min Scan# 1650
Delta R.T. -0.013 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:266 Resp: 1040

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 264 | 61.4 | 42.3 | 63.5 |
| 268 | 64.5 | 43.3 | 64.9 |

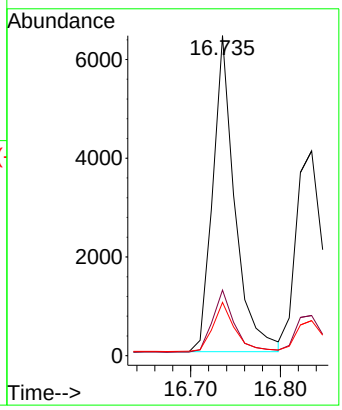





#25
Phenanthrene
Concen: 0.367 ng
RT: 16.735 min Scan# 1(
Delta R.T. -0.013 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:178 Resp: 1095(

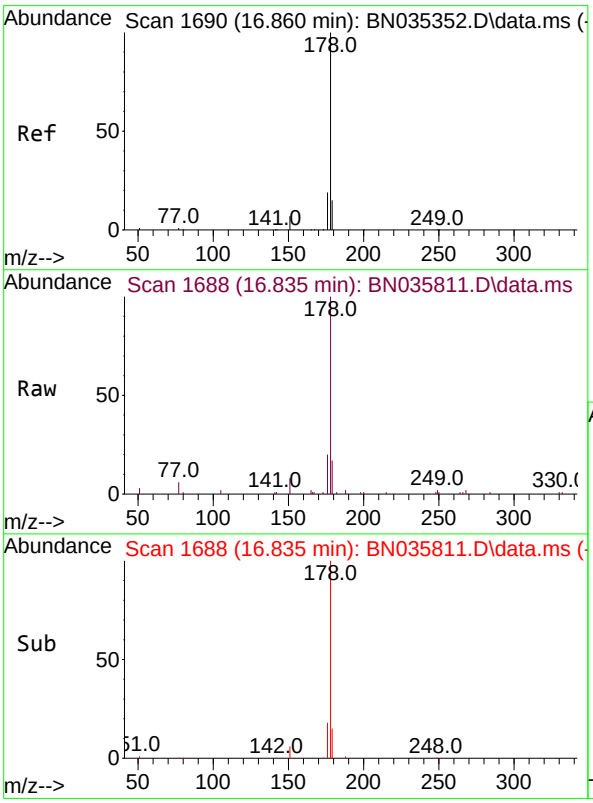
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.6 | 15.4 | 23.2 |
| 179 | 15.5 | 12.3 | 18.5 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations**
**APPROVED**

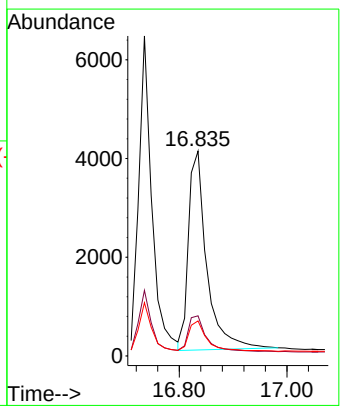
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

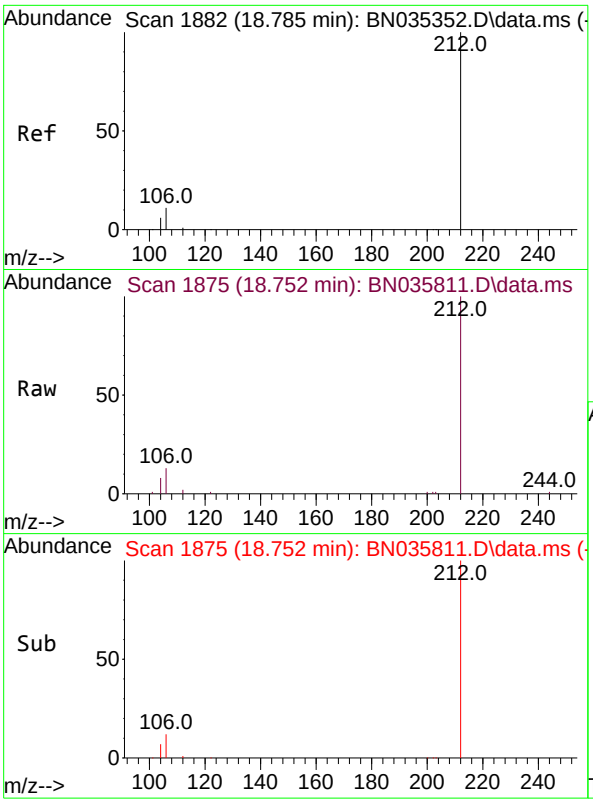



#26
Anthracene
Concen: 0.352 ng
RT: 16.835 min Scan# 1688
Delta R.T. -0.000 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:178 Resp: 9488

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.7 | 15.0 | 22.6 |
| 179 | 15.7 | 12.6 | 18.8 |

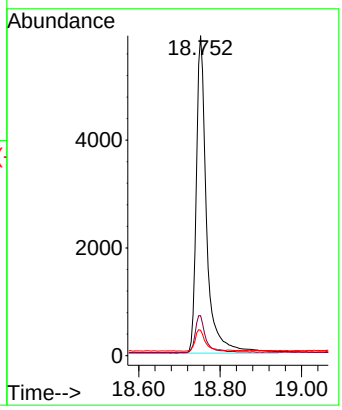





#27
Fluoranthene-d10
Concen: 0.336 ng
RT: 18.752 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:212 Resp: 1034

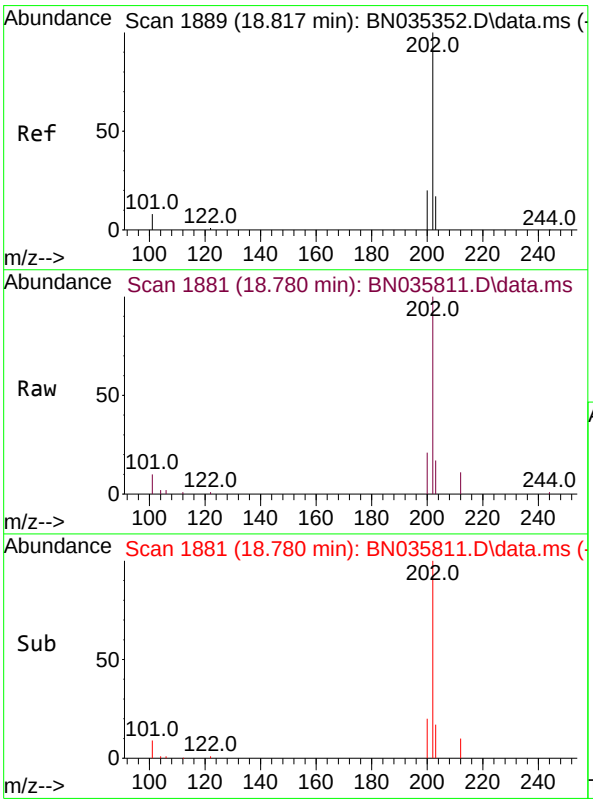
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 11.6 | 9.2 | 13.8 |
| 104 | 6.8 | 5.3 | 7.9 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations**
**APPROVED**

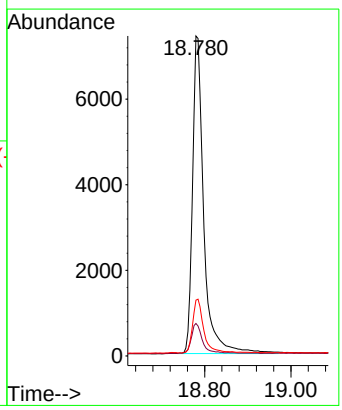
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

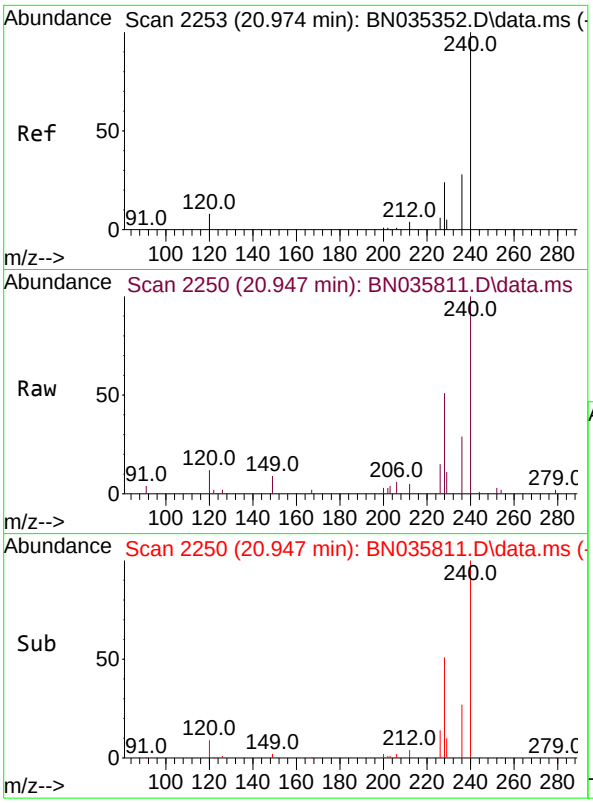



#28
Fluoranthene
Concen: 0.334 ng
RT: 18.780 min Scan# 1881
Delta R.T. -0.010 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:202 Resp: 13421

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 9.3 | 7.4 | 11.0 |
| 203 | 16.5 | 13.7 | 20.5 |

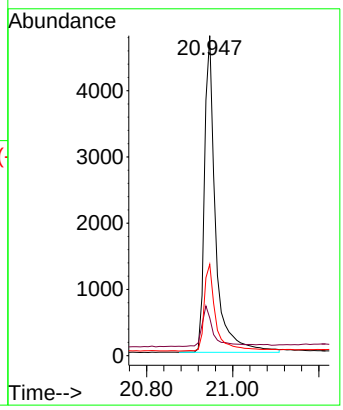





#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:240 Resp: 856

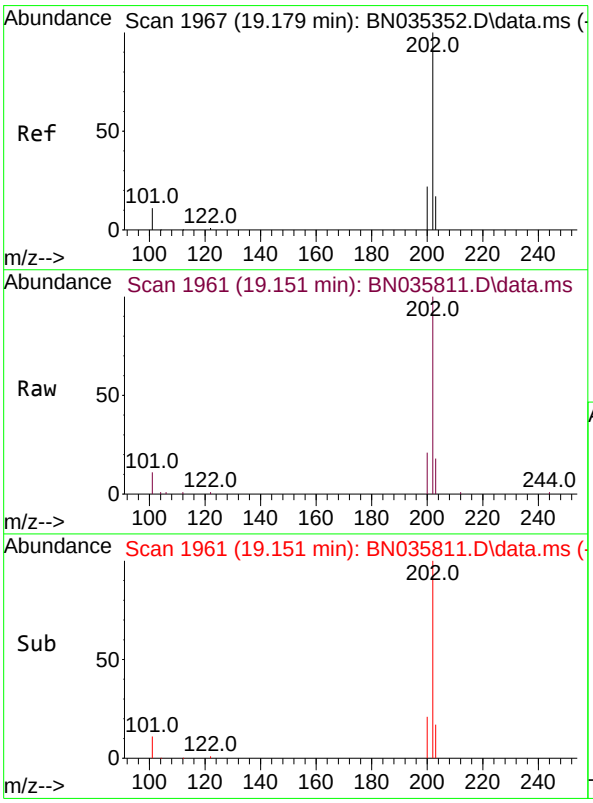
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 11.8 | 7.9 | 11.9 |
| 236 | 28.6 | 22.9 | 34.3 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations**
**APPROVED**

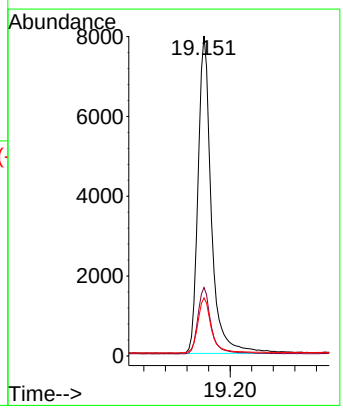
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

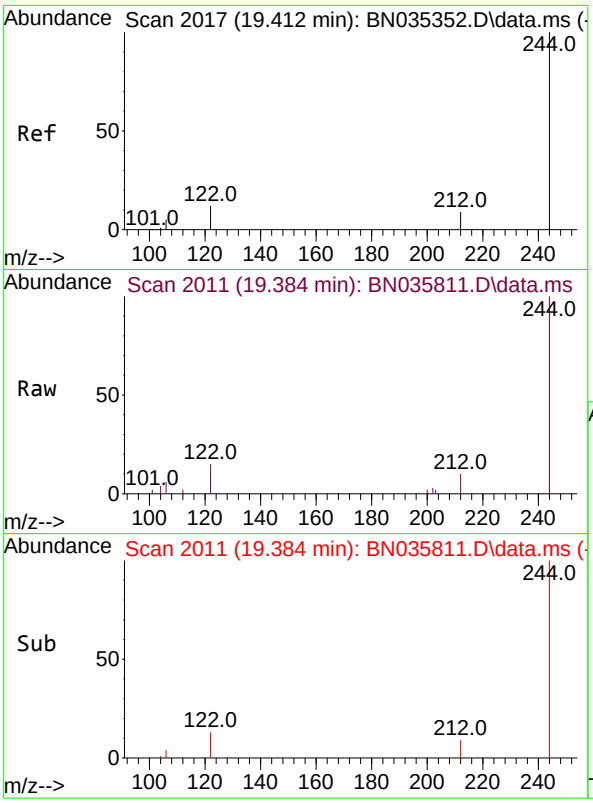



#30
Pyrene
Concen: 0.429 ng
RT: 19.151 min Scan# 1961
Delta R.T. -0.010 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:202 Resp: 13577

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.1 | 17.0 | 25.4 |
| 203 | 18.0 | 14.3 | 21.5 |

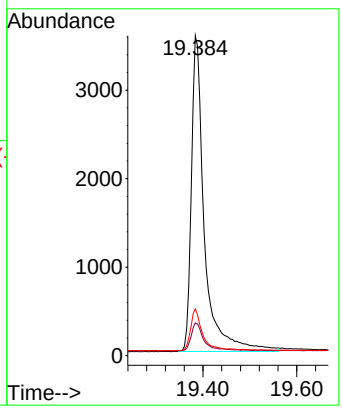





#31
Terphenyl-d14
Concen: 0.407 ng
RT: 19.384 min Scan# 2
Delta R.T. -0.005 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:244 Resp: 688

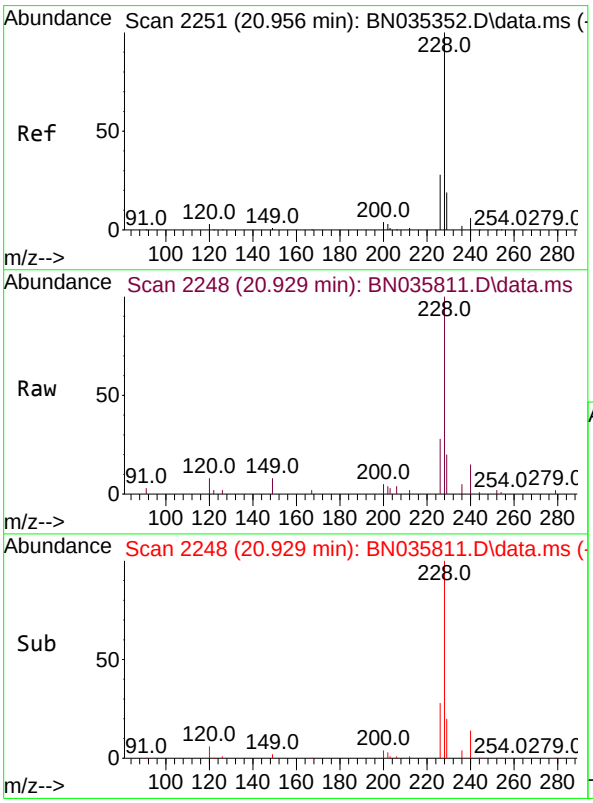
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 10.3 | 8.1 | 12.1 |
| 122 | 14.7 | 10.3 | 15.5 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations**
**APPROVED**

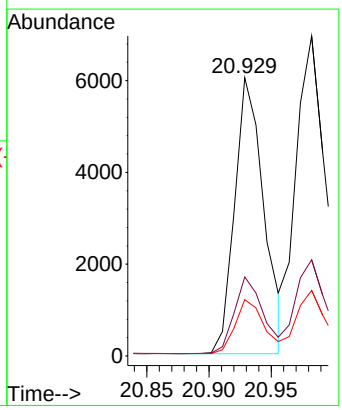
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

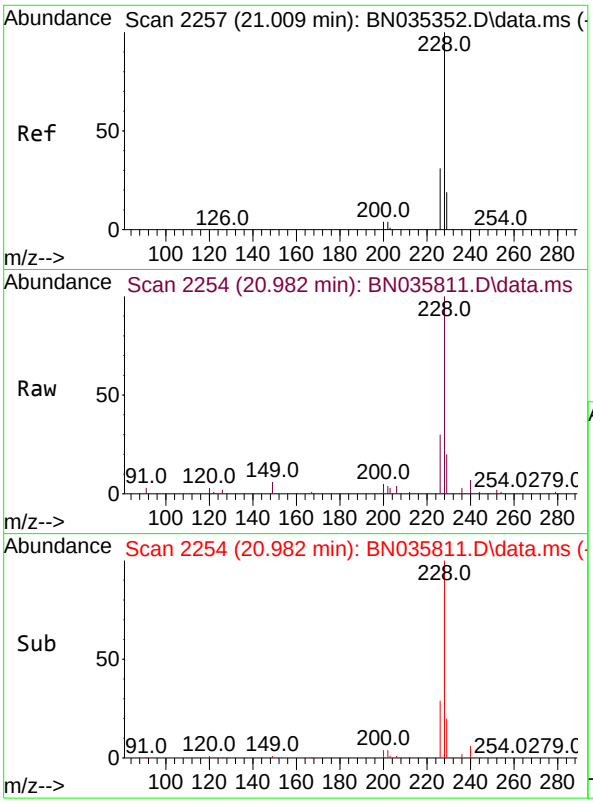



#32
Benzo(a)anthracene
Concen: 0.327 ng
RT: 20.929 min Scan# 2248
Delta R.T. -0.009 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:228 Resp: 9796

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 28.4 | 22.5 | 33.7 |
| 229 | 20.3 | 15.8 | 23.8 |

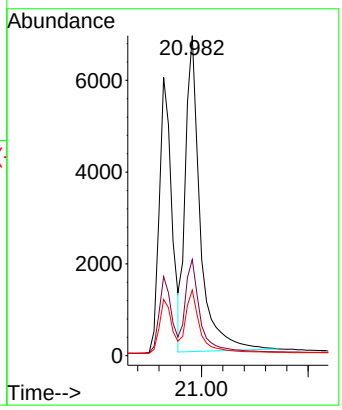





#33
Chrysene
Concen: 0.428 ng
RT: 20.982 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:228 Resp: 1323

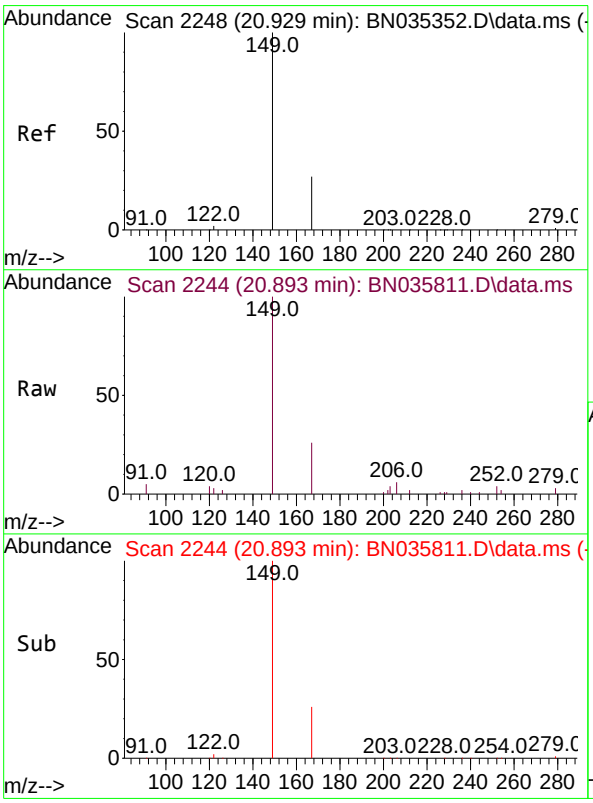
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 30.0 | 24.6 | 37.0 |
| 229 | 20.5 | 15.9 | 23.9 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations**
**APPROVED**

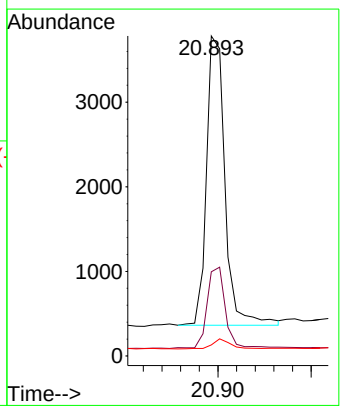
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

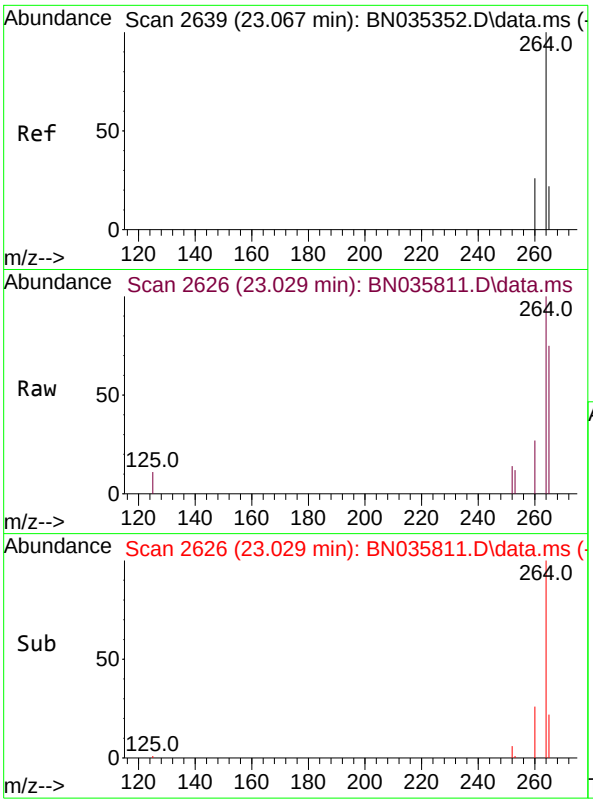



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.399 ng
RT: 20.893 min Scan# 2244
Delta R.T. -0.018 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:149 Resp: 4719

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 27.9 | 22.2 | 33.4 |
| 279 | 3.4 | 2.7 | 4.1 |

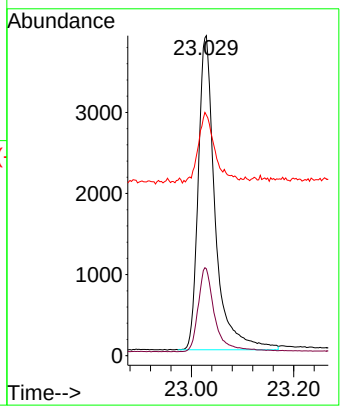





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.029 min Scan# 2
Delta R.T. -0.012 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:264 Resp: 887

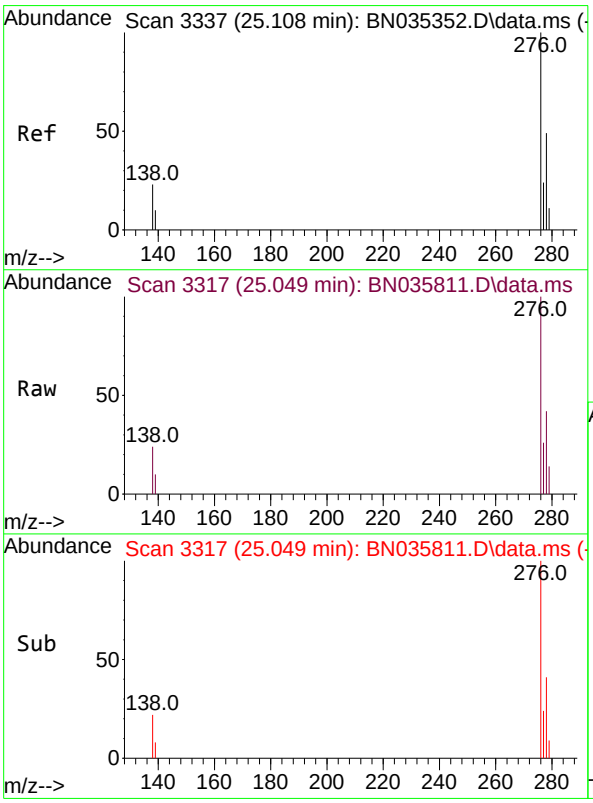
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 27.2 | 21.4 | 32.2 |
| 265 | 75.2 | 40.2 | 60.4 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations**
**APPROVED**

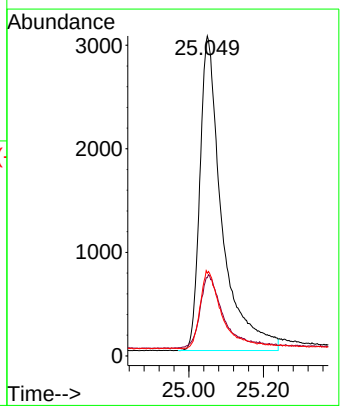
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

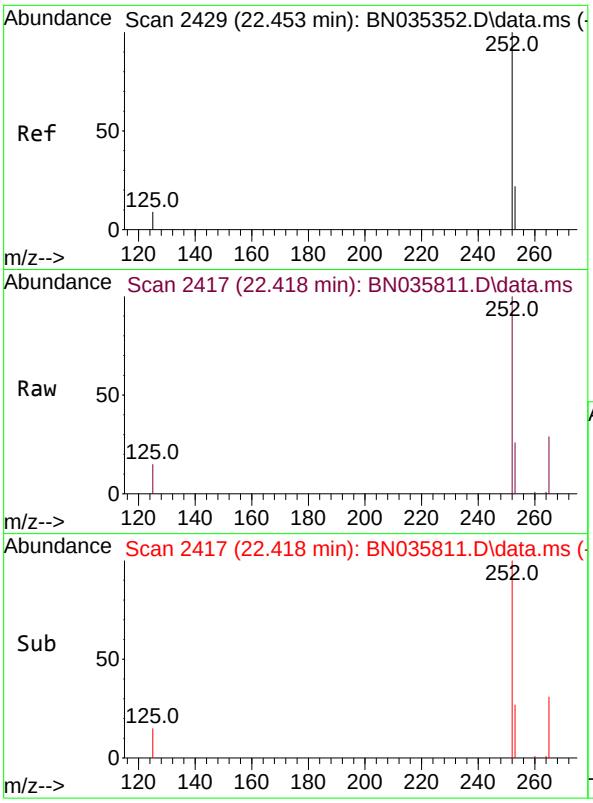



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.360 ng
RT: 25.049 min Scan# 3317
Delta R.T. -0.018 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:276 Resp: 12494

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 23.5 | 19.4 | 29.0 |
| 277 | 24.1 | 19.8 | 29.6 |

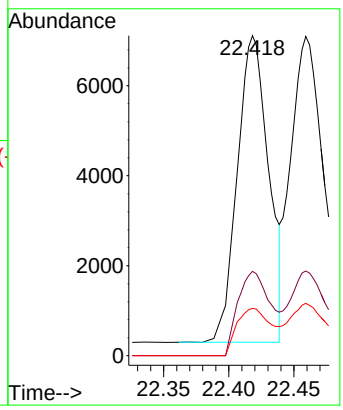





#37
Benzo(b)fluoranthene
Concen: 0.522 ng
RT: 22.418 min Scan# 24
Delta R.T. -0.012 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:252 Resp: 1696

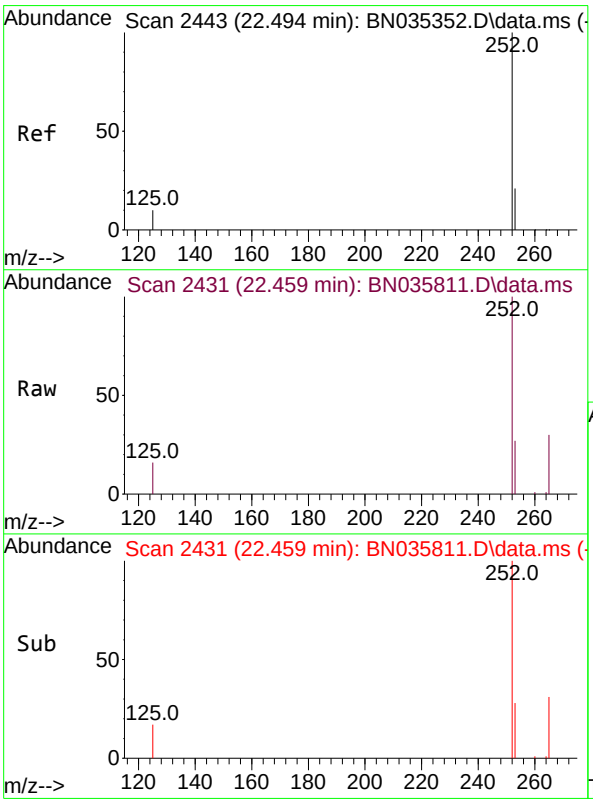
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 26.3 | 19.6 | 29.4 |
| 125 | 14.8 | 9.6 | 14.4# |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations**
**APPROVED**

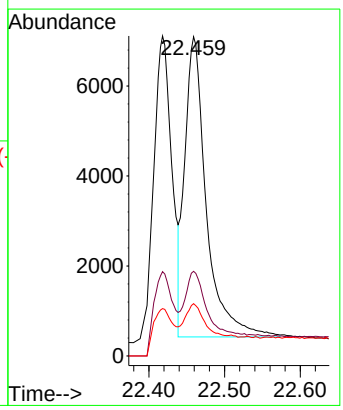
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

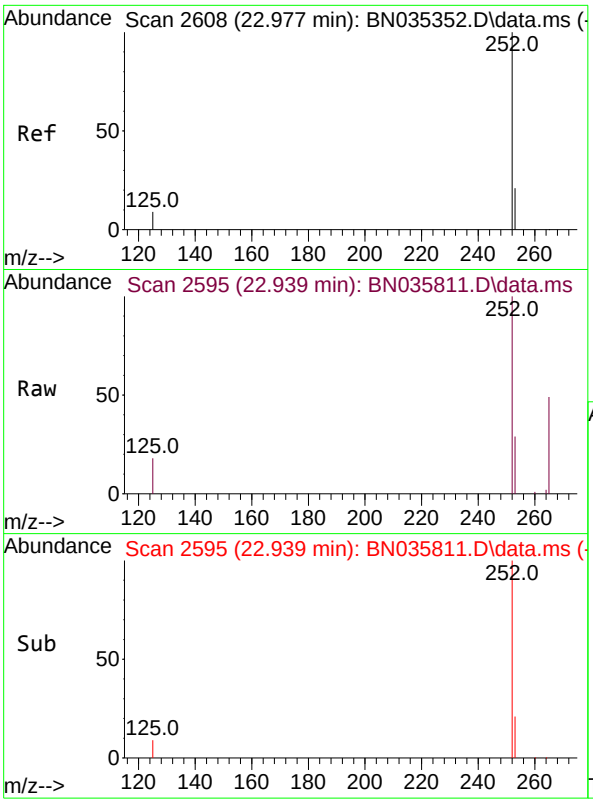



#38
Benzo(k)fluoranthene
Concen: 0.414 ng m
RT: 22.459 min Scan# 2431
Delta R.T. -0.012 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:252 Resp: 13236

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 26.5 | 19.5 | 29.3 |
| 125 | 16.4 | 10.2 | 15.4# |

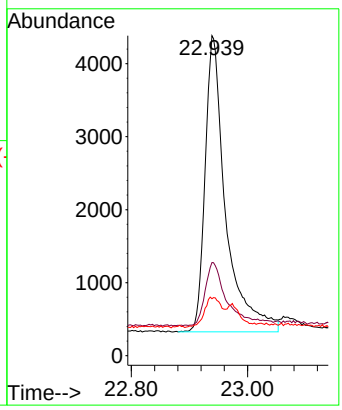





#39
Benzo(a)pyrene
Concen: 0.374 ng
RT: 22.939 min Scan# 2
Delta R.T. -0.012 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:252 Resp: 1000

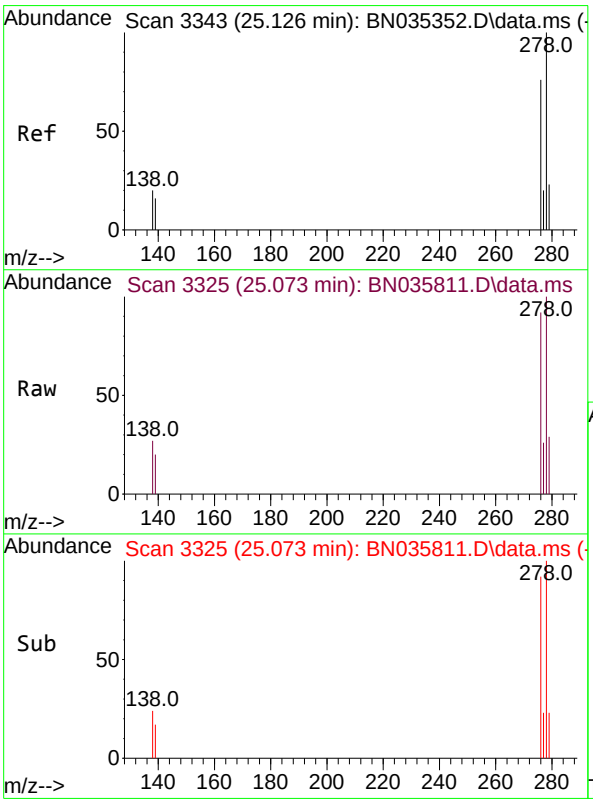
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 29.1 | 20.2 | 30.4 |
| 125 | 17.8 | 10.9 | 16.3 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations**
**APPROVED**

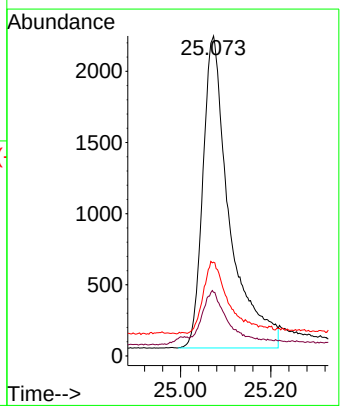
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

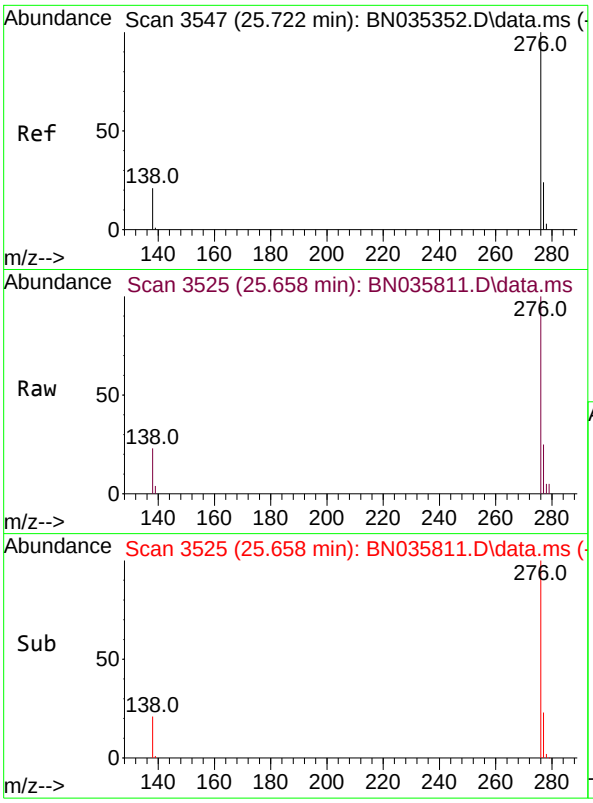



#40
Dibenzo(a,h)anthracene
Concen: 0.327 ng
RT: 25.073 min Scan# 3325
Delta R.T. -0.009 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:278 Resp: 8960

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 19.9 | 14.2 | 21.4 |
| 279 | 29.3 | 20.5 | 30.7 |

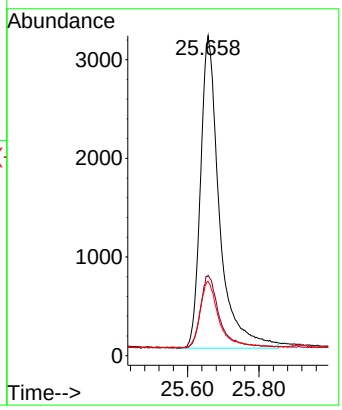





#41
Benzo(g,h,i)perylene
Concen: 0.405 ng
RT: 25.658 min Scan# 3
Delta R.T. -0.021 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:276 Resp: 1160

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 25.1 | 19.9 | 29.9 |
| 138 | 23.3 | 17.8 | 26.8 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035811.D
Acq On : 24 Dec 2024 08:59
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 22 Sample Multiplier: 1

**Instrument :**
BNA_N
**LabSampleId :**
SSTDCCC0.4

Quant Time: Dec 24 23:16:14 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 194# | 0.00 |
| 2 | | 1,4-Dioxane | 0.382 | 0.457 | -19.6 | 235# | 0.00 |
| 3 | | n-Nitrosodimethylamine | 0.319 | 0.328 | -2.8 | 195# | 0.00 |
| 4 | S | 2-Fluorophenol | 1.001 | 0.931 | 7.0 | 177# | -0.01 |
| 5 | S | Phenol-d6 | 1.204 | 1.289 | -7.1 | 209# | -0.02 |
| 6 | | bis(2-Chloroethyl)ether | 1.012 | 0.924 | 8.7 | 181# | -0.01 |
| 7 | I | Naphthalene-d8 | 1.000 | 1.000 | 0.0 | 181# | -0.02 |
| 8 | S | Nitrobenzene-d5 | 0.244 | 0.285 | -16.8 | 220# | -0.01 |
| 9 | | Naphthalene | 1.055 | 1.020 | 3.3 | 177# | -0.01 |
| 10 | | Hexachlorobutadiene | 0.243 | 0.269 | -10.7 | 197# | -0.02 |
| 11 | SURR | 2-Methylnaphthalene-d10 | 0.626 | 0.541 | 13.6 | 158# | -0.01 |
| 12 | | 2-Methylnaphthalene | 0.755 | 0.639 | 15.4 | 157# | -0.01 |
| 13 | I | Acenaphthene-d10 | 1.000 | 1.000 | 0.0 | 142 | -0.01 |
| 14 | S | 2,4,6-Tribromophenol | 0.284 | 0.214 | 24.6 | 118 | -0.01 |
| 15 | S | 2-Fluorobiphenyl | 1.512 | 1.523 | -0.7 | 143 | -0.01 |
| 16 | | Acenaphthylene | 1.680 | 1.562 | 7.0 | 139 | -0.01 |
| 17 | | Acenaphthene | 1.115 | 1.073 | 3.8 | 140 | -0.02 |
| 18 | | Fluorene | 1.596 | 1.384 | 13.3 | 127 | -0.01 |
| 19 | I | Phenanthrene-d10 | 1.000 | 1.000 | 0.0 | 114 | 0.00 |
| 20 | | 4,6-Dinitro-2-methylphenol | 0.039 | 0.022 | 43.6# | 72 | 0.00 |
| 21 | | 4-Bromophenyl-phenylether | 0.234 | 0.219 | 6.4 | 111 | -0.01 |
| 22 | | Hexachlorobenzene | 0.275 | 0.313 | -13.8 | 131 | -0.01 |
| 23 | | Atrazine | 0.167 | 0.151 | 9.6 | 112 | 0.00 |
| 24 | | Pentachlorophenol | 0.120 | 0.096 | 20.0 | 115 | -0.01 |
| 25 | | Phenanthrene | 1.099 | 1.009 | 8.2 | 108 | -0.01 |
| 26 | | Anthracene | 0.994 | 0.874 | 12.1 | 106 | 0.00 |
| 27 | SURR | Fluoranthene-d10 | 1.134 | 0.953 | 16.0 | 101 | 0.00 |
| 28 | | Fluoranthene | 1.481 | 1.236 | 16.5 | 100 | 0.00 |
| 29 | I | Chrysene-d12 | 1.000 | 1.000 | 0.0 | 90 | 0.00 |
| 30 | | Pyrene | 1.477 | 1.584 | -7.2 | 97 | 0.00 |
| 31 | S | Terphenyl-d14 | 0.789 | 0.804 | -1.9 | 91 | 0.00 |
| 32 | | Benzo(a)anthracene | 1.399 | 1.143 | 18.3 | 76 | 0.00 |
| 33 | | Chrysene | 1.443 | 1.544 | -7.0 | 96 | 0.00 |
| 34 | | Bis(2-ethylhexyl)phthalate | 0.553 | 0.551 | 0.4 | 96 | -0.02 |
| 35 | I | Perylene-d12 | 1.000 | 1.000 | 0.0 | 82 | -0.01 |
| 36 | | Indeno(1,2,3-cd)pyrene | 1.564 | 1.407 | 10.0 | 75 | -0.02 |
| 37 | | Benzo(b)fluoranthene | 1.463 | 1.911 | -30.6# | 119 | -0.01 |
| 38 | | Benzo(k)fluoranthene | 1.440 | 1.491 | -3.5 | 87 | -0.01 |
| 39 | C | Benzo(a)pyrene | 1.205 | 1.126 | 6.6 | 80 | -0.01 |
| 40 | | Dibenzo(a,h)anthracene | 1.234 | 1.009 | 18.2 | 69 | 0.00 |
| 41 | | Benzo(g,h,i)perylene | 1.289 | 1.307 | -1.4 | 86 | -0.02 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035811.D
Acq On : 24 Dec 2024 08:59
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 22 Sample Multiplier: 1

**Instrument :**
BNA_N
**LabSampleId :**
SSTDCCC0.4

Quant Time: Dec 24 23:16:14 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | 1,4-Dichlorobenzene-d4 | 0.400 | 0.400 | 0.0 | 194 | 0.00 |
| 2 | | 1,4-Dioxane | 0.400 | 0.478 | -19.5 | 235 | 0.00 |
| 3 | | n-Nitrosodimethylamine | 0.400 | 0.412 | -3.0 | 195 | 0.00 |
| 4 | S | 2-Fluorophenol | 0.400 | 0.372 | 7.0 | 177 | -0.01 |
| 5 | S | Phenol-d6 | 0.400 | 0.428 | -7.0 | 209 | -0.02 |
| 6 | | bis(2-Chloroethyl)ether | 0.400 | 0.366 | 8.5 | 181 | -0.01 |
| 7 | I | Naphthalene-d8 | 0.400 | 0.400 | 0.0 | 181 | -0.02 |
| 8 | S | Nitrobenzene-d5 | 0.400 | 0.467 | -16.8 | 220 | -0.01 |
| 9 | | Naphthalene | 0.400 | 0.387 | 3.3 | 177 | -0.01 |
| 10 | | Hexachlorobutadiene | 0.400 | 0.442 | -10.5 | 197 | -0.02 |
| 11 | SURR | 2-Methylnaphthalene-d10 | 0.400 | 0.346 | 13.5 | 158 | -0.01 |
| 12 | | 2-Methylnaphthalene | 0.400 | 0.338 | 15.5 | 157 | -0.01 |
| 13 | I | Acenaphthene-d10 | 0.400 | 0.400 | 0.0 | 142 | -0.01 |
| 14 | S | 2,4,6-Tribromophenol | 0.400 | 0.302 | 24.5 | 118 | -0.01 |
| 15 | S | 2-Fluorobiphenyl | 0.400 | 0.403 | -0.8 | 143 | -0.01 |
| 16 | | Acenaphthylene | 0.400 | 0.372 | 7.0 | 139 | -0.01 |
| 17 | | Acenaphthene | 0.400 | 0.385 | 3.8 | 140 | -0.02 |
| 18 | | Fluorene | 0.400 | 0.347 | 13.3 | 127 | -0.01 |
| 19 | I | Phenanthrene-d10 | 0.400 | 0.400 | 0.0 | 114 | 0.00 |
| 20 | | 4,6-Dinitro-2-methylphenol | 0.400 | 0.229 | 42.8# | 72 | 0.00 |
| 21 | | 4-Bromophenyl-phenylether | 0.400 | 0.375 | 6.3 | 111 | -0.01 |
| 22 | | Hexachlorobenzene | 0.400 | 0.455 | -13.7 | 131 | -0.01 |
| 23 | | Atrazine | 0.400 | 0.363 | 9.3 | 112 | 0.00 |
| 24 | | Pentachlorophenol | 0.400 | 0.321 | 19.8 | 115 | -0.01 |
| 25 | | Phenanthrene | 0.400 | 0.367 | 8.3 | 108 | -0.01 |
| 26 | | Anthracene | 0.400 | 0.352 | 12.0 | 106 | 0.00 |
| 27 | SURR | Fluoranthene-d10 | 0.400 | 0.336 | 16.0 | 101 | 0.00 |
| 28 | | Fluoranthene | 0.400 | 0.334 | 16.5 | 100 | 0.00 |
| 29 | I | Chrysene-d12 | 0.400 | 0.400 | 0.0 | 90 | 0.00 |
| 30 | | Pyrene | 0.400 | 0.429 | -7.2 | 97 | 0.00 |
| 31 | S | Terphenyl-d14 | 0.400 | 0.407 | -1.7 | 91 | 0.00 |
| 32 | | Benzo(a)anthracene | 0.400 | 0.327 | 18.3 | 76 | 0.00 |
| 33 | | Chrysene | 0.400 | 0.428 | -7.0 | 96 | 0.00 |
| 34 | | Bis(2-ethylhexyl)phthalate | 0.400 | 0.399 | 0.3 | 96 | -0.02 |
| 35 | I | Perylene-d12 | 0.400 | 0.400 | 0.0 | 82 | -0.01 |
| 36 | | Indeno(1,2,3-cd)pyrene | 0.400 | 0.360 | 10.0 | 75 | -0.02 |
| 37 | | Benzo(b)fluoranthene | 0.400 | 0.522 | -30.5# | 119 | -0.01 |
| 38 | | Benzo(k)fluoranthene | 0.400 | 0.414 | -3.5 | 87 | -0.01 |
| 39 | C | Benzo(a)pyrene | 0.400 | 0.374 | 6.5 | 80 | -0.01 |
| 40 | | Dibenzo(a,h)anthracene | 0.400 | 0.327 | 18.3 | 69 | 0.00 |
| 41 | | Benzo(g,h,i)perylene | 0.400 | 0.405 | -1.3 | 86 | -0.02 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

7C

## SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: P5376 SAS No.: P5376 SDG No.: P5376

Instrument ID: BNA_N Calibration Date/Time: 12/24/2024 19:05

Lab File ID: BN035828.D Init. Calib. Date(s): 11/27/2024 11/27/2024

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 15:34 19:09

GC Column: ZB-GR ID: 0.25 (mm)

| COMPOUND | RRF | RRF0.4 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| 2-Methylnaphthalene-d10 | 0.626 | 0.533 | | -14.9 | 50.0 |
| Fluoranthene-d10 | 1.134 | 0.931 | | -17.9 | 50.0 |
| 2-Fluorophenol | 1.001 | 0.895 | | -10.6 | 50.0 |
| Phenol-d6 | 1.204 | 1.524 | | 26.6 | 50.0 |
| Nitrobenzene-d5 | 0.244 | 0.319 | | 30.7 | 50.0 |
| 2-Fluorobiphenyl | 1.512 | 1.565 | | 3.5 | 50.0 |
| 2,4,6-Tribromophenol | 0.284 | 0.194 | | -31.7 | 50.0 |
| Terphenyl-d14 | 0.789 | 0.809 | | 2.5 | 50.0 |
| 1,4-Dioxane | 0.382 | 0.501 | | 31.2 | 50.0 |

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035828.D
Acq On : 24 Dec 2024 19:05
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 20 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

Quant Time: Dec 24 23:54:42 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.257 | 152 | 4008 | 0.400 | ng | | -0.02 |
| 7) Naphthalene-d8 | 9.998 | 136 | 9840 | 0.400 | ng | | -0.02 |
| 13) Acenaphthene-d10 | 13.914 | 164 | 5373 | 0.400 | ng | | -0.02 |
| 19) Phenanthrene-d10 | 16.698 | 188 | 9905 | 0.400 | ng | | # 0.00 |
| 29) Chrysene-d12 | 20.947 | 240 | 7447 | 0.400 | ng | | # 0.00 |
| 35) Perylene-d12 | 23.029 | 264 | 7426 | 0.400 | ng | | #-0.01 |
| **System Monitoring Compounds** | | | | | | | |
| 4) 2-Fluorophenol | 4.924 | 112 | 3589 | 0.358 | ng | | -0.01 |
| 5) Phenol-d6 | 6.470 | 99 | 6110 | 0.506 | ng | | -0.02 |
| 8) Nitrobenzene-d5 | 8.397 | 82 | 3140m | 0.522 | ng | | -0.01 |
| 11) 2-Methylnaphthalene-d10 | 11.610 | 152 | 5246 | 0.341 | ng | | -0.01 |
| 14) 2,4,6-Tribromophenol | 15.442 | 330 | 1040 | 0.273 | ng | | -0.01 |
| 15) 2-Fluorobiphenyl | 12.533 | 172 | 8409 | 0.414 | ng | | -0.01 |
| 27) Fluoranthene-d10 | 18.752 | 212 | 9222 | 0.328 | ng | | 0.00 |
| 31) Terphenyl-d14 | 19.384 | 244 | 6024 | 0.410 | ng | | 0.00 |
| **Target Compounds** | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 2.974 | 88 | 2007 | 0.524 | ng | | 99 |
| 3) n-Nitrosodimethylamine | 3.270 | 42 | 1227 | 0.384 | ng | # | 82 |
| 6) bis(2-Chloroethyl)ether | 6.715 | 93 | 4129 | 0.407 | ng | | 99 |
| 9) Naphthalene | 10.052 | 128 | 10772 | 0.415 | ng | | 99 |
| 10) Hexachlorobutadiene | 10.340 | 225 | 2784 | 0.465 | ng | # | 99 |
| 12) 2-Methylnaphthalene | 11.686 | 142 | 6505 | 0.350 | ng | | 99 |
| 16) Acenaphthylene | 13.636 | 152 | 8453 | 0.375 | ng | | 99 |
| 17) Acenaphthene | 13.978 | 154 | 5821 | 0.389 | ng | | 100 |
| 18) Fluorene | 14.993 | 166 | 7311 | 0.341 | ng | | 99 |
| 20) 4,6-Dinitro-2-methylph... | 15.132 | 198 | 239 | 0.245 | ng | # | 24 |
| 21) 4-Bromophenyl-phenylether | 15.904 | 248 | 2287 | 0.395 | ng | # | 91 |
| 22) Hexachlorobenzene | 16.003 | 284 | 3296 | 0.484 | ng | | 99 |
| 23) Atrazine | 16.202 | 200 | 1504 | 0.365 | ng | | 95 |
| 24) Pentachlorophenol | 16.363 | 266 | 898 | 0.303 | ng | | 89 |
| 25) Phenanthrene | 16.735 | 178 | 10097 | 0.371 | ng | | 100 |
| 26) Anthracene | 16.835 | 178 | 8619 | 0.350 | ng | | 100 |
| 28) Fluoranthene | 18.784 | 202 | 11973 | 0.326 | ng | | 99 |
| 30) Pyrene | 19.151 | 202 | 12223 | 0.445 | ng | | 100 |
| 32) Benzo(a)anthracene | 20.929 | 228 | 8203 | 0.315 | ng | | 99 |
| 33) Chrysene | 20.982 | 228 | 11628 | 0.433 | ng | | 99 |
| 34) Bis(2-ethylhexyl)phtha... | 20.902 | 149 | 4135 | 0.402 | ng | | 99 |
| 36) Indeno(1,2,3-cd)pyrene | 25.052 | 276 | 10298 | 0.355 | ng | # | 83 |
| 37) Benzo(b)fluoranthene | 22.418 | 252 | 17240 | 0.635 | ng | # | 95 |
| 38) Benzo(k)fluoranthene | 22.462 | 252 | 11542m | 0.432 | ng | | |
| 39) Benzo(a)pyrene | 22.944 | 252 | 8337 | 0.373 | ng | # | 87 |
| 40) Dibenzo(a,h)anthracene | 25.073 | 278 | 7409 | 0.323 | ng | # | 90 |
| 41) Benzo(g,h,i)perylene | 25.663 | 276 | 9651 | 0.403 | ng | | 98 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

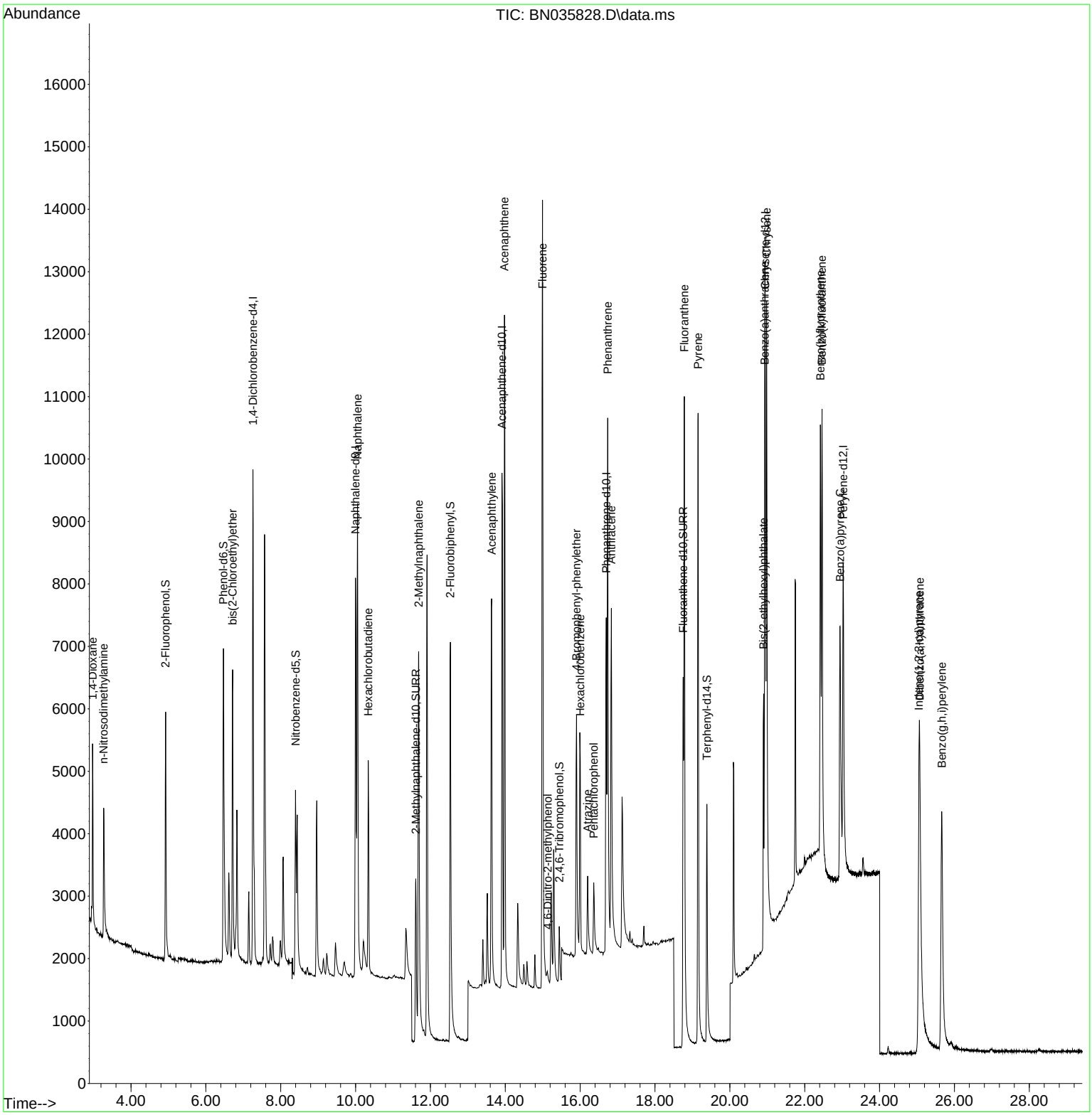
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035828.D
Acq On : 24 Dec 2024 19:05
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 20 Sample Multiplier: 1

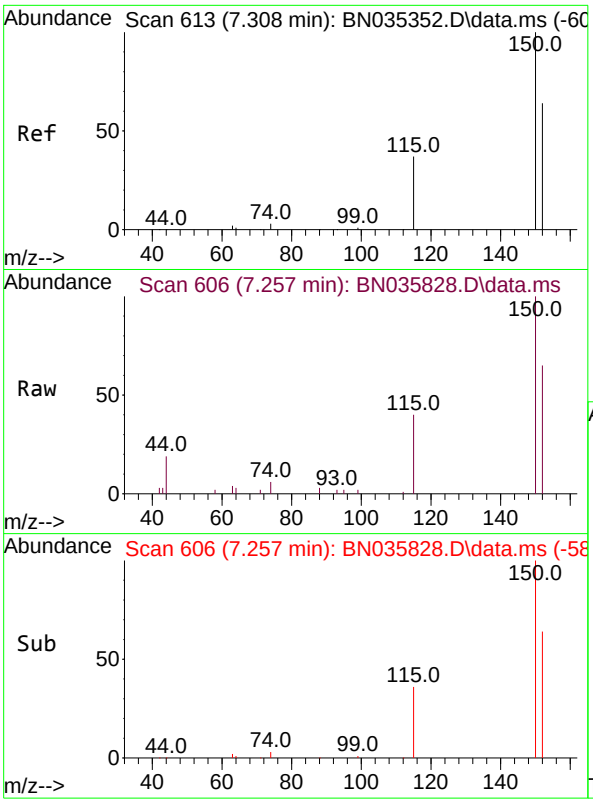
Quant Time: Dec 24 23:54:42 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

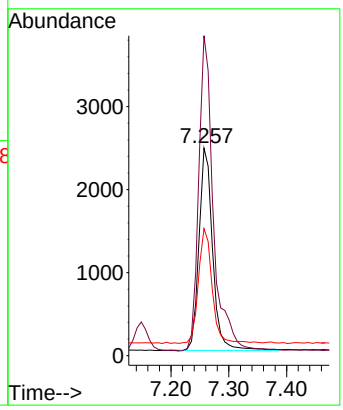





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 6
Delta R.T. -0.015 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:152 Resp: 400

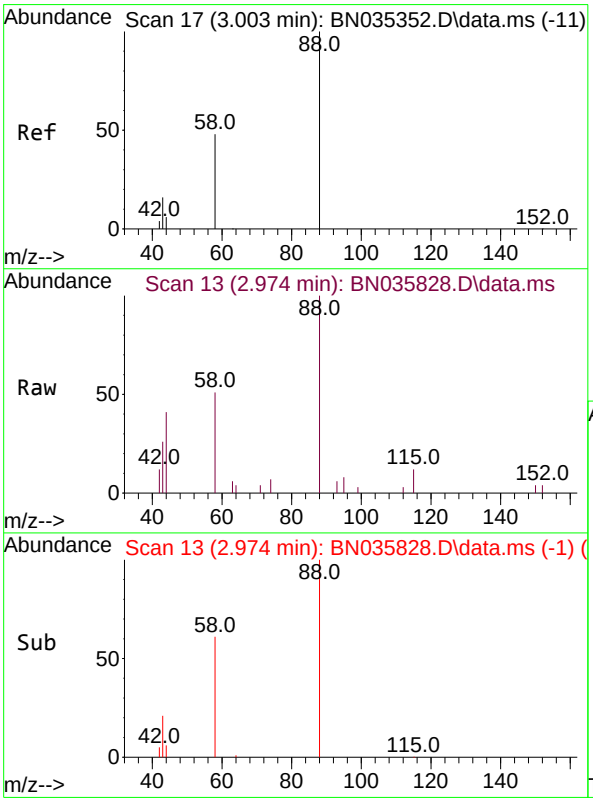
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 154.2 | 124.0 | 186.0 |
| 115 | 61.2 | 49.6 | 74.4 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations**
**APPROVED**

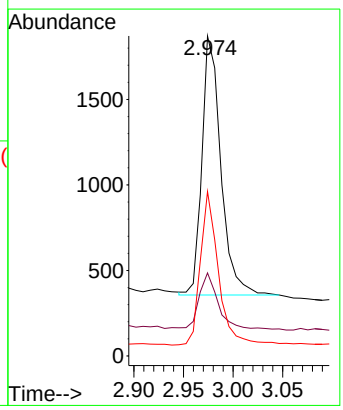
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

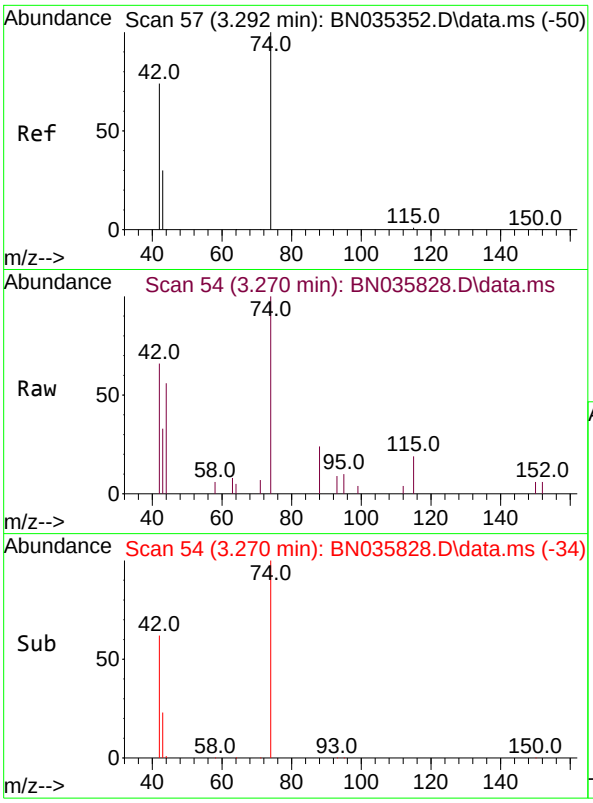



#2
1,4-Dioxane
Concen: 0.524 ng
RT: 2.974 min Scan# 13
Delta R.T. -0.008 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion: 88 Resp: 2007

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 21.5 | 17.2 | 25.8 |
| 58 | 56.9 | 44.5 | 66.7 |

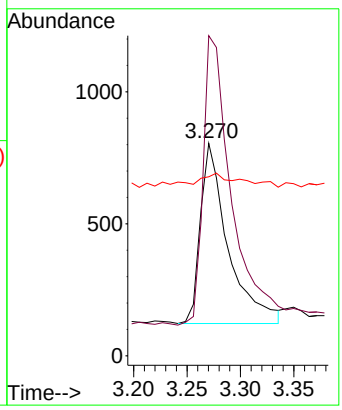





#3
n-Nitrosodimethylamine
Concen: 0.384 ng
RT: 3.270 min Scan# 54
Delta R.T. -0.008 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion: 42 Resp: 122

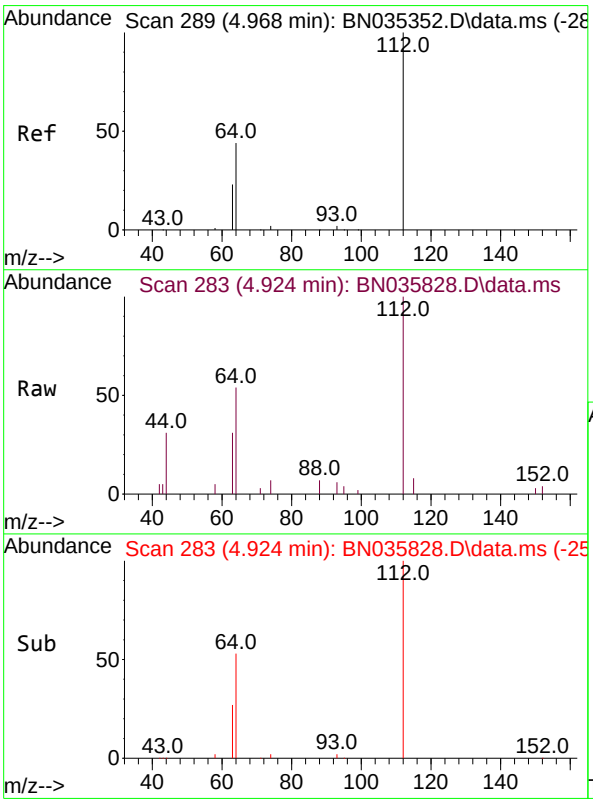
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 178.7 | 124.9 | 187.3 |
| 44 | 14.2 | 2.2 | 3.4 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations**
**APPROVED**

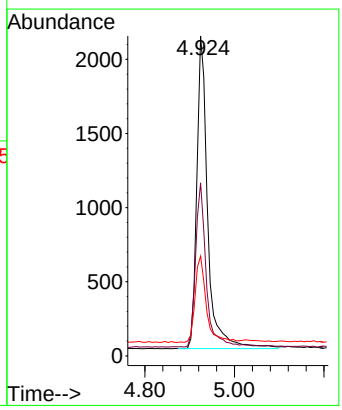
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

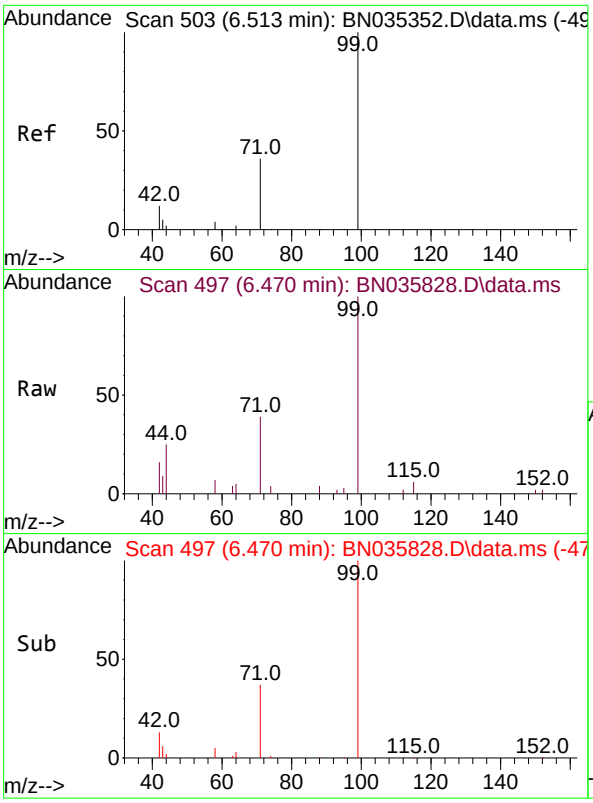



#4
2-Fluorophenol
Concen: 0.358 ng
RT: 4.924 min Scan# 283
Delta R.T. -0.015 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:112 Resp: 3589

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 51.1 | 39.8 | 59.8 |
| 63 | 27.8 | 21.0 | 31.6 |

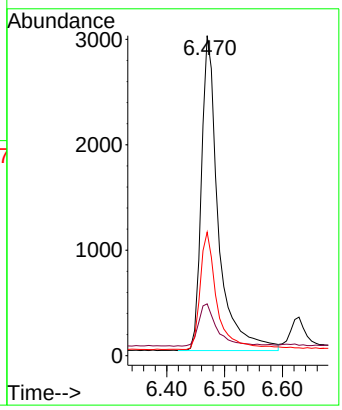





#5
Phenol-d6
Concen: 0.506 ng
RT: 6.470 min Scan# 4
Delta R.T. -0.022 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion: 99 Resp: 611

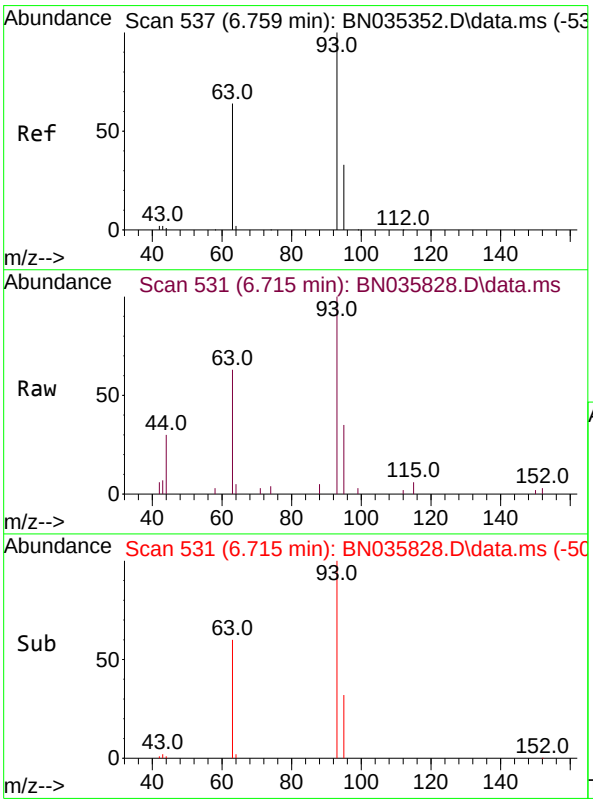
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 14.9 | 11.4 | 17.2 |
| 71 | 37.7 | 29.3 | 43.9 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations**
**APPROVED**

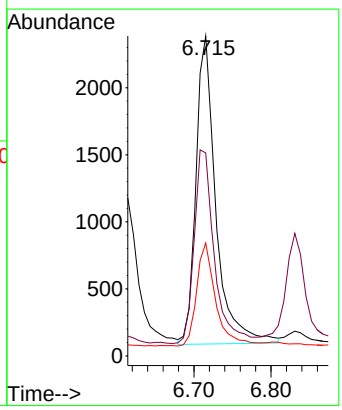
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

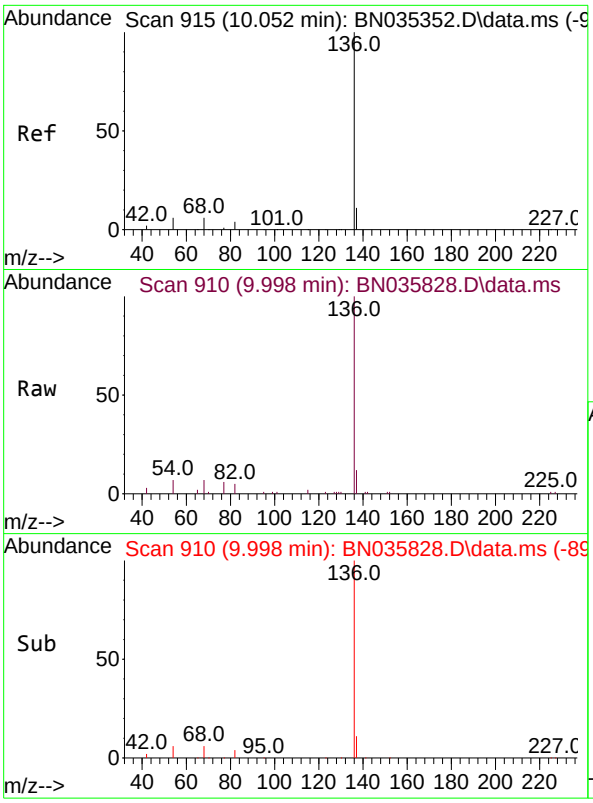



#6
bis(2-Chloroethyl)ether
Concen: 0.407 ng
RT: 6.715 min Scan# 531
Delta R.T. -0.015 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion: 93 Resp: 4129

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 63.6 | 50.4 | 75.6 |
| 95 | 31.8 | 25.7 | 38.5 |

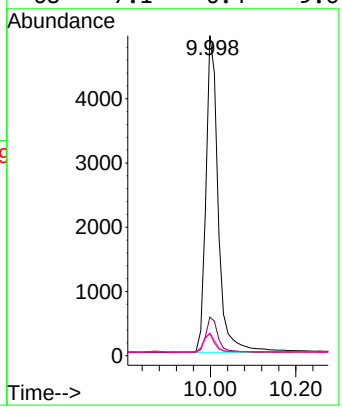





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 9.998 min Scan# 91
Delta R.T. -0.022 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:136 Resp: 984

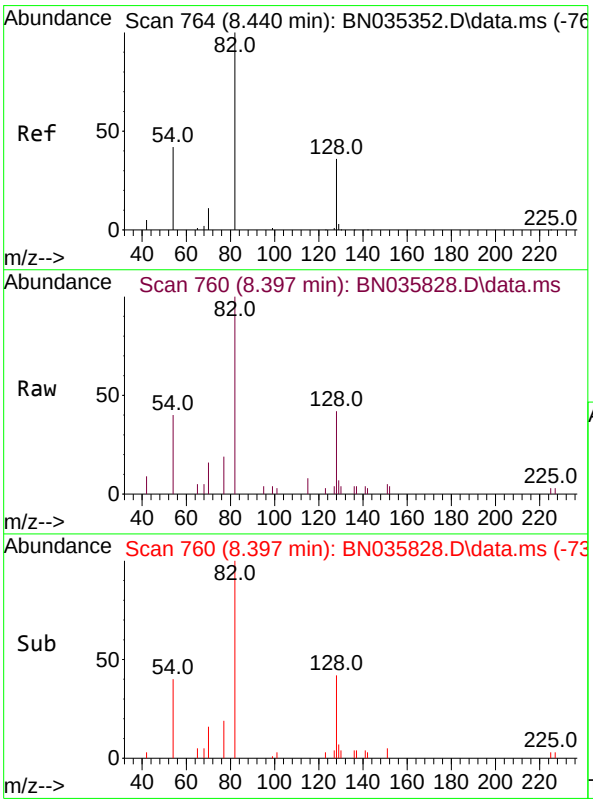
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 12.1 | 10.2 | 15.2 |
| 54 | 6.9 | 6.1 | 9.1 |
| 68 | 7.1 | 6.4 | 9.6 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations**
**APPROVED**

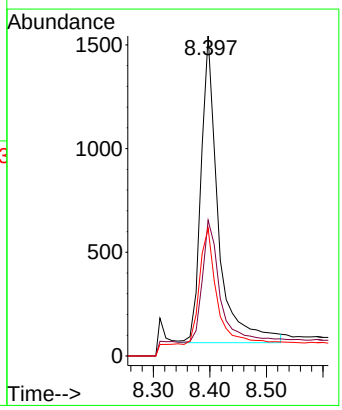
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

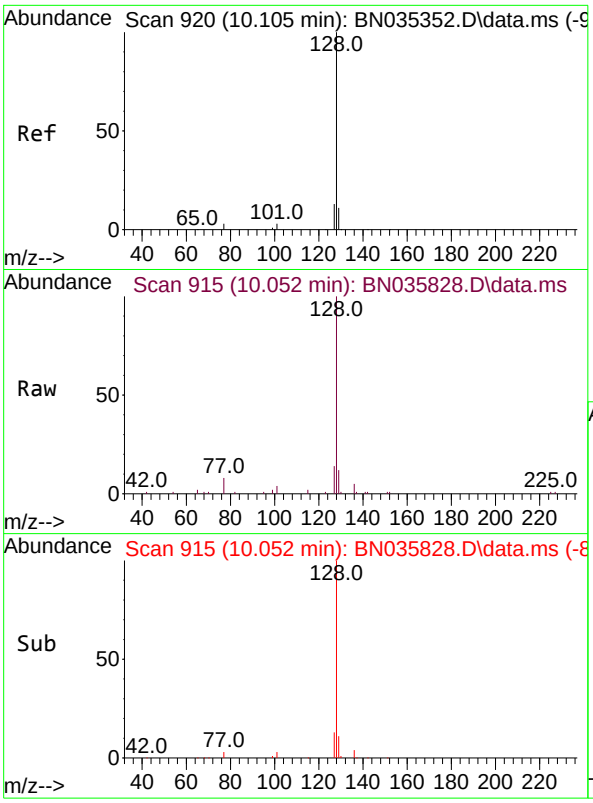



#8
Nitrobenzene-d5
Concen: 0.522 ng m
RT: 8.397 min Scan# 760
Delta R.T. -0.011 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion: 82 Resp: 3140

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 42.4 | 33.4 | 50.0 |
| 54 | 39.9 | 36.7 | 55.1 |

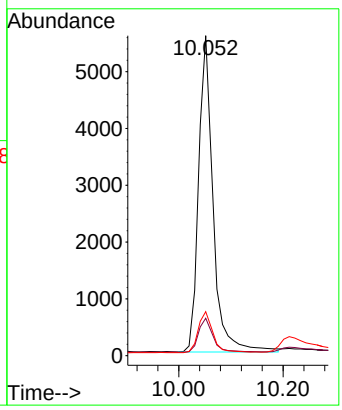





#9
Naphthalene
Concen: 0.415 ng
RT: 10.052 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:128 Resp: 1077

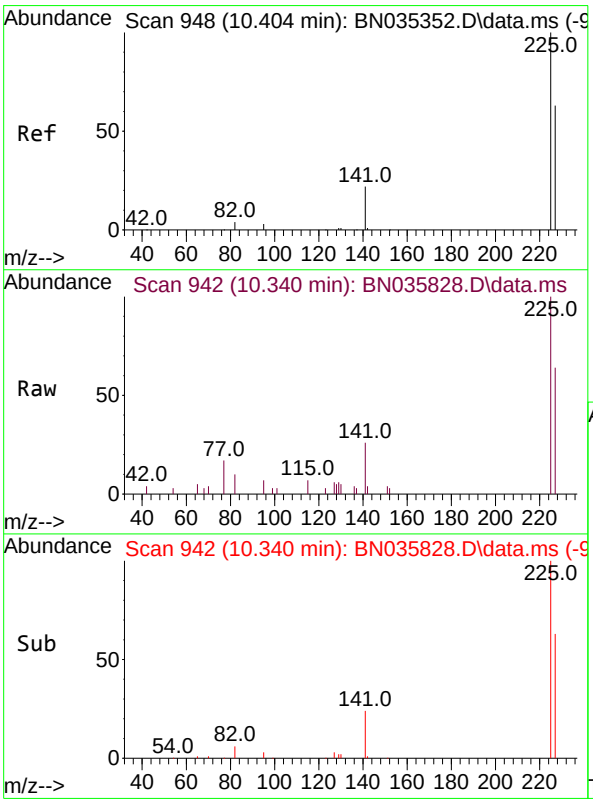
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 11.7 | 9.8 | 14.6 |
| 127 | 13.8 | 11.4 | 17.2 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations**
**APPROVED**

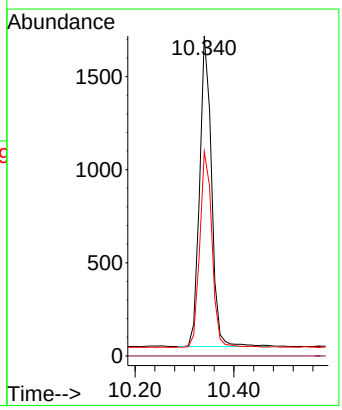
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

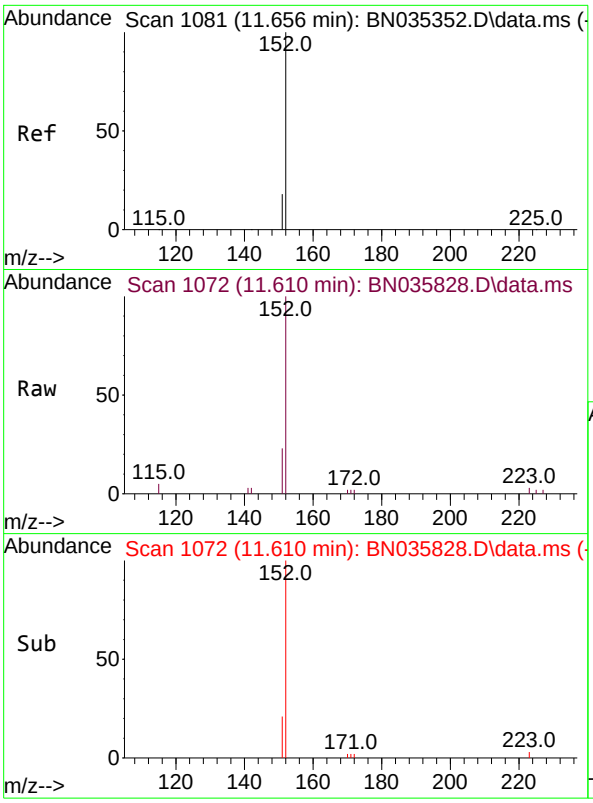



#10
Hexachlorobutadiene
Concen: 0.465 ng
RT: 10.340 min Scan# 942
Delta R.T. -0.022 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:225 Resp: 2784

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 0.0 | 0.0 | 0.0 |
| 227 | 64.9 | 51.3 | 76.9 |

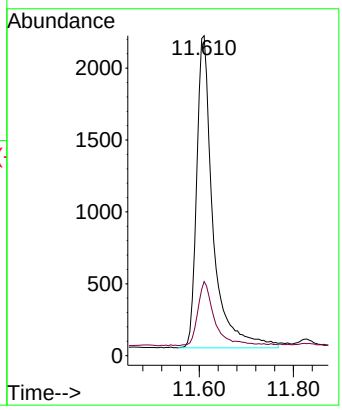





#11
2-Methylnaphthalene-d10
Concen: 0.341 ng
RT: 11.610 min Scan# 1(
Delta R.T. -0.010 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:152 Resp: 524(

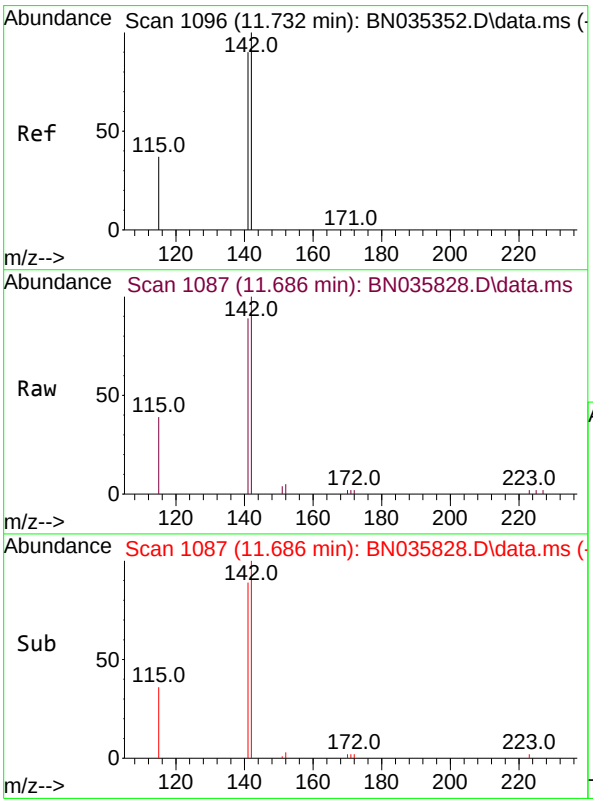
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.7 | 16.6 | 25.0 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations**
**APPROVED**

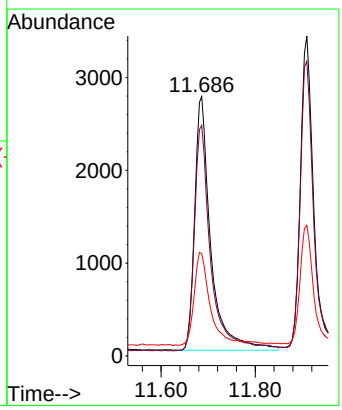
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

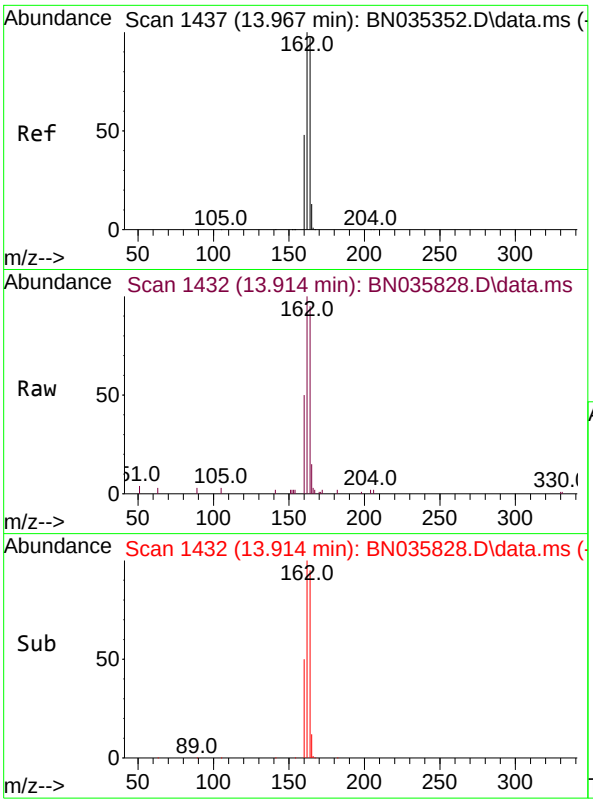



#12
2-Methylnaphthalene
Concen: 0.350 ng
RT: 11.686 min Scan# 1087
Delta R.T. -0.010 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:142 Resp: 6505

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 88.9 | 72.2 | 108.4 |
| 115 | 39.4 | 31.4 | 47.0 |

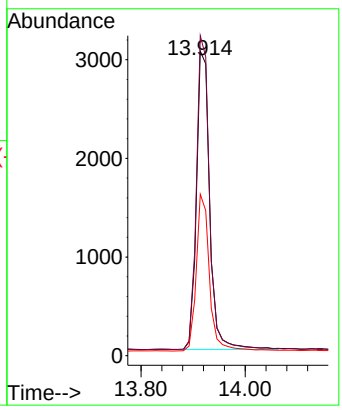





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.914 min Scan# 14
Delta R.T. -0.022 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:164 Resp: 537

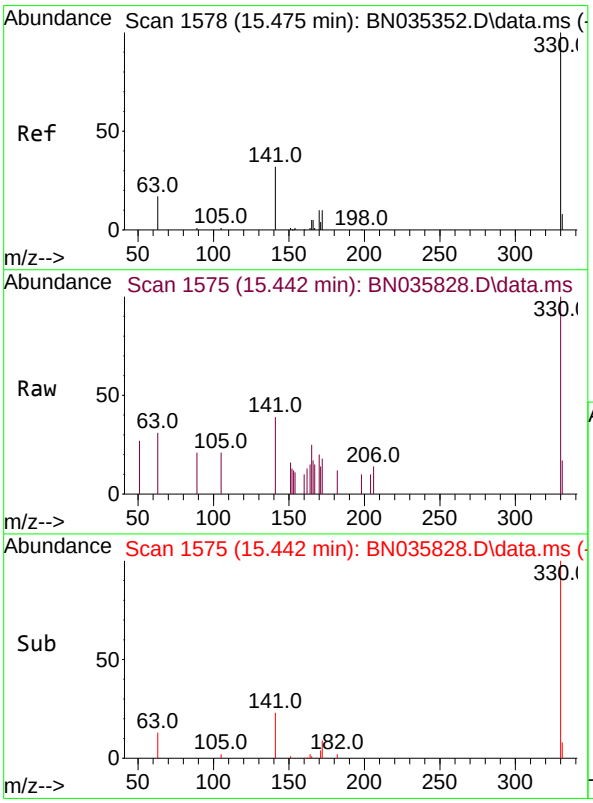
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 105.0 | 82.2 | 123.2 |
| 160 | 53.0 | 40.1 | 60.1 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations**
**APPROVED**

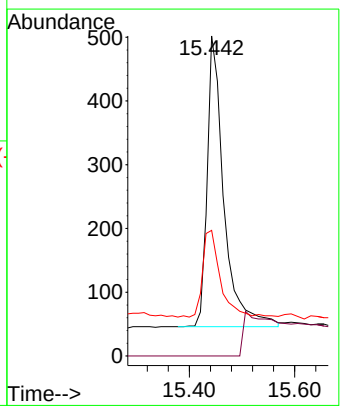
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

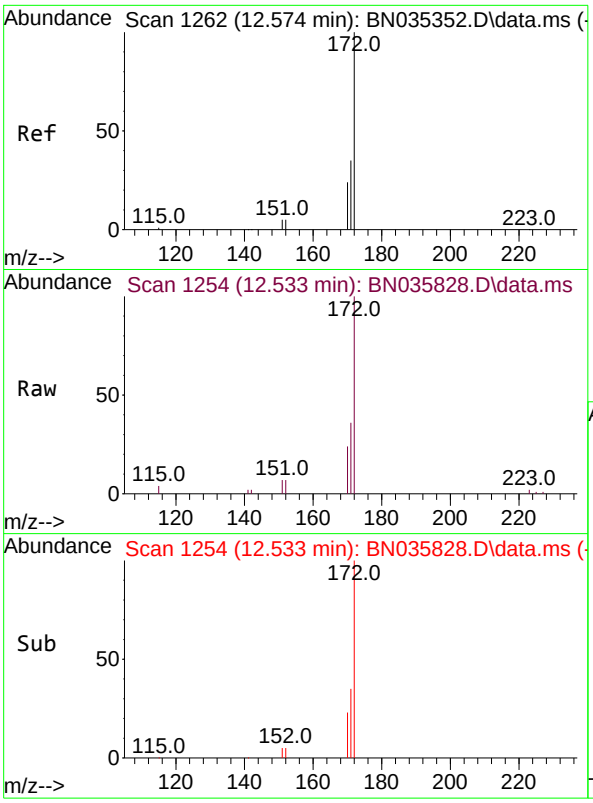



#14
2,4,6-Tribromophenol
Concen: 0.273 ng
RT: 15.442 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:330 Resp: 1040

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 0.0 | 0.0 | 0.0 |
| 141 | 32.0 | 26.6 | 40.0 |

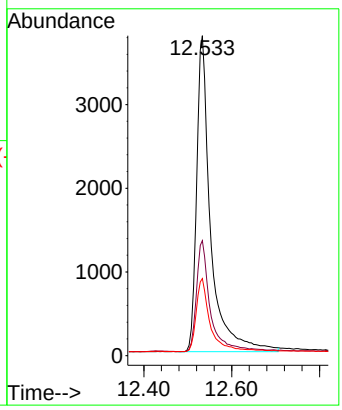





#15
2-Fluorobiphenyl
Concen: 0.414 ng
RT: 12.533 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:172 Resp: 840

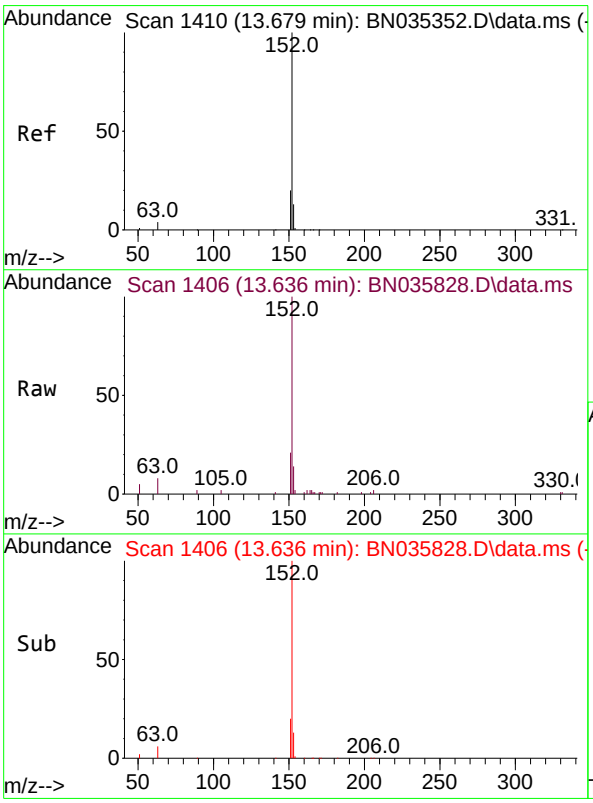
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 36.0 | 29.0 | 43.4 |
| 170 | 24.1 | 19.8 | 29.8 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations**
**APPROVED**

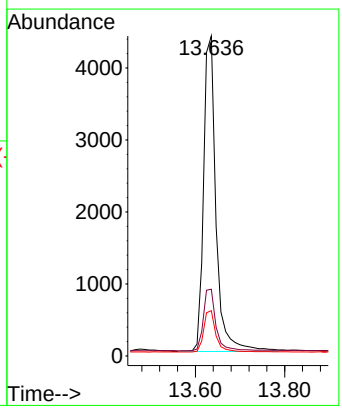
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

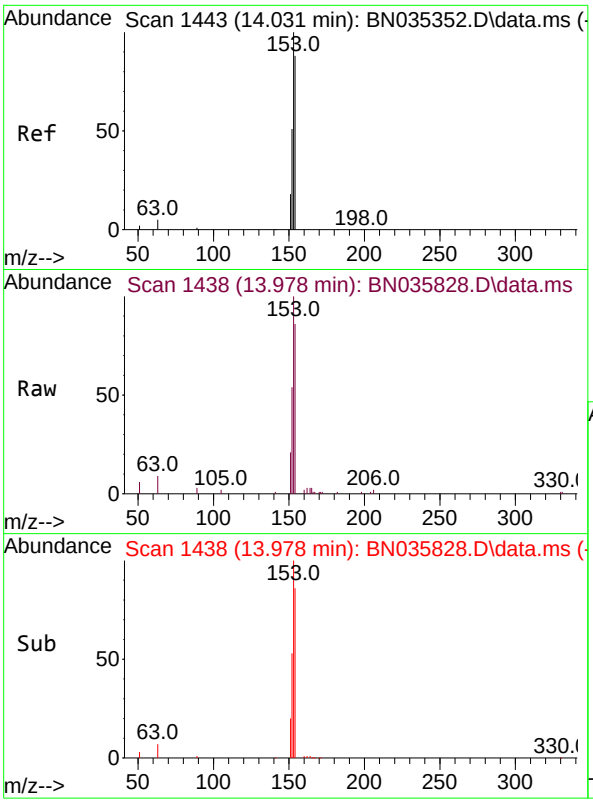



#16
Acenaphthylene
Concen: 0.375 ng
RT: 13.636 min Scan# 1406
Delta R.T. -0.011 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:152 Resp: 8453

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 19.8 | 16.2 | 24.2 |
| 153 | 13.0 | 10.4 | 15.6 |

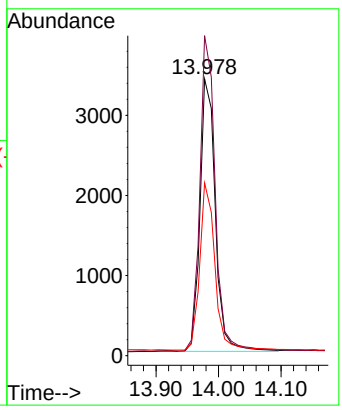





#17
Acenaphthene
Concen: 0.389 ng
RT: 13.978 min Scan# 14
Delta R.T. -0.022 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:154 Resp: 582

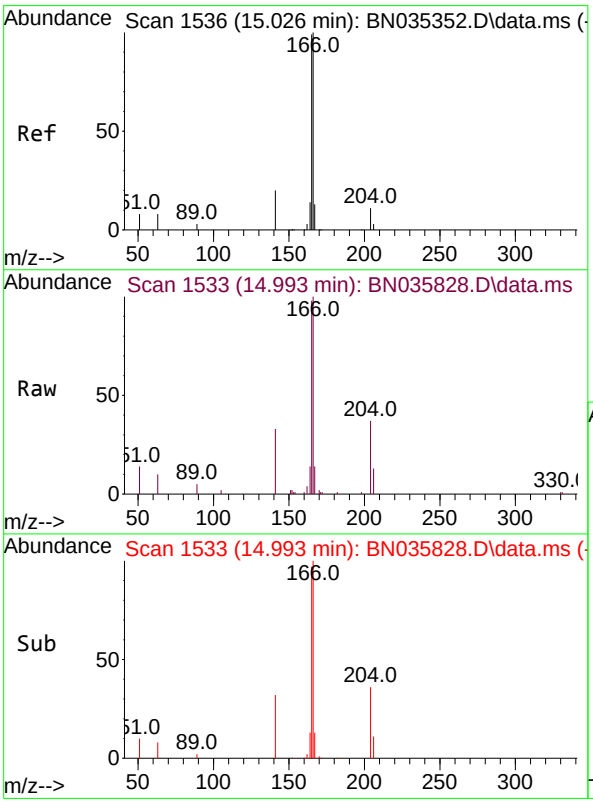
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 116.2 | 92.6 | 139.0 |
| 152 | 60.8 | 49.0 | 73.6 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations**
**APPROVED**

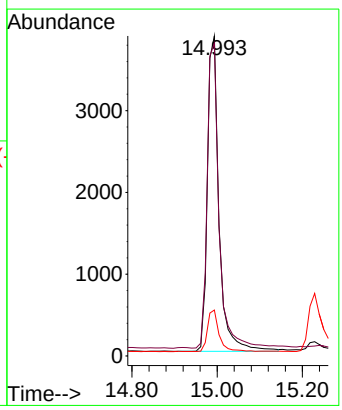
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

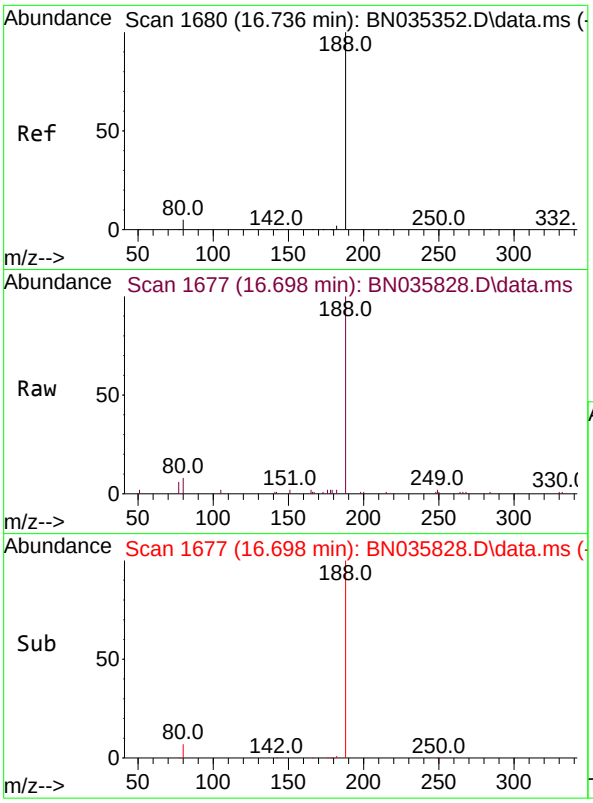



#18
Fluorene
Concen: 0.341 ng
RT: 14.993 min Scan# 1533
Delta R.T. -0.011 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:166 Resp: 7311

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 98.6 | 79.7 | 119.5 |
| 167 | 13.0 | 10.8 | 16.2 |

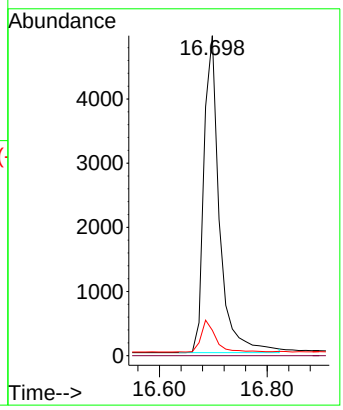





#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:188 Resp: 990

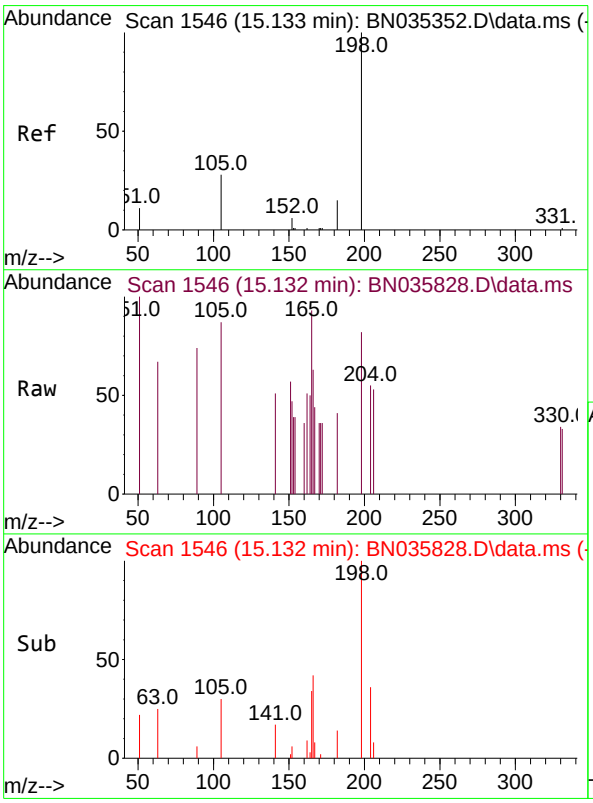
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 8.0 | 4.6 | 6.8# |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations**
**APPROVED**

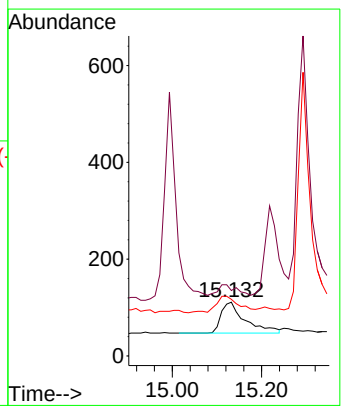
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

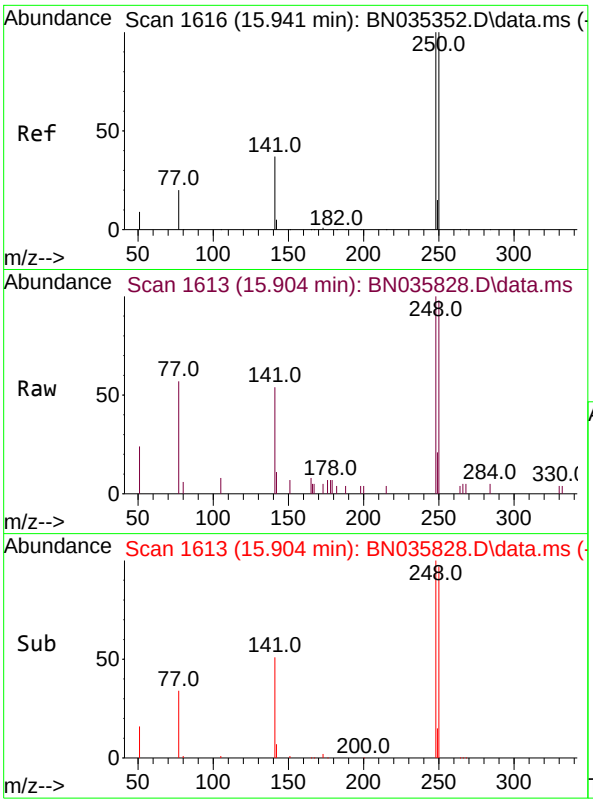



#20
4,6-Dinitro-2-methylphenol
Concen: 0.245 ng
RT: 15.132 min Scan# 1546
Delta R.T. 0.010 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:198 Resp: 239

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 198 | 100 | | |
| 51 | 121.6 | 46.5 | 69.7# |
| 105 | 105.4 | 45.3 | 67.9# |

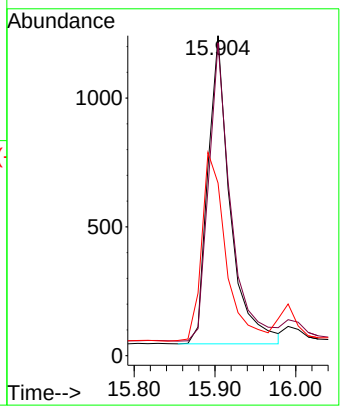





#21
4-Bromophenyl-phenylether
Concen: 0.395 ng
RT: 15.904 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:248 Resp: 228

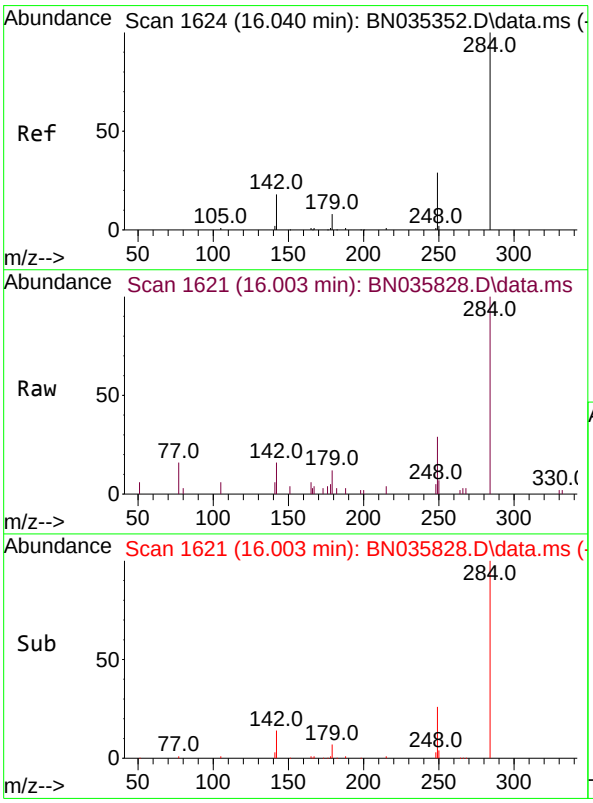
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 97.8 | 80.6 | 120.8 |
| 141 | 53.9 | 31.5 | 47.3 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations**
**APPROVED**

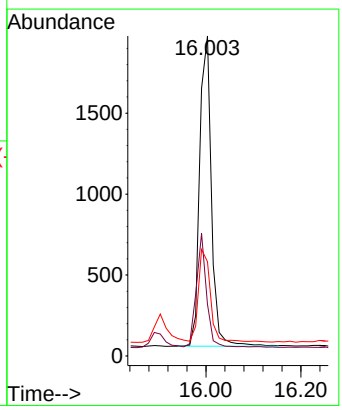
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

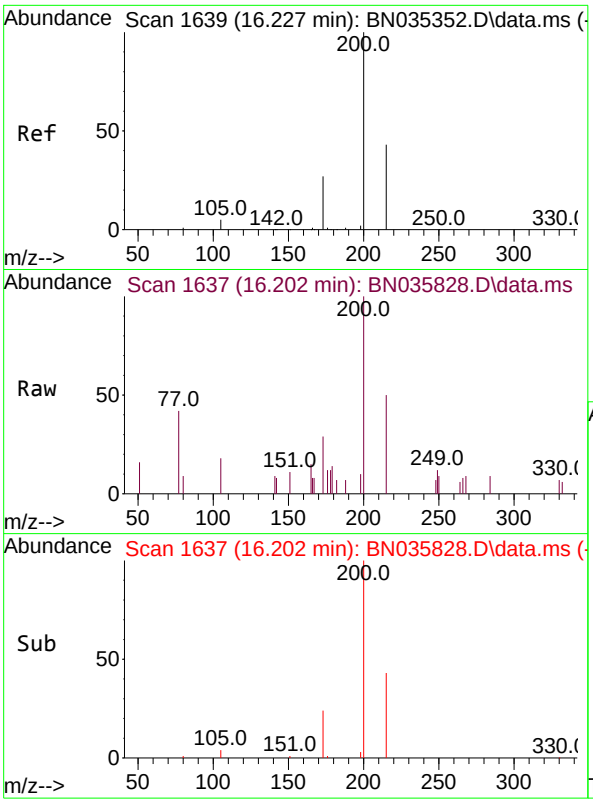



#22
Hexachlorobenzene
Concen: 0.484 ng
RT: 16.003 min Scan# 1621
Delta R.T. -0.013 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:284 Resp: 3296

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 32.1 | 26.7 | 40.1 |
| 249 | 30.7 | 24.6 | 36.8 |

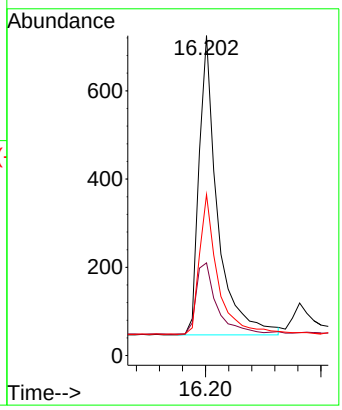





#23
Atrazine
Concen: 0.365 ng
RT: 16.202 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:200 Resp: 150

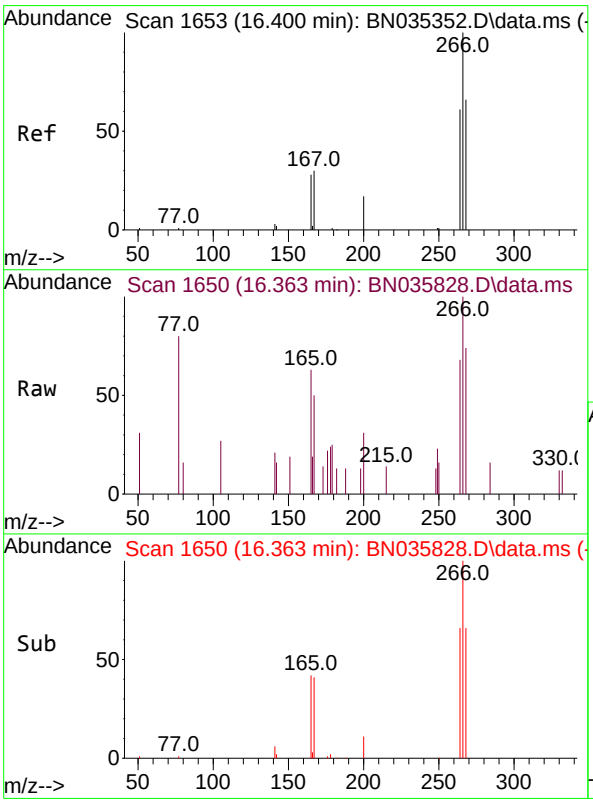
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 173 | 29.0 | 24.1 | 36.1 |
| 215 | 50.3 | 36.9 | 55.3 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations**
**APPROVED**

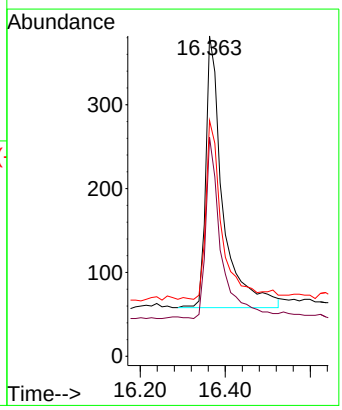
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

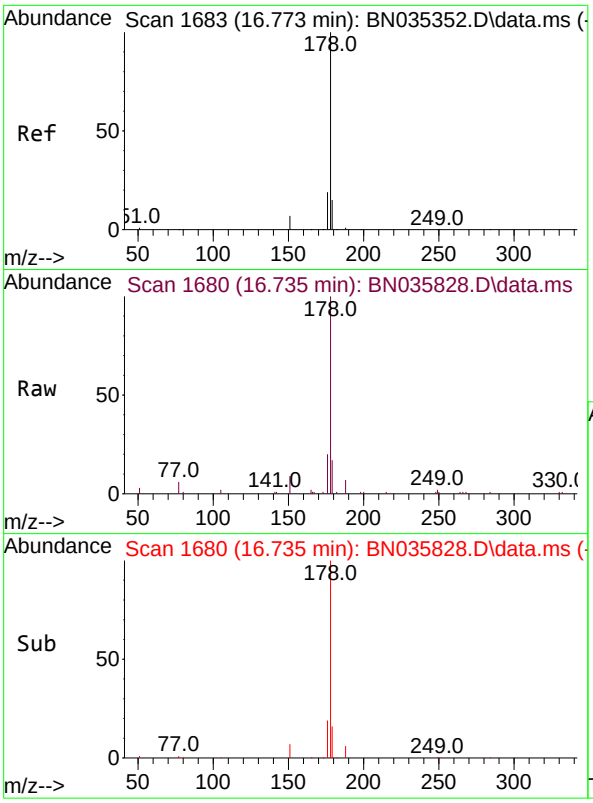



#24
Pentachlorophenol
Concen: 0.303 ng
RT: 16.363 min Scan# 1650
Delta R.T. -0.013 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:266 Resp: 898

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 264 | 60.9 | 42.3 | 63.5 |
| 268 | 61.1 | 43.3 | 64.9 |

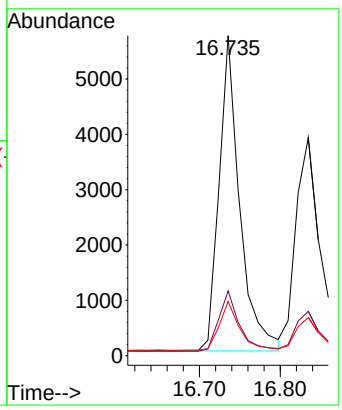





#25
Phenanthrene
Concen: 0.371 ng
RT: 16.735 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:178 Resp: 1009

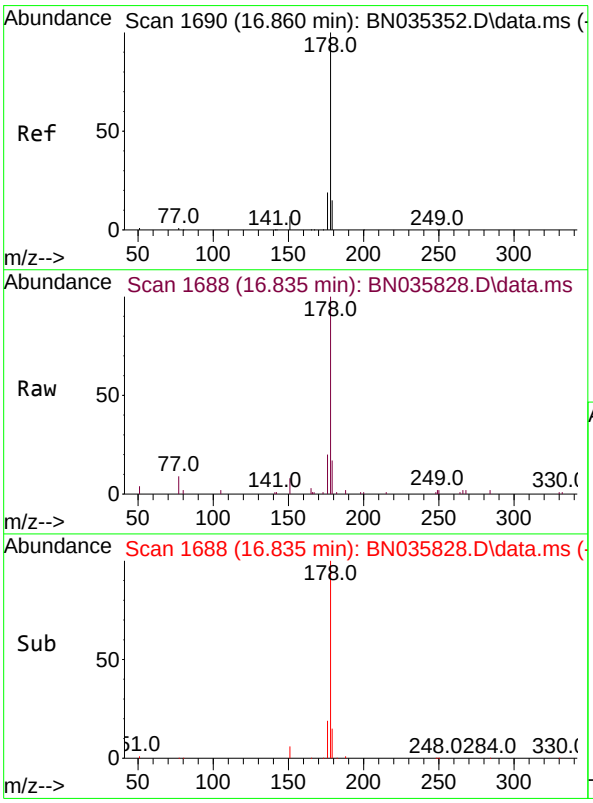
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.2 | 15.4 | 23.2 |
| 179 | 15.4 | 12.3 | 18.5 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations**
**APPROVED**

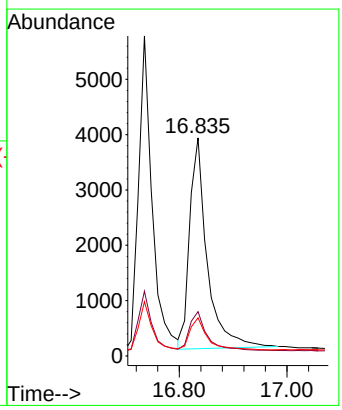
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

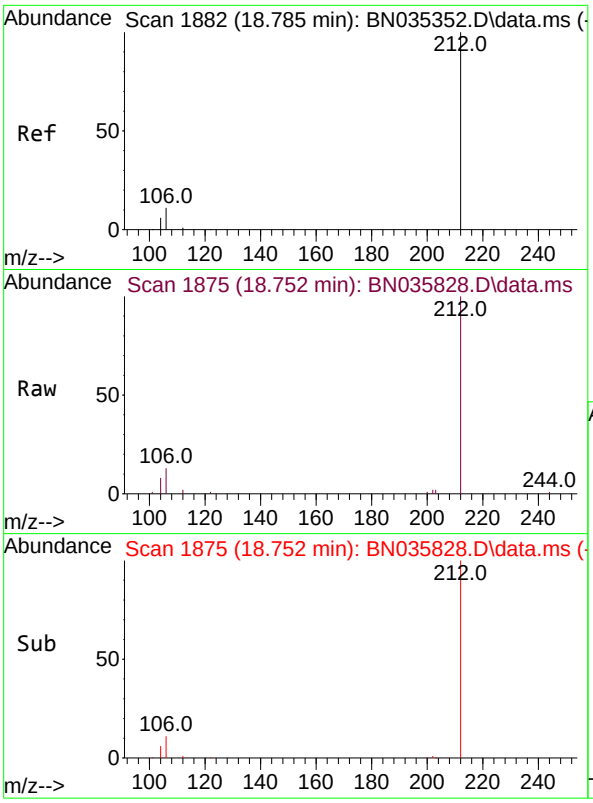



#26
Anthracene
Concen: 0.350 ng
RT: 16.835 min Scan# 1688
Delta R.T. -0.000 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:178 Resp: 8619

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.0 | 15.0 | 22.6 |
| 179 | 15.5 | 12.6 | 18.8 |

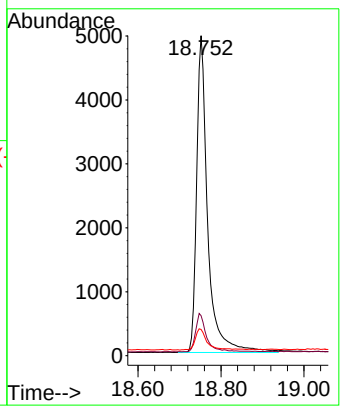





#27
Fluoranthene-d10
Concen: 0.328 ng
RT: 18.752 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:212 Resp: 922

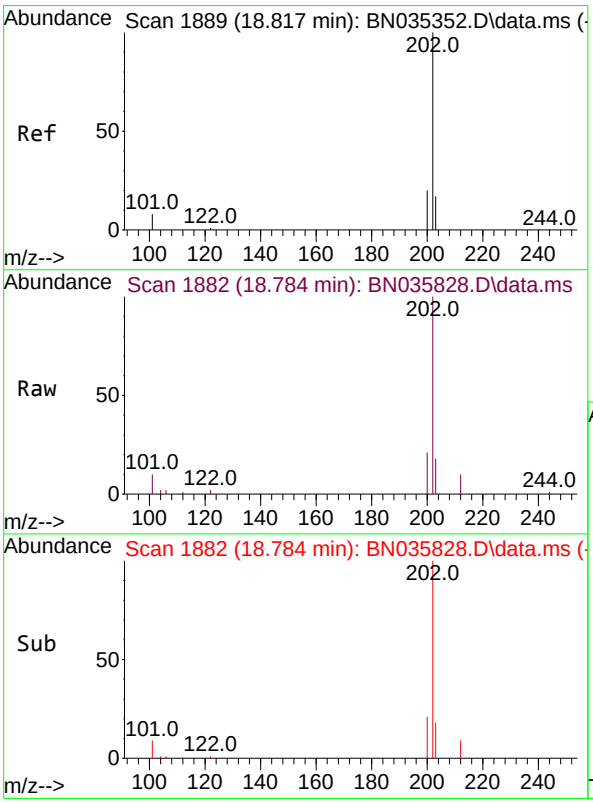
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 11.8 | 9.2 | 13.8 |
| 104 | 7.0 | 5.3 | 7.9 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations**
**APPROVED**

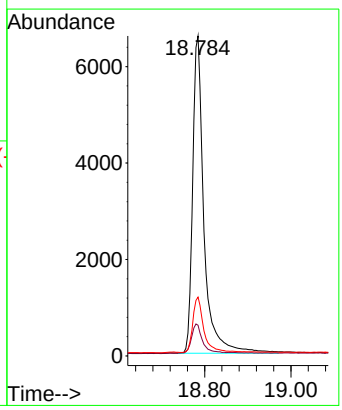
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

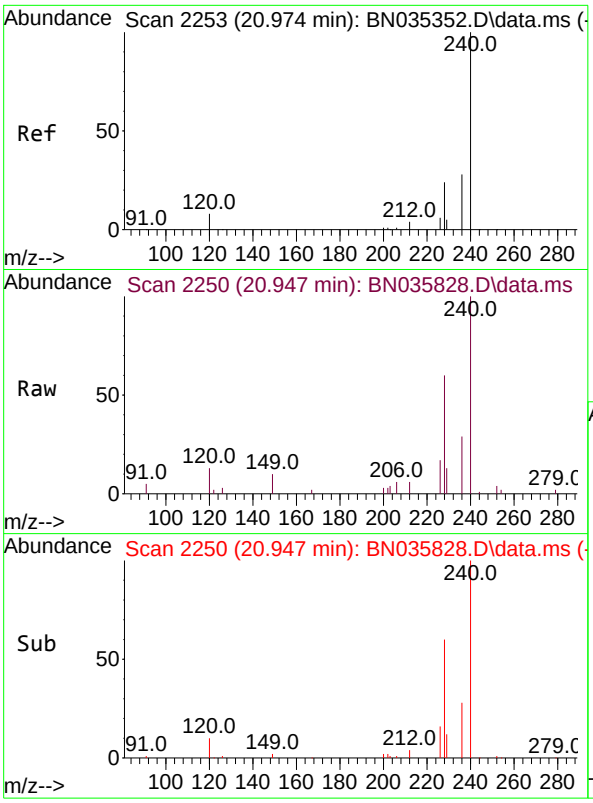



#28
Fluoranthene
Concen: 0.326 ng
RT: 18.784 min Scan# 1882
Delta R.T. -0.005 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:202 Resp: 11973

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 8.8 | 7.4 | 11.0 |
| 203 | 17.3 | 13.7 | 20.5 |

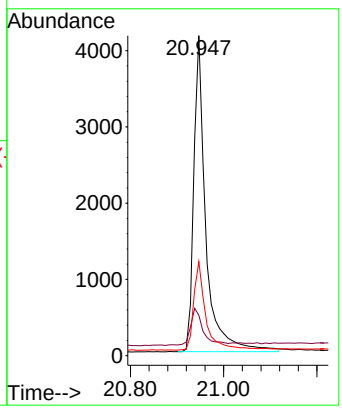





#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:240 Resp: 744

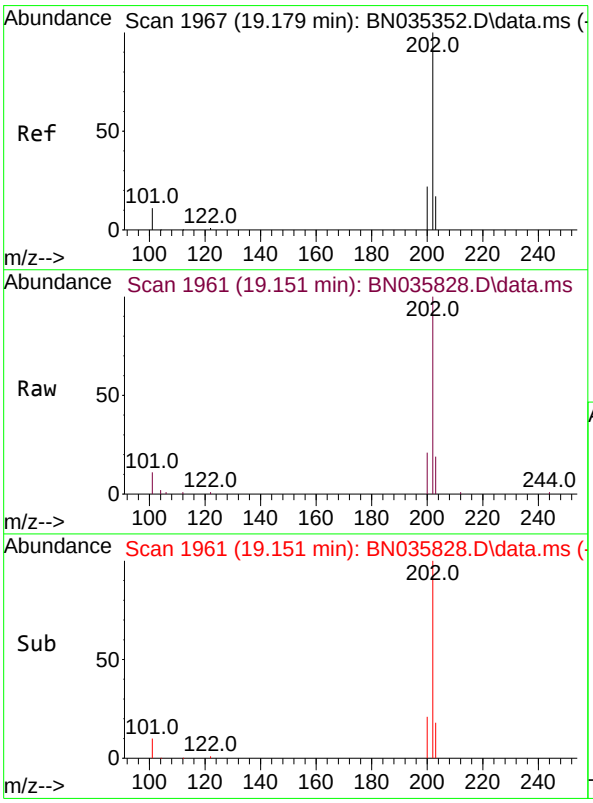
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 12.6 | 7.9 | 11.9 |
| 236 | 29.4 | 22.9 | 34.3 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations APPROVED**

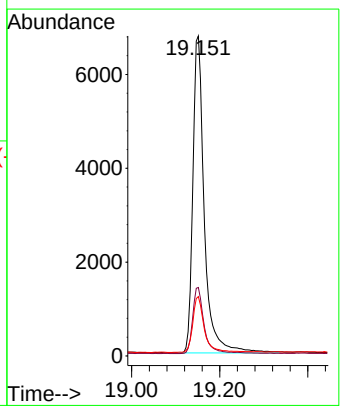
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

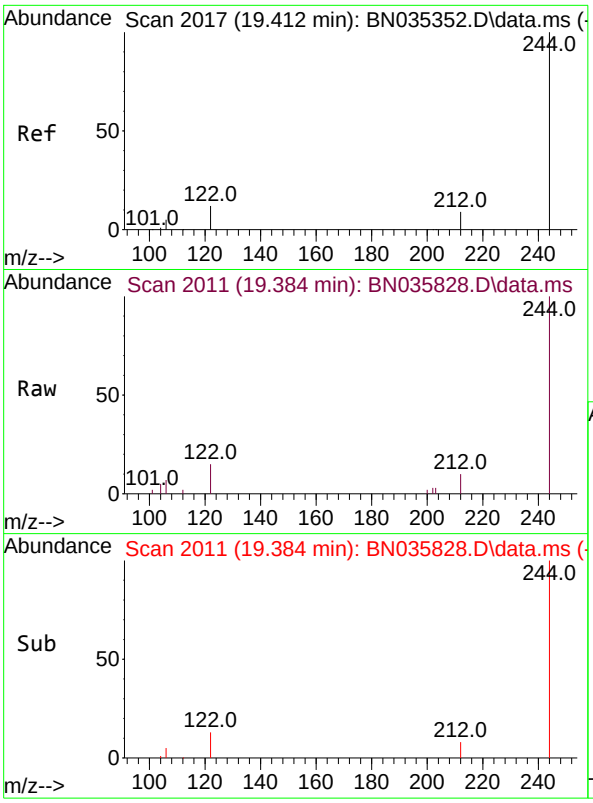



#30
Pyrene
Concen: 0.445 ng
RT: 19.151 min Scan# 1961
Delta R.T. -0.010 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:202 Resp: 12223

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 20.9 | 17.0 | 25.4 |
| 203 | 17.8 | 14.3 | 21.5 |

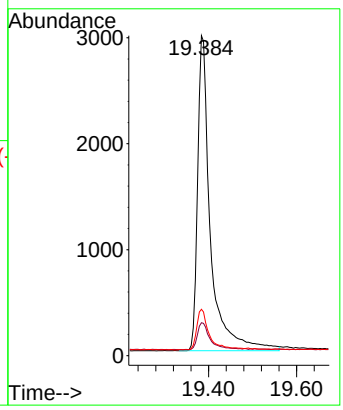





#31
Terphenyl-d14
Concen: 0.410 ng
RT: 19.384 min Scan# 2
Delta R.T. -0.005 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:244 Resp: 602

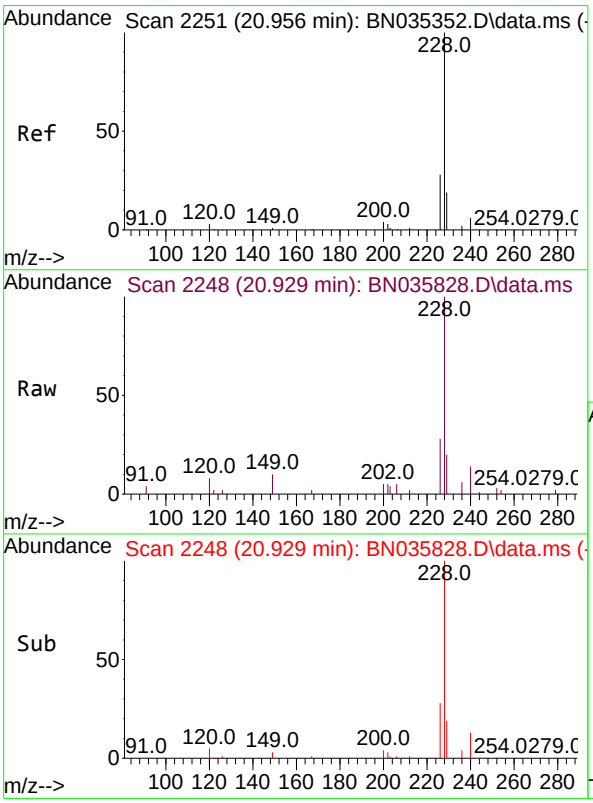
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 10.3 | 8.1 | 12.1 |
| 122 | 14.5 | 10.3 | 15.5 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations APPROVED**

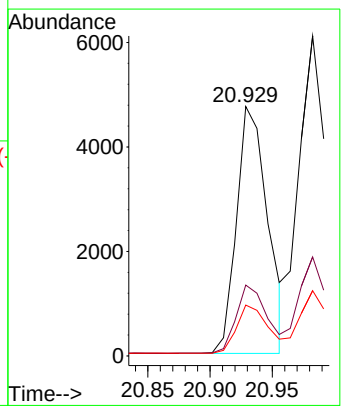
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

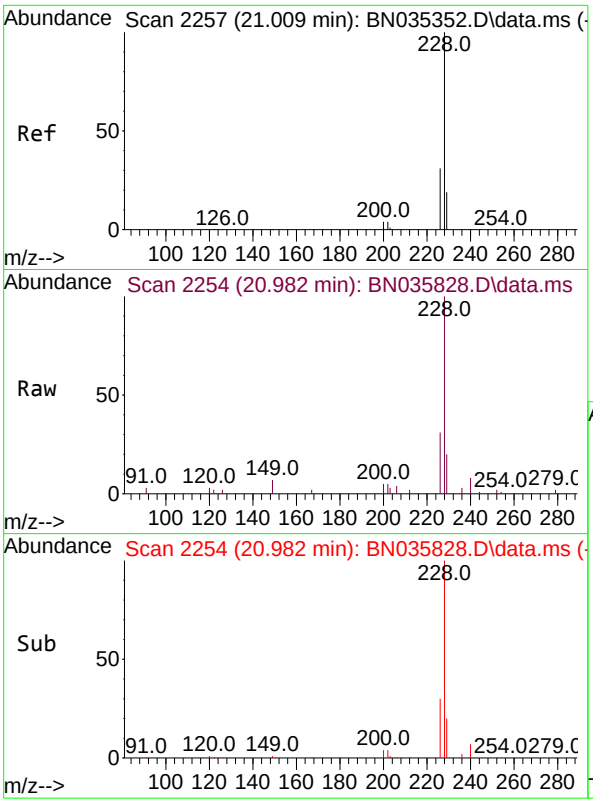



#32
Benzo(a)anthracene
Concen: 0.315 ng
RT: 20.929 min Scan# 2248
Delta R.T. -0.009 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:228 Resp: 8203

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 28.4 | 22.5 | 33.7 |
| 229 | 20.4 | 15.8 | 23.8 |

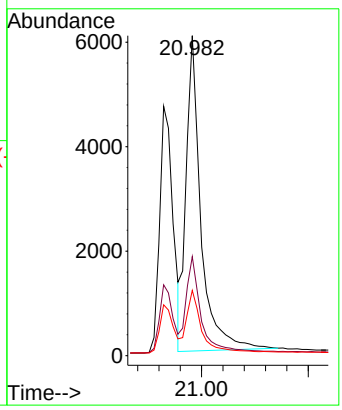





#33
Chrysene
Concen: 0.433 ng
RT: 20.982 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:228 Resp: 1162

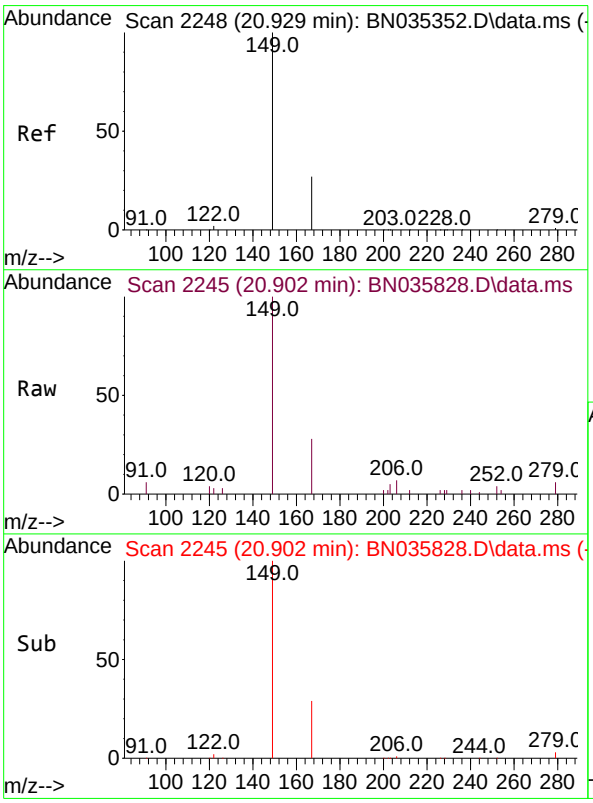
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 31.0 | 24.6 | 37.0 |
| 229 | 20.4 | 15.9 | 23.9 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations**
**APPROVED**

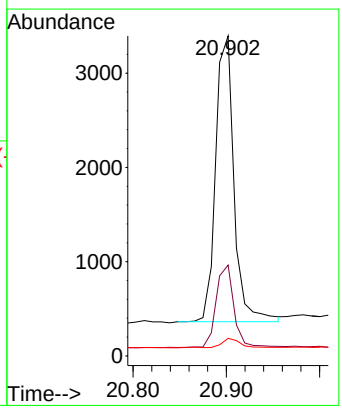
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

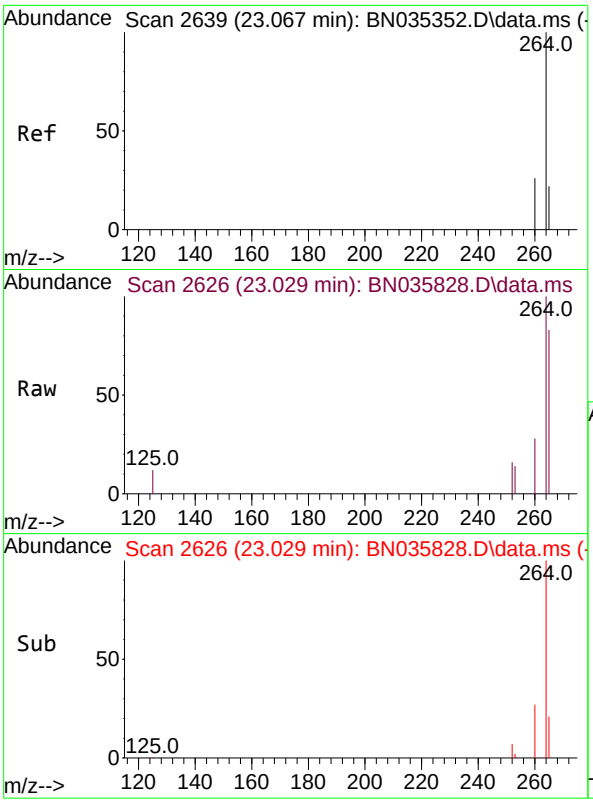



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.402 ng
RT: 20.902 min Scan# 2245
Delta R.T. -0.009 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:149 Resp: 4135

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 28.1 | 22.2 | 33.4 |
| 279 | 3.5 | 2.7 | 4.1 |

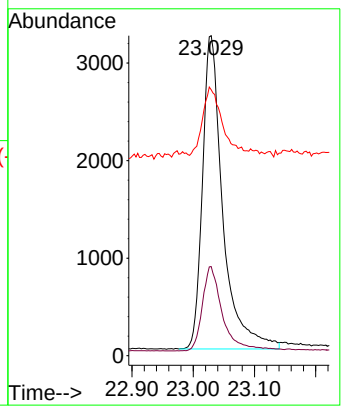





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.029 min Scan# 2
Delta R.T. -0.012 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:264 Resp: 742

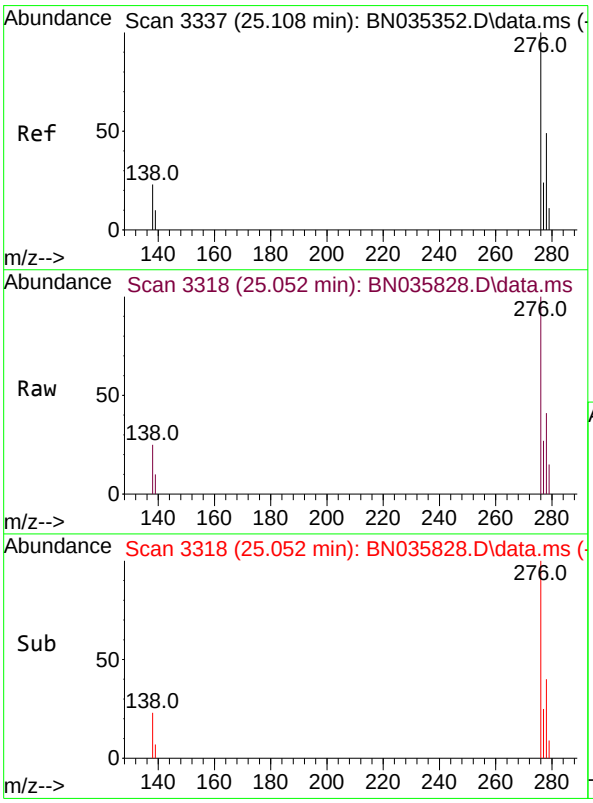
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 27.9 | 21.4 | 32.2 |
| 265 | 83.1 | 40.2 | 60.4# |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations**
**APPROVED**

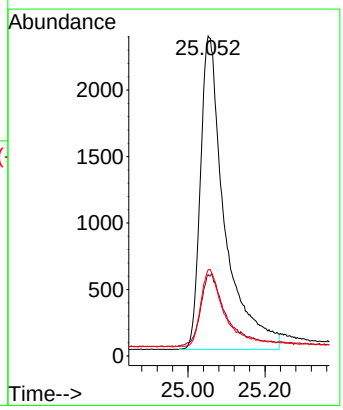
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

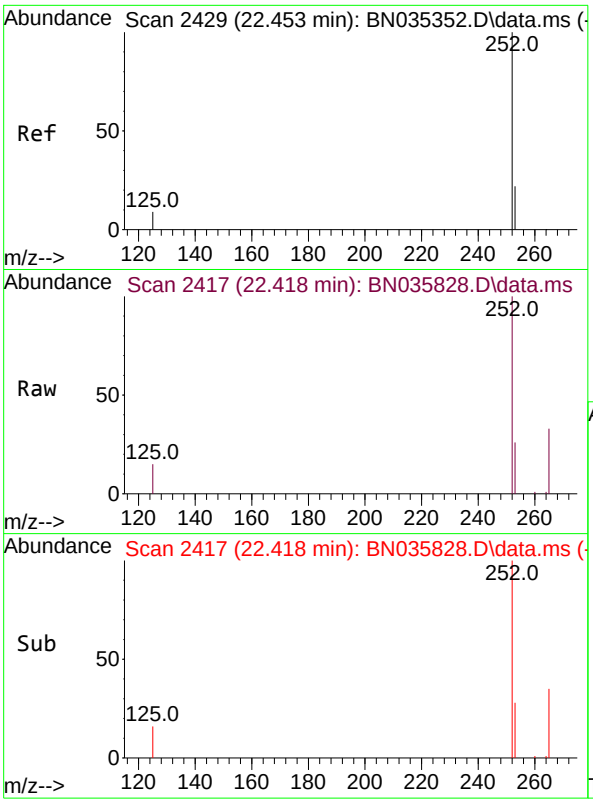



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.355 ng
RT: 25.052 min Scan# 3318
Delta R.T. -0.015 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:276 Resp: 10298

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 8.7 | 19.4 | 29.0# |
| 277 | 22.9 | 19.8 | 29.6 |

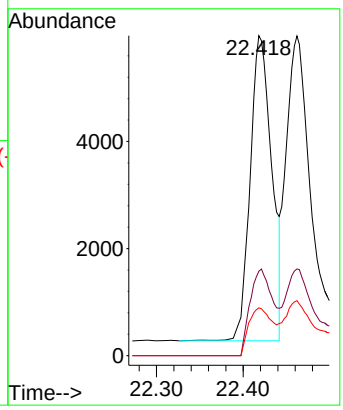





#37
Benzo(b)fluoranthene
Concen: 0.635 ng
RT: 22.418 min Scan# 24
Delta R.T. -0.012 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:252 Resp: 1724

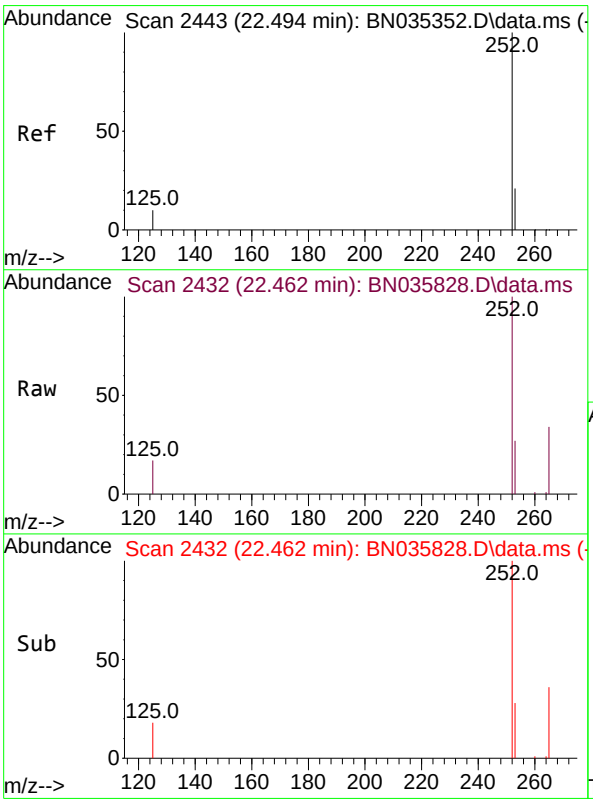
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 26.4 | 19.6 | 29.4 |
| 125 | 15.0 | 9.6 | 14.4# |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations**
**APPROVED**

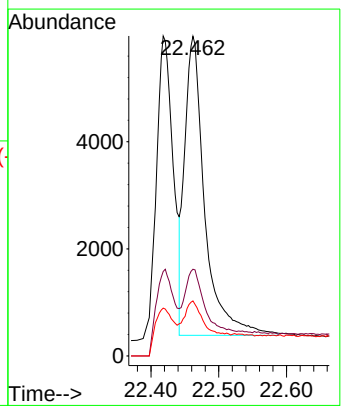
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

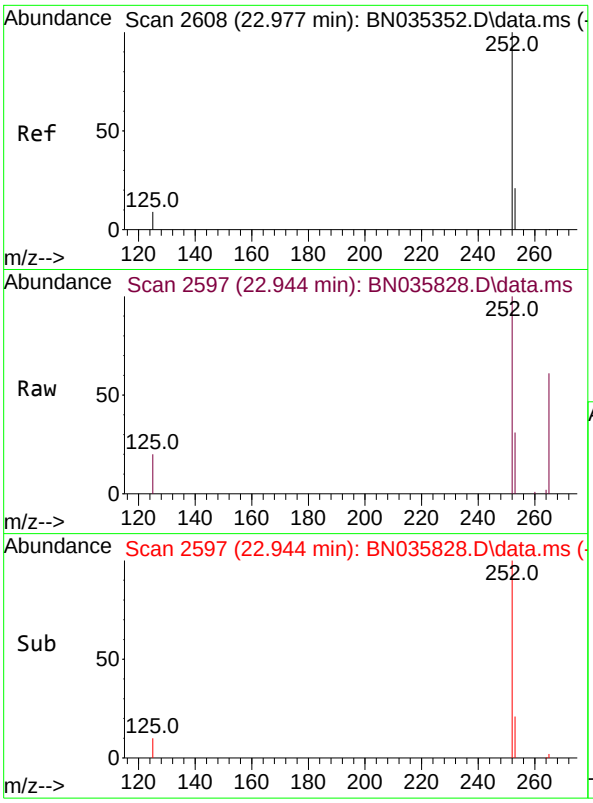



#38
Benzo(k)fluoranthene
Concen: 0.432 ng m
RT: 22.462 min Scan# 2432
Delta R.T. -0.009 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:252 Resp: 11542

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 27.1 | 19.5 | 29.3 |
| 125 | 17.2 | 10.2 | 15.4# |

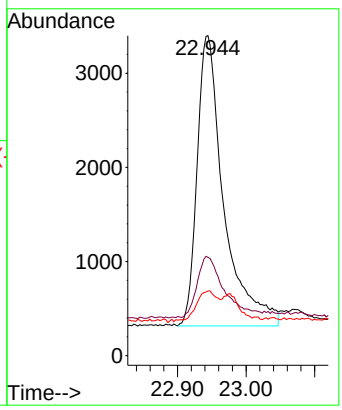





#39
Benzo(a)pyrene
Concen: 0.373 ng
RT: 22.944 min Scan# 2
Delta R.T. -0.006 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:252 Resp: 833

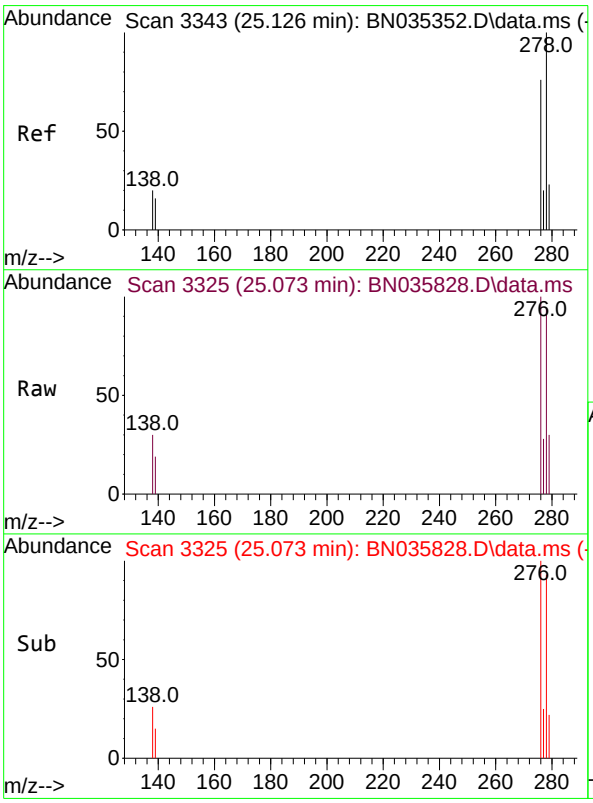
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 30.7 | 20.2 | 30.4# |
| 125 | 20.2 | 10.9 | 16.3# |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations**
**APPROVED**

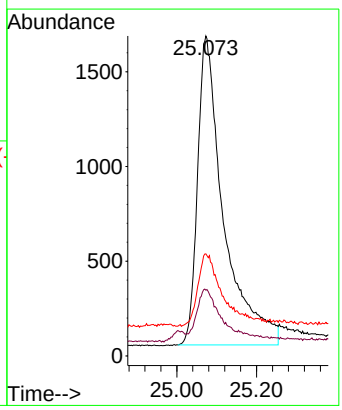
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

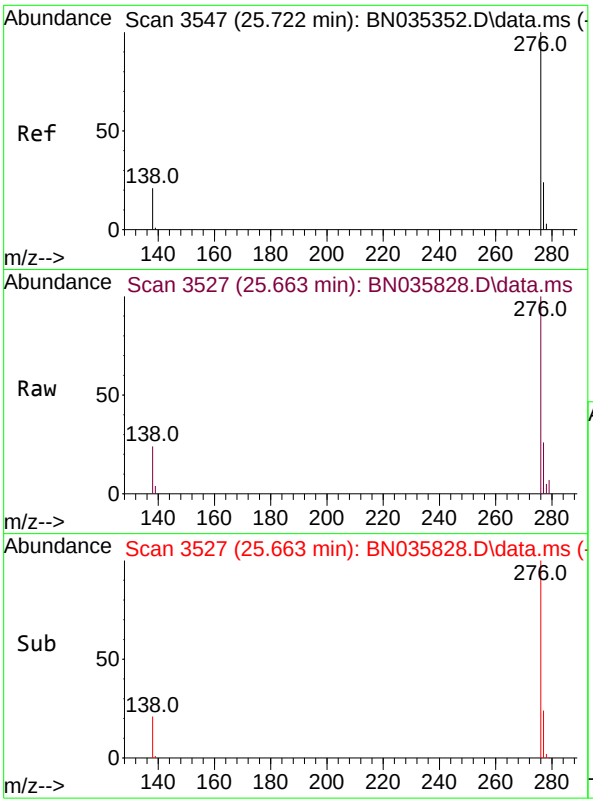



#40
Dibenzo(a,h)anthracene
Concen: 0.323 ng
RT: 25.073 min Scan# 3325
Delta R.T. -0.009 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:278 Resp: 7409

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 20.5 | 14.2 | 21.4 |
| 279 | 31.9 | 20.5 | 30.7# |

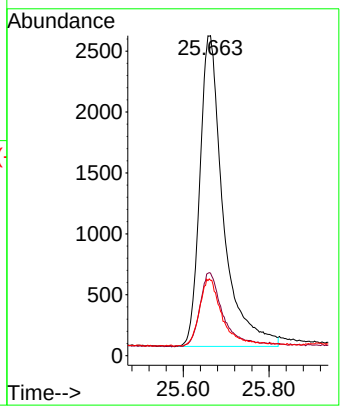





#41
Benzo(g,h,i)perylene
Concen: 0.403 ng
RT: 25.663 min Scan# 3
Delta R.T. -0.015 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:276 Resp: 965

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 25.8 | 19.9 | 29.9 |
| 138 | 23.6 | 17.8 | 26.8 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035828.D
Acq On : 24 Dec 2024 19:05
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 20 Sample Multiplier: 1

**Instrument :**
BNA_N
**LabSampleId :**
SSTDCCC0.4

Quant Time: Dec 24 23:54:42 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 196# | -0.02 |
| 2 | | 1,4-Dioxane | 0.382 | 0.501 | -31.2# | 260# | 0.00 |
| 3 | | n-Nitrosodimethylamine | 0.319 | 0.306 | 4.1 | 184# | 0.00 |
| 4 | S | 2-Fluorophenol | 1.001 | 0.895 | 10.6 | 172# | -0.01 |
| 5 | S | Phenol-d6 | 1.204 | 1.524 | -26.6# | 250# | -0.02 |
| 6 | | bis(2-Chloroethyl)ether | 1.012 | 1.030 | -1.8 | 203# | -0.01 |
| 7 | I | Naphthalene-d8 | 1.000 | 1.000 | 0.0 | 188# | -0.02 |
| 8 | S | Nitrobenzene-d5 | 0.244 | 0.319 | -30.7# | 256# | -0.01 |
| 9 | | Naphthalene | 1.055 | 1.095 | -3.8 | 197# | -0.01 |
| 10 | | Hexachlorobutadiene | 0.243 | 0.283 | -16.5 | 215# | -0.02 |
| 11 | SURR | 2-Methylnaphthalene-d10 | 0.626 | 0.533 | 14.9 | 162# | -0.01 |
| 12 | | 2-Methylnaphthalene | 0.755 | 0.661 | 12.5 | 168# | -0.01 |
| 13 | I | Acenaphthene-d10 | 1.000 | 1.000 | 0.0 | 141 | -0.02 |
| 14 | S | 2,4,6-Tribromophenol | 0.284 | 0.194 | 31.7# | 107 | -0.01 |
| 15 | S | 2-Fluorobiphenyl | 1.512 | 1.565 | -3.5 | 147 | -0.01 |
| 16 | | Acenaphthylene | 1.680 | 1.573 | 6.4 | 140 | -0.01 |
| 17 | | Acenaphthene | 1.115 | 1.083 | 2.9 | 141 | -0.02 |
| 18 | | Fluorene | 1.596 | 1.361 | 14.7 | 125 | -0.01 |
| 19 | I | Phenanthrene-d10 | 1.000 | 1.000 | 0.0 | 104 | 0.00 |
| 20 | | 4,6-Dinitro-2-methylphenol | 0.039 | 0.024 | 38.5# | 71 | 0.01 |
| 21 | | 4-Bromophenyl-phenylether | 0.234 | 0.231 | 1.3 | 107 | -0.01 |
| 22 | | Hexachlorobenzene | 0.275 | 0.333 | -21.1 | 127 | -0.01 |
| 23 | | Atrazine | 0.167 | 0.152 | 9.0 | 103 | 0.00 |
| 24 | | Pentachlorophenol | 0.120 | 0.091 | 24.2 | 99 | -0.01 |
| 25 | | Phenanthrene | 1.099 | 1.019 | 7.3 | 100 | -0.01 |
| 26 | | Anthracene | 0.994 | 0.870 | 12.5 | 97 | 0.00 |
| 27 | SURR | Fluoranthene-d10 | 1.134 | 0.931 | 17.9 | 90 | 0.00 |
| 28 | | Fluoranthene | 1.481 | 1.209 | 18.4 | 89 | 0.00 |
| 29 | I | Chrysene-d12 | 1.000 | 1.000 | 0.0 | 78 | 0.00 |
| 30 | | Pyrene | 1.477 | 1.641 | -11.1 | 87 | 0.00 |
| 31 | S | Terphenyl-d14 | 0.789 | 0.809 | -2.5 | 80 | 0.00 |
| 32 | | Benzo(a)anthracene | 1.399 | 1.102 | 21.2 | 64 | 0.00 |
| 33 | | Chrysene | 1.443 | 1.561 | -8.2 | 85 | 0.00 |
| 34 | | Bis(2-ethylhexyl)phthalate | 0.553 | 0.555 | -0.4 | 84 | 0.00 |
| 35 | I | Perylene-d12 | 1.000 | 1.000 | 0.0 | 68 | -0.01 |
| 36 | | Indeno(1,2,3-cd)pyrene | 1.564 | 1.387 | 11.3 | 62 | -0.01 |
| 37 | | Benzo(b)fluoranthene | 1.463 | 2.322 | -58.7# | 121 | -0.01 |
| 38 | | Benzo(k)fluoranthene | 1.440 | 1.554 | -7.9 | 76 | 0.00 |
| 39 | C | Benzo(a)pyrene | 1.205 | 1.123 | 6.8 | 67 | 0.00 |
| 40 | | Dibenzo(a,h)anthracene | 1.234 | 0.998 | 19.1 | 57 | 0.00 |
| 41 | | Benzo(g,h,i)perylene | 1.289 | 1.300 | -0.9 | 71 | -0.01 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035828.D
Acq On : 24 Dec 2024 19:05
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 20 Sample Multiplier: 1

**Instrument :**
BNA_N
**LabSampleId :**
SSTDCCC0.4

Quant Time: Dec 24 23:54:42 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | 1,4-Dichlorobenzene-d4 | 0.400 | 0.400 | 0.0 | 196 | -0.02 |
| 2 | | 1,4-Dioxane | 0.400 | 0.524 | -31.0# | 260 | 0.00 |
| 3 | | n-Nitrosodimethylamine | 0.400 | 0.384 | 4.0 | 184 | 0.00 |
| 4 | S | 2-Fluorophenol | 0.400 | 0.358 | 10.5 | 172 | -0.01 |
| 5 | S | Phenol-d6 | 0.400 | 0.506 | -26.5# | 250 | -0.02 |
| 6 | | bis(2-Chloroethyl)ether | 0.400 | 0.407 | -1.7 | 203 | -0.01 |
| 7 | I | Naphthalene-d8 | 0.400 | 0.400 | 0.0 | 188 | -0.02 |
| 8 | S | Nitrobenzene-d5 | 0.400 | 0.522 | -30.5# | 256 | -0.01 |
| 9 | | Naphthalene | 0.400 | 0.415 | -3.7 | 197 | -0.01 |
| 10 | | Hexachlorobutadiene | 0.400 | 0.465 | -16.3 | 215 | -0.02 |
| 11 | SURR | 2-Methylnaphthalene-d10 | 0.400 | 0.341 | 14.8 | 162 | -0.01 |
| 12 | | 2-Methylnaphthalene | 0.400 | 0.350 | 12.5 | 168 | -0.01 |
| 13 | I | Acenaphthene-d10 | 0.400 | 0.400 | 0.0 | 141 | -0.02 |
| 14 | S | 2,4,6-Tribromophenol | 0.400 | 0.273 | 31.8# | 107 | -0.01 |
| 15 | S | 2-Fluorobiphenyl | 0.400 | 0.414 | -3.5 | 147 | -0.01 |
| 16 | | Acenaphthylene | 0.400 | 0.375 | 6.3 | 140 | -0.01 |
| 17 | | Acenaphthene | 0.400 | 0.389 | 2.8 | 141 | -0.02 |
| 18 | | Fluorene | 0.400 | 0.341 | 14.8 | 125 | -0.01 |
| 19 | I | Phenanthrene-d10 | 0.400 | 0.400 | 0.0 | 104 | 0.00 |
| 20 | | 4,6-Dinitro-2-methylphenol | 0.400 | 0.245 | 38.8# | 71 | 0.01 |
| 21 | | 4-Bromophenyl-phenylether | 0.400 | 0.395 | 1.3 | 107 | -0.01 |
| 22 | | Hexachlorobenzene | 0.400 | 0.484 | -21.0 | 127 | -0.01 |
| 23 | | Atrazine | 0.400 | 0.365 | 8.8 | 103 | 0.00 |
| 24 | | Pentachlorophenol | 0.400 | 0.303 | 24.3 | 99 | -0.01 |
| 25 | | Phenanthrene | 0.400 | 0.371 | 7.3 | 100 | -0.01 |
| 26 | | Anthracene | 0.400 | 0.350 | 12.5 | 97 | 0.00 |
| 27 | SURR | Fluoranthene-d10 | 0.400 | 0.328 | 18.0 | 90 | 0.00 |
| 28 | | Fluoranthene | 0.400 | 0.326 | 18.5 | 89 | 0.00 |
| 29 | I | Chrysene-d12 | 0.400 | 0.400 | 0.0 | 78 | 0.00 |
| 30 | | Pyrene | 0.400 | 0.445 | -11.2 | 87 | 0.00 |
| 31 | S | Terphenyl-d14 | 0.400 | 0.410 | -2.5 | 80 | 0.00 |
| 32 | | Benzo(a)anthracene | 0.400 | 0.315 | 21.3 | 64 | 0.00 |
| 33 | | Chrysene | 0.400 | 0.433 | -8.2 | 85 | 0.00 |
| 34 | | Bis(2-ethylhexyl)phthalate | 0.400 | 0.402 | -0.5 | 84 | 0.00 |
| 35 | I | Perylene-d12 | 0.400 | 0.400 | 0.0 | 68 | -0.01 |
| 36 | | Indeno(1,2,3-cd)pyrene | 0.400 | 0.355 | 11.3 | 62 | -0.01 |
| 37 | | Benzo(b)fluoranthene | 0.400 | 0.635 | -58.7# | 121 | -0.01 |
| 38 | | Benzo(k)fluoranthene | 0.400 | 0.432 | -8.0 | 76 | 0.00 |
| 39 | C | Benzo(a)pyrene | 0.400 | 0.373 | 6.8 | 67 | 0.00 |
| 40 | | Dibenzo(a,h)anthracene | 0.400 | 0.323 | 19.3 | 57 | 0.00 |
| 41 | | Benzo(g,h,i)perylene | 0.400 | 0.403 | -0.8 | 71 | -0.01 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

7C

## SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: P5376 SAS No.: P5376 SDG No.: P5376

Instrument ID: BNA_N Calibration Date/Time: 12/24/2024 20:55

Lab File ID: BN035830.D Init. Calib. Date(s): 11/27/2024 11/27/2024

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 15:34 19:09

GC Column: ZB-GR ID: 0.25 (mm)

| COMPOUND | RRF | RRF0.4 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| 2-Methylnaphthalene-d10 | 0.626 | 0.551 | | -12.0 | 20.0 |
| Fluoranthene-d10 | 1.134 | 0.951 | | -16.1 | 20.0 |
| 2-Fluorophenol | 1.001 | 0.909 | | -9.2 | 20.0 |
| Phenol-d6 | 1.204 | 1.553 | | 29.0 | 20.0 |
| Nitrobenzene-d5 | 0.244 | 0.308 | | 26.2 | 20.0 |
| 2-Fluorobiphenyl | 1.512 | 1.517 | | 0.3 | 20.0 |
| 2,4,6-Tribromophenol | 0.284 | 0.202 | | -28.9 | 20.0 |
| Terphenyl-d14 | 0.789 | 0.833 | | 5.6 | 20.0 |
| 1,4-Dioxane | 0.382 | 0.490 | | 28.3 | 20.0 |

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035830.D
Acq On : 24 Dec 2024 20:55
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Dec 24 23:55:02 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.257 | 152 | 3866 | 0.400 | ng | -0.01 |
| 7) Naphthalene-d8 | 9.998 | 136 | 9955 | 0.400 | ng | -0.02 |
| 13) Acenaphthene-d10 | 13.914 | 164 | 5956 | 0.400 | ng | -0.02 |
| 19) Phenanthrene-d10 | 16.698 | 188 | 11143 | 0.400 | ng | # 0.00 |
| 29) Chrysene-d12 | 20.947 | 240 | 7851 | 0.400 | ng | # 0.00 |
| 35) Perylene-d12 | 23.026 | 264 | 7870 | 0.400 | ng | #-0.01 |
| System Monitoring Compounds | | | | | | |
| 4) 2-Fluorophenol | 4.924 | 112 | 3514 | 0.363 | ng | -0.01 |
| 5) Phenol-d6 | 6.470 | 99 | 6003 | 0.516 | ng | -0.02 |
| 8) Nitrobenzene-d5 | 8.397 | 82 | 3063m | 0.504 | ng | -0.01 |
| 11) 2-Methylnaphthalene-d10 | 11.605 | 152 | 5482 | 0.352 | ng | -0.02 |
| 14) 2,4,6-Tribromophenol | 15.443 | 330 | 1203 | 0.285 | ng | -0.01 |
| 15) 2-Fluorobiphenyl | 12.528 | 172 | 9033 | 0.401 | ng | -0.02 |
| 27) Fluoranthene-d10 | 18.752 | 212 | 10597m | 0.335 | ng | 0.00 |
| 31) Terphenyl-d14 | 19.384 | 244 | 6543 | 0.422 | ng | 0.00 |
| Target Compounds | | | | | | Qvalue |
| 2) 1,4-Dioxane | 2.974 | 88 | 1895m | 0.513 | ng | |
| 3) n-Nitrosodimethylamine | 3.270 | 42 | 1162 | 0.377 | ng | # 83 |
| 6) bis(2-Chloroethyl)ether | 6.715 | 93 | 4053 | 0.415 | ng | 99 |
| 9) Naphthalene | 10.052 | 128 | 10855 | 0.413 | ng | 99 |
| 10) Hexachlorobutadiene | 10.340 | 225 | 2815 | 0.465 | ng | # 100 |
| 12) 2-Methylnaphthalene | 11.681 | 142 | 6938 | 0.369 | ng | 98 |
| 16) Acenaphthylene | 13.625 | 152 | 9384 | 0.375 | ng | 100 |
| 17) Acenaphthene | 13.978 | 154 | 6532 | 0.393 | ng | 100 |
| 18) Fluorene | 14.983 | 166 | 8318 | 0.350 | ng | 99 |
| 20) 4,6-Dinitro-2-methylph... | 15.122 | 198 | 301 | 0.275 | ng | # 35 |
| 21) 4-Bromophenyl-phenylether | 15.904 | 248 | 2677 | 0.411 | ng | # 94 |
| 22) Hexachlorobenzene | 16.003 | 284 | 3900 | 0.510 | ng | 96 |
| 23) Atrazine | 16.202 | 200 | 1790 | 0.386 | ng | 96 |
| 24) Pentachlorophenol | 16.363 | 266 | 1032 | 0.310 | ng | 88 |
| 25) Phenanthrene | 16.735 | 178 | 11523 | 0.376 | ng | 100 |
| 26) Anthracene | 16.835 | 178 | 9576 | 0.346 | ng | 100 |
| 28) Fluoranthene | 18.780 | 202 | 13046 | 0.316 | ng | 100 |
| 30) Pyrene | 19.152 | 202 | 13156 | 0.454 | ng | 100 |
| 32) Benzo(a)anthracene | 20.929 | 228 | 8776 | 0.320 | ng | 100 |
| 33) Chrysene | 20.983 | 228 | 12184 | 0.430 | ng | 100 |
| 34) Bis(2-ethylhexyl)phtha... | 20.902 | 149 | 4711 | 0.434 | ng | 100 |
| 36) Indeno(1,2,3-cd)pyrene | 25.052 | 276 | 10972 | 0.357 | ng | 99 |
| 37) Benzo(b)fluoranthene | 22.418 | 252 | 14430 | 0.501 | ng | # 95 |
| 38) Benzo(k)fluoranthene | 22.459 | 252 | 12555m | 0.443 | ng | |
| 39) Benzo(a)pyrene | 22.942 | 252 | 8861 | 0.374 | ng | # 88 |
| 40) Dibenzo(a,h)anthracene | 25.076 | 278 | 7792 | 0.321 | ng | 92 |
| 41) Benzo(g,h,i)perylene | 25.661 | 276 | 10218 | 0.403 | ng | 99 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

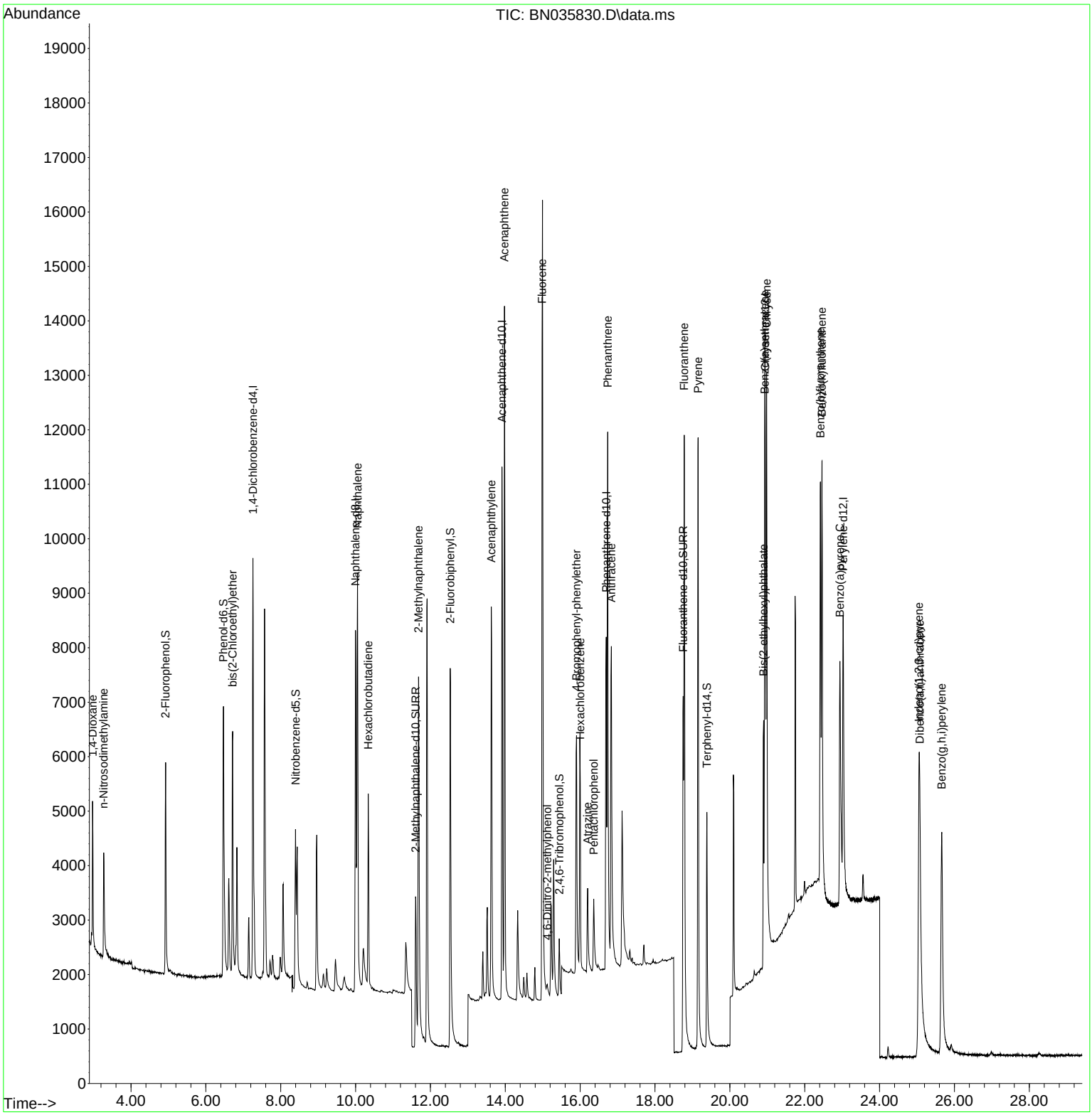
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035830.D
Acq On : 24 Dec 2024 20:55
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 20 Sample Multiplier: 1

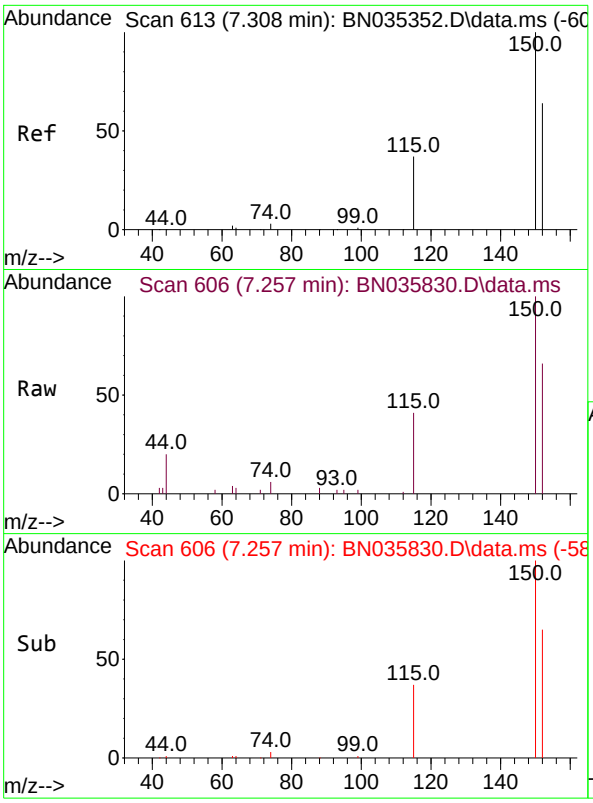
Quant Time: Dec 24 23:55:02 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

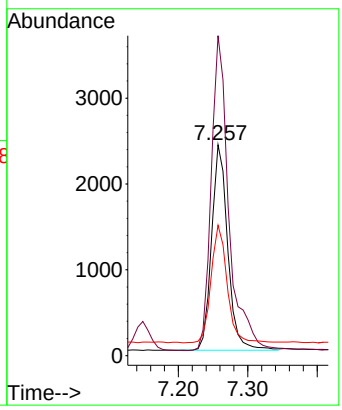





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 6(
Delta R.T. -0.015 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion:152 Resp: 386(

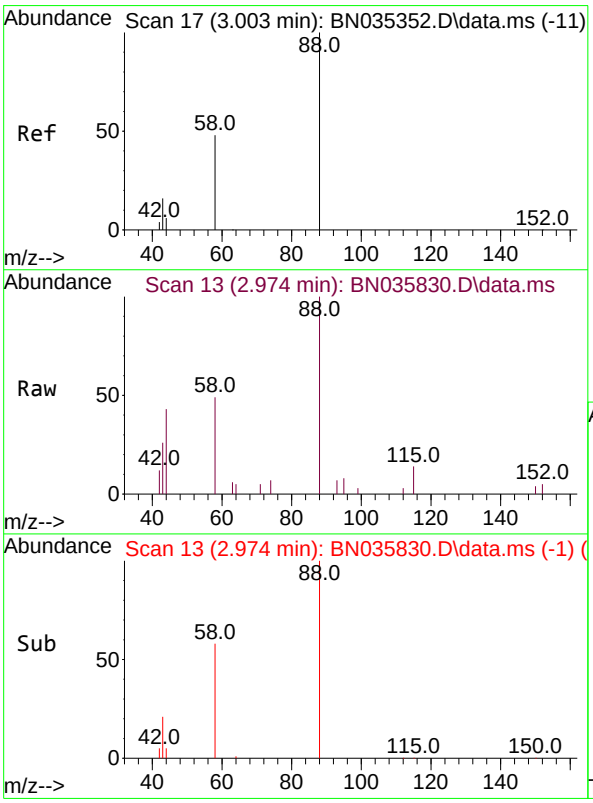
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 151.7 | 124.0 | 186.0 |
| 115 | 61.8 | 49.6 | 74.4 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations**
**APPROVED**

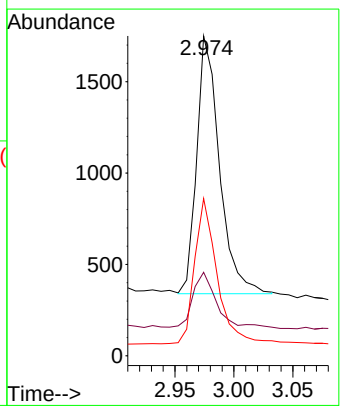
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

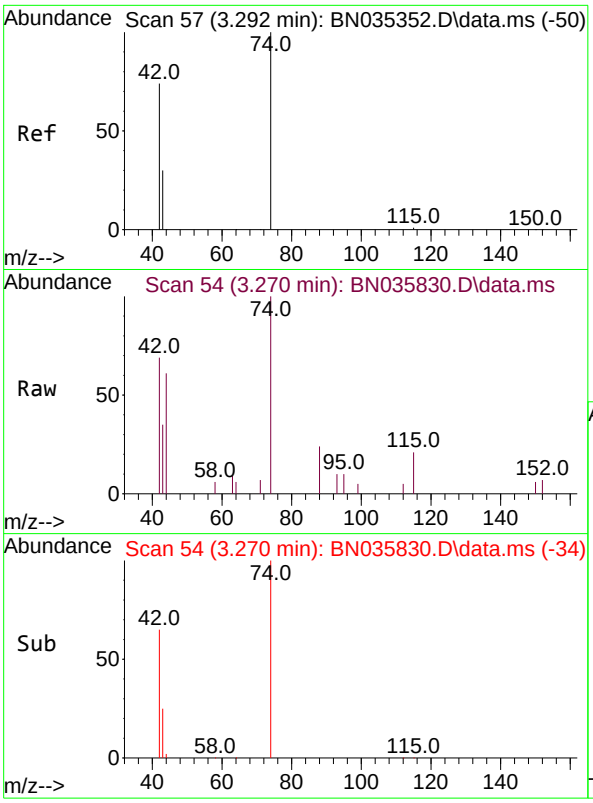



#2
1,4-Dioxane
Concen: 0.513 ng m
RT: 2.974 min Scan# 13
Delta R.T. -0.007 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion: 88 Resp: 1895

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 23.2 | 17.2 | 25.8 |
| 58 | 56.4 | 44.5 | 66.7 |

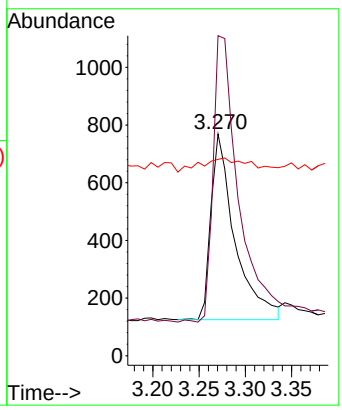





#3
n-Nitrosodimethylamine
Concen: 0.377 ng
RT: 3.270 min Scan# 54
Delta R.T. -0.007 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion: 42 Resp: 116

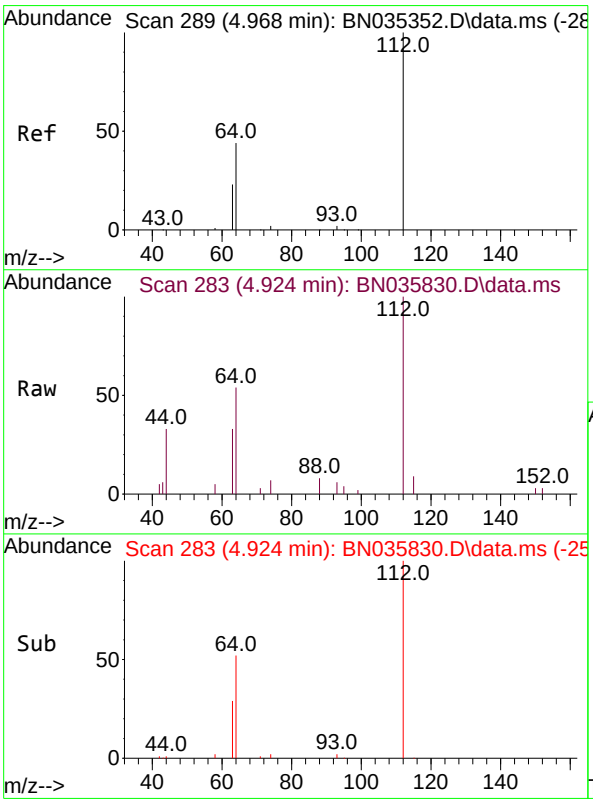
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 177.6 | 124.9 | 187.3 |
| 44 | 15.8 | 2.2 | 3.4 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations**
**APPROVED**

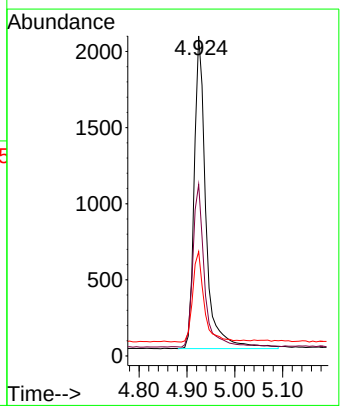
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

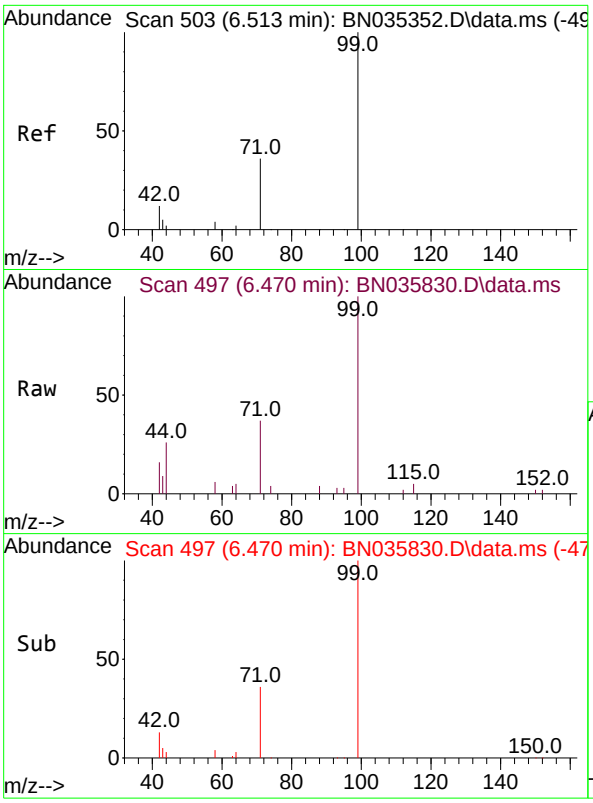



#4
2-Fluorophenol
Concen: 0.363 ng
RT: 4.924 min Scan# 283
Delta R.T. -0.015 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion:112 Resp: 3514

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 50.9 | 39.8 | 59.8 |
| 63 | 27.9 | 21.0 | 31.6 |

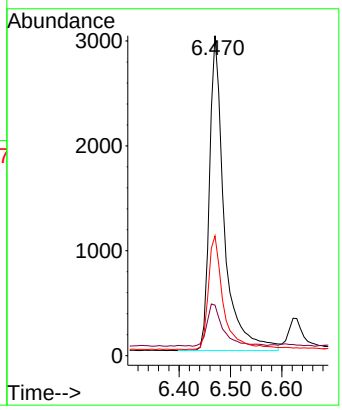





#5
Phenol-d6
Concen: 0.516 ng
RT: 6.470 min Scan# 4
Delta R.T. -0.022 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion: 99 Resp: 600

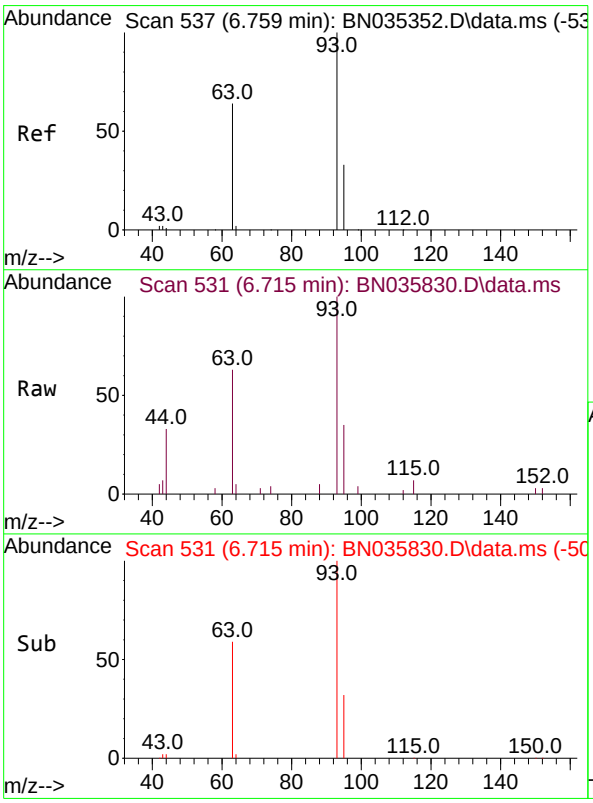
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 14.8 | 11.4 | 17.2 |
| 71 | 37.8 | 29.3 | 43.9 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations**
**APPROVED**

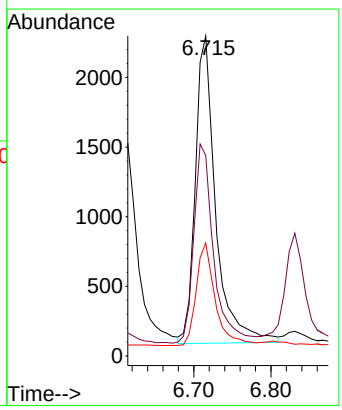
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

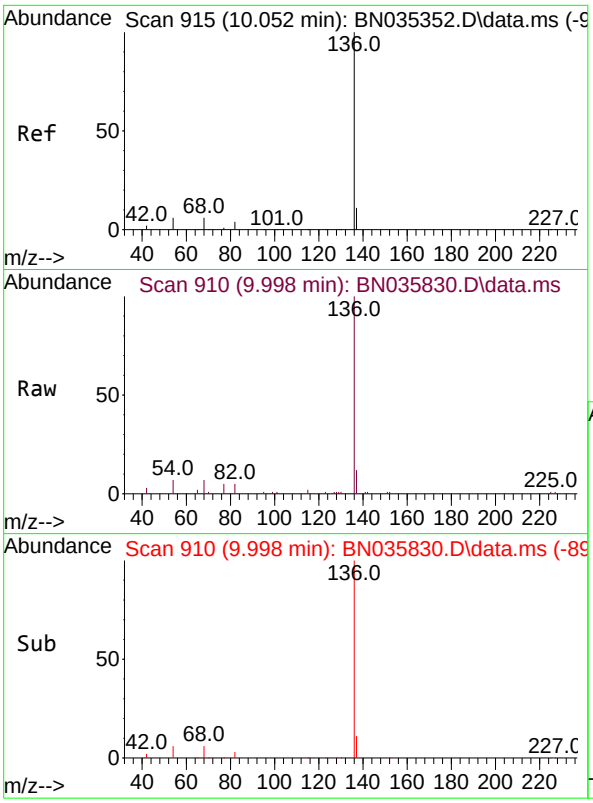



#6
bis(2-Chloroethyl)ether
Concen: 0.415 ng
RT: 6.715 min Scan# 531
Delta R.T. -0.015 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion: 93 Resp: 4053

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 63.1 | 50.4 | 75.6 |
| 95 | 31.0 | 25.7 | 38.5 |

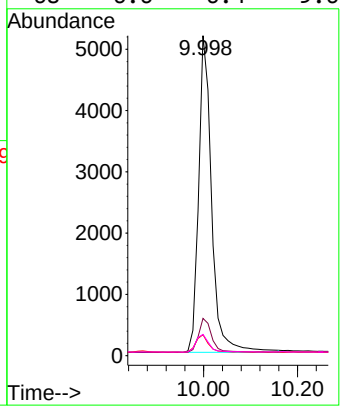





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 9.998 min Scan# 91
Delta R.T. -0.022 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion:136 Resp: 995

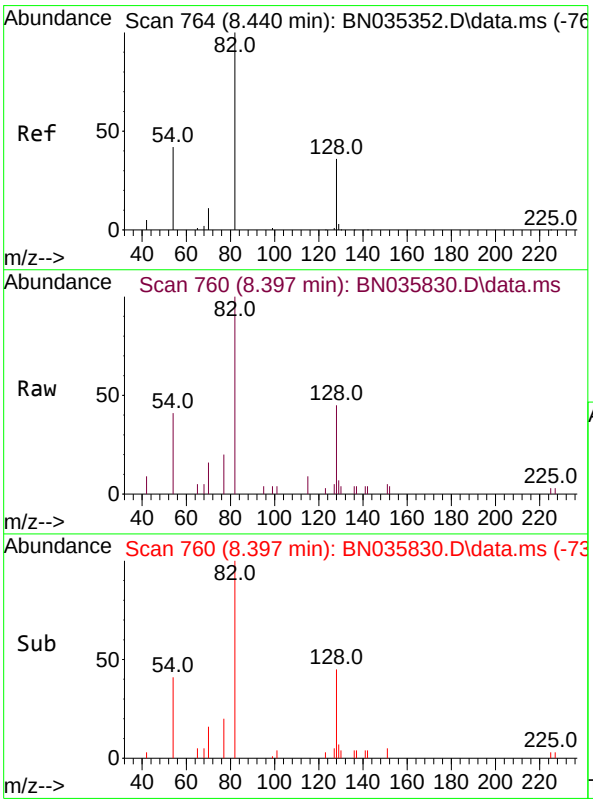
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.6 | 10.2 | 15.2 |
| 54 | 6.6 | 6.1 | 9.1 |
| 68 | 6.6 | 6.4 | 9.6 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations**
**APPROVED**

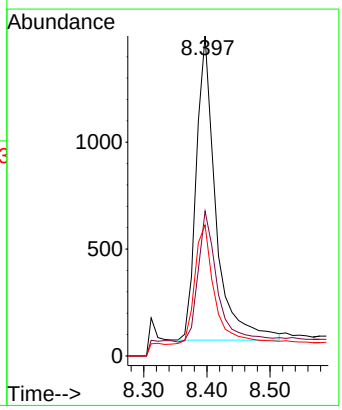
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

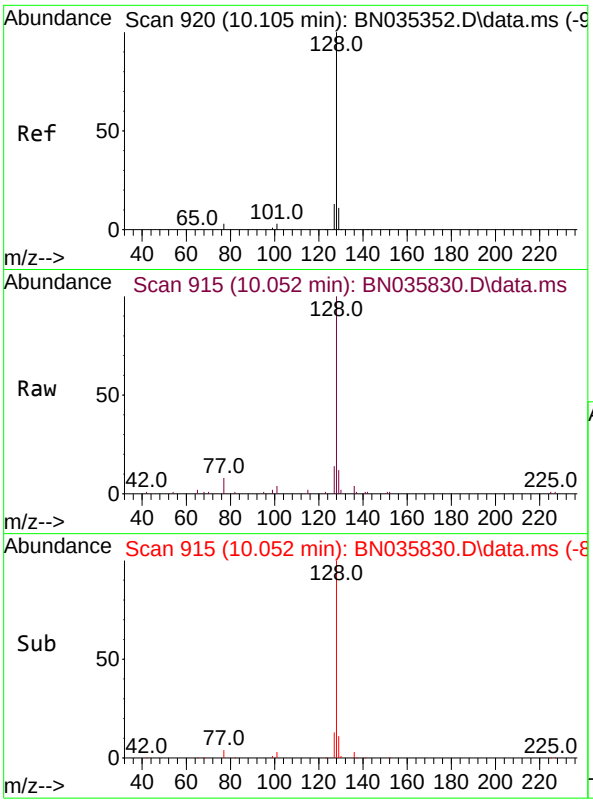



#8
Nitrobenzene-d5
Concen: 0.504 ng m
RT: 8.397 min Scan# 760
Delta R.T. -0.011 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion: 82 Resp: 3063

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 45.2 | 33.4 | 50.0 |
| 54 | 40.9 | 36.7 | 55.1 |

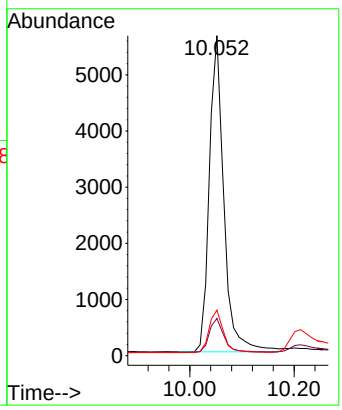





#9
Naphthalene
Concen: 0.413 ng
RT: 10.052 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion:128 Resp: 1085

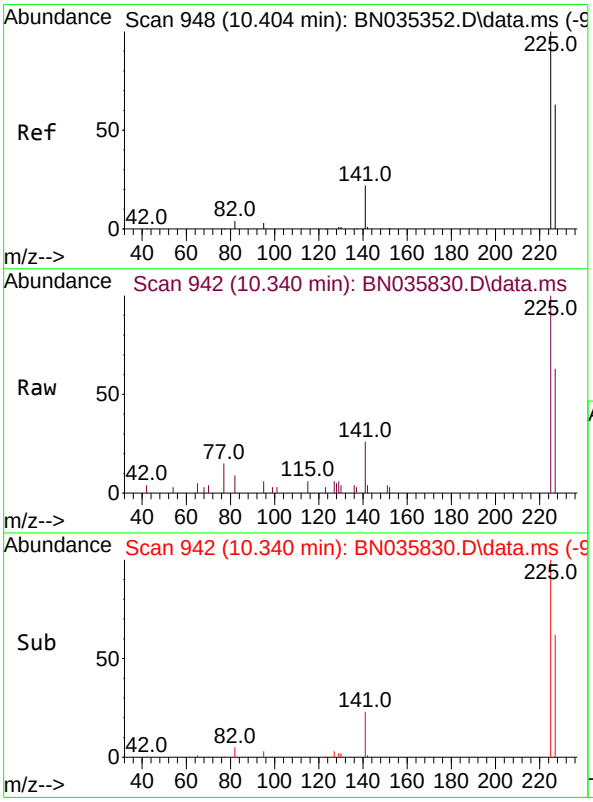
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 11.7 | 9.8 | 14.6 |
| 127 | 14.3 | 11.4 | 17.2 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations**
**APPROVED**

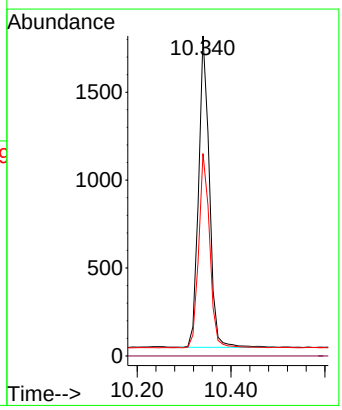
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

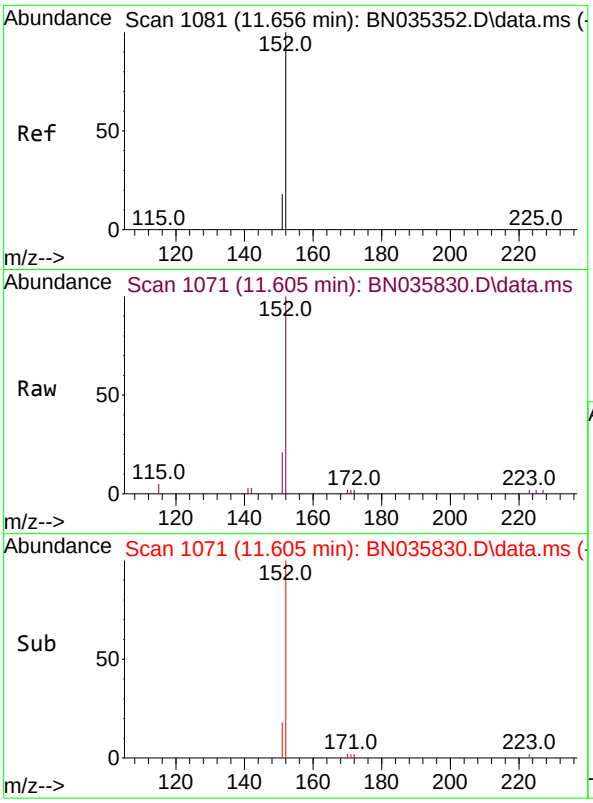



#10
Hexachlorobutadiene
Concen: 0.465 ng
RT: 10.340 min Scan# 942
Delta R.T. -0.022 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion:225 Resp: 2815

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 0.0 | 0.0 | 0.0 |
| 227 | 64.1 | 51.3 | 76.9 |

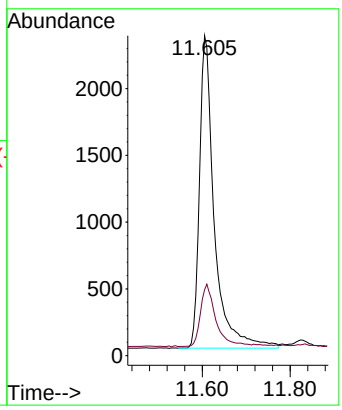





#11
2-Methylnaphthalene-d10
Concen: 0.352 ng
RT: 11.605 min Scan# 1
Delta R.T. -0.015 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion:152 Resp: 548

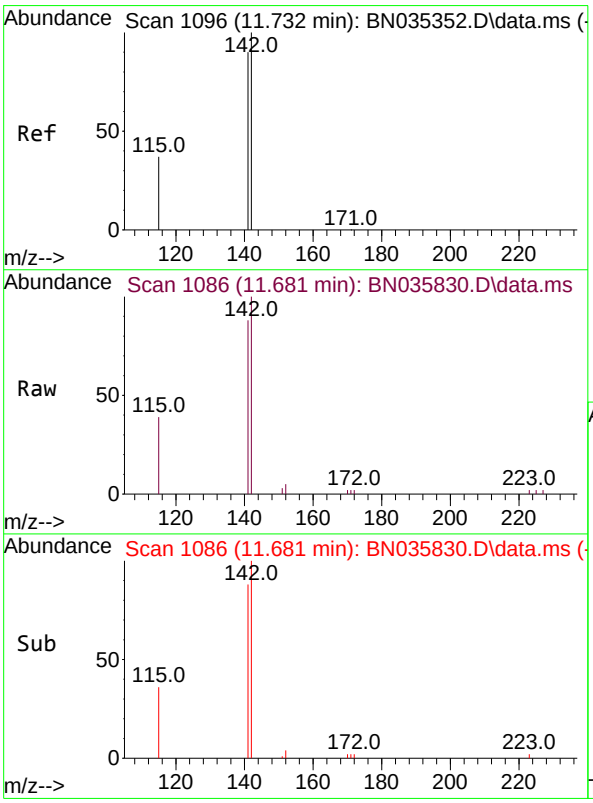
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.4 | 16.6 | 25.0 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations**
**APPROVED**

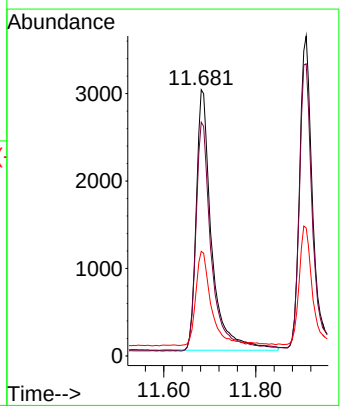
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

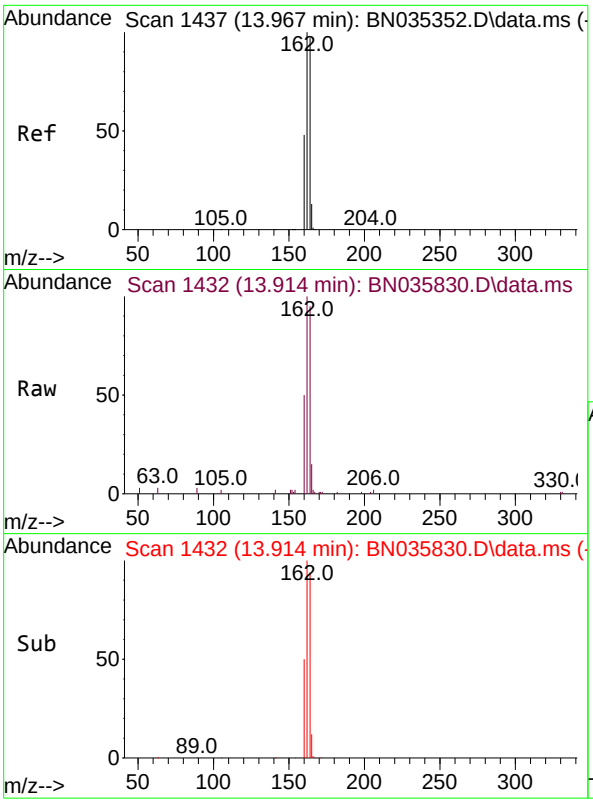



#12
2-Methylnaphthalene
Concen: 0.369 ng
RT: 11.681 min Scan# 1086
Delta R.T. -0.015 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion:142 Resp: 6938

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 87.8 | 72.2 | 108.4 |
| 115 | 39.3 | 31.4 | 47.0 |

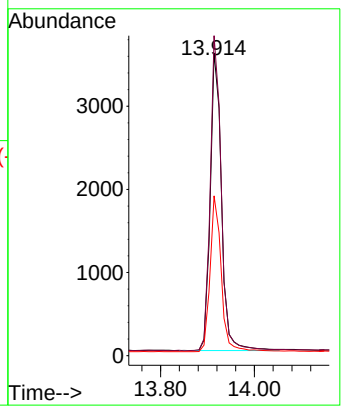





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.914 min Scan# 14
Delta R.T. -0.022 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion:164 Resp: 595

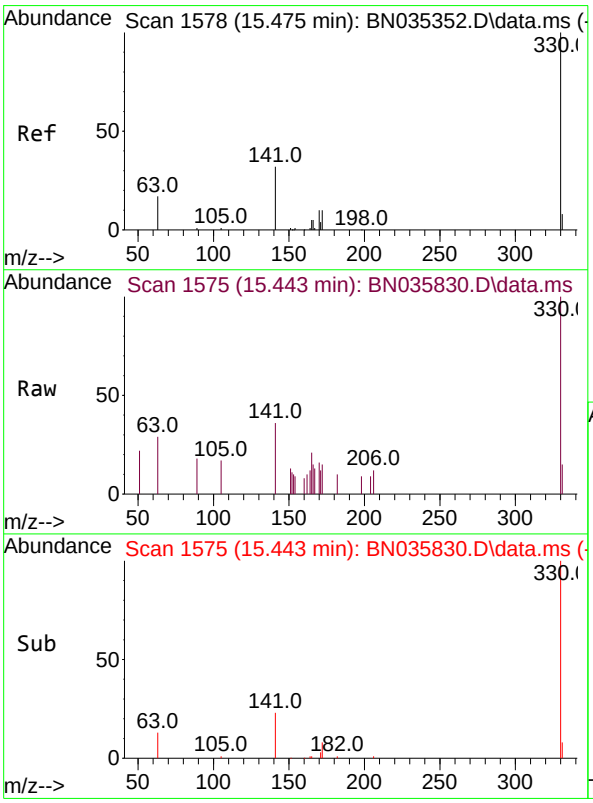
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 105.8 | 82.2 | 123.2 |
| 160 | 52.9 | 40.1 | 60.1 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations**
**APPROVED**

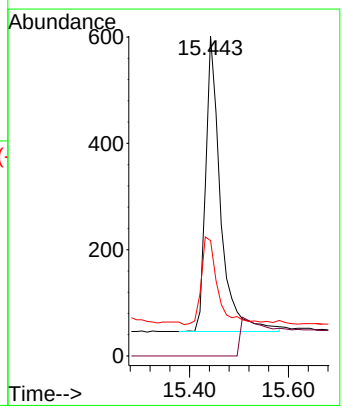
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

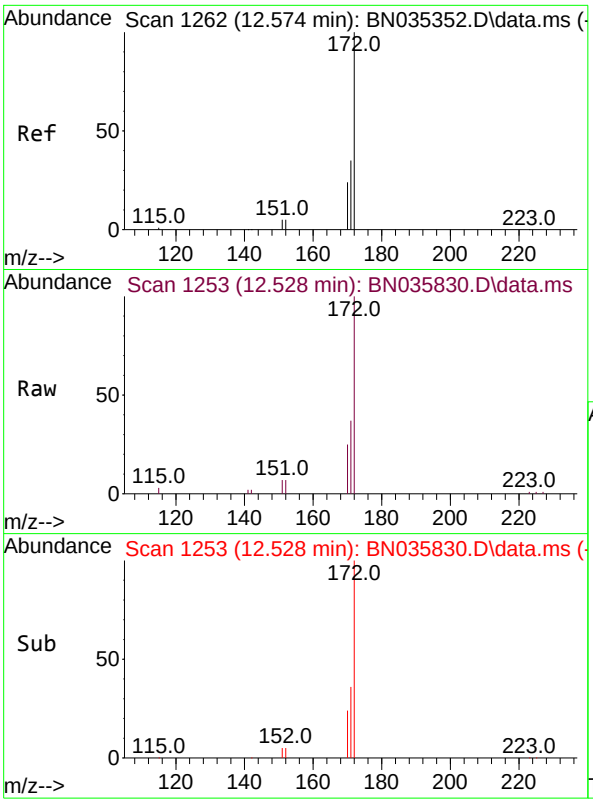



#14
2,4,6-Tribromophenol
Concen: 0.285 ng
RT: 15.443 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion:330 Resp: 1203

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 0.0 | 0.0 | 0.0 |
| 141 | 33.3 | 26.6 | 40.0 |

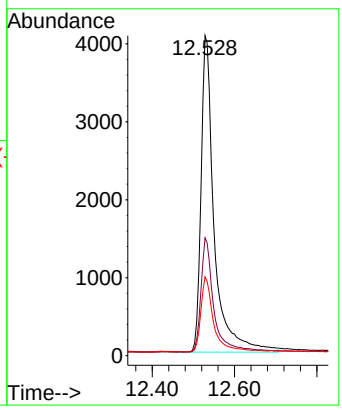





#15
2-Fluorobiphenyl
Concen: 0.401 ng
RT: 12.528 min Scan# 1
Delta R.T. -0.015 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

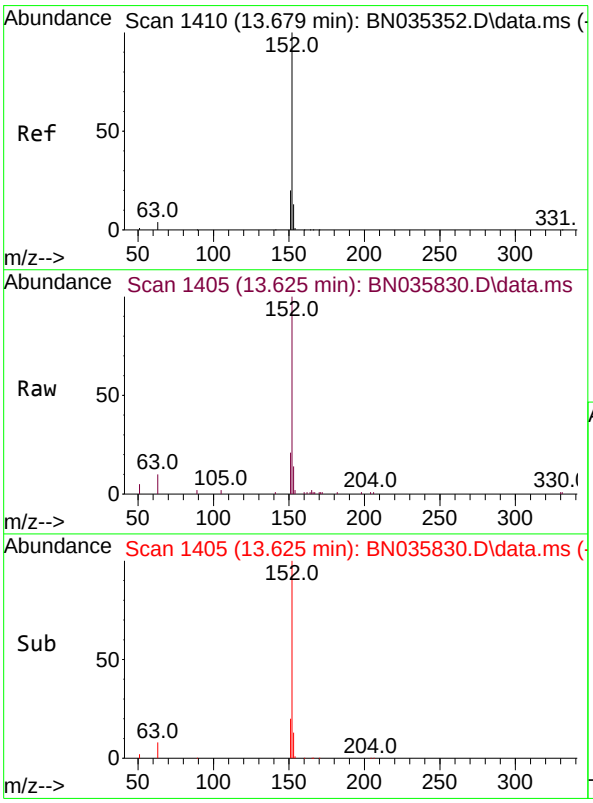
Tgt Ion:172 Resp: 903

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 36.9 | 29.0 | 43.4 |
| 170 | 24.7 | 19.8 | 29.8 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

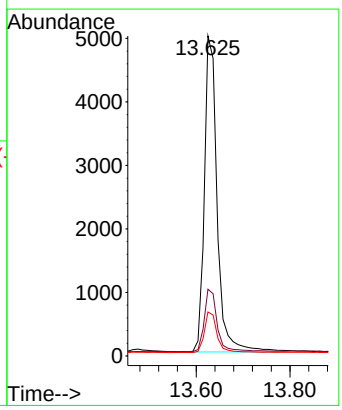
**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

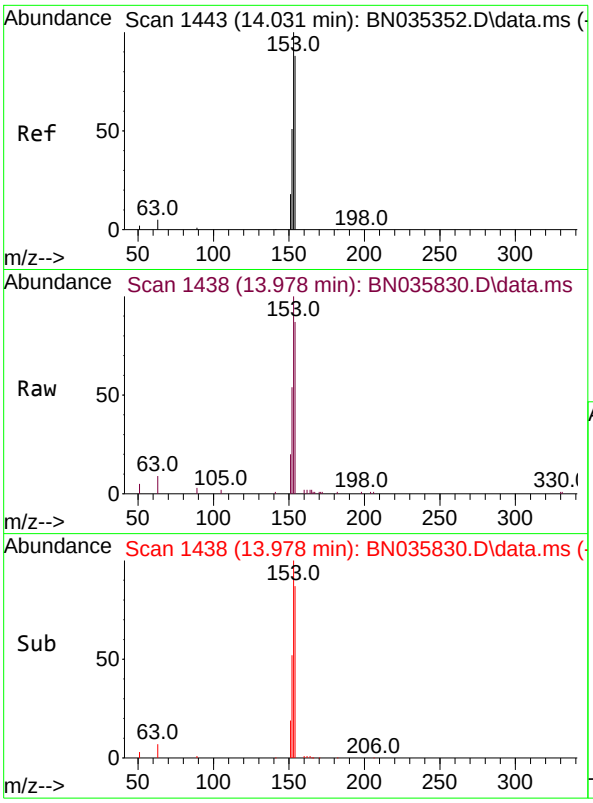



#16
Acenaphthylene
Concen: 0.375 ng
RT: 13.625 min Scan# 1405
Delta R.T. -0.022 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion:152 Resp: 9384

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.2 | 16.2 | 24.2 |
| 153 | 12.7 | 10.4 | 15.6 |

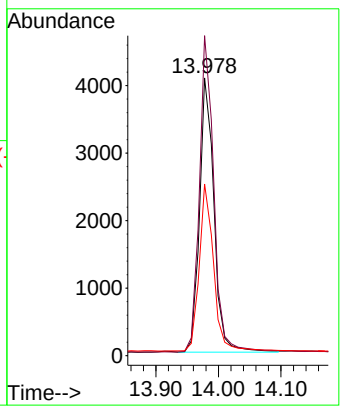





#17
Acenaphthene
Concen: 0.393 ng
RT: 13.978 min Scan# 14
Delta R.T. -0.022 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion:154 Resp: 653

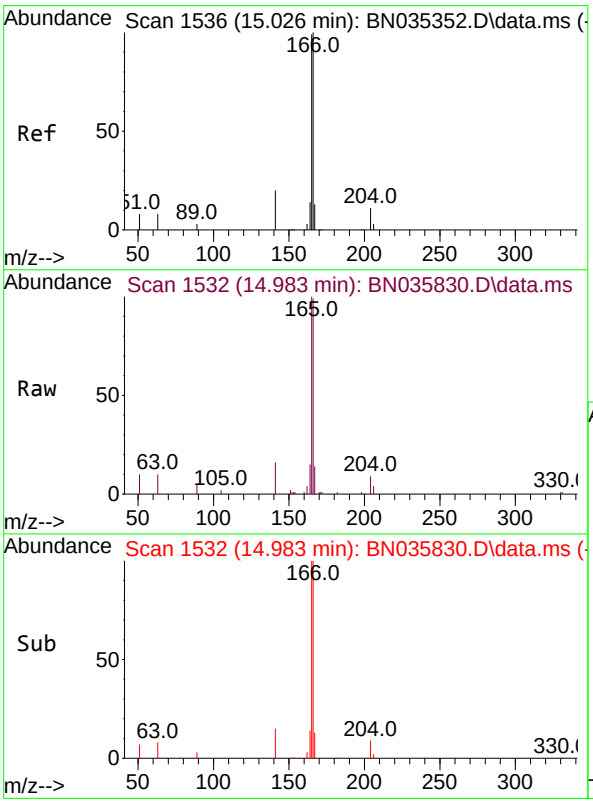
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 115.7 | 92.6 | 139.0 |
| 152 | 60.6 | 49.0 | 73.6 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations**
**APPROVED**

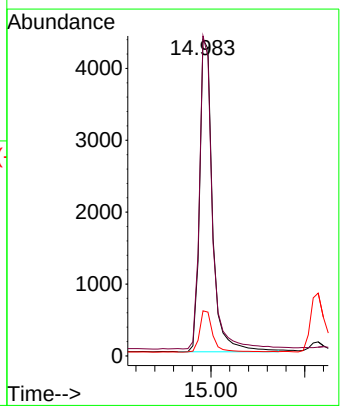
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

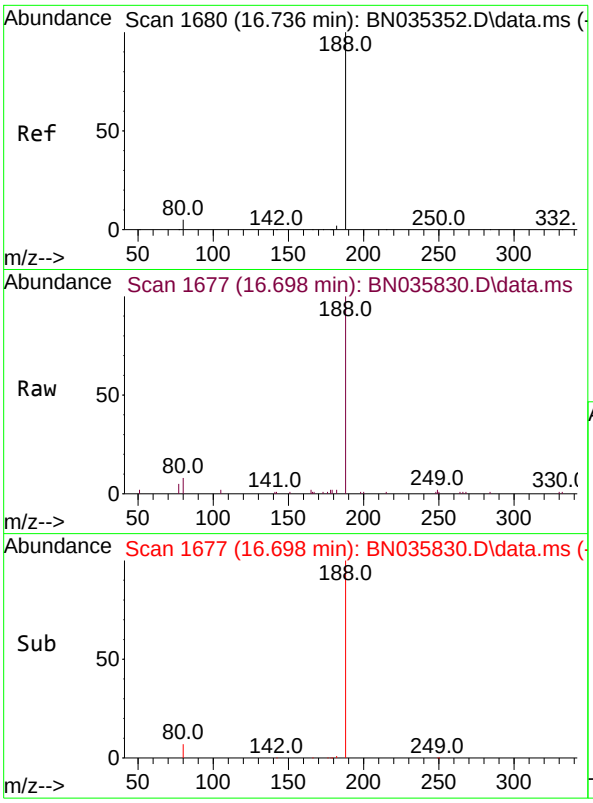



#18
Fluorene
Concen: 0.350 ng
RT: 14.983 min Scan# 1532
Delta R.T. -0.022 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion:166 Resp: 8318

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 98.0 | 79.7 | 119.5 |
| 167 | 13.4 | 10.8 | 16.2 |

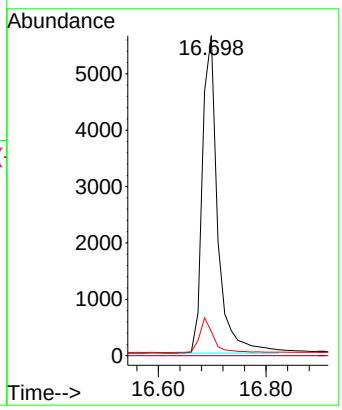





#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion:188 Resp: 1114

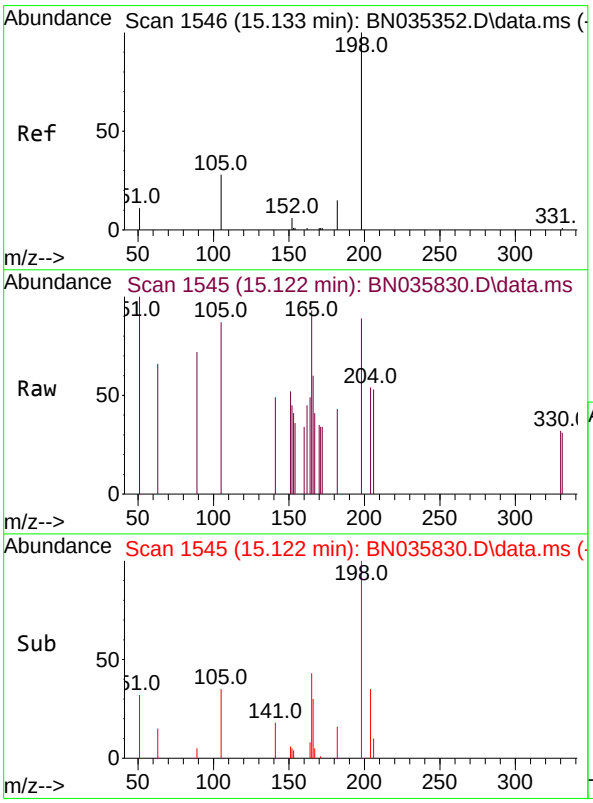
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 7.6 | 4.6 | 6.8# |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations**
**APPROVED**

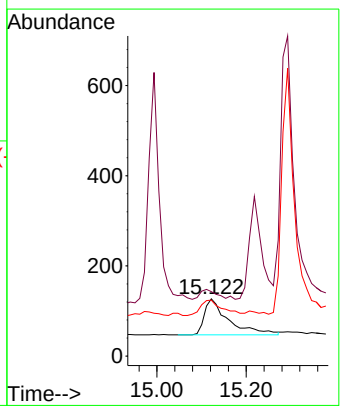
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

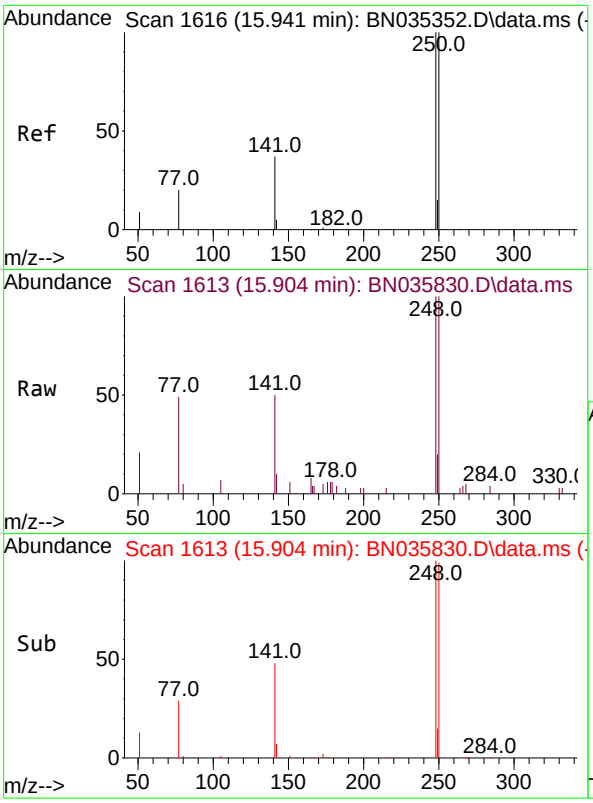



#20
4,6-Dinitro-2-methylphenol
Concen: 0.275 ng
RT: 15.122 min Scan# 1545
Delta R.T. -0.000 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion:198 Resp: 301

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 198 | 100 | | |
| 51 | 112.6 | 46.5 | 69.7# |
| 105 | 97.6 | 45.3 | 67.9# |

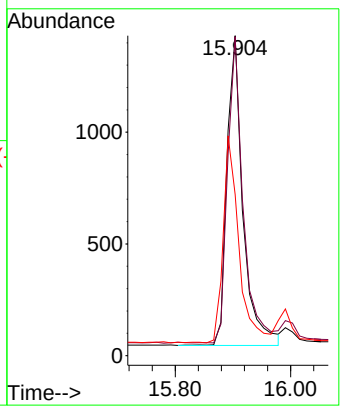





#21
4-Bromophenyl-phenylether
Concen: 0.411 ng
RT: 15.904 min Scan# 1(
Delta R.T. -0.013 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion:248 Resp: 267

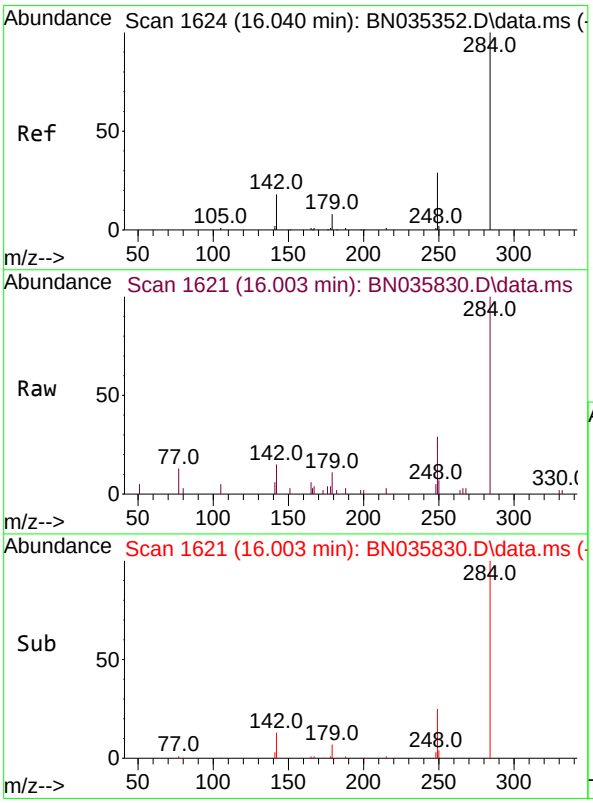
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 99.7 | 80.6 | 120.8 |
| 141 | 50.3 | 31.5 | 47.3# |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations**
**APPROVED**

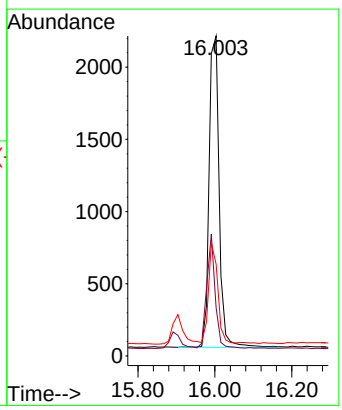
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

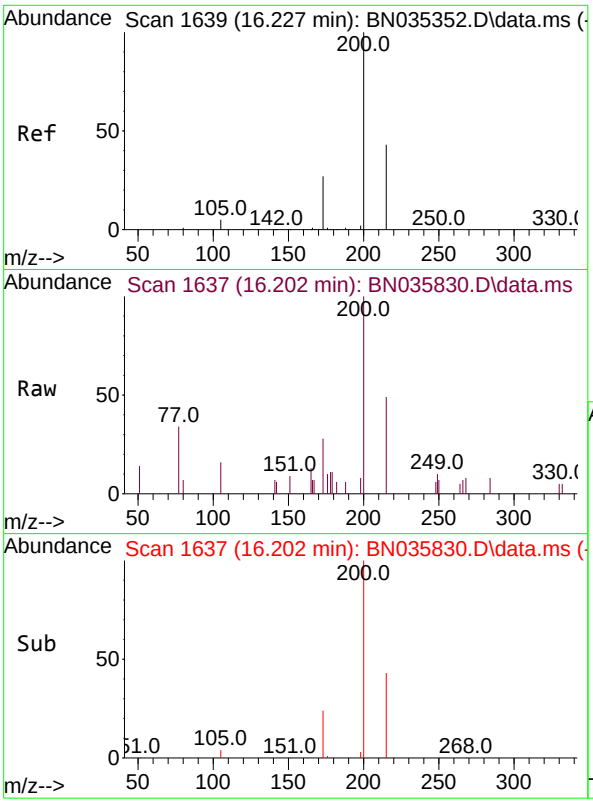



#22
Hexachlorobenzene
Concen: 0.510 ng
RT: 16.003 min Scan# 1621
Delta R.T. -0.013 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion:284 Resp: 3900

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 30.4 | 26.7 | 40.1 |
| 249 | 29.3 | 24.6 | 36.8 |

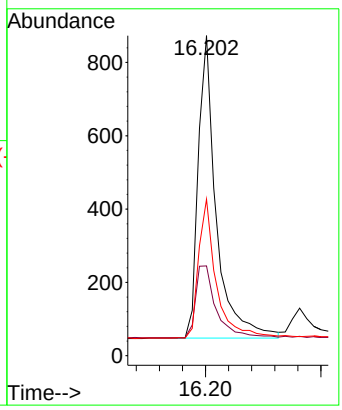





#23
Atrazine
Concen: 0.386 ng
RT: 16.202 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion:200 Resp: 179(

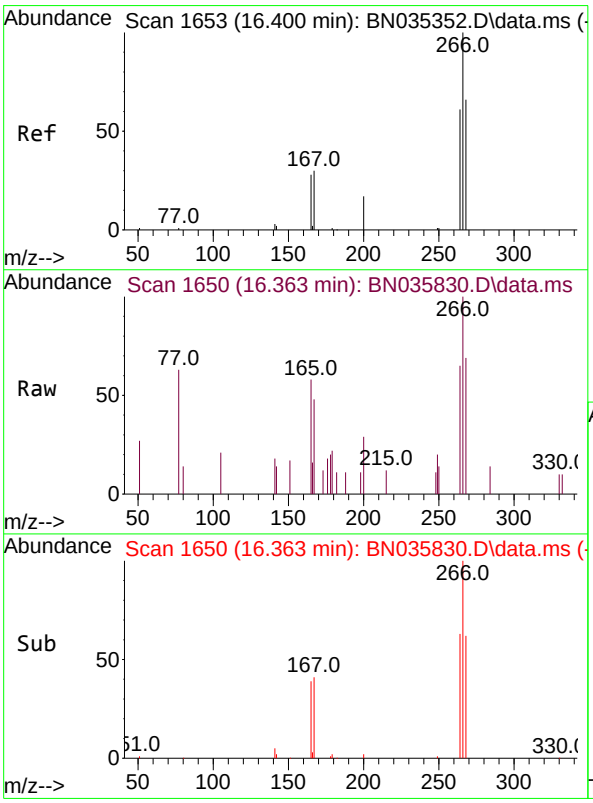
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 173 | 28.1 | 24.1 | 36.1 |
| 215 | 48.9 | 36.9 | 55.3 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations**
**APPROVED**

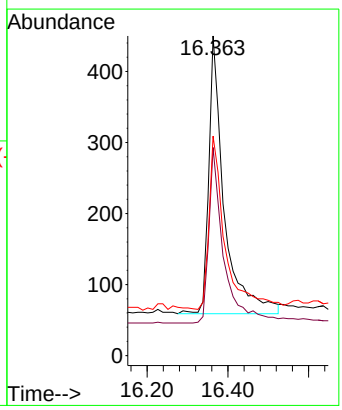
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

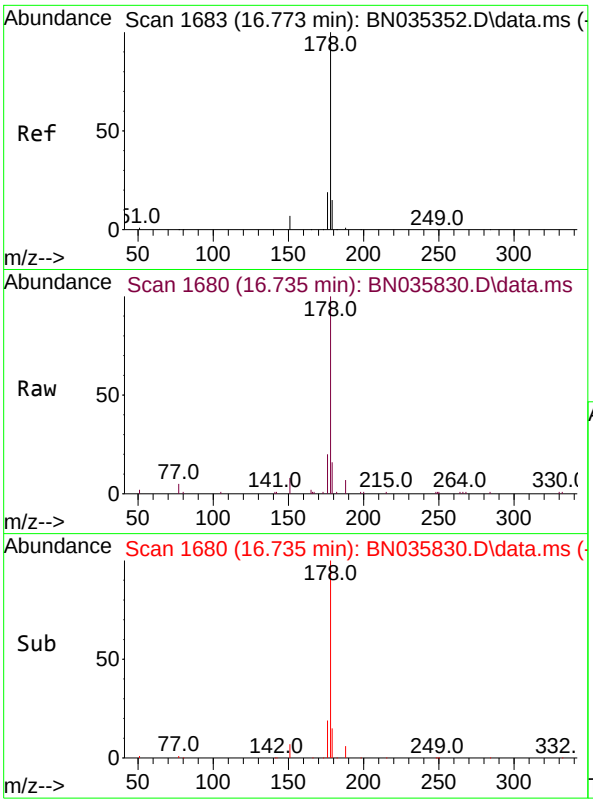



#24
Pentachlorophenol
Concen: 0.310 ng
RT: 16.363 min Scan# 1650
Delta R.T. -0.013 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion:266 Resp: 1032

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 264 | 60.9 | 42.3 | 63.5 |
| 268 | 63.5 | 43.3 | 64.9 |

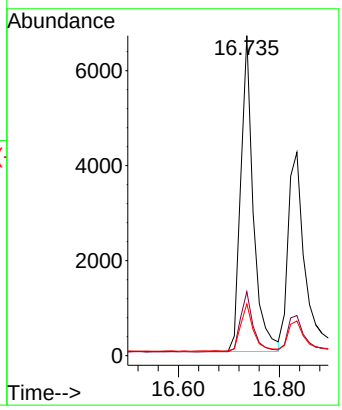





#25
Phenanthrene
Concen: 0.376 ng
RT: 16.735 min Scan# 1(
Delta R.T. -0.013 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion:178 Resp: 1152

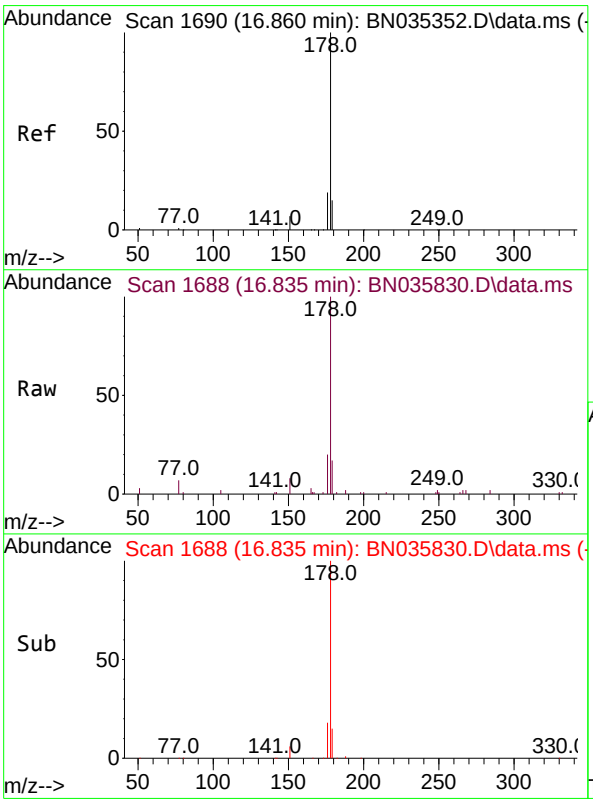
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.1 | 15.4 | 23.2 |
| 179 | 15.6 | 12.3 | 18.5 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations**
**APPROVED**

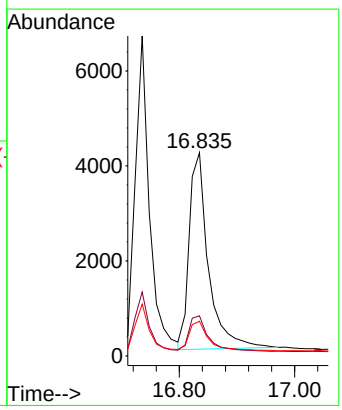
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

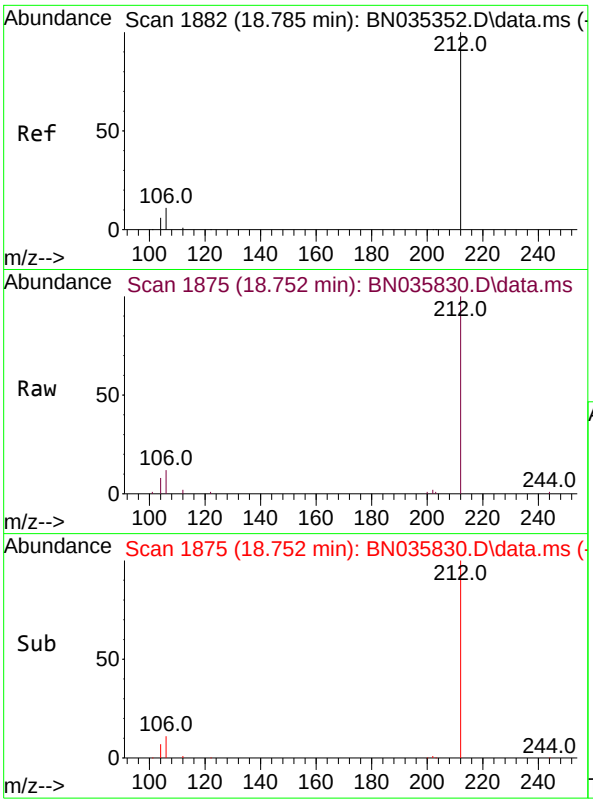



#26
Anthracene
Concen: 0.346 ng
RT: 16.835 min Scan# 1688
Delta R.T. -0.000 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion:178 Resp: 9576

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.9 | 15.0 | 22.6 |
| 179 | 15.6 | 12.6 | 18.8 |

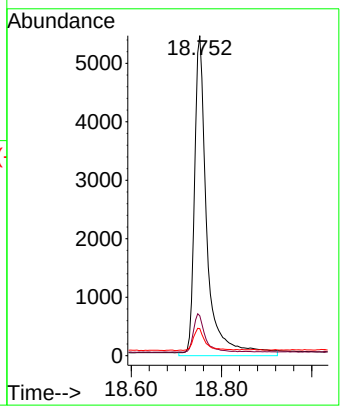





#27
Fluoranthene-d10
Concen: 0.335 ng m
RT: 18.752 min Scan# 1
Delta R.T. -0.009 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion:212 Resp: 1059

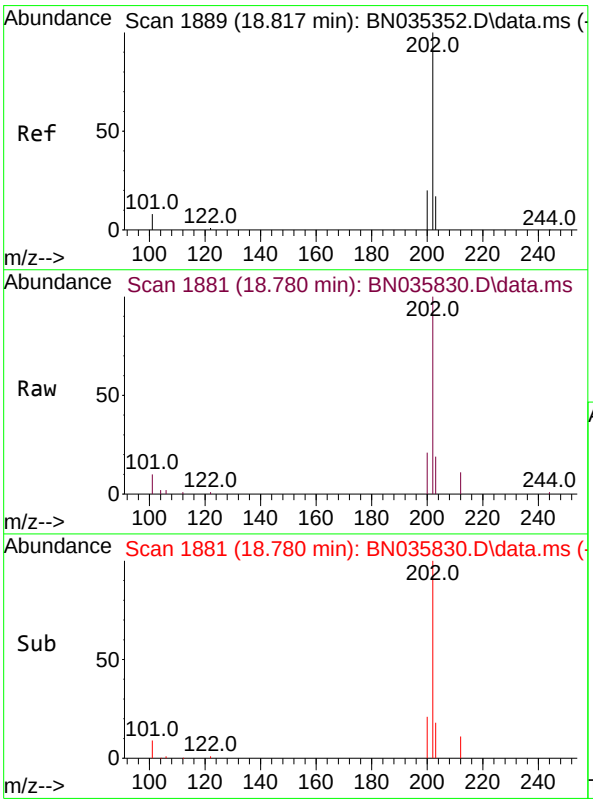
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 11.1 | 9.2 | 13.8 |
| 104 | 6.7 | 5.3 | 7.9 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations**
**APPROVED**

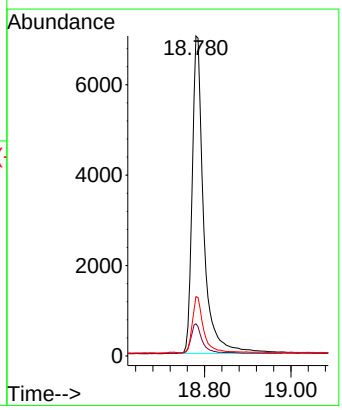
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

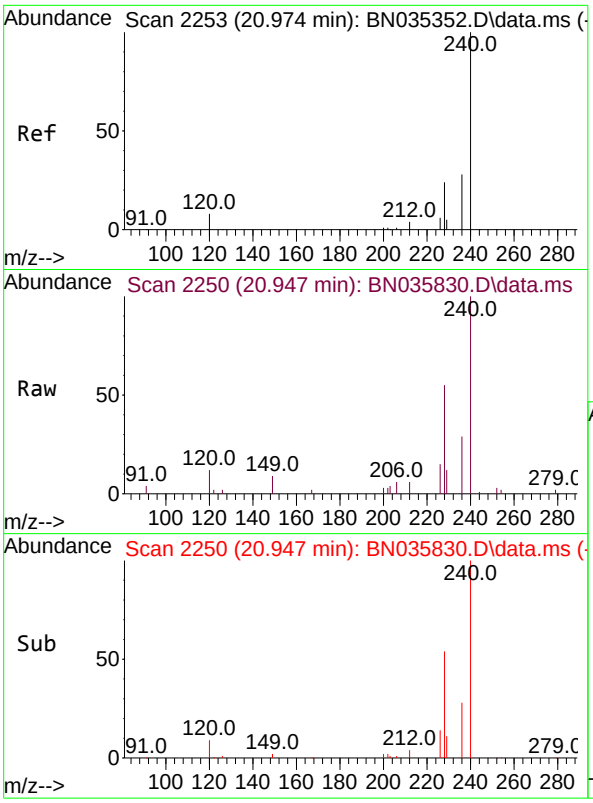



#28
Fluoranthene
Concen: 0.316 ng
RT: 18.780 min Scan# 1881
Delta R.T. -0.009 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion:202 Resp: 13046

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 8.9 | 7.4 | 11.0 |
| 203 | 17.0 | 13.7 | 20.5 |

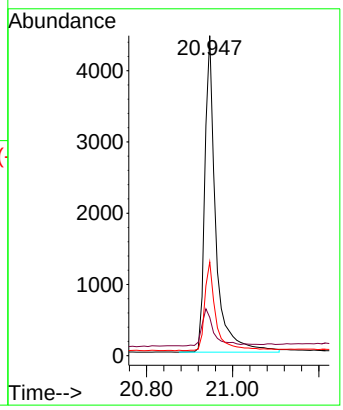





#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

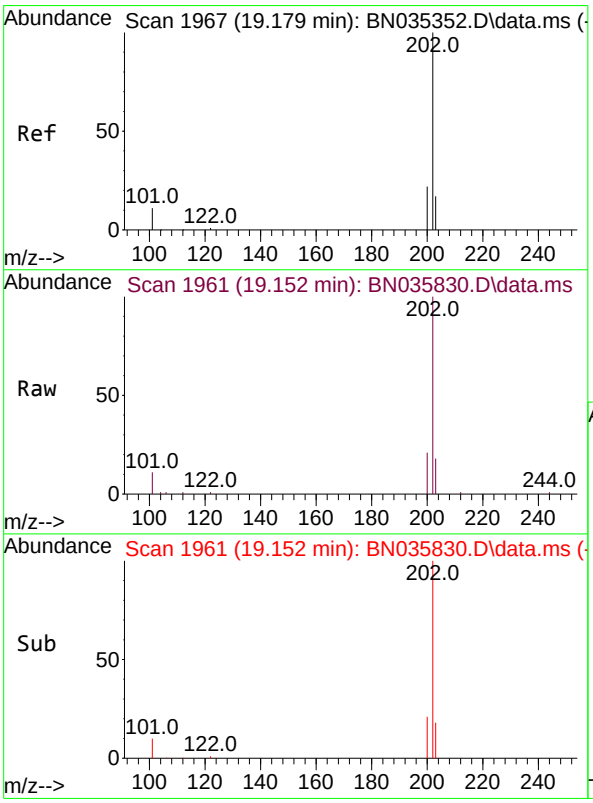
Tgt Ion:240 Resp: 785

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 11.9 | 7.9 | 11.9# |
| 236 | 29.3 | 22.9 | 34.3 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

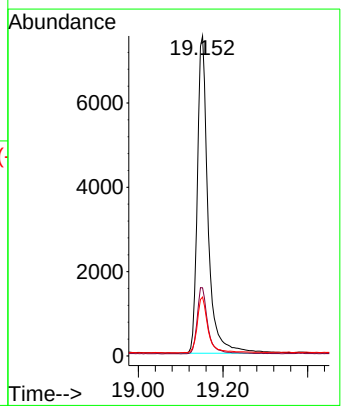
**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

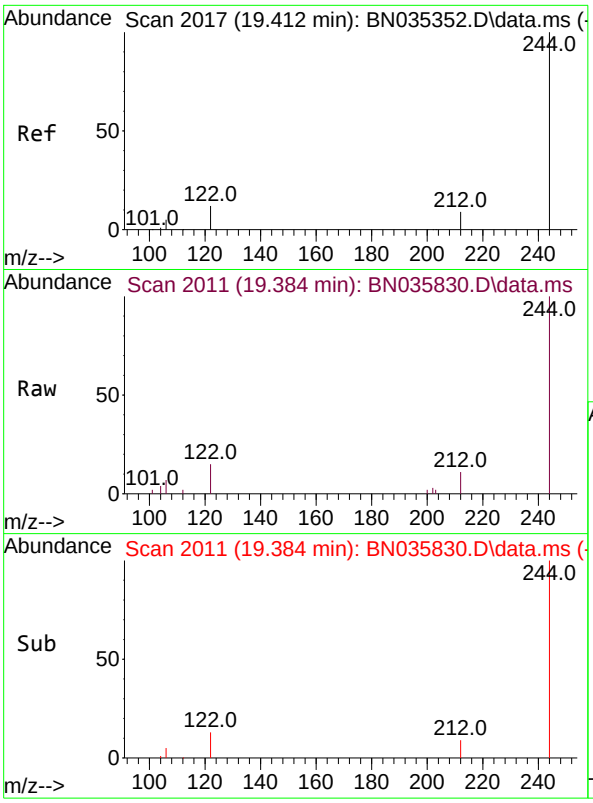



#30
Pyrene
Concen: 0.454 ng
RT: 19.152 min Scan# 1961
Delta R.T. -0.009 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion:202 Resp: 13156

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 20.9 | 17.0 | 25.4 |
| 203 | 17.9 | 14.3 | 21.5 |

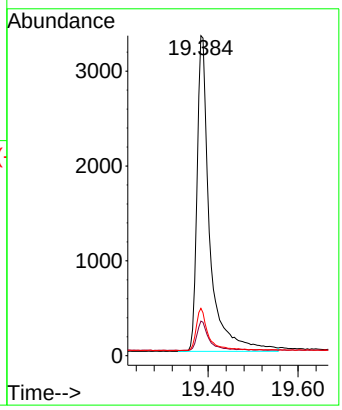





#31
Terphenyl-d14
Concen: 0.422 ng
RT: 19.384 min Scan# 2
Delta R.T. -0.005 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion:244 Resp: 654

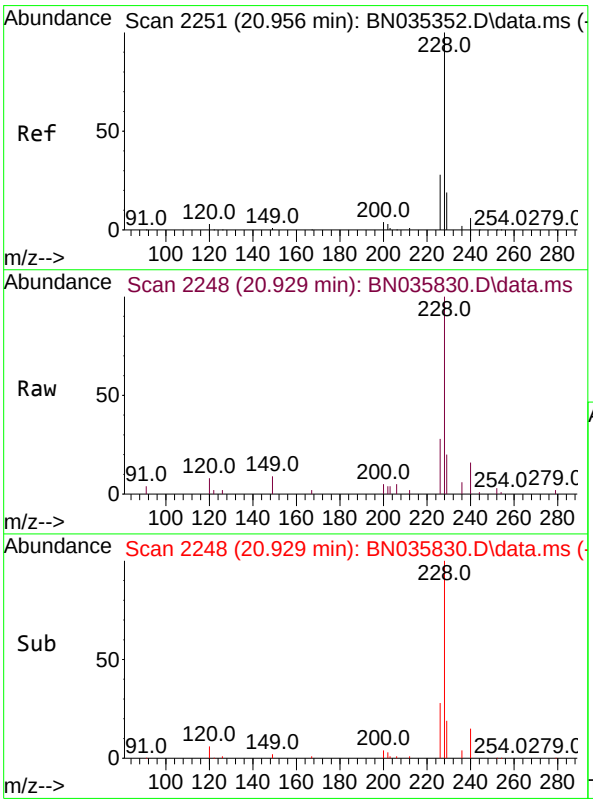
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 10.8 | 8.1 | 12.1 |
| 122 | 14.8 | 10.3 | 15.5 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations**
**APPROVED**

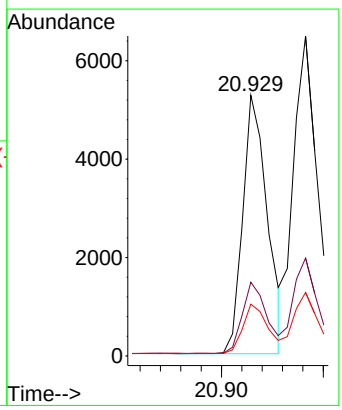
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

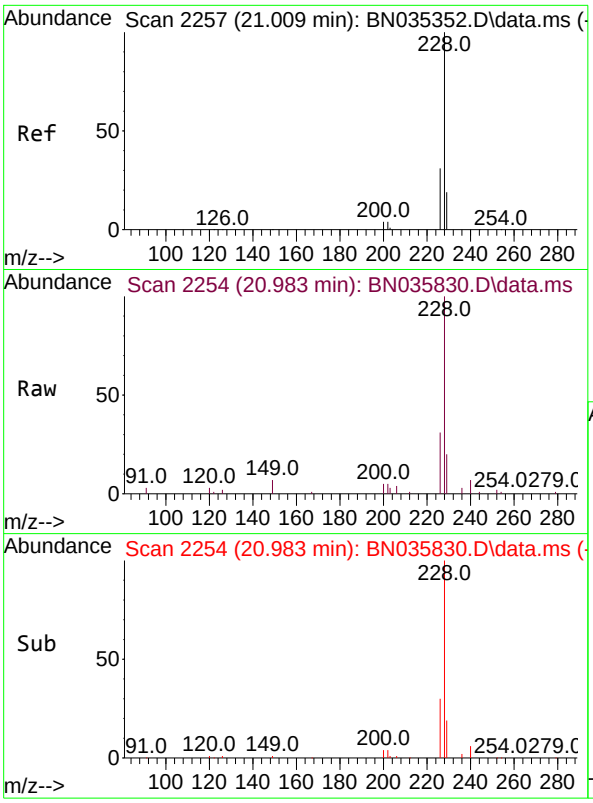



#32
Benzo(a)anthracene
Concen: 0.320 ng
RT: 20.929 min Scan# 2248
Delta R.T. -0.009 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion:228 Resp: 8776

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 28.3 | 22.5 | 33.7 |
| 229 | 19.9 | 15.8 | 23.8 |

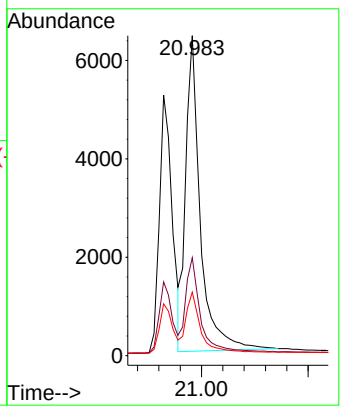





#33
Chrysene
Concen: 0.430 ng
RT: 20.983 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion:228 Resp: 1218

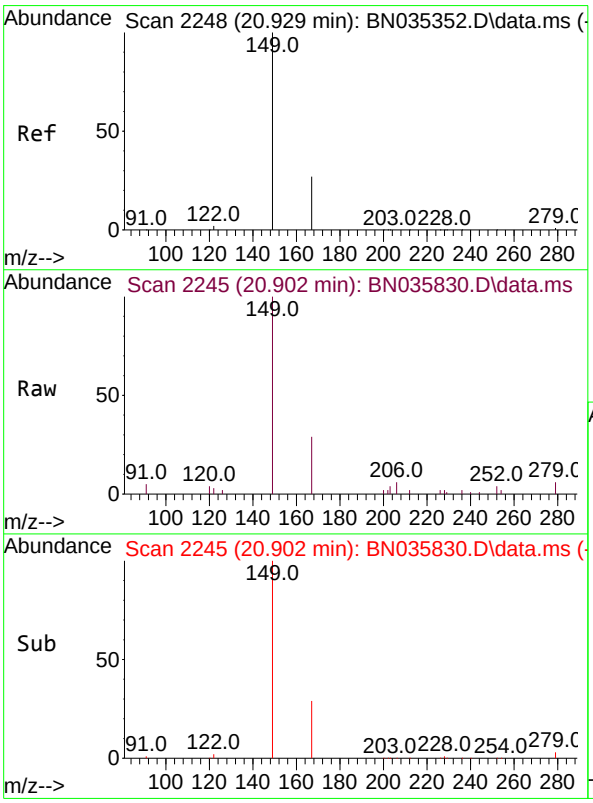
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 30.6 | 24.6 | 37.0 |
| 229 | 19.9 | 15.9 | 23.9 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations**
**APPROVED**

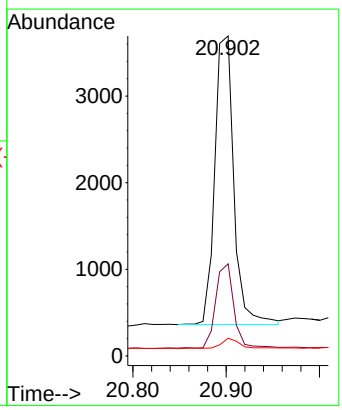
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

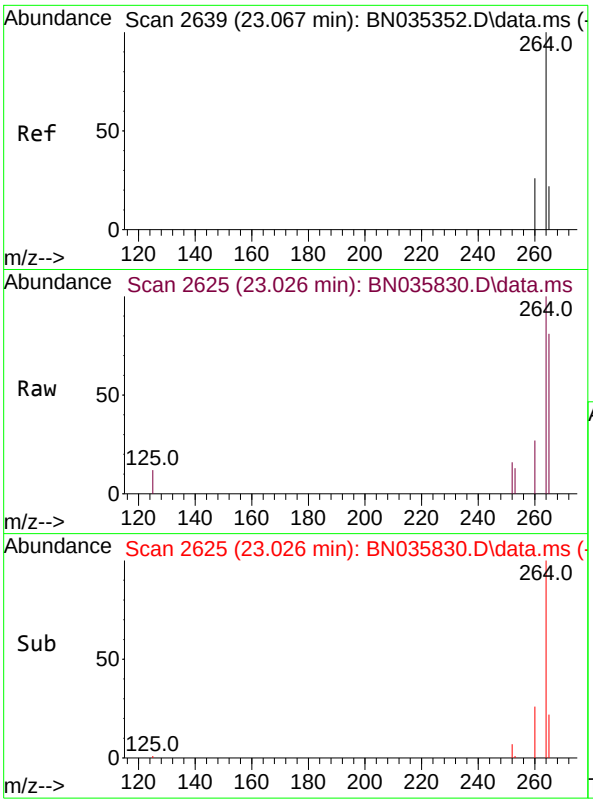



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.434 ng
RT: 20.902 min Scan# 2245
Delta R.T. -0.009 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion:149 Resp: 4711

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 27.7 | 22.2 | 33.4 |
| 279 | 3.7 | 2.7 | 4.1 |

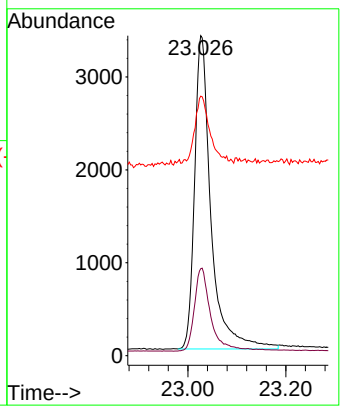





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.026 min Scan# 2
Delta R.T. -0.015 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion:264 Resp: 787

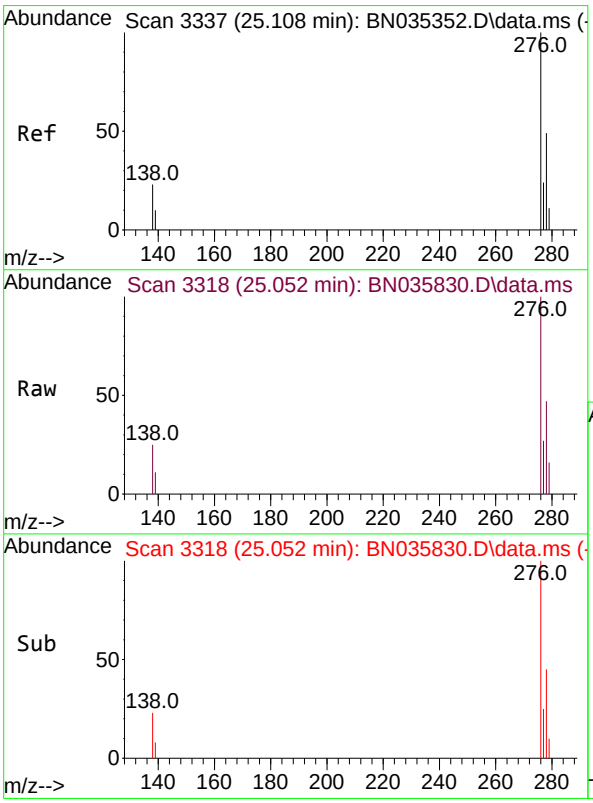
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 27.2 | 21.4 | 32.2 |
| 265 | 81.1 | 40.2 | 60.4 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations**
**APPROVED**

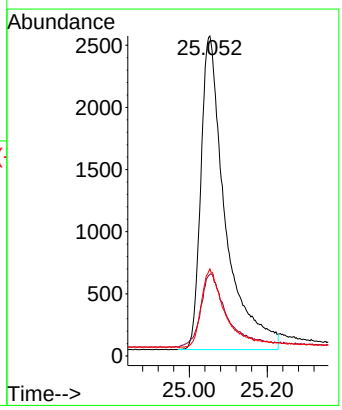
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

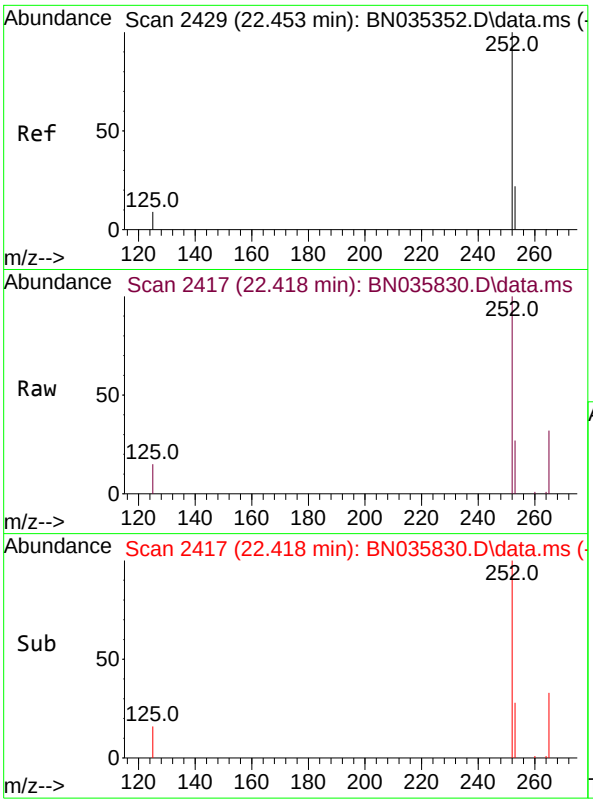



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.357 ng
RT: 25.052 min Scan# 3318
Delta R.T. -0.015 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion:276 Resp: 10972

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 24.1 | 19.4 | 29.0 |
| 277 | 23.8 | 19.8 | 29.6 |

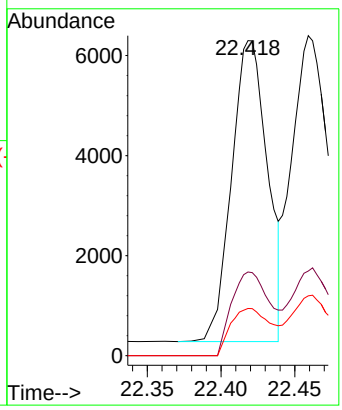





#37
Benzo(b)fluoranthene
Concen: 0.501 ng
RT: 22.418 min Scan# 24
Delta R.T. -0.012 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion:252 Resp: 1443

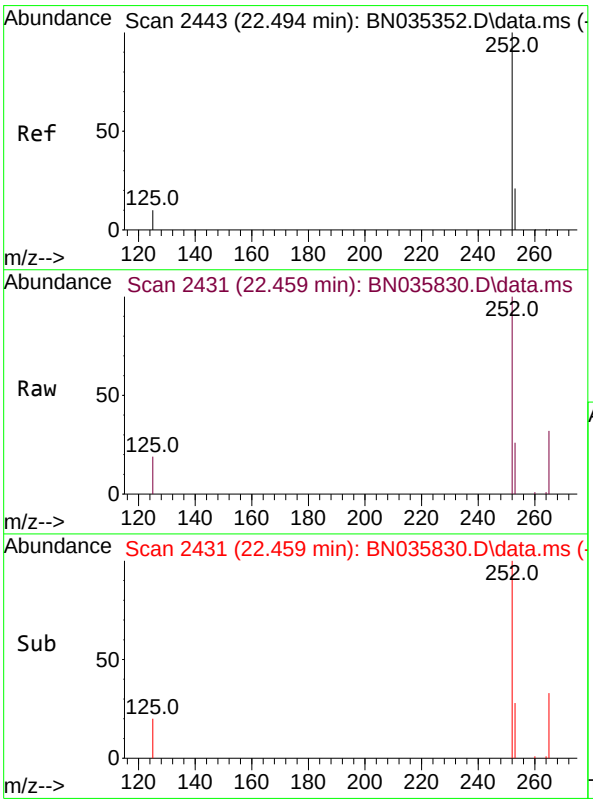
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 26.6 | 19.6 | 29.4 |
| 125 | 15.0 | 9.6 | 14.4# |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations**
**APPROVED**

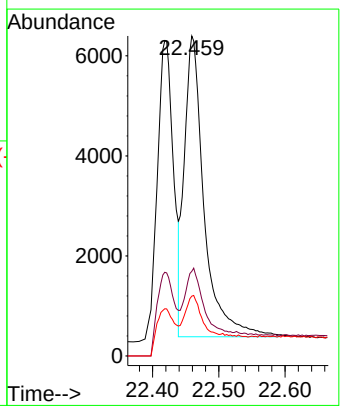
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

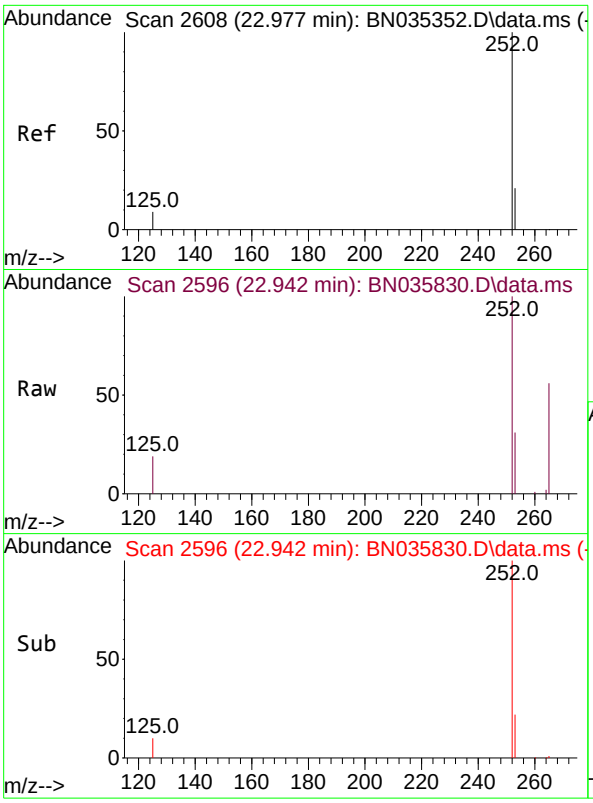



#38
Benzo(k)fluoranthene
Concen: 0.443 ng m
RT: 22.459 min Scan# 2431
Delta R.T. -0.012 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion:252 Resp: 12555

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 26.5 | 19.5 | 29.3 |
| 125 | 18.7 | 10.2 | 15.4# |






#39
Benzo(a)pyrene
Concen: 0.374 ng
RT: 22.942 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

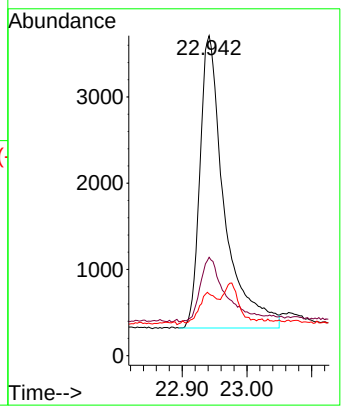
Tgt Ion:252 Resp: 886

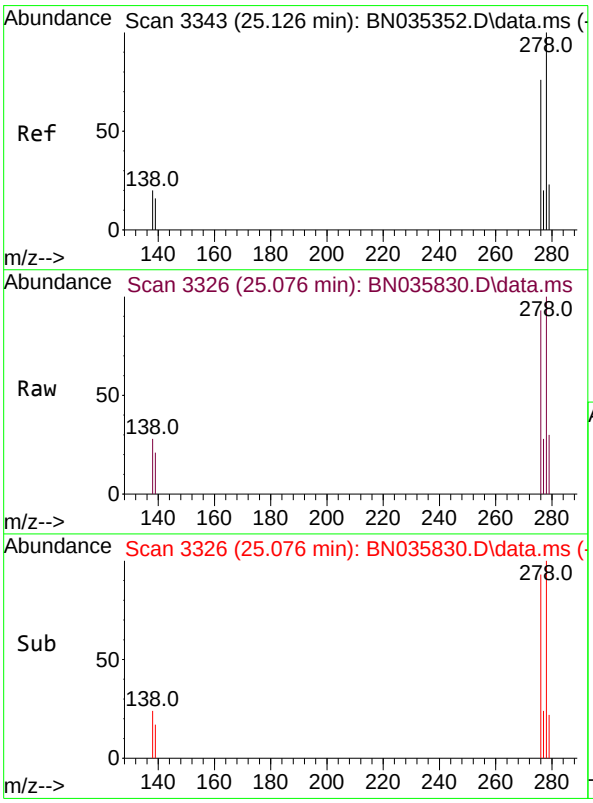
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 30.7 | 20.2 | 30.4# |
| 125 | 19.3 | 10.9 | 16.3# |

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

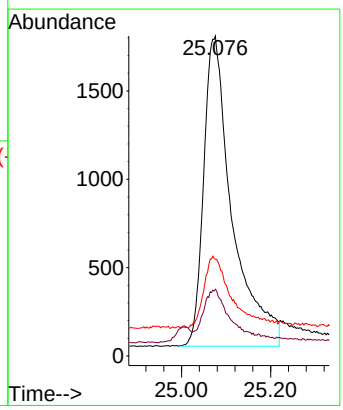


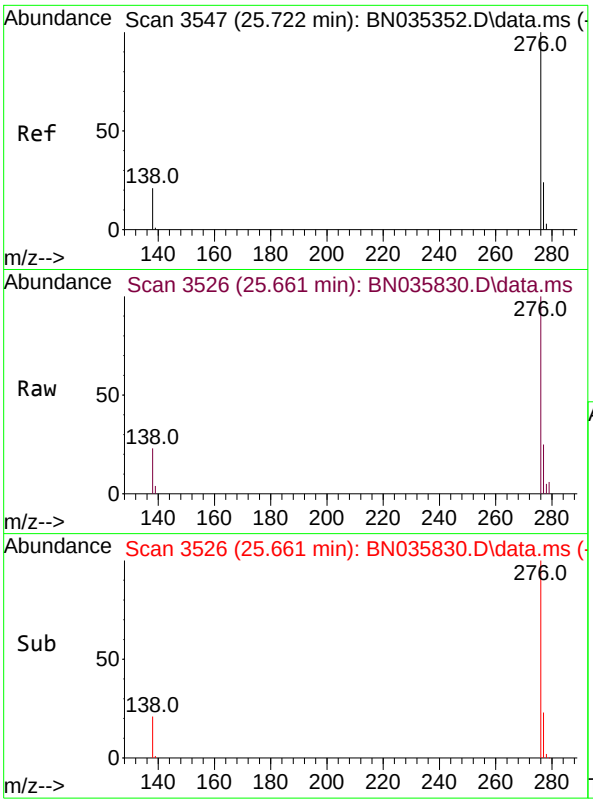




#40
Dibenzo(a,h)anthracene
Concen: 0.321 ng
RT: 25.076 min Scan# 3326
Delta R.T. -0.006 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion:278 Resp: 7792

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 20.9 | 14.2 | 21.4 |
| 279 | 30.2 | 20.5 | 30.7 |

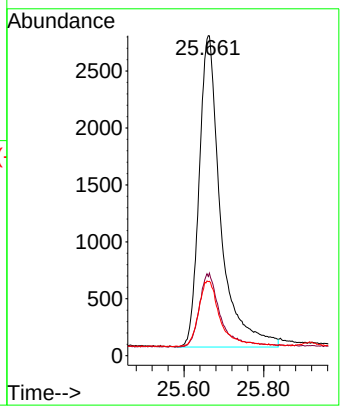





#41
Benzo(g,h,i)perylene
Concen: 0.403 ng
RT: 25.661 min Scan# 3
Delta R.T. -0.018 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion:276 Resp: 1021

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 24.8 | 19.9 | 29.9 |
| 138 | 23.2 | 17.8 | 26.8 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035830.D
Acq On : 24 Dec 2024 20:55
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 20 Sample Multiplier: 1

**Instrument :**
BNA_N
**LabSampleId :**
SSTDCCC0.4

Quant Time: Dec 24 23:55:02 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 189# | -0.01 |
| 2 | | 1,4-Dioxane | 0.382 | 0.490 | -28.3# | 246# | 0.00 |
| 3 | | n-Nitrosodimethylamine | 0.319 | 0.301 | 5.6 | 174# | 0.00 |
| 4 | S | 2-Fluorophenol | 1.001 | 0.909 | 9.2 | 169# | -0.01 |
| 5 | S | Phenol-d6 | 1.204 | 1.553 | -29.0# | 246# | -0.02 |
| 6 | | bis(2-Chloroethyl)ether | 1.012 | 1.048 | -3.6 | 199# | -0.01 |
| 7 | I | Naphthalene-d8 | 1.000 | 1.000 | 0.0 | 190# | -0.02 |
| 8 | S | Nitrobenzene-d5 | 0.244 | 0.308 | -26.2# | 249# | -0.01 |
| 9 | | Naphthalene | 1.055 | 1.090 | -3.3 | 198# | -0.01 |
| 10 | | Hexachlorobutadiene | 0.243 | 0.283 | -16.5 | 218# | -0.02 |
| 11 | SURR | 2-Methylnaphthalene-d10 | 0.626 | 0.551 | 12.0 | 169# | -0.02 |
| 12 | | 2-Methylnaphthalene | 0.755 | 0.697 | 7.7 | 179# | -0.02 |
| 13 | I | Acenaphthene-d10 | 1.000 | 1.000 | 0.0 | 157# | -0.02 |
| 14 | S | 2,4,6-Tribromophenol | 0.284 | 0.202 | 28.9# | 123 | -0.01 |
| 15 | S | 2-Fluorobiphenyl | 1.512 | 1.517 | -0.3 | 158# | -0.02 |
| 16 | | Acenaphthylene | 1.680 | 1.576 | 6.2 | 155# | -0.02 |
| 17 | | Acenaphthene | 1.115 | 1.097 | 1.6 | 158# | -0.02 |
| 18 | | Fluorene | 1.596 | 1.397 | 12.5 | 142 | -0.02 |
| 19 | I | Phenanthrene-d10 | 1.000 | 1.000 | 0.0 | 117 | 0.00 |
| 20 | | 4,6-Dinitro-2-methylphenol | 0.039 | 0.027 | 30.8# | 89 | 0.00 |
| 21 | | 4-Bromophenyl-phenylether | 0.234 | 0.240 | -2.6 | 125 | -0.01 |
| 22 | | Hexachlorobenzene | 0.275 | 0.350 | -27.3# | 151# | -0.01 |
| 23 | | Atrazine | 0.167 | 0.161 | 3.6 | 123 | 0.00 |
| 24 | | Pentachlorophenol | 0.120 | 0.093 | 22.5 | 114 | -0.01 |
| 25 | | Phenanthrene | 1.099 | 1.034 | 5.9 | 114 | -0.01 |
| 26 | | Anthracene | 0.994 | 0.859 | 13.6 | 107 | 0.00 |
| 27 | SURR | Fluoranthene-d10 | 1.134 | 0.951 | 16.1 | 104 | 0.00 |
| 28 | | Fluoranthene | 1.481 | 1.171 | 20.9 | 97 | 0.00 |
| 29 | I | Chrysene-d12 | 1.000 | 1.000 | 0.0 | 82 | 0.00 |
| 30 | | Pyrene | 1.477 | 1.676 | -13.5 | 94 | 0.00 |
| 31 | S | Terphenyl-d14 | 0.789 | 0.833 | -5.6 | 87 | 0.00 |
| 32 | | Benzo(a)anthracene | 1.399 | 1.118 | 20.1 | 68 | 0.00 |
| 33 | | Chrysene | 1.443 | 1.552 | -7.6 | 89 | 0.00 |
| 34 | | Bis(2-ethylhexyl)phthalate | 0.553 | 0.600 | -8.5 | 96 | 0.00 |
| 35 | I | Perylene-d12 | 1.000 | 1.000 | 0.0 | 73 | -0.01 |
| 36 | | Indeno(1,2,3-cd)pyrene | 1.564 | 1.394 | 10.9 | 66 | -0.01 |
| 37 | | Benzo(b)fluoranthene | 1.463 | 1.834 | -25.4# | 101 | -0.01 |
| 38 | | Benzo(k)fluoranthene | 1.440 | 1.595 | -10.8 | 83 | -0.01 |
| 39 | C | Benzo(a)pyrene | 1.205 | 1.126 | 6.6 | 71 | 0.00 |
| 40 | | Dibenzo(a,h)anthracene | 1.234 | 0.990 | 19.8 | 60 | 0.00 |
| 41 | | Benzo(g,h,i)perylene | 1.289 | 1.298 | -0.7 | 76 | -0.02 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035830.D
Acq On : 24 Dec 2024 20:55
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 20 Sample Multiplier: 1

**Instrument :**
BNA_N
**LabSampleId :**
SSTDCCC0.4

Quant Time: Dec 24 23:55:02 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | 1,4-Dichlorobenzene-d4 | 0.400 | 0.400 | 0.0 | 189 | -0.01 |
| 2 | | 1,4-Dioxane | 0.400 | 0.513 | -28.2# | 246 | 0.00 |
| 3 | | n-Nitrosodimethylamine | 0.400 | 0.377 | 5.8 | 174 | 0.00 |
| 4 | S | 2-Fluorophenol | 0.400 | 0.363 | 9.3 | 169 | -0.01 |
| 5 | S | Phenol-d6 | 0.400 | 0.516 | -29.0# | 246 | -0.02 |
| 6 | | bis(2-Chloroethyl)ether | 0.400 | 0.415 | -3.7 | 199 | -0.01 |
| 7 | I | Naphthalene-d8 | 0.400 | 0.400 | 0.0 | 190 | -0.02 |
| 8 | S | Nitrobenzene-d5 | 0.400 | 0.504 | -26.0# | 249 | -0.01 |
| 9 | | Naphthalene | 0.400 | 0.413 | -3.2 | 198 | -0.01 |
| 10 | | Hexachlorobutadiene | 0.400 | 0.465 | -16.3 | 218 | -0.02 |
| 11 | SURR | 2-Methylnaphthalene-d10 | 0.400 | 0.352 | 12.0 | 169 | -0.02 |
| 12 | | 2-Methylnaphthalene | 0.400 | 0.369 | 7.8 | 179 | -0.02 |
| 13 | I | Acenaphthene-d10 | 0.400 | 0.400 | 0.0 | 157 | -0.02 |
| 14 | S | 2,4,6-Tribromophenol | 0.400 | 0.285 | 28.8# | 123 | -0.01 |
| 15 | S | 2-Fluorobiphenyl | 0.400 | 0.401 | -0.3 | 158 | -0.02 |
| 16 | | Acenaphthylene | 0.400 | 0.375 | 6.3 | 155 | -0.02 |
| 17 | | Acenaphthene | 0.400 | 0.393 | 1.8 | 158 | -0.02 |
| 18 | | Fluorene | 0.400 | 0.350 | 12.5 | 142 | -0.02 |
| 19 | I | Phenanthrene-d10 | 0.400 | 0.400 | 0.0 | 117 | 0.00 |
| 20 | | 4,6-Dinitro-2-methylphenol | 0.400 | 0.275 | 31.3# | 89 | 0.00 |
| 21 | | 4-Bromophenyl-phenylether | 0.400 | 0.411 | -2.7 | 125 | -0.01 |
| 22 | | Hexachlorobenzene | 0.400 | 0.510 | -27.5# | 151 | -0.01 |
| 23 | | Atrazine | 0.400 | 0.386 | 3.5 | 123 | 0.00 |
| 24 | | Pentachlorophenol | 0.400 | 0.310 | 22.5 | 114 | -0.01 |
| 25 | | Phenanthrene | 0.400 | 0.376 | 6.0 | 114 | -0.01 |
| 26 | | Anthracene | 0.400 | 0.346 | 13.5 | 107 | 0.00 |
| 27 | SURR | Fluoranthene-d10 | 0.400 | 0.335 | 16.3 | 104 | 0.00 |
| 28 | | Fluoranthene | 0.400 | 0.316 | 21.0 | 97 | 0.00 |
| 29 | I | Chrysene-d12 | 0.400 | 0.400 | 0.0 | 82 | 0.00 |
| 30 | | Pyrene | 0.400 | 0.454 | -13.5 | 94 | 0.00 |
| 31 | S | Terphenyl-d14 | 0.400 | 0.422 | -5.5 | 87 | 0.00 |
| 32 | | Benzo(a)anthracene | 0.400 | 0.320 | 20.0 | 68 | 0.00 |
| 33 | | Chrysene | 0.400 | 0.430 | -7.5 | 89 | 0.00 |
| 34 | | Bis(2-ethylhexyl)phthalate | 0.400 | 0.434 | -8.5 | 96 | 0.00 |
| 35 | I | Perylene-d12 | 0.400 | 0.400 | 0.0 | 73 | -0.01 |
| 36 | | Indeno(1,2,3-cd)pyrene | 0.400 | 0.357 | 10.8 | 66 | -0.01 |
| 37 | | Benzo(b)fluoranthene | 0.400 | 0.501 | -25.2# | 101 | -0.01 |
| 38 | | Benzo(k)fluoranthene | 0.400 | 0.443 | -10.7 | 83 | -0.01 |
| 39 | C | Benzo(a)pyrene | 0.400 | 0.374 | 6.5 | 71 | 0.00 |
| 40 | | Dibenzo(a,h)anthracene | 0.400 | 0.321 | 19.8 | 60 | 0.00 |
| 41 | | Benzo(g,h,i)perylene | 0.400 | 0.403 | -0.8 | 76 | -0.02 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: P5376 SAS No.: P5376 SDG No.: P5376

Instrument ID: BNA_N Calibration Date/Time: 12/25/2024 05:14

Lab File ID: BN035843.D Init. Calib. Date(s): 11/27/2024 11/27/2024

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 15:34 19:09

GC Column: ZB-GR ID: 0.25 (mm)

| COMPOUND | RRF | RRF0.4 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| 2-Methylnaphthalene-d10 | 0.626 | 0.525 | | -16.1 | 50.0 |
| Fluoranthene-d10 | 1.134 | 0.959 | | -15.4 | 50.0 |
| 2-Fluorophenol | 1.001 | 0.947 | | -5.4 | 50.0 |
| Phenol-d6 | 1.204 | 1.574 | | 30.7 | 50.0 |
| Nitrobenzene-d5 | 0.244 | 0.351 | | 43.9 | 50.0 |
| 2-Fluorobiphenyl | 1.512 | 1.591 | | 5.2 | 50.0 |
| 2,4,6-Tribromophenol | 0.284 | 0.234 | | -17.6 | 50.0 |
| Terphenyl-d14 | 0.789 | 0.810 | | 2.7 | 50.0 |
| 1,4-Dioxane | 0.382 | 0.510 | | 33.5 | 50.0 |

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035843.D
Acq On : 25 Dec 2024 05:14
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Dec 25 07:05:57 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.257 | 152 | 5156 | 0.400 | ng | | -0.01 |
| 7) Naphthalene-d8 | 9.998 | 136 | 13078 | 0.400 | ng | | #-0.02 |
| 13) Acenaphthene-d10 | 13.914 | 164 | 6801 | 0.400 | ng | | -0.02 |
| 19) Phenanthrene-d10 | 16.686 | 188 | 13499 | 0.400 | ng | | #-0.01 |
| 29) Chrysene-d12 | 20.938 | 240 | 10827 | 0.400 | ng | | #-0.02 |
| 35) Perylene-d12 | 23.023 | 264 | 11272 | 0.400 | ng | | #-0.02 |
| System Monitoring Compounds | | | | | | | |
| 4) 2-Fluorophenol | 4.924 | 112 | 4881 | 0.378 | ng | | -0.01 |
| 5) Phenol-d6 | 6.470 | 99 | 8113 | 0.523 | ng | | -0.02 |
| 8) Nitrobenzene-d5 | 8.397 | 82 | 4586m | 0.574 | ng | | -0.01 |
| 11) 2-Methylnaphthalene-d10 | 11.600 | 152 | 6864 | 0.335 | ng | | -0.02 |
| 14) 2,4,6-Tribromophenol | 15.443 | 330 | 1590 | 0.329 | ng | | -0.01 |
| 15) 2-Fluorobiphenyl | 12.528 | 172 | 10817 | 0.421 | ng | | -0.02 |
| 27) Fluoranthene-d10 | 18.747 | 212 | 12946 | 0.338 | ng | | -0.01 |
| 31) Terphenyl-d14 | 19.379 | 244 | 8772 | 0.411 | ng | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 2.974 | 88 | 2628 | 0.533 | ng | | 99 |
| 3) n-Nitrosodimethylamine | 3.270 | 42 | 1575 | 0.384 | ng | # | 83 |
| 6) bis(2-Chloroethyl)ether | 6.708 | 93 | 6304 | 0.483 | ng | | 99 |
| 9) Naphthalene | 10.052 | 128 | 17615 | 0.511 | ng | | 98 |
| 10) Hexachlorobutadiene | 10.340 | 225 | 4448 | 0.559 | ng | # | 99 |
| 12) 2-Methylnaphthalene | 11.681 | 142 | 8694 | 0.352 | ng | | 98 |
| 16) Acenaphthylene | 13.625 | 152 | 10564 | 0.370 | ng | | 99 |
| 17) Acenaphthene | 13.978 | 154 | 7280 | 0.384 | ng | | 99 |
| 18) Fluorene | 14.983 | 166 | 9290 | 0.342 | ng | | 100 |
| 20) 4,6-Dinitro-2-methylph... | 15.111 | 198 | 461 | 0.347 | ng | # | 44 |
| 21) 4-Bromophenyl-phenylether | 15.904 | 248 | 2960 | 0.375 | ng | | 96 |
| 22) Hexachlorobenzene | 15.991 | 284 | 4352 | 0.469 | ng | | 95 |
| 23) Atrazine | 16.202 | 200 | 2032 | 0.362 | ng | | 93 |
| 24) Pentachlorophenol | 16.363 | 266 | 1431 | 0.355 | ng | # | 85 |
| 25) Phenanthrene | 16.735 | 178 | 14253 | 0.384 | ng | | 99 |
| 26) Anthracene | 16.822 | 178 | 11727 | 0.350 | ng | | 99 |
| 28) Fluoranthene | 18.780 | 202 | 16856 | 0.337 | ng | | 99 |
| 30) Pyrene | 19.147 | 202 | 17619 | 0.441 | ng | | 99 |
| 32) Benzo(a)anthracene | 20.929 | 228 | 13110 | 0.346 | ng | | 99 |
| 33) Chrysene | 20.974 | 228 | 16237 | 0.416 | ng | | 99 |
| 34) Bis(2-ethylhexyl)phtha... | 20.893 | 149 | 5933 | 0.397 | ng | | 99 |
| 36) Indeno(1,2,3-cd)pyrene | 25.044 | 276 | 15331 | 0.348 | ng | | 99 |
| 37) Benzo(b)fluoranthene | 22.412 | 252 | 25617 | 0.621 | ng | # | 96 |
| 38) Benzo(k)fluoranthene | 22.453 | 252 | 18591m | 0.458 | ng | | |
| 39) Benzo(a)pyrene | 22.936 | 252 | 12667 | 0.373 | ng | # | 90 |
| 40) Dibenzo(a,h)anthracene | 25.061 | 278 | 11116 | 0.320 | ng | | 94 |
| 41) Benzo(g,h,i)perylene | 25.652 | 276 | 14070 | 0.387 | ng | | 98 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

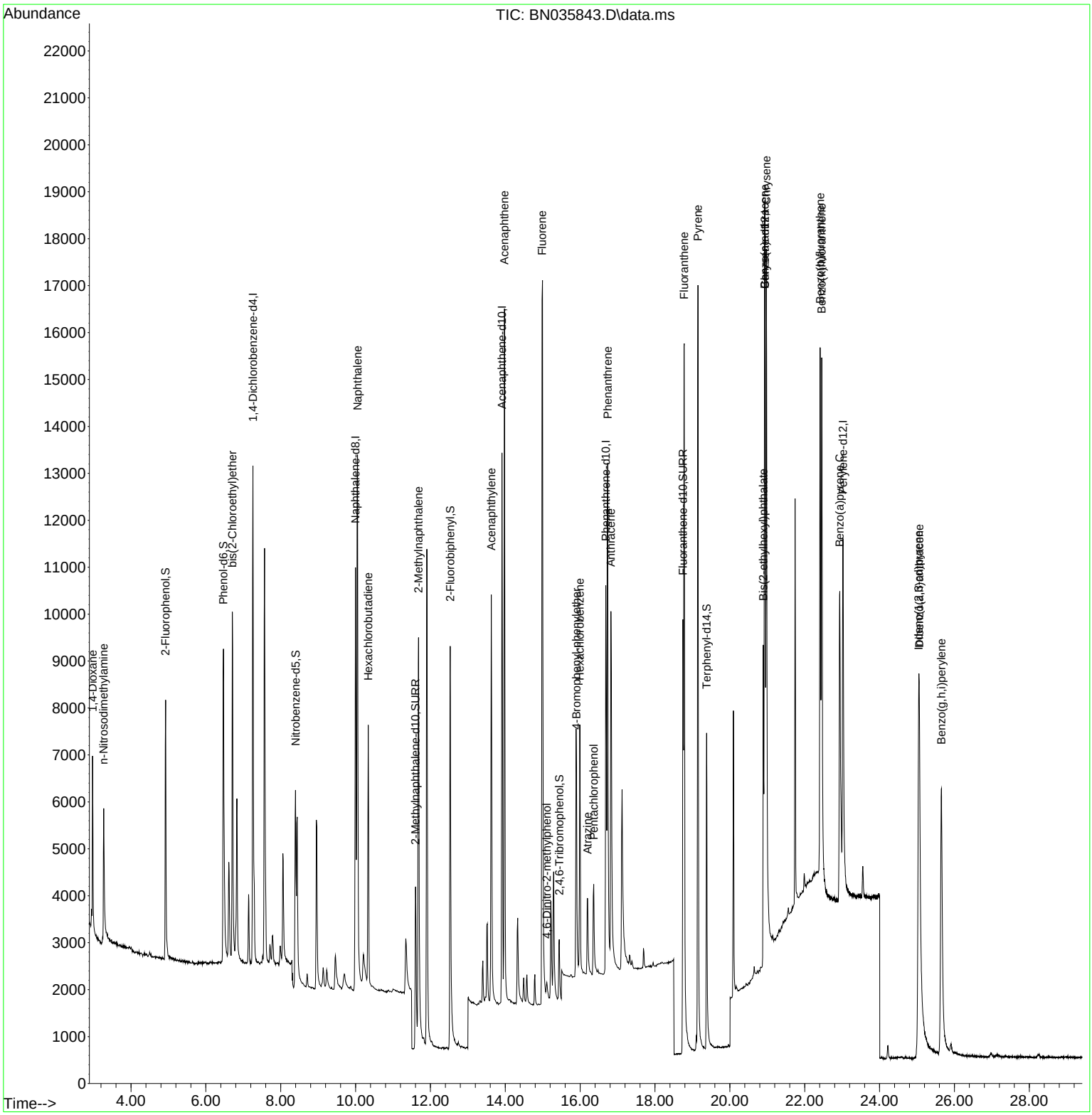
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035843.D
Acq On : 25 Dec 2024 05:14
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 32 Sample Multiplier: 1

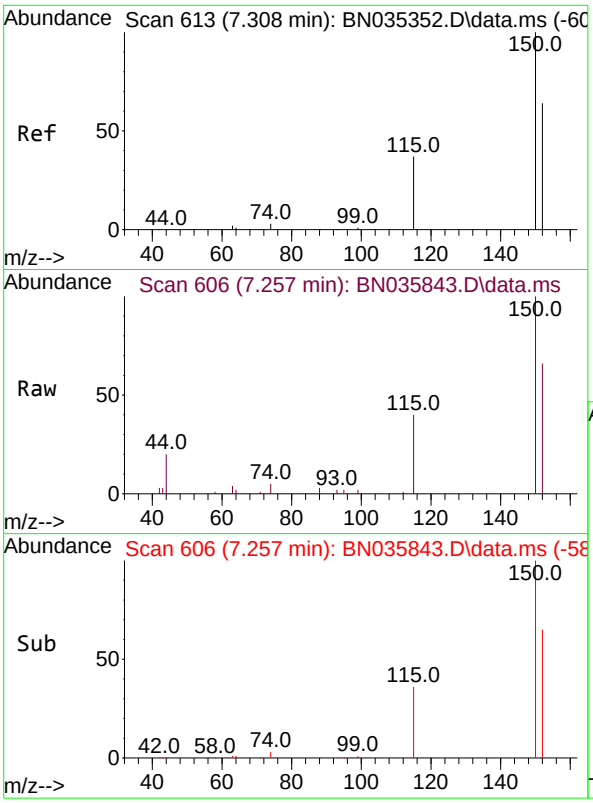
Quant Time: Dec 25 07:05:57 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024

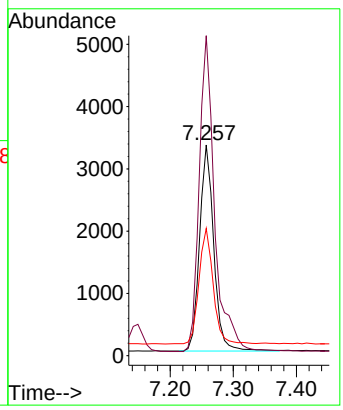





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 6(
Delta R.T. -0.015 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion:152 Resp: 515(

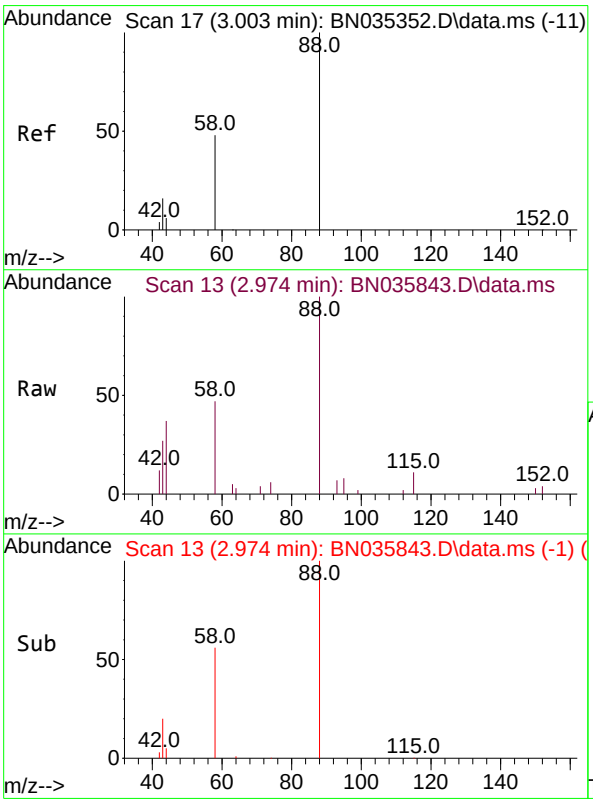
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 151.9 | 124.0 | 186.0 |
| 115 | 60.4 | 49.6 | 74.4 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations**
**APPROVED**

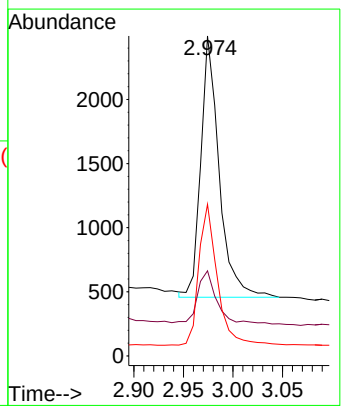
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024

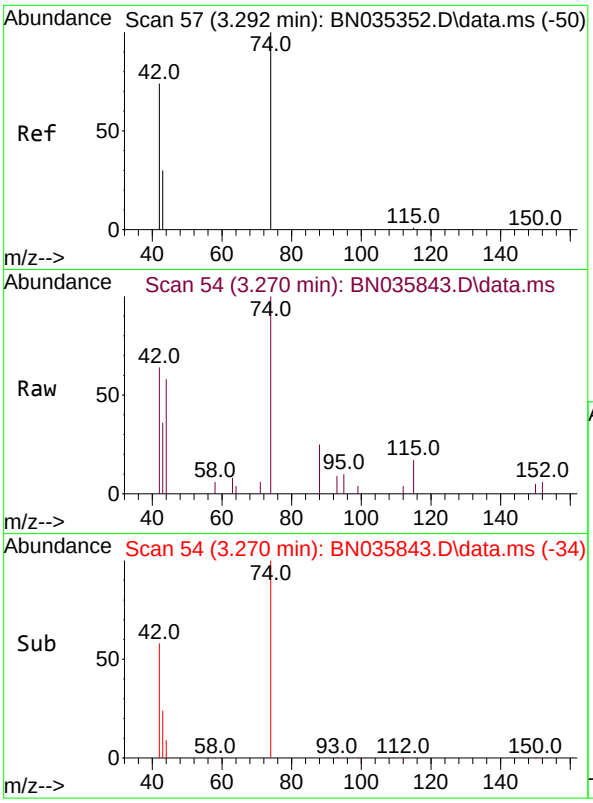



#2
1,4-Dioxane
Concen: 0.533 ng
RT: 2.974 min Scan# 13
Delta R.T. -0.007 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion: 88 Resp: 2628

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 21.2 | 17.2 | 25.8 |
| 58 | 54.7 | 44.5 | 66.7 |

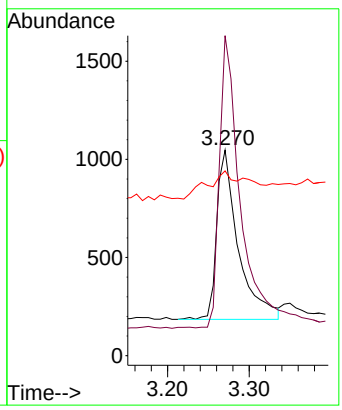





#3
n-Nitrosodimethylamine
Concen: 0.384 ng
RT: 3.270 min Scan# 54
Delta R.T. -0.007 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion: 42 Resp: 157

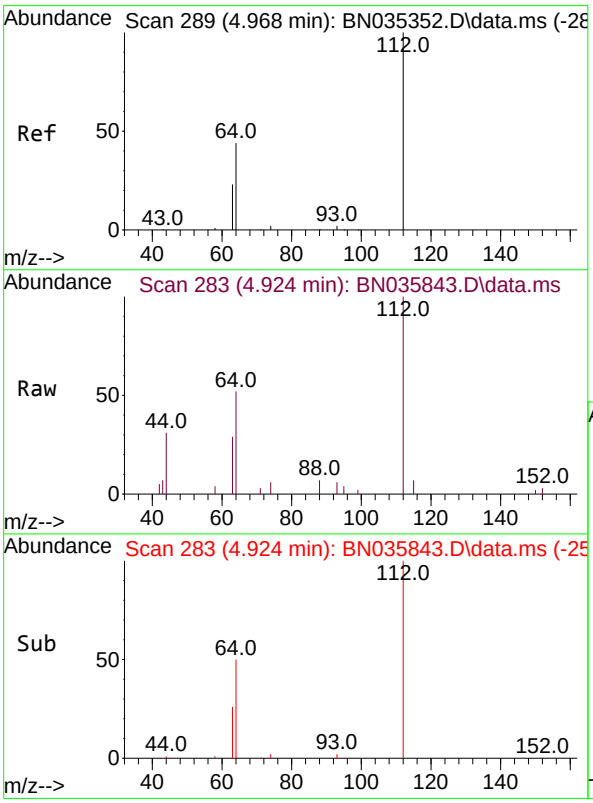
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 177.0 | 124.9 | 187.3 |
| 44 | 20.2 | 2.2 | 3.4 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations APPROVED**

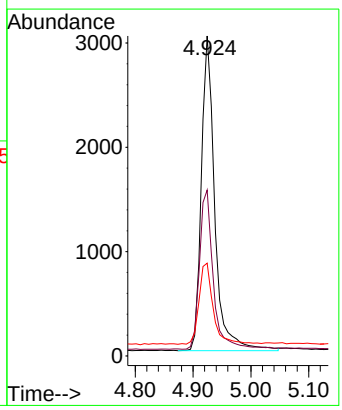
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024

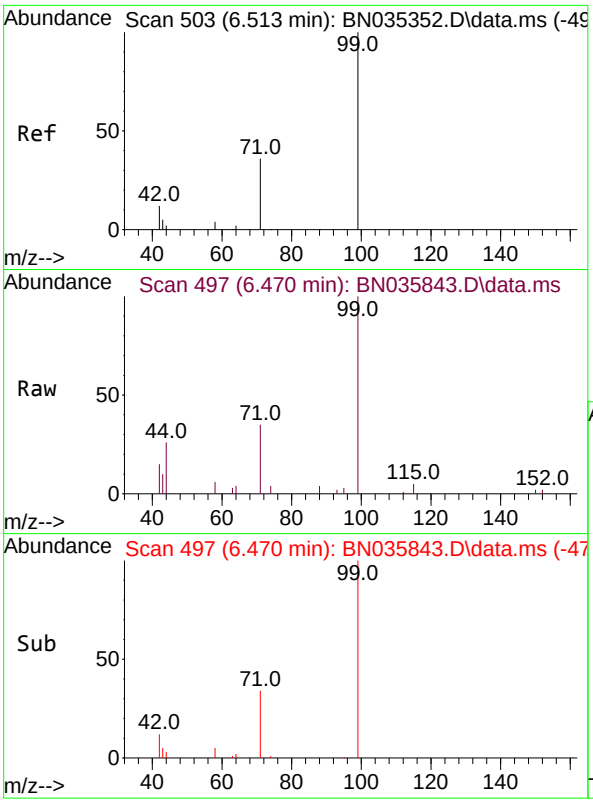



#4
2-Fluorophenol
Concen: 0.378 ng
RT: 4.924 min Scan# 283
Delta R.T. -0.015 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion:112 Resp: 4881

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 52.0 | 39.8 | 59.8 |
| 63 | 27.3 | 21.0 | 31.6 |

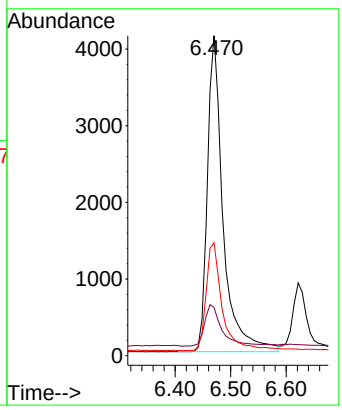





#5
Phenol-d6
Concen: 0.523 ng
RT: 6.470 min Scan# 4
Delta R.T. -0.022 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion: 99 Resp: 811

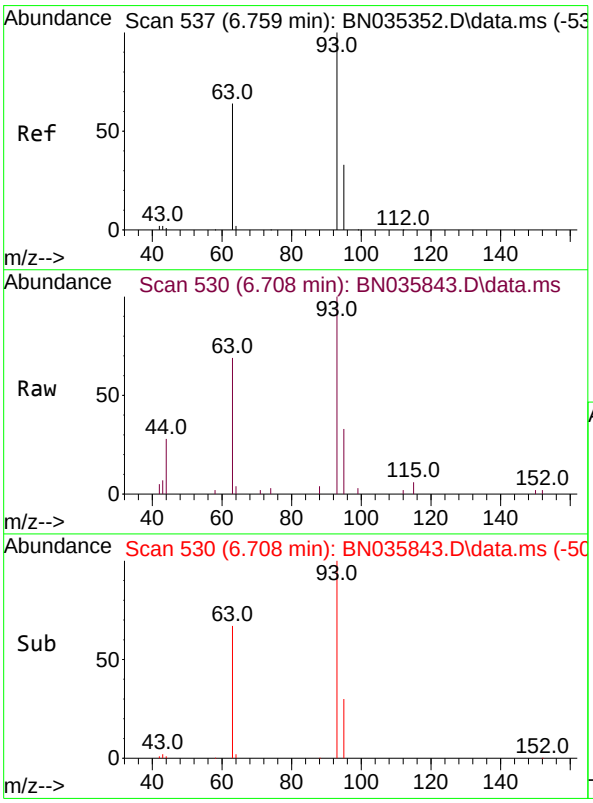
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 15.0 | 11.4 | 17.2 |
| 71 | 35.5 | 29.3 | 43.9 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations**
**APPROVED**

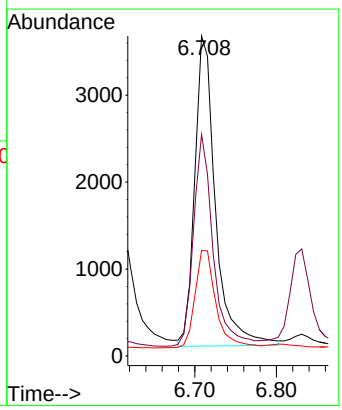
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024

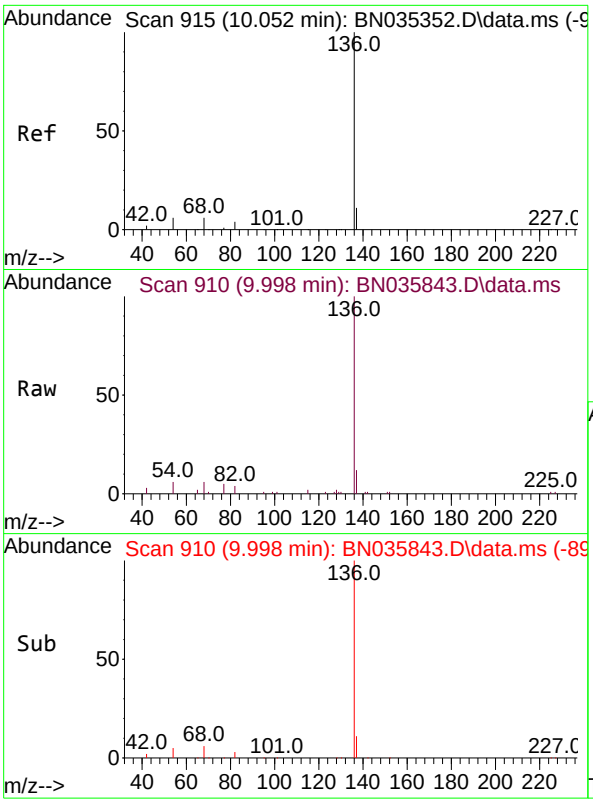



#6
bis(2-Chloroethyl)ether
Concen: 0.483 ng
RT: 6.708 min Scan# 530
Delta R.T. -0.022 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion: 93 Resp: 6304

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 64.6 | 50.4 | 75.6 |
| 95 | 32.1 | 25.7 | 38.5 |

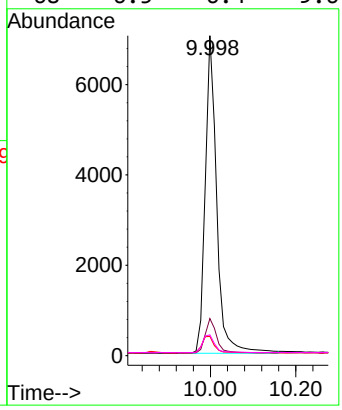





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 9.998 min Scan# 9
Delta R.T. -0.022 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion:136 Resp: 1307

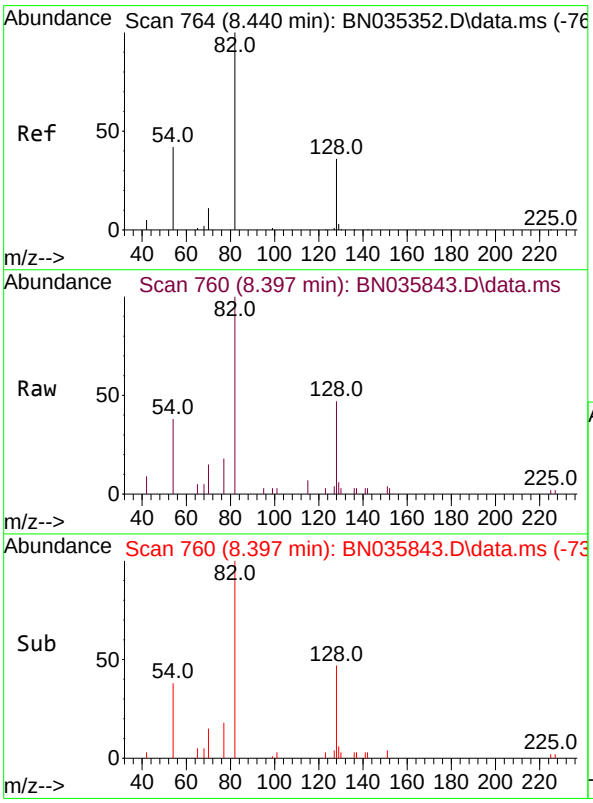
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.6 | 10.2 | 15.2 |
| 54 | 6.1 | 6.1 | 9.1 |
| 68 | 6.5 | 6.4 | 9.6 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations**
**APPROVED**

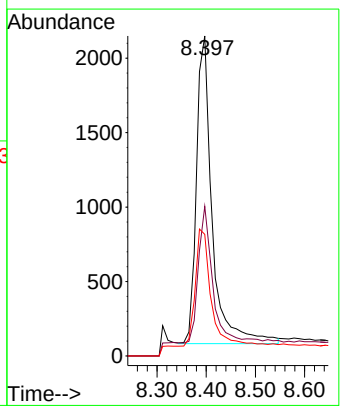
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024

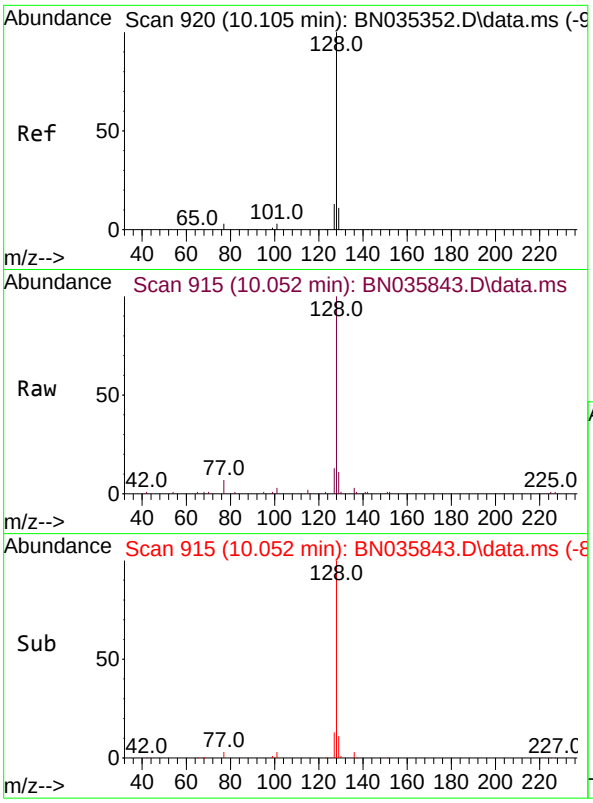



#8
Nitrobenzene-d5
Concen: 0.574 ng m
RT: 8.397 min Scan# 760
Delta R.T. -0.011 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion: 82 Resp: 4586

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 46.8 | 33.4 | 50.0 |
| 54 | 38.0 | 36.7 | 55.1 |

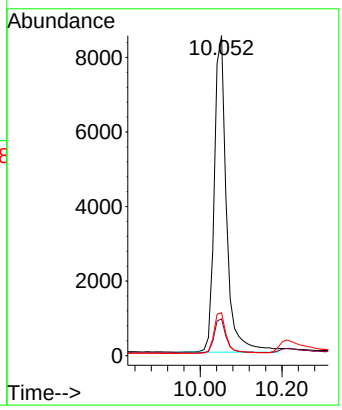





#9
Naphthalene
Concen: 0.511 ng
RT: 10.052 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion:128 Resp: 1761

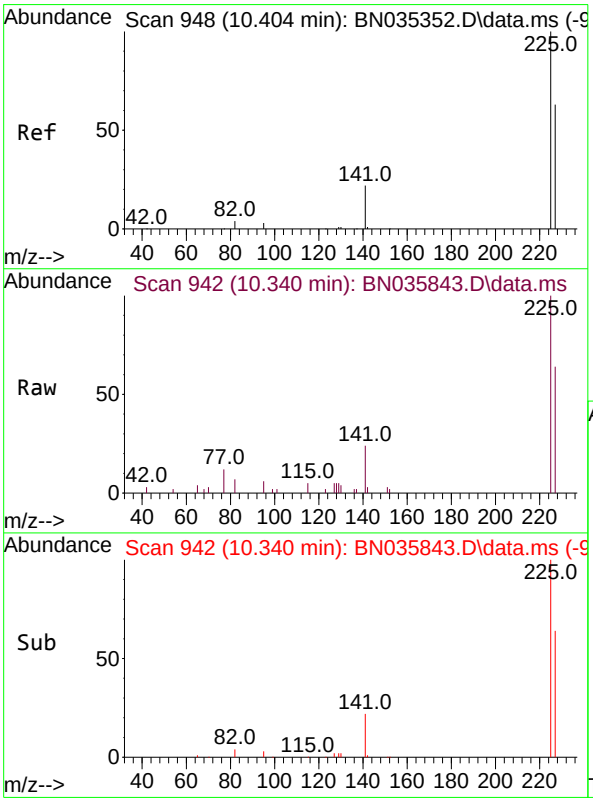
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 11.5 | 9.8 | 14.6 |
| 127 | 13.4 | 11.4 | 17.2 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations**
**APPROVED**

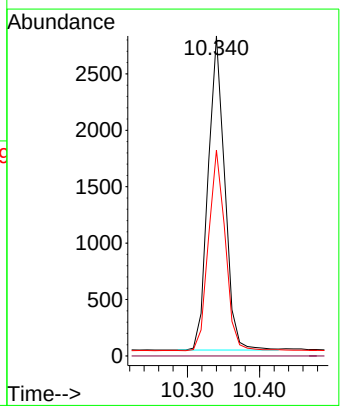
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024

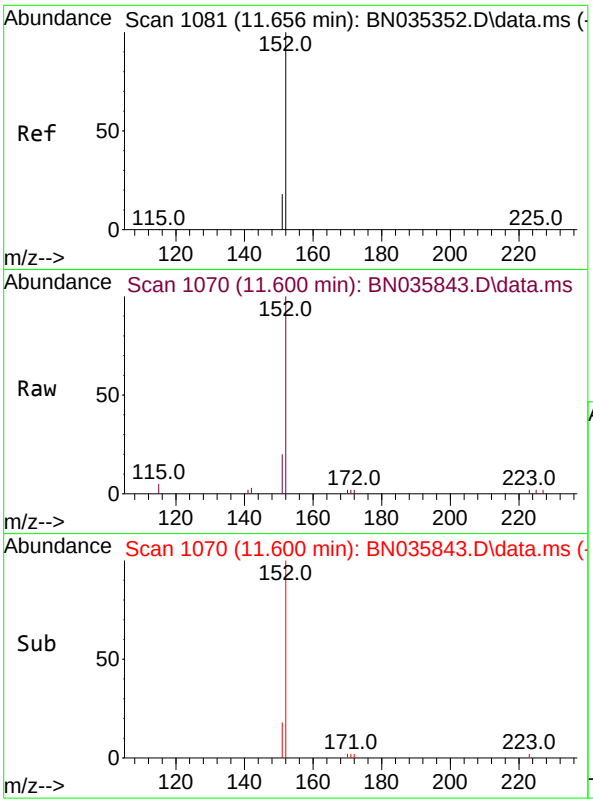



#10
Hexachlorobutadiene
Concen: 0.559 ng
RT: 10.340 min Scan# 942
Delta R.T. -0.022 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion:225 Resp: 4448

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 0.0 | 0.0 | 0.0 |
| 227 | 65.0 | 51.3 | 76.9 |

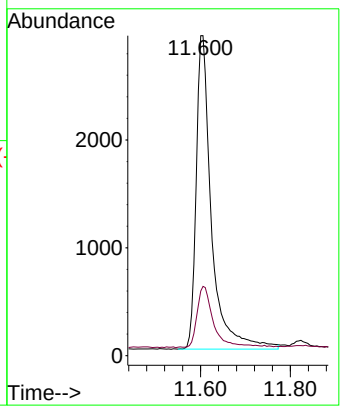





#11
2-Methylnaphthalene-d10
Concen: 0.335 ng
RT: 11.600 min Scan# 1
Delta R.T. -0.020 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion:152 Resp: 686

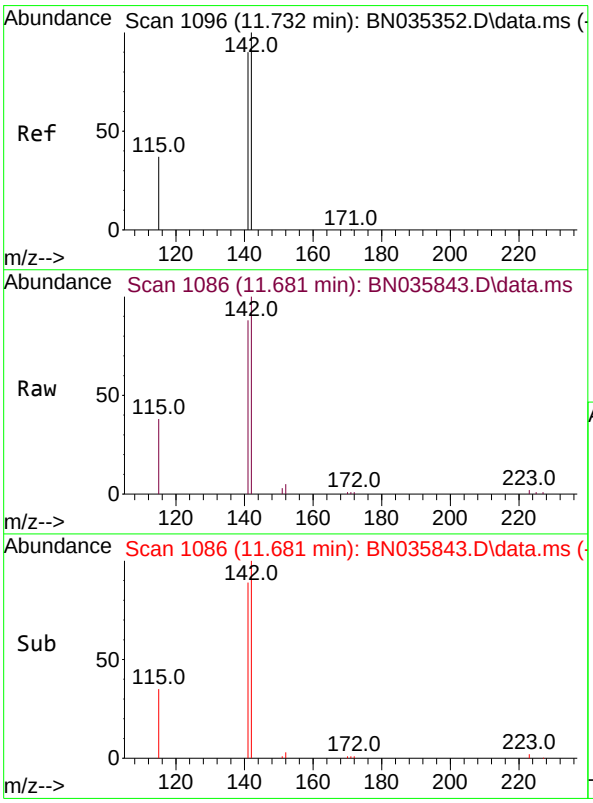
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.6 | 16.6 | 25.0 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations**
**APPROVED**

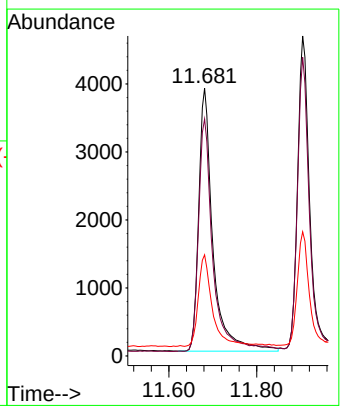
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024

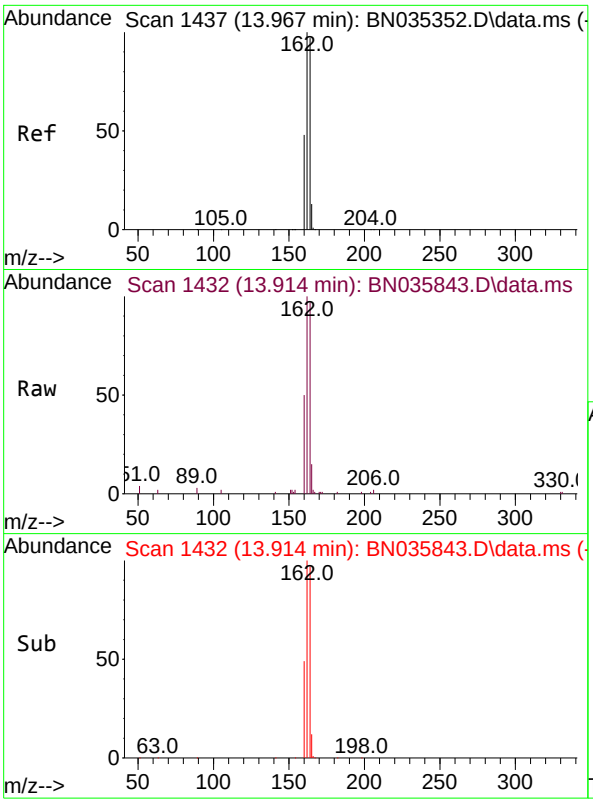



#12
2-Methylnaphthalene
Concen: 0.352 ng
RT: 11.681 min Scan# 1086
Delta R.T. -0.015 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion:142 Resp: 8694

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 88.5 | 72.2 | 108.4 |
| 115 | 37.8 | 31.4 | 47.0 |

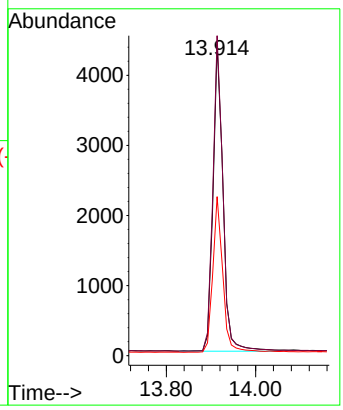





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.914 min Scan# 14
Delta R.T. -0.022 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion:164 Resp: 680

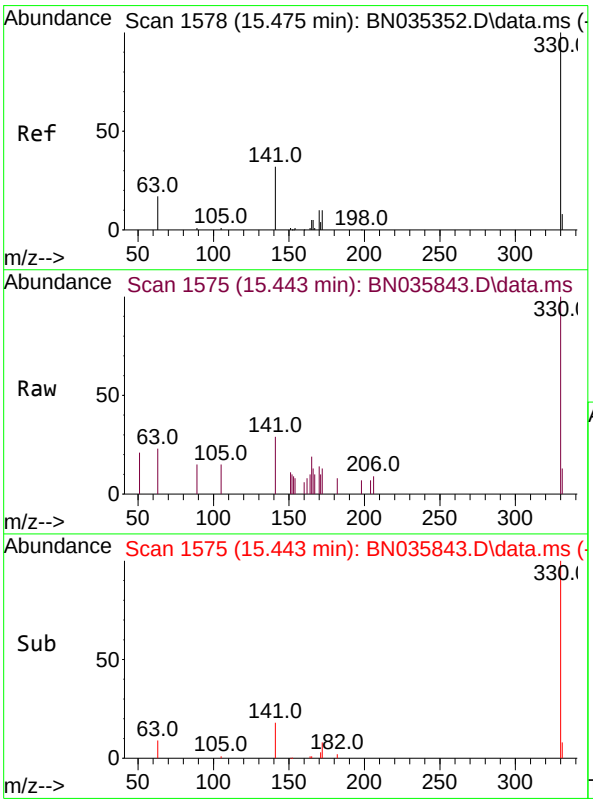
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 102.7 | 82.2 | 123.2 |
| 160 | 51.0 | 40.1 | 60.1 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations**
**APPROVED**

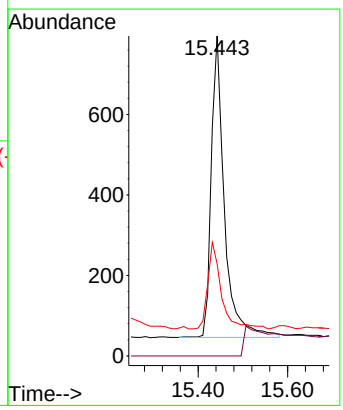
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024

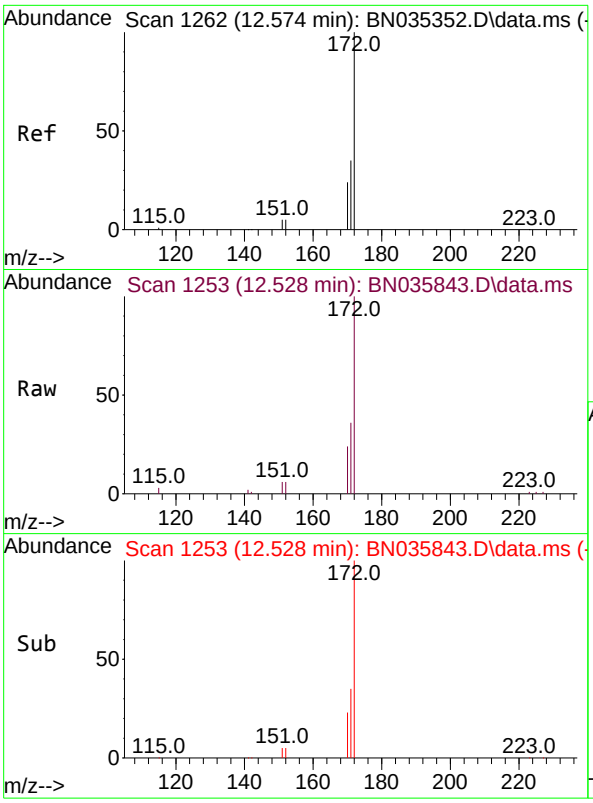



#14
2,4,6-Tribromophenol
Concen: 0.329 ng
RT: 15.443 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion:330 Resp: 1590

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 0.0 | 0.0 | 0.0 |
| 141 | 29.5 | 26.6 | 40.0 |

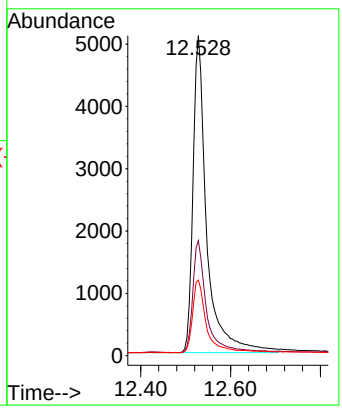





#15
2-Fluorobiphenyl
Concen: 0.421 ng
RT: 12.528 min Scan# 1
Delta R.T. -0.015 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion:172 Resp: 1081

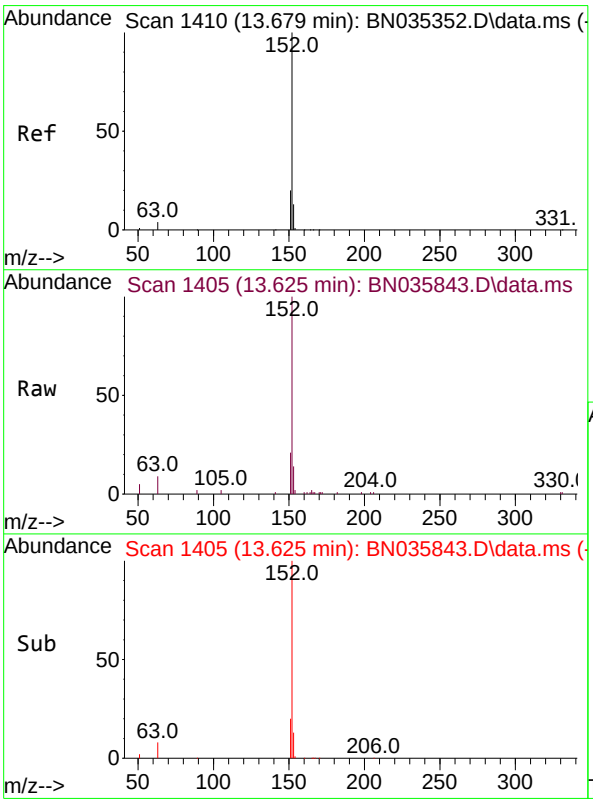
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 36.0 | 29.0 | 43.4 |
| 170 | 23.6 | 19.8 | 29.8 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations**
**APPROVED**

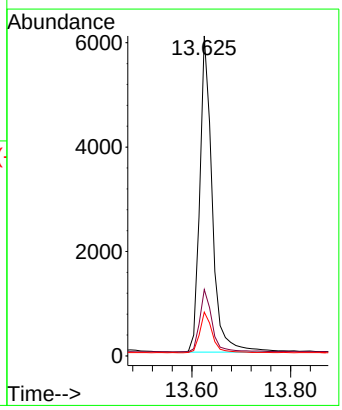
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024

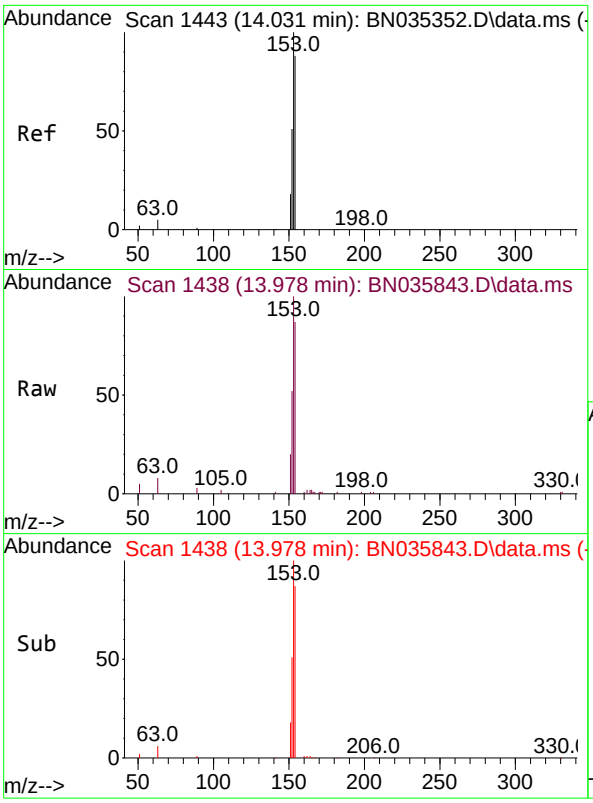



#16
Acenaphthylene
Concen: 0.370 ng
RT: 13.625 min Scan# 1405
Delta R.T. -0.022 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion:152 Resp: 10564

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 19.7 | 16.2 | 24.2 |
| 153 | 13.1 | 10.4 | 15.6 |

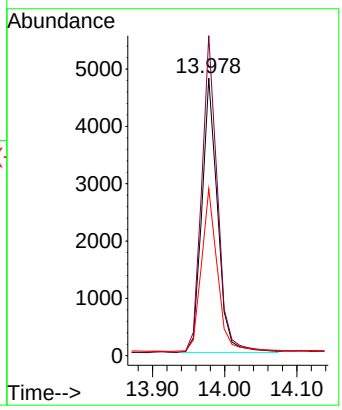





#17
Acenaphthene
Concen: 0.384 ng
RT: 13.978 min Scan# 14
Delta R.T. -0.022 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion:154 Resp: 728

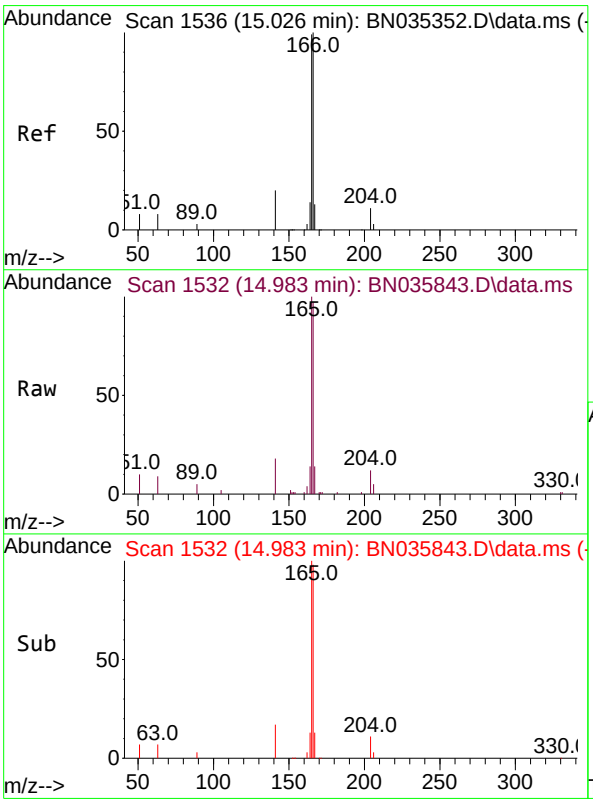
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 116.2 | 92.6 | 139.0 |
| 152 | 60.3 | 49.0 | 73.6 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations**
**APPROVED**

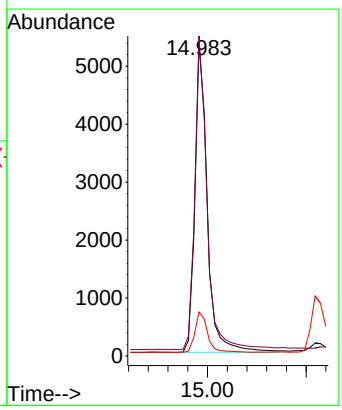
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024

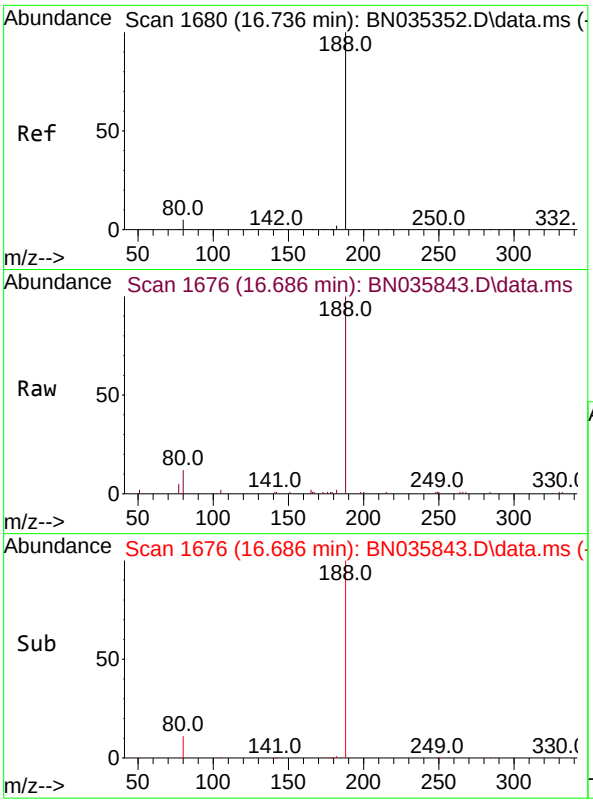



#18
Fluorene
Concen: 0.342 ng
RT: 14.983 min Scan# 1532
Delta R.T. -0.022 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion:166 Resp: 9290

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 99.5 | 79.7 | 119.5 |
| 167 | 13.4 | 10.8 | 16.2 |

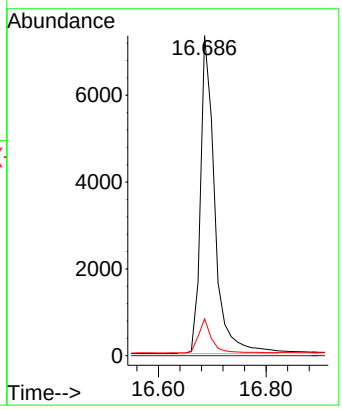





#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.686 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion:188 Resp: 1349

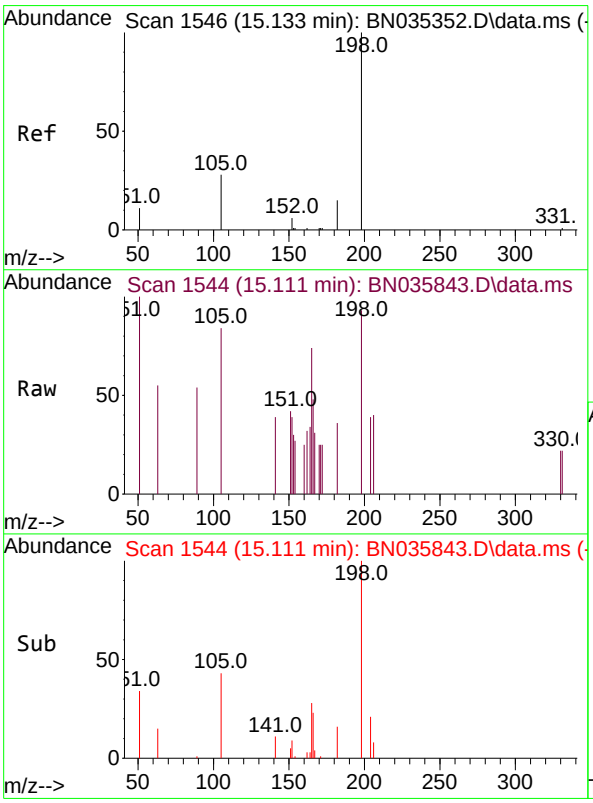
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 11.5 | 4.6 | 6.8# |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations**
**APPROVED**

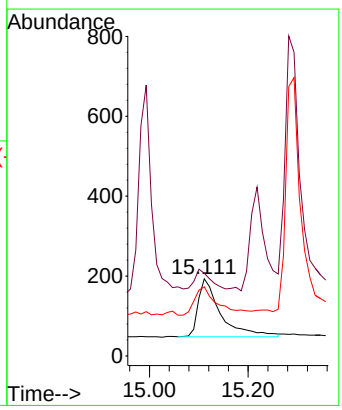
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024

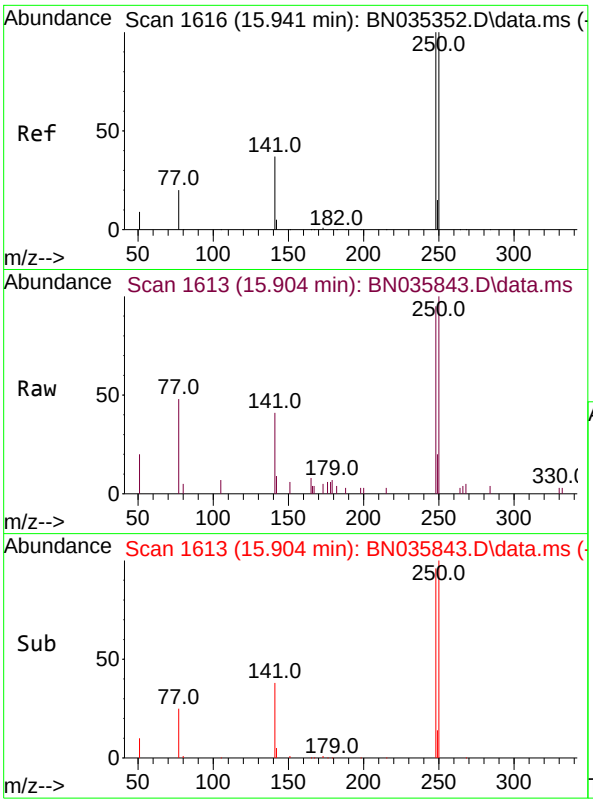



#20
4,6-Dinitro-2-methylphenol
Concen: 0.347 ng
RT: 15.111 min Scan# 1544
Delta R.T. -0.011 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion:198 Resp: 461

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 198 | 100 | | |
| 51 | 107.3 | 46.5 | 69.7# |
| 105 | 89.6 | 45.3 | 67.9# |

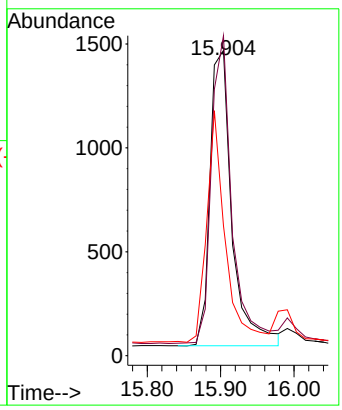





#21
4-Bromophenyl-phenylether
Concen: 0.375 ng
RT: 15.904 min Scan# 1(
Delta R.T. -0.013 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion:248 Resp: 296(

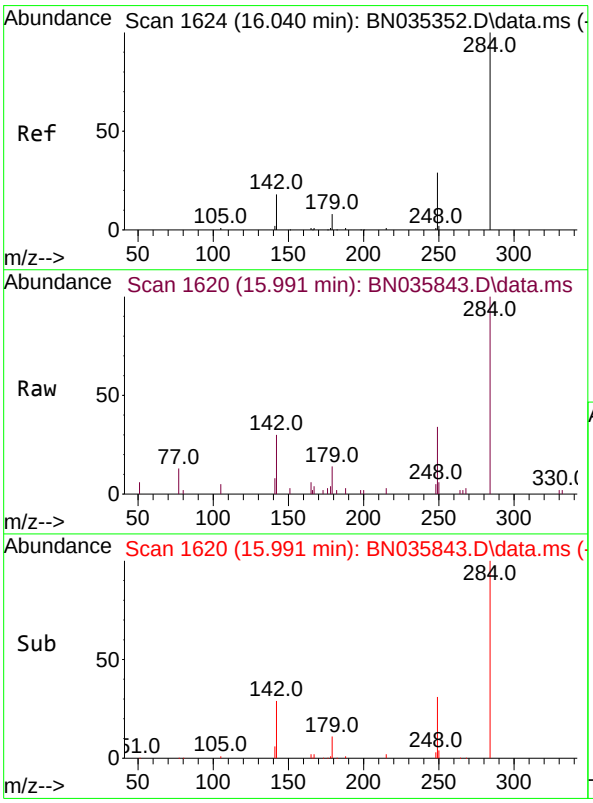
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 104.8 | 80.6 | 120.8 |
| 141 | 42.5 | 31.5 | 47.3 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations**
**APPROVED**

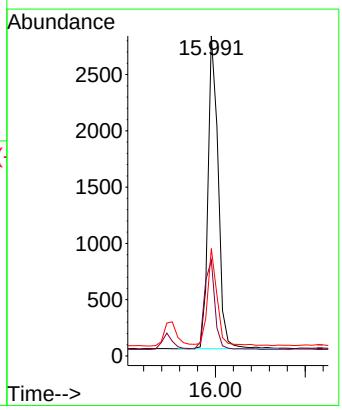
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024

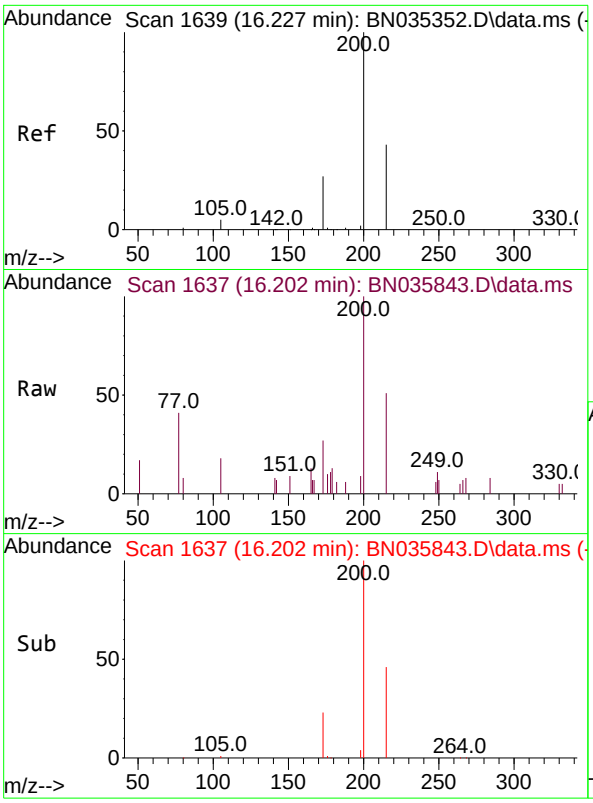



#22
Hexachlorobenzene
Concen: 0.469 ng
RT: 15.991 min Scan# 1620
Delta R.T. -0.025 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion:284 Resp: 4352

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 29.5 | 26.7 | 40.1 |
| 249 | 29.5 | 24.6 | 36.8 |

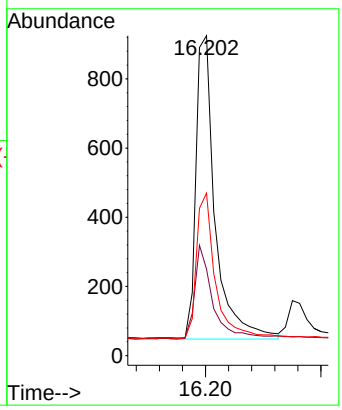





#23
Atrazine
Concen: 0.362 ng
RT: 16.202 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion:200 Resp: 203

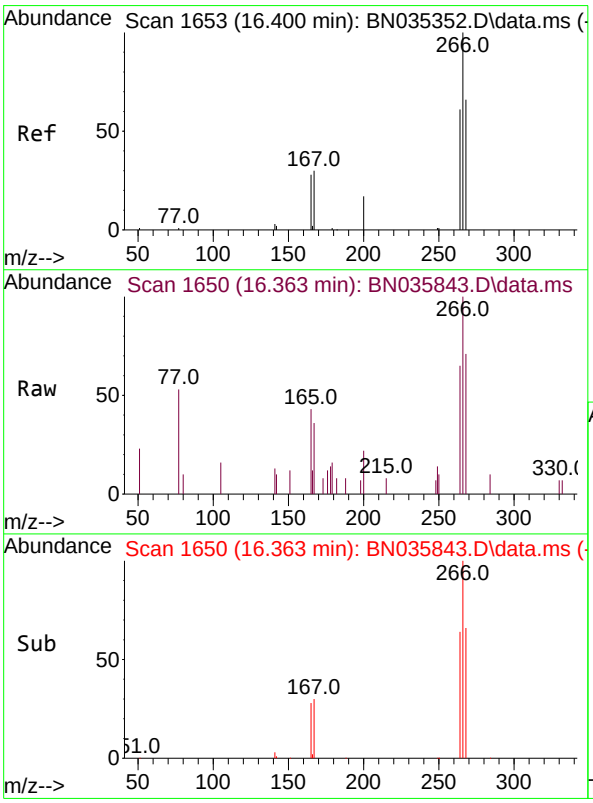
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 173 | 27.0 | 24.1 | 36.1 |
| 215 | 50.8 | 36.9 | 55.3 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations**
**APPROVED**

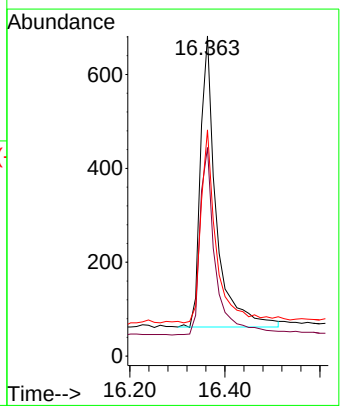
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024

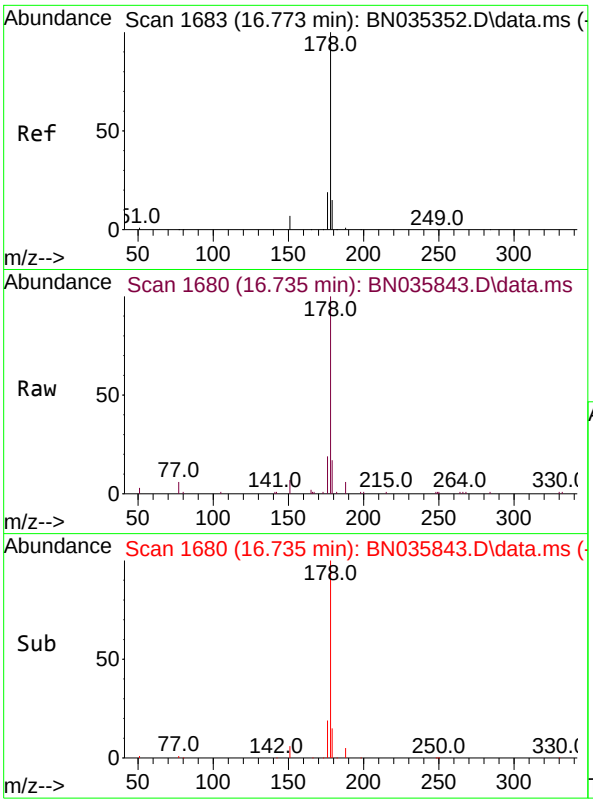



#24
Pentachlorophenol
Concen: 0.355 ng
RT: 16.363 min Scan# 1650
Delta R.T. -0.013 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion:266 Resp: 1431

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 264 | 63.7 | 42.3 | 63.5# |
| 268 | 64.5 | 43.3 | 64.9 |

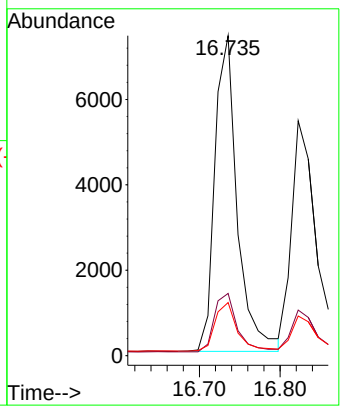





#25
Phenanthrene
Concen: 0.384 ng
RT: 16.735 min Scan# 1(
Delta R.T. -0.013 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion:178 Resp: 1425

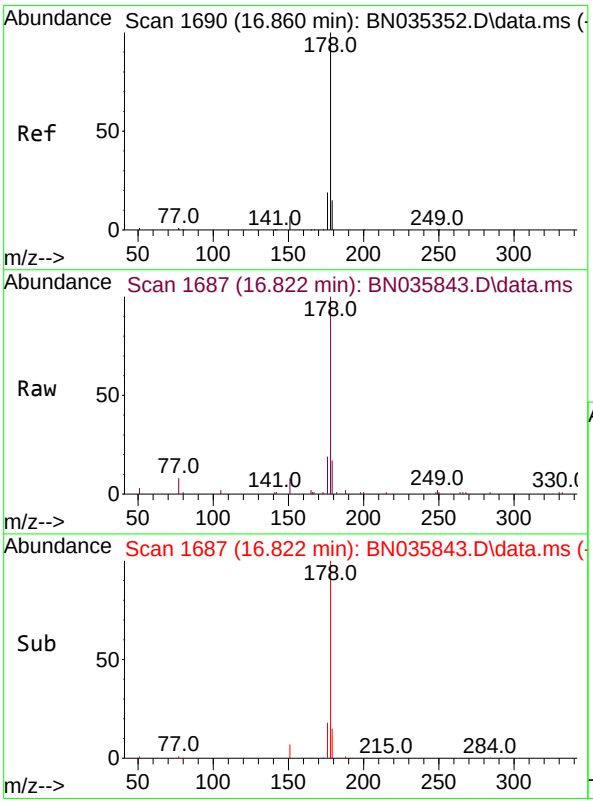
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.8 | 15.4 | 23.2 |
| 179 | 15.4 | 12.3 | 18.5 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations**
**APPROVED**

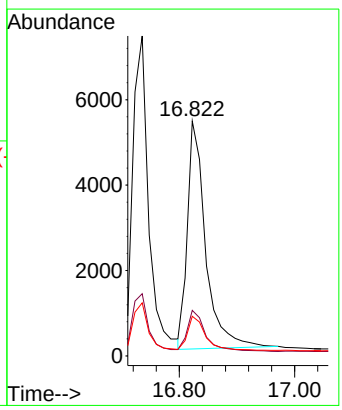
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024

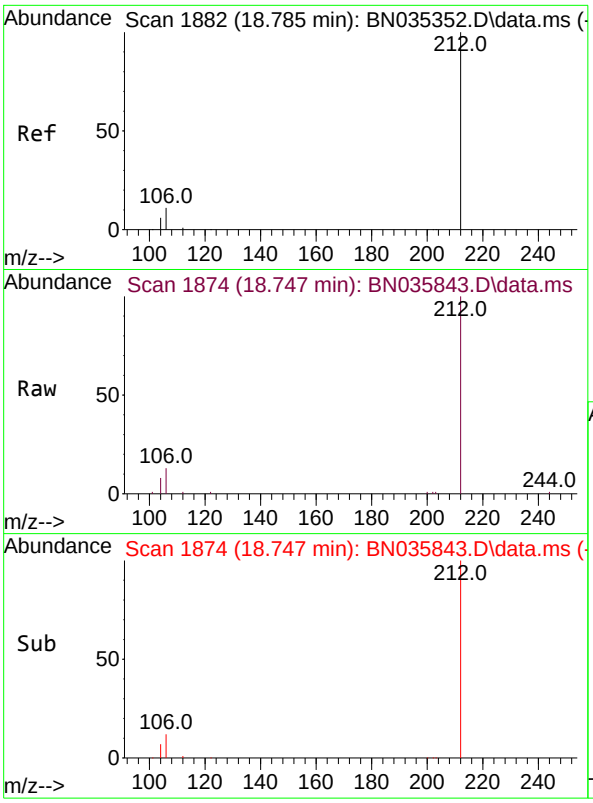



#26
Anthracene
Concen: 0.350 ng
RT: 16.822 min Scan# 1687
Delta R.T. -0.013 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion:178 Resp: 11727

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.5 | 15.0 | 22.6 |
| 179 | 15.0 | 12.6 | 18.8 |

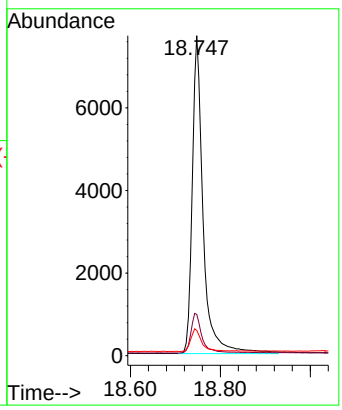





#27
Fluoranthene-d10
Concen: 0.338 ng
RT: 18.747 min Scan# 1
Delta R.T. -0.014 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion:212 Resp: 1294

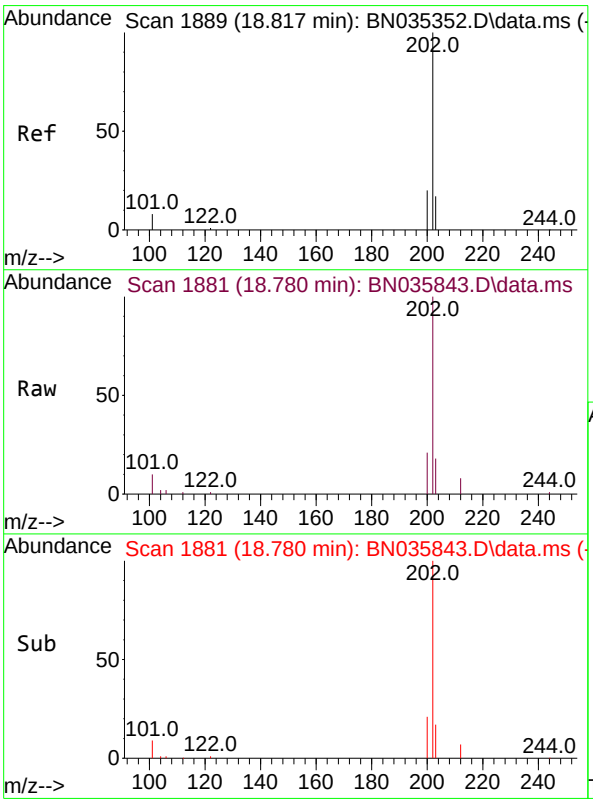
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 12.6 | 9.2 | 13.8 |
| 104 | 7.2 | 5.3 | 7.9 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations**
**APPROVED**

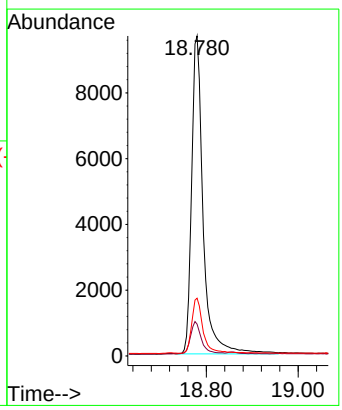
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024

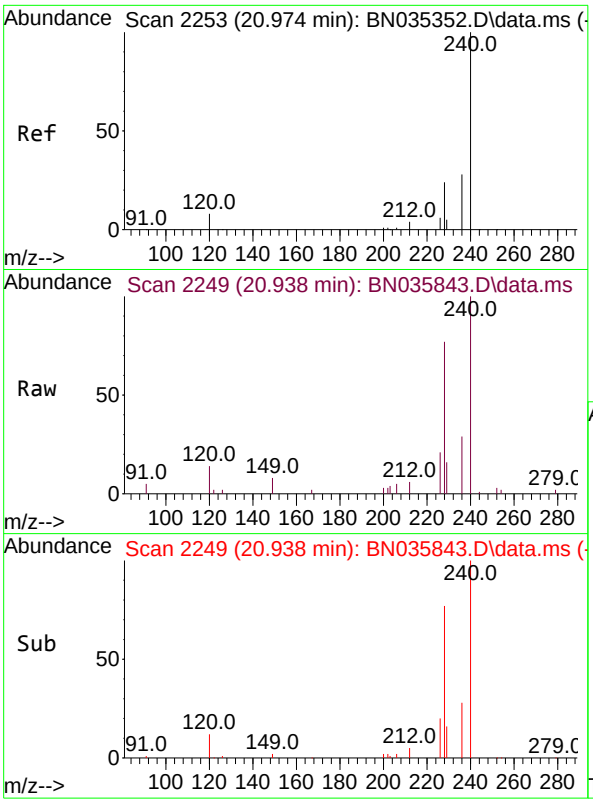



#28
Fluoranthene
Concen: 0.337 ng
RT: 18.780 min Scan# 1881
Delta R.T. -0.009 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion:202 Resp: 16856

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 9.9 | 7.4 | 11.0 |
| 203 | 16.7 | 13.7 | 20.5 |

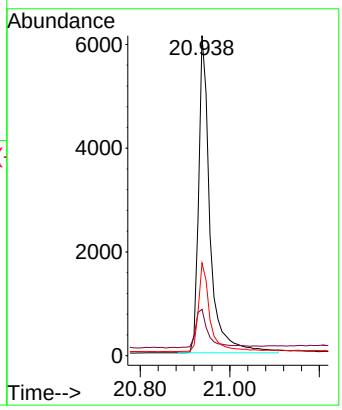





#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.938 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion:240 Resp: 1082

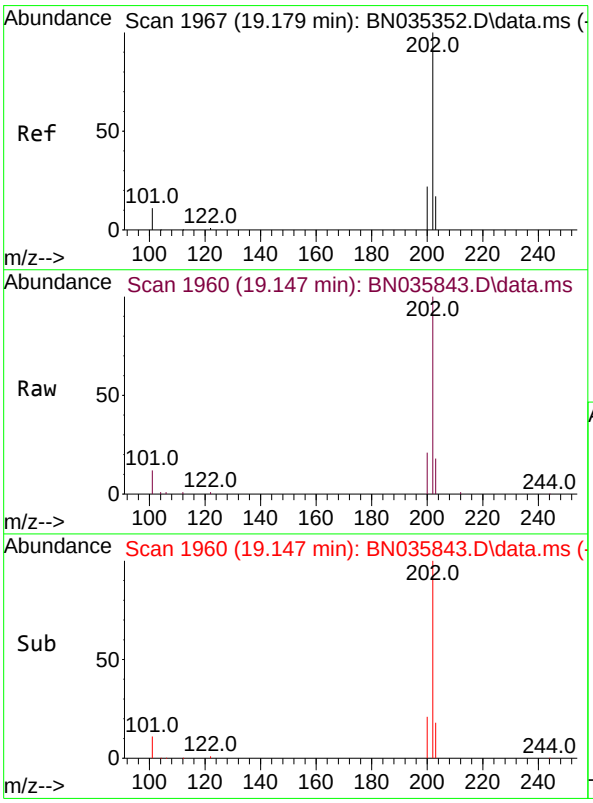
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 14.5 | 7.9 | 11.9 |
| 236 | 29.0 | 22.9 | 34.3 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations APPROVED**

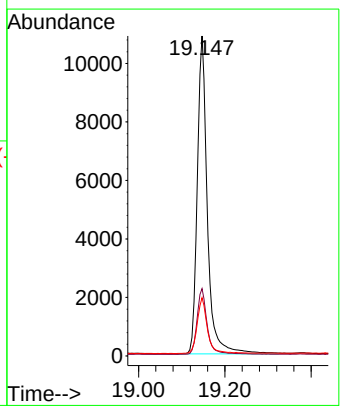
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024

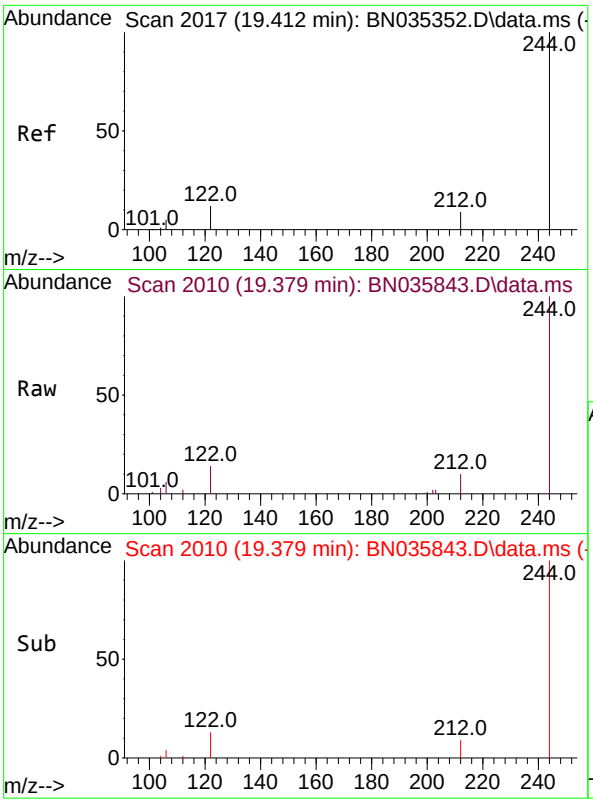



#30
Pyrene
Concen: 0.441 ng
RT: 19.147 min Scan# 1960
Delta R.T. -0.014 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion:202 Resp: 17619

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 20.8 | 17.0 | 25.4 |
| 203 | 17.8 | 14.3 | 21.5 |

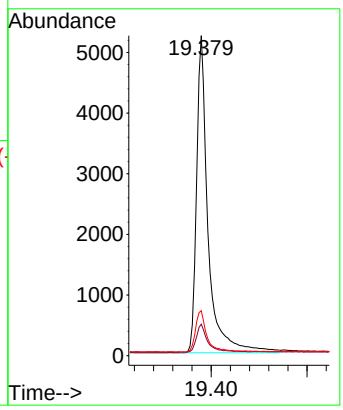





#31
Terphenyl-d14
Concen: 0.411 ng
RT: 19.379 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion:244 Resp: 877

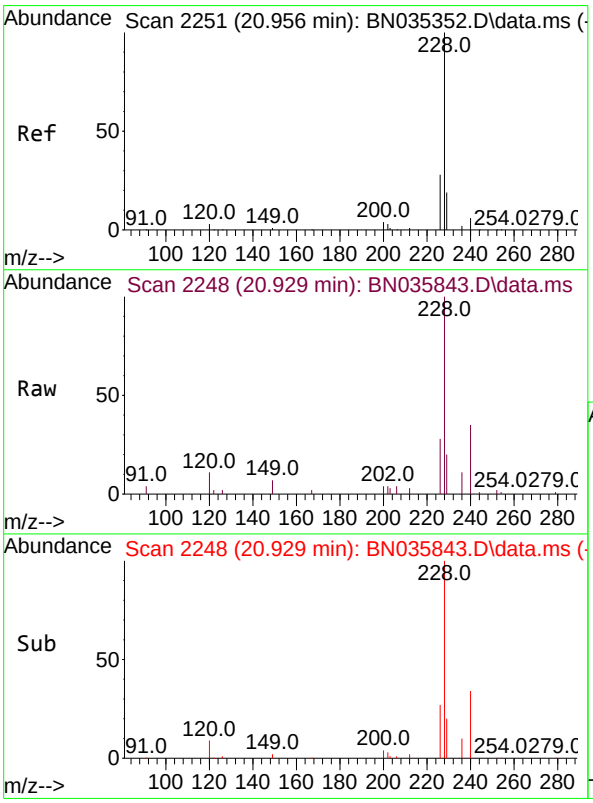
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 9.8 | 8.1 | 12.1 |
| 122 | 14.1 | 10.3 | 15.5 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations APPROVED**

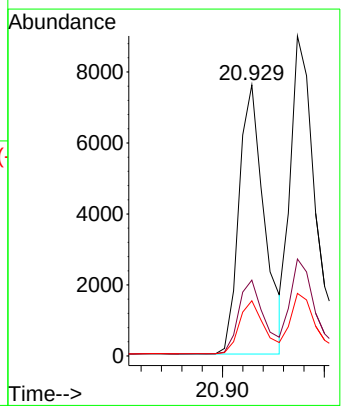
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024

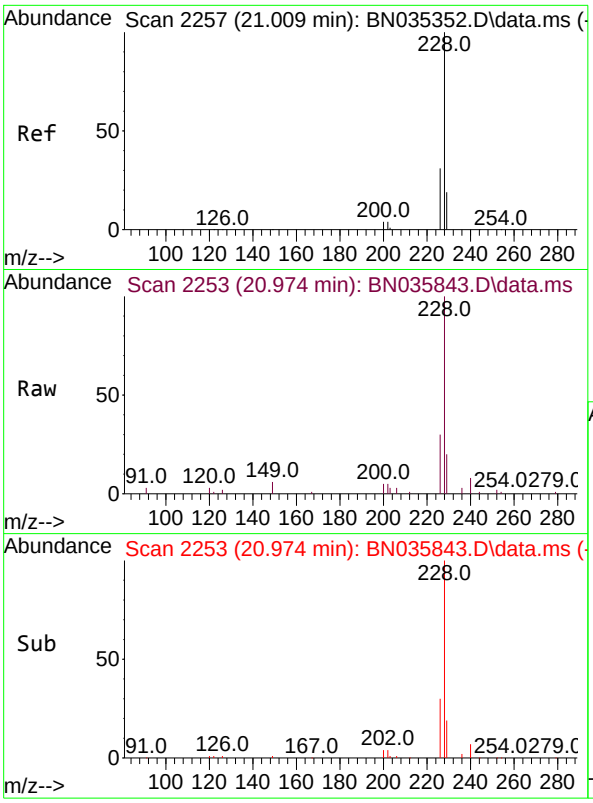



#32
Benzo(a)anthracene
Concen: 0.346 ng
RT: 20.929 min Scan# 2248
Delta R.T. -0.009 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion:228 Resp: 13110

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 28.0 | 22.5 | 33.7 |
| 229 | 20.3 | 15.8 | 23.8 |

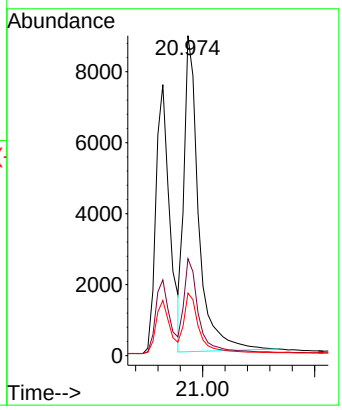





#33
Chrysene
Concen: 0.416 ng
RT: 20.974 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion:228 Resp: 1623

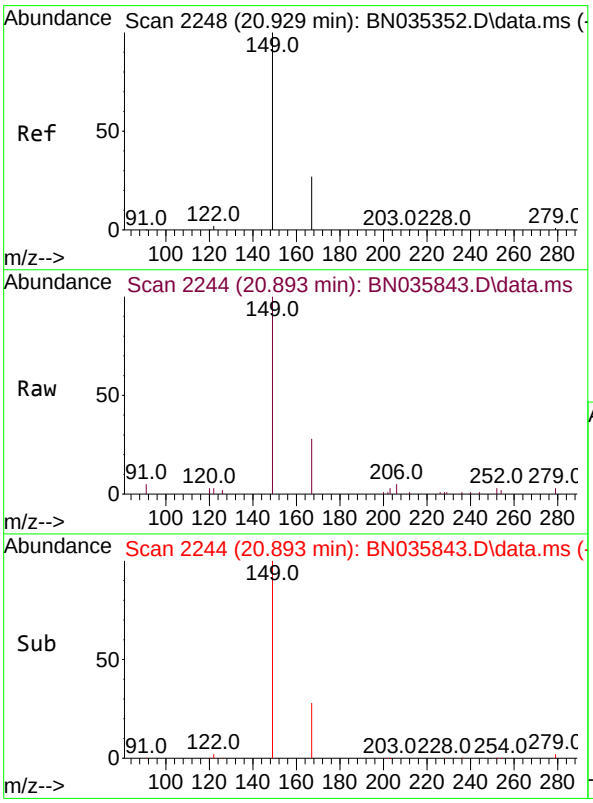
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 30.3 | 24.6 | 37.0 |
| 229 | 19.5 | 15.9 | 23.9 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations**
**APPROVED**

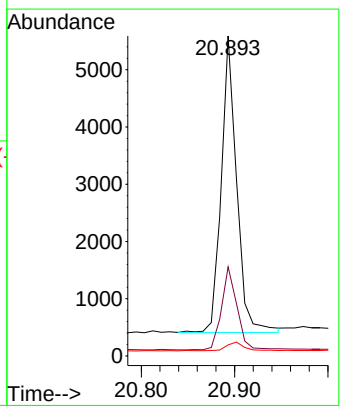
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024

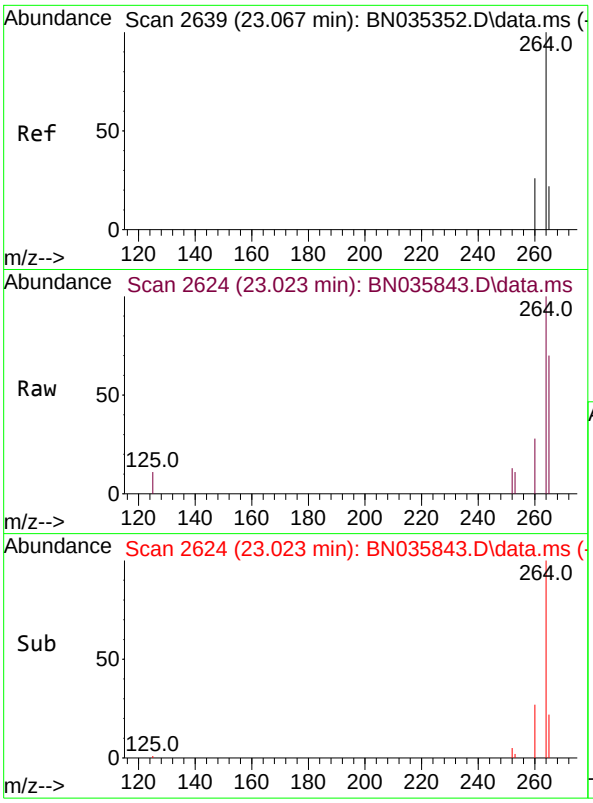



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.397 ng
RT: 20.893 min Scan# 2244
Delta R.T. -0.018 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion:149 Resp: 5933

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 28.1 | 22.2 | 33.4 |
| 279 | 3.5 | 2.7 | 4.1 |

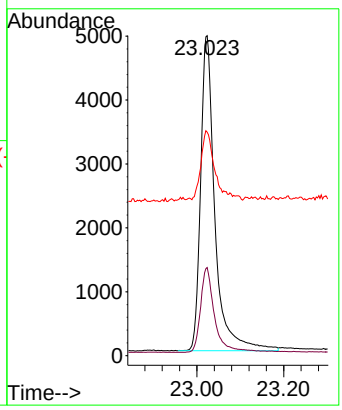





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.023 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion:264 Resp: 1127

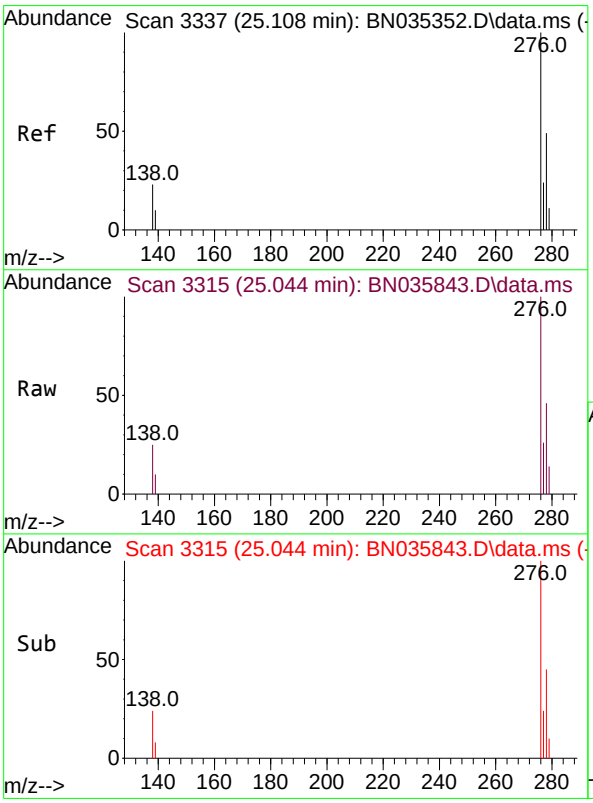
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 27.5 | 21.4 | 32.2 |
| 265 | 69.9 | 40.2 | 60.4 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations**
**APPROVED**

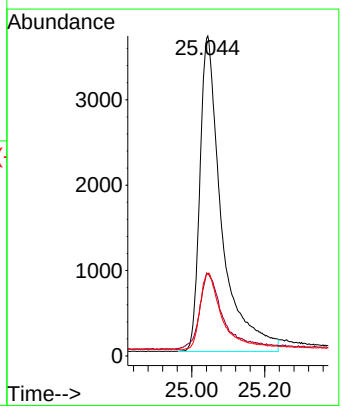
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024

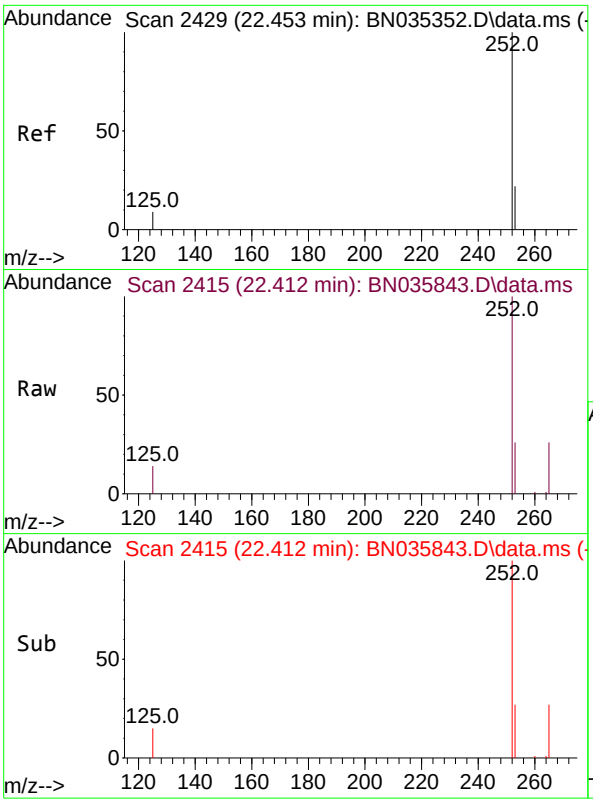



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.348 ng
RT: 25.044 min Scan# 3315
Delta R.T. -0.024 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion:276 Resp: 15331

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 24.4 | 19.4 | 29.0 |
| 277 | 24.2 | 19.8 | 29.6 |

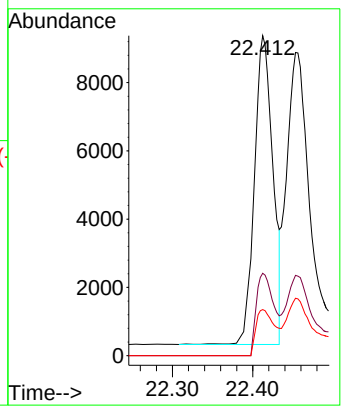





#37
Benzo(b)fluoranthene
Concen: 0.621 ng
RT: 22.412 min Scan# 24
Delta R.T. -0.018 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion:252 Resp: 2561

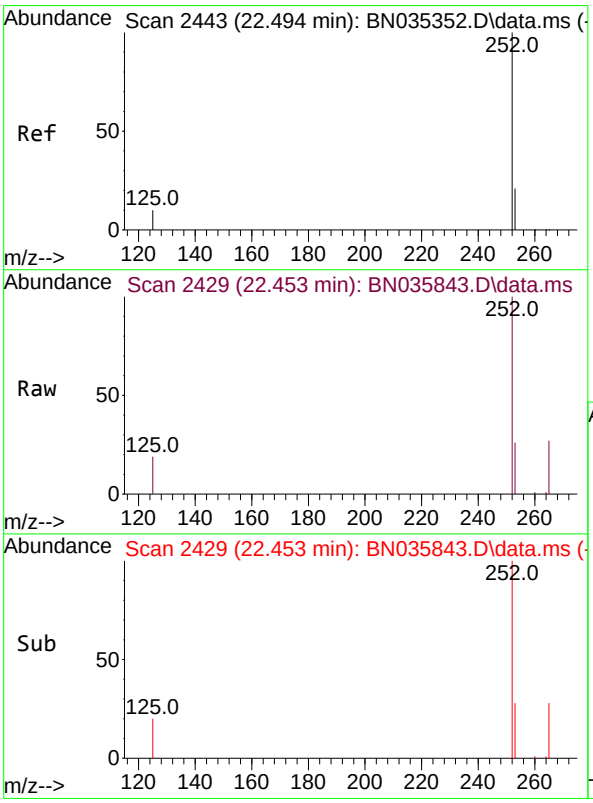
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 25.7 | 19.6 | 29.4 |
| 125 | 14.4 | 9.6 | 14.4# |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations APPROVED**

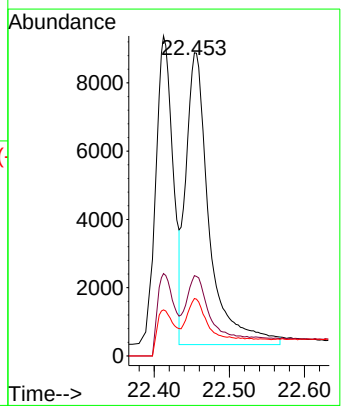
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024

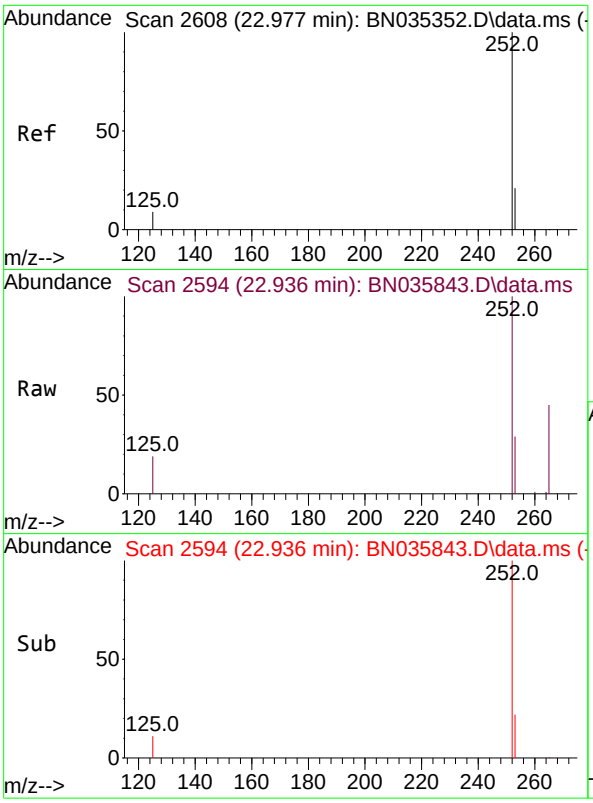



#38
Benzo(k)fluoranthene
Concen: 0.458 ng m
RT: 22.453 min Scan# 2429
Delta R.T. -0.018 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion:252 Resp: 18591

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 26.5 | 19.5 | 29.3 |
| 125 | 18.9 | 10.2 | 15.4# |

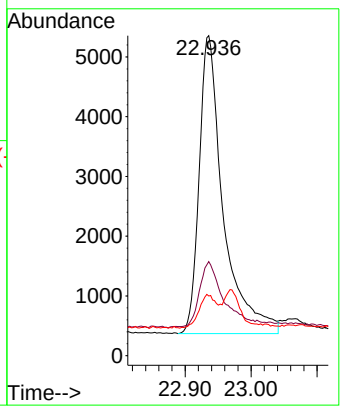





#39
Benzo(a)pyrene
Concen: 0.373 ng
RT: 22.936 min Scan# 2
Delta R.T. -0.015 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion:252 Resp: 1266

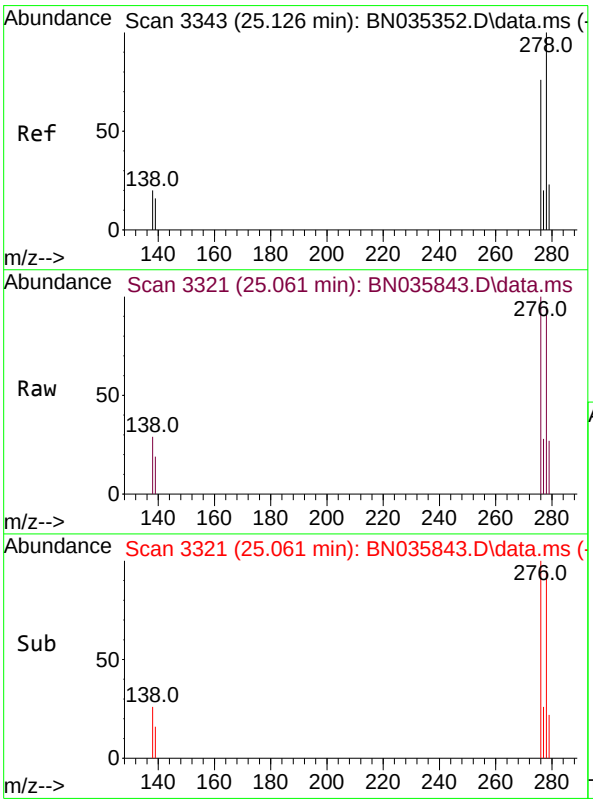
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 29.4 | 20.2 | 30.4 |
| 125 | 18.6 | 10.9 | 16.3 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations APPROVED**

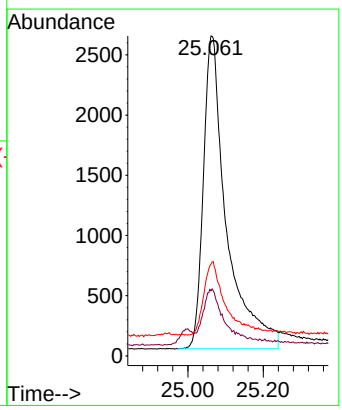
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024

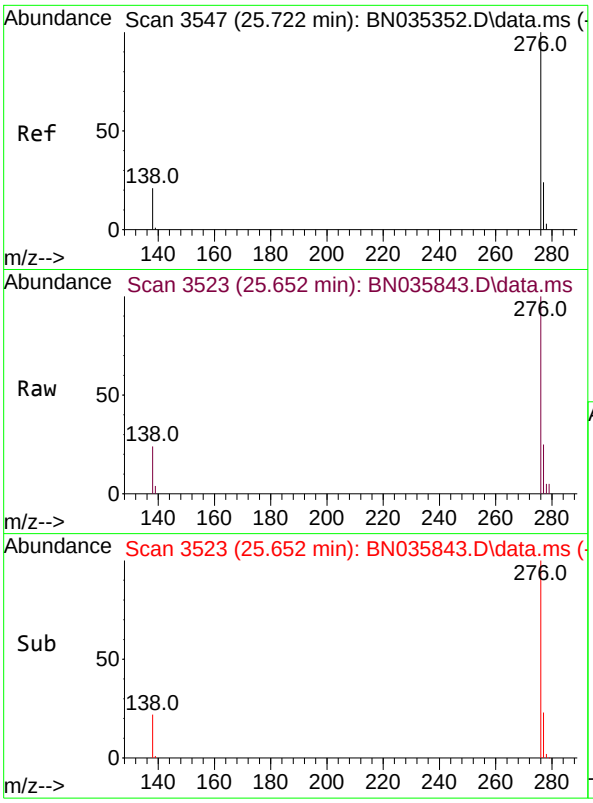



#40
Dibenzo(a,h)anthracene
Concen: 0.320 ng
RT: 25.061 min Scan# 3321
Delta R.T. -0.021 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion:278 Resp: 11116

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 20.4 | 14.2 | 21.4 |
| 279 | 28.7 | 20.5 | 30.7 |

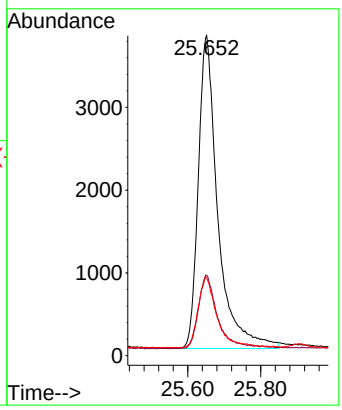





#41
Benzo(g,h,i)perylene
Concen: 0.387 ng
RT: 25.652 min Scan# 3
Delta R.T. -0.027 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion:276 Resp: 1407

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 25.1 | 19.9 | 29.9 |
| 138 | 24.3 | 17.8 | 26.8 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035843.D
Acq On : 25 Dec 2024 05:14
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 32 Sample Multiplier: 1

**Instrument :**
BNA_N
**LabSampleId :**
SSTDCCC0.4

Quant Time: Dec 25 07:05:57 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 252# | -0.01 |
| 2 | | 1,4-Dioxane | 0.382 | 0.510 | -33.5# | 341# | 0.00 |
| 3 | | n-Nitrosodimethylamine | 0.319 | 0.305 | 4.4 | 236# | 0.00 |
| 4 | S | 2-Fluorophenol | 1.001 | 0.947 | 5.4 | 234# | -0.01 |
| 5 | S | Phenol-d6 | 1.204 | 1.574 | -30.7# | 332# | -0.02 |
| 6 | | bis(2-Chloroethyl)ether | 1.012 | 1.223 | -20.8 | 310# | -0.02 |
| 7 | I | Naphthalene-d8 | 1.000 | 1.000 | 0.0 | 250# | -0.02 |
| 8 | S | Nitrobenzene-d5 | 0.244 | 0.351 | -43.9# | 373# | -0.01 |
| 9 | | Naphthalene | 1.055 | 1.347 | -27.7# | 322# | -0.01 |
| 10 | | Hexachlorobutadiene | 0.243 | 0.340 | -39.9# | 344# | -0.02 |
| 11 | SURR | 2-Methylnaphthalene-d10 | 0.626 | 0.525 | 16.1 | 212# | -0.02 |
| 12 | | 2-Methylnaphthalene | 0.755 | 0.665 | 11.9 | 225# | -0.02 |
| 13 | I | Acenaphthene-d10 | 1.000 | 1.000 | 0.0 | 179# | -0.02 |
| 14 | S | 2,4,6-Tribromophenol | 0.284 | 0.234 | 17.6 | 163# | -0.01 |
| 15 | S | 2-Fluorobiphenyl | 1.512 | 1.591 | -5.2 | 189# | -0.02 |
| 16 | | Acenaphthylene | 1.680 | 1.553 | 7.6 | 174# | -0.02 |
| 17 | | Acenaphthene | 1.115 | 1.070 | 4.0 | 176# | -0.02 |
| 18 | | Fluorene | 1.596 | 1.366 | 14.4 | 158# | -0.02 |
| 19 | I | Phenanthrene-d10 | 1.000 | 1.000 | 0.0 | 142 | -0.01 |
| 20 | | 4,6-Dinitro-2-methylphenol | 0.039 | 0.034 | 12.8 | 137 | -0.01 |
| 21 | | 4-Bromophenyl-phenylether | 0.234 | 0.219 | 6.4 | 138 | -0.01 |
| 22 | | Hexachlorobenzene | 0.275 | 0.322 | -17.1 | 168# | -0.03 |
| 23 | | Atrazine | 0.167 | 0.151 | 9.6 | 139 | 0.00 |
| 24 | | Pentachlorophenol | 0.120 | 0.106 | 11.7 | 158# | -0.01 |
| 25 | | Phenanthrene | 1.099 | 1.056 | 3.9 | 141 | -0.01 |
| 26 | | Anthracene | 0.994 | 0.869 | 12.6 | 131 | -0.01 |
| 27 | SURR | Fluoranthene-d10 | 1.134 | 0.959 | 15.4 | 127 | -0.01 |
| 28 | | Fluoranthene | 1.481 | 1.249 | 15.7 | 125 | 0.00 |
| 29 | I | Chrysene-d12 | 1.000 | 1.000 | 0.0 | 114 | -0.02 |
| 30 | | Pyrene | 1.477 | 1.627 | -10.2 | 125 | -0.01 |
| 31 | S | Terphenyl-d14 | 0.789 | 0.810 | -2.7 | 116 | 0.00 |
| 32 | | Benzo(a)anthracene | 1.399 | 1.211 | 13.4 | 102 | 0.00 |
| 33 | | Chrysene | 1.443 | 1.500 | -4.0 | 118 | -0.02 |
| 34 | | Bis(2-ethylhexyl)phthalate | 0.553 | 0.548 | 0.9 | 121 | -0.02 |
| 35 | I | Perylene-d12 | 1.000 | 1.000 | 0.0 | 104 | -0.02 |
| 36 | | Indeno(1,2,3-cd)pyrene | 1.564 | 1.360 | 13.0 | 92 | -0.02 |
| 37 | | Benzo(b)fluoranthene | 1.463 | 2.273 | -55.4# | 180# | -0.02 |
| 38 | | Benzo(k)fluoranthene | 1.440 | 1.649 | -14.5 | 122 | -0.02 |
| 39 | C | Benzo(a)pyrene | 1.205 | 1.124 | 6.7 | 102 | -0.01 |
| 40 | | Dibenzo(a,h)anthracene | 1.234 | 0.986 | 20.1 | 86 | -0.02 |
| 41 | | Benzo(g,h,i)perylene | 1.289 | 1.248 | 3.2 | 104 | -0.03 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035843.D
Acq On : 25 Dec 2024 05:14
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 32 Sample Multiplier: 1

**Instrument :**
BNA_N
**LabSampleId :**
SSTDCCC0.4

Quant Time: Dec 25 07:05:57 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | 1,4-Dichlorobenzene-d4 | 0.400 | 0.400 | 0.0 | 252 | -0.01 |
| 2 | | 1,4-Dioxane | 0.400 | 0.533 | -33.3# | 341 | 0.00 |
| 3 | | n-Nitrosodimethylamine | 0.400 | 0.384 | 4.0 | 236 | 0.00 |
| 4 | S | 2-Fluorophenol | 0.400 | 0.378 | 5.5 | 234 | -0.01 |
| 5 | S | Phenol-d6 | 0.400 | 0.523 | -30.8# | 332 | -0.02 |
| 6 | | bis(2-Chloroethyl)ether | 0.400 | 0.483 | -20.7 | 310 | -0.02 |
| 7 | I | Naphthalene-d8 | 0.400 | 0.400 | 0.0 | 250 | -0.02 |
| 8 | S | Nitrobenzene-d5 | 0.400 | 0.574 | -43.5# | 373 | -0.01 |
| 9 | | Naphthalene | 0.400 | 0.511 | -27.7# | 322 | -0.01 |
| 10 | | Hexachlorobutadiene | 0.400 | 0.559 | -39.8# | 344 | -0.02 |
| 11 | SURR | 2-Methylnaphthalene-d10 | 0.400 | 0.335 | 16.3 | 212 | -0.02 |
| 12 | | 2-Methylnaphthalene | 0.400 | 0.352 | 12.0 | 225 | -0.02 |
| 13 | I | Acenaphthene-d10 | 0.400 | 0.400 | 0.0 | 179 | -0.02 |
| 14 | S | 2,4,6-Tribromophenol | 0.400 | 0.329 | 17.8 | 163 | -0.01 |
| 15 | S | 2-Fluorobiphenyl | 0.400 | 0.421 | -5.2 | 189 | -0.02 |
| 16 | | Acenaphthylene | 0.400 | 0.370 | 7.5 | 174 | -0.02 |
| 17 | | Acenaphthene | 0.400 | 0.384 | 4.0 | 176 | -0.02 |
| 18 | | Fluorene | 0.400 | 0.342 | 14.5 | 158 | -0.02 |
| 19 | I | Phenanthrene-d10 | 0.400 | 0.400 | 0.0 | 142 | -0.01 |
| 20 | | 4,6-Dinitro-2-methylphenol | 0.400 | 0.347 | 13.3 | 137 | -0.01 |
| 21 | | 4-Bromophenyl-phenylether | 0.400 | 0.375 | 6.3 | 138 | -0.01 |
| 22 | | Hexachlorobenzene | 0.400 | 0.469 | -17.2 | 168 | -0.03 |
| 23 | | Atrazine | 0.400 | 0.362 | 9.5 | 139 | 0.00 |
| 24 | | Pentachlorophenol | 0.400 | 0.355 | 11.3 | 158 | -0.01 |
| 25 | | Phenanthrene | 0.400 | 0.384 | 4.0 | 141 | -0.01 |
| 26 | | Anthracene | 0.400 | 0.350 | 12.5 | 131 | -0.01 |
| 27 | SURR | Fluoranthene-d10 | 0.400 | 0.338 | 15.5 | 127 | -0.01 |
| 28 | | Fluoranthene | 0.400 | 0.337 | 15.8 | 125 | 0.00 |
| 29 | I | Chrysene-d12 | 0.400 | 0.400 | 0.0 | 114 | -0.02 |
| 30 | | Pyrene | 0.400 | 0.441 | -10.2 | 125 | -0.01 |
| 31 | S | Terphenyl-d14 | 0.400 | 0.411 | -2.7 | 116 | 0.00 |
| 32 | | Benzo(a)anthracene | 0.400 | 0.346 | 13.5 | 102 | 0.00 |
| 33 | | Chrysene | 0.400 | 0.416 | -4.0 | 118 | -0.02 |
| 34 | | Bis(2-ethylhexyl)phthalate | 0.400 | 0.397 | 0.8 | 121 | -0.02 |
| 35 | I | Perylene-d12 | 0.400 | 0.400 | 0.0 | 104 | -0.02 |
| 36 | | Indeno(1,2,3-cd)pyrene | 0.400 | 0.348 | 13.0 | 92 | -0.02 |
| 37 | | Benzo(b)fluoranthene | 0.400 | 0.621 | -55.2# | 180 | -0.02 |
| 38 | | Benzo(k)fluoranthene | 0.400 | 0.458 | -14.5 | 122 | -0.02 |
| 39 | C | Benzo(a)pyrene | 0.400 | 0.373 | 6.8 | 102 | -0.01 |
| 40 | | Dibenzo(a,h)anthracene | 0.400 | 0.320 | 20.0 | 86 | -0.02 |
| 41 | | Benzo(g,h,i)perylene | 0.400 | 0.387 | 3.3 | 104 | -0.03 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

7C

## SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: P5376 SAS No.: P5376 SDG No.: P5376

Instrument ID: BNA_N Calibration Date/Time: 12/26/2024 09:58

Lab File ID: BN035845.D Init. Calib. Date(s): 11/27/2024 11/27/2024

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 15:34 19:09

GC Column: ZB-GR ID: 0.25 (mm)

| COMPOUND | RRF | RRF0.4 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| 2-Methylnaphthalene-d10 | 0.626 | 0.545 | | -12.9 | 20.0 |
| Fluoranthene-d10 | 1.134 | 0.991 | | -12.6 | 20.0 |
| 2-Fluorophenol | 1.001 | 1.006 | | 0.5 | 20.0 |
| Phenol-d6 | 1.204 | 1.112 | | -7.6 | 20.0 |
| Nitrobenzene-d5 | 0.244 | 0.298 | | 22.1 | 20.0 |
| 2-Fluorobiphenyl | 1.512 | 1.504 | | -0.5 | 20.0 |
| 2,4,6-Tribromophenol | 0.284 | 0.248 | | -12.7 | 20.0 |
| Terphenyl-d14 | 0.789 | 0.784 | | -0.6 | 20.0 |
| 1,4-Dioxane | 0.382 | 0.405 | | 6.0 | 20.0 |

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
Data File : BN035845.D
Acq On : 26 Dec 2024 09:58
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 27 00:40:11 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.257 | 152 | 3755 | 0.400 | ng | | -0.01 |
| 7) Naphthalene-d8 | 9.999 | 136 | 9322 | 0.400 | ng | | #-0.02 |
| 13) Acenaphthene-d10 | 13.914 | 164 | 5387 | 0.400 | ng | | -0.02 |
| 19) Phenanthrene-d10 | 16.686 | 188 | 11262 | 0.400 | ng | | #-0.01 |
| 29) Chrysene-d12 | 20.938 | 240 | 9932 | 0.400 | ng | | #-0.02 |
| 35) Perylene-d12 | 23.021 | 264 | 10817 | 0.400 | ng | | #-0.02 |
| **System Monitoring Compounds** | | | | | | | |
| 4) 2-Fluorophenol | 4.924 | 112 | 3777 | 0.402 | ng | | -0.01 |
| 5) Phenol-d6 | 6.470 | 99 | 4175 | 0.369 | ng | | -0.02 |
| 8) Nitrobenzene-d5 | 8.397 | 82 | 2776m | 0.488 | ng | | -0.01 |
| 11) 2-Methylnaphthalene-d10 | 11.600 | 152 | 5080 | 0.348 | ng | | -0.02 |
| 14) 2,4,6-Tribromophenol | 15.432 | 330 | 1338 | 0.350 | ng | | -0.02 |
| 15) 2-Fluorobiphenyl | 12.523 | 172 | 8104 | 0.398 | ng | | -0.02 |
| 27) Fluoranthene-d10 | 18.743 | 212 | 11161 | 0.350 | ng | | -0.02 |
| 31) Terphenyl-d14 | 19.375 | 244 | 7783 | 0.397 | ng | | -0.01 |
| **Target Compounds** | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 2.982 | 88 | 1520 | 0.423 | ng | | 97 |
| 3) n-Nitrosodimethylamine | 3.270 | 42 | 1223 | 0.409 | ng | # | 82 |
| 6) bis(2-Chloroethyl)ether | 6.708 | 93 | 3599 | 0.379 | ng | | 99 |
| 9) Naphthalene | 10.041 | 128 | 9440 | 0.384 | ng | | 100 |
| 10) Hexachlorobutadiene | 10.340 | 225 | 2352 | 0.415 | ng | # | 99 |
| 12) 2-Methylnaphthalene | 11.676 | 142 | 5939 | 0.337 | ng | | 98 |
| 16) Acenaphthylene | 13.625 | 152 | 8340 | 0.369 | ng | | 100 |
| 17) Acenaphthene | 13.978 | 154 | 5695 | 0.379 | ng | | 99 |
| 18) Fluorene | 14.983 | 166 | 7523 | 0.350 | ng | | 99 |
| 20) 4,6-Dinitro-2-methylph... | 15.100 | 198 | 526 | 0.475 | ng | # | 39 |
| 21) 4-Bromophenyl-phenylether | 15.891 | 248 | 2443 | 0.371 | ng | # | 87 |
| 22) Hexachlorobenzene | 15.991 | 284 | 3482 | 0.450 | ng | | 95 |
| 23) Atrazine | 16.189 | 200 | 1843 | 0.393 | ng | | 97 |
| 24) Pentachlorophenol | 16.363 | 266 | 1383 | 0.411 | ng | | 87 |
| 25) Phenanthrene | 16.723 | 178 | 11602 | 0.375 | ng | | 100 |
| 26) Anthracene | 16.822 | 178 | 10005 | 0.358 | ng | | 100 |
| 28) Fluoranthene | 18.775 | 202 | 14489 | 0.347 | ng | | 98 |
| 30) Pyrene | 19.142 | 202 | 15278 | 0.417 | ng | | 100 |
| 32) Benzo(a)anthracene | 20.920 | 228 | 12798 | 0.368 | ng | | 100 |
| 33) Chrysene | 20.974 | 228 | 14214 | 0.397 | ng | | 100 |
| 34) Bis(2-ethylhexyl)phtha... | 20.893 | 149 | 6282 | 0.458 | ng | | 100 |
| 36) Indeno(1,2,3-cd)pyrene | 25.041 | 276 | 15946 | 0.377 | ng | | 97 |
| 37) Benzo(b)fluoranthene | 22.412 | 252 | 19565 | 0.494 | ng | # | 96 |
| 38) Benzo(k)fluoranthene | 22.453 | 252 | 16469m | 0.423 | ng | | |
| 39) Benzo(a)pyrene | 22.933 | 252 | 12458 | 0.382 | ng | # | 92 |
| 40) Dibenzo(a,h)anthracene | 25.058 | 278 | 12678 | 0.380 | ng | | 96 |
| 41) Benzo(g,h,i)perylene | 25.646 | 276 | 14614 | 0.419 | ng | | 98 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

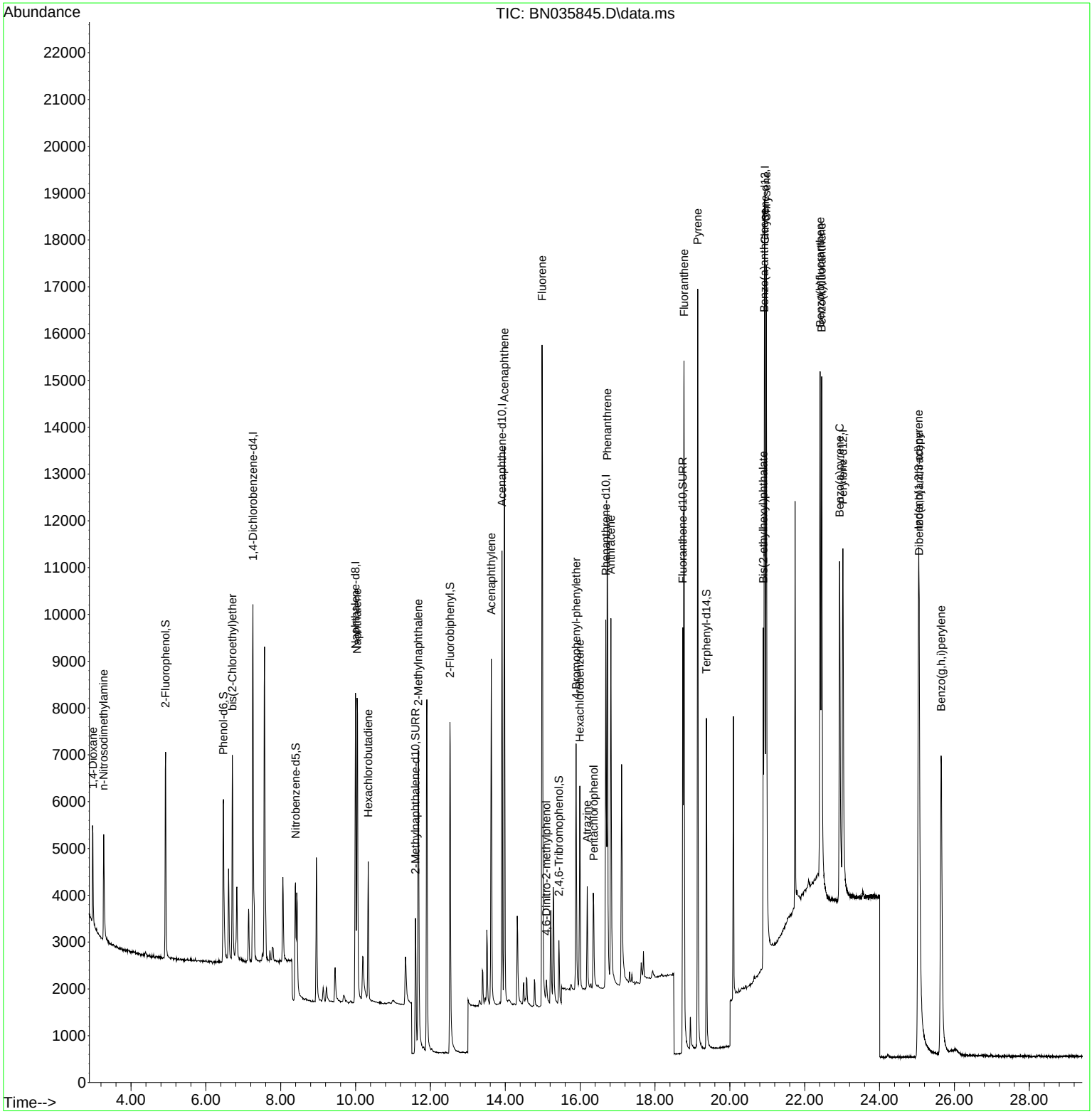
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
Data File : BN035845.D
Acq On : 26 Dec 2024 09:58
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

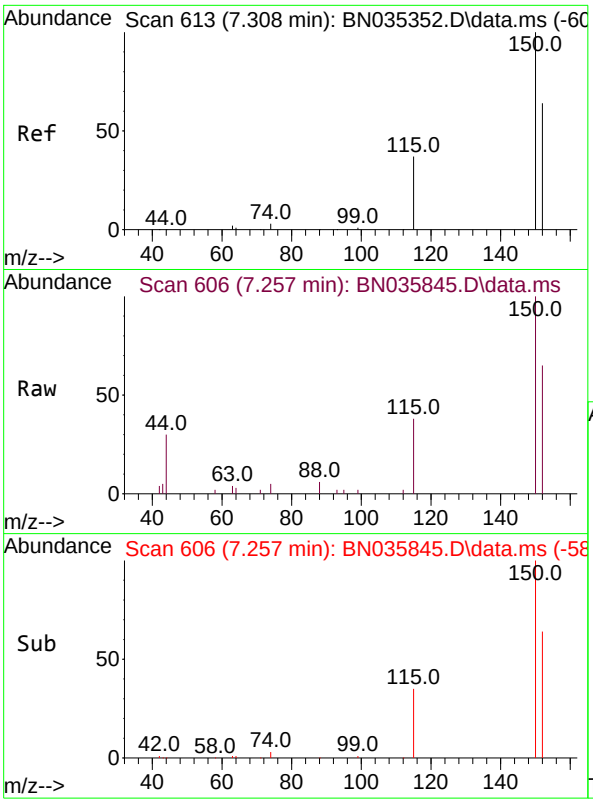
Quant Time: Dec 27 00:40:11 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

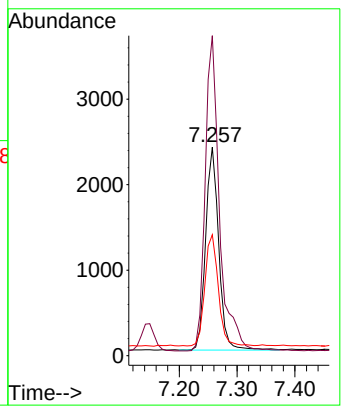





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 6
Delta R.T. -0.015 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:152 Resp: 375

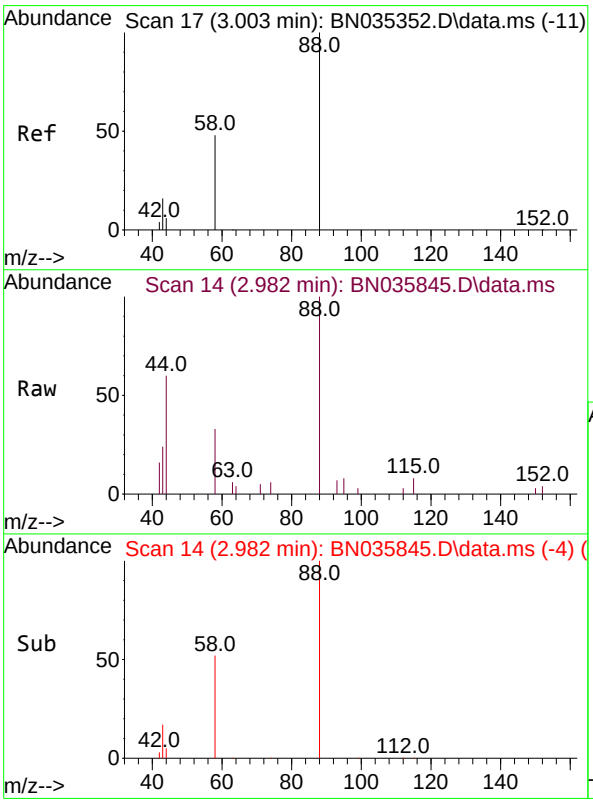
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 153.5 | 124.0 | 186.0 |
| 115 | 58.0 | 49.6 | 74.4 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations**
**APPROVED**

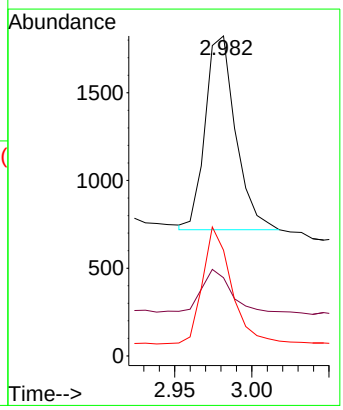
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

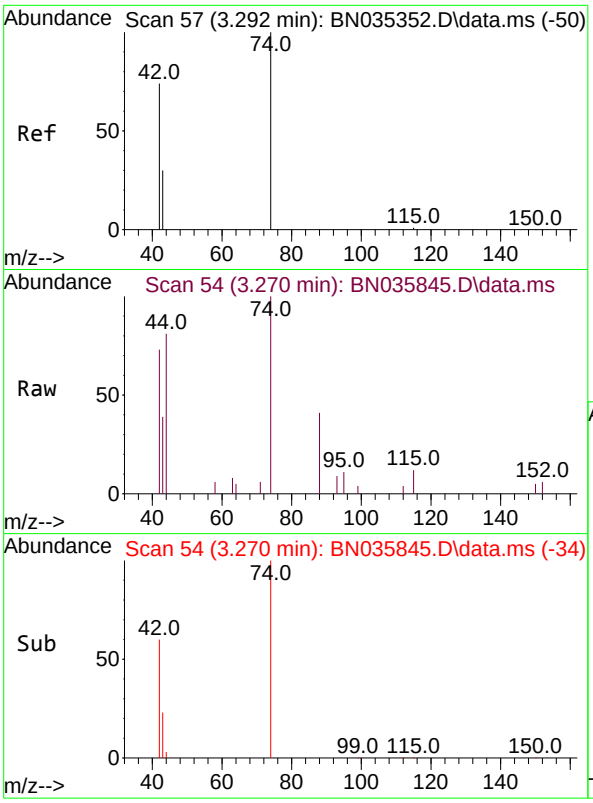



#2
1,4-Dioxane
Concen: 0.423 ng
RT: 2.982 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion: 88 Resp: 1520

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 19.9 | 17.2 | 25.8 |
| 58 | 57.5 | 44.5 | 66.7 |

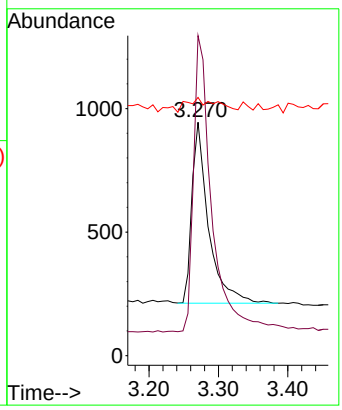





#3
n-Nitrosodimethylamine
Concen: 0.409 ng
RT: 3.270 min Scan# 54
Delta R.T. -0.007 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion: 42 Resp: 122

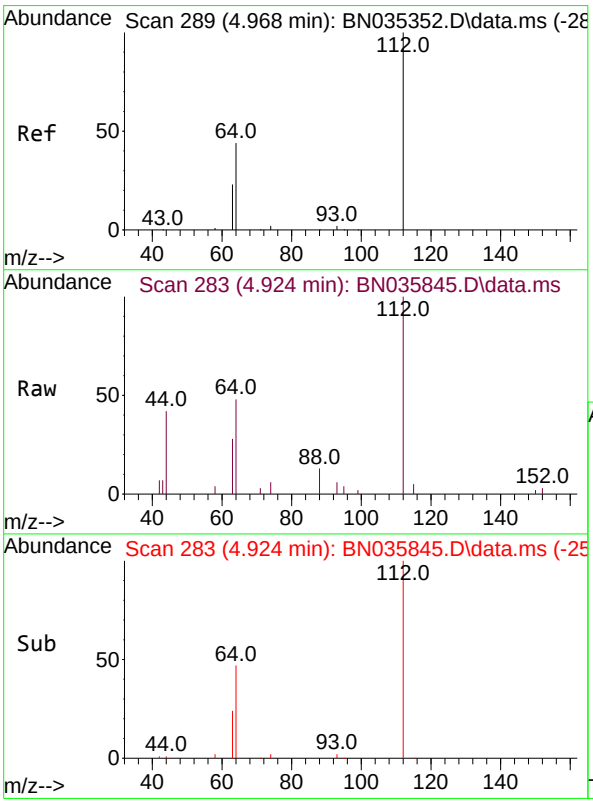
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 179.4 | 124.9 | 187.3 |
| 44 | 16.9 | 2.2 | 3.4 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations**
**APPROVED**

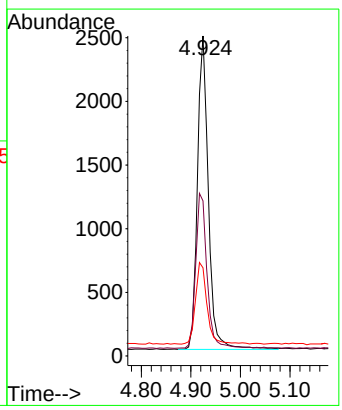
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

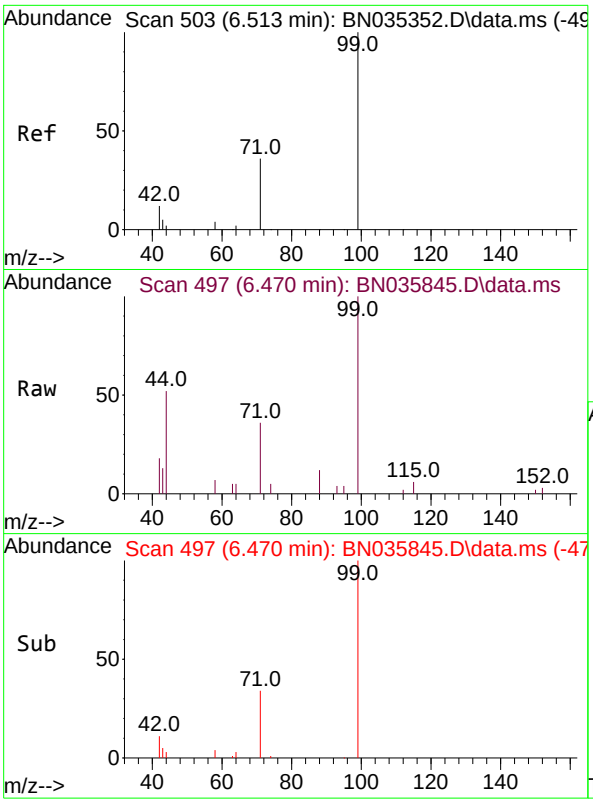



#4
2-Fluorophenol
Concen: 0.402 ng
RT: 4.924 min Scan# 283
Delta R.T. -0.015 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:112 Resp: 3777

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 51.0 | 39.8 | 59.8 |
| 63 | 27.5 | 21.0 | 31.6 |

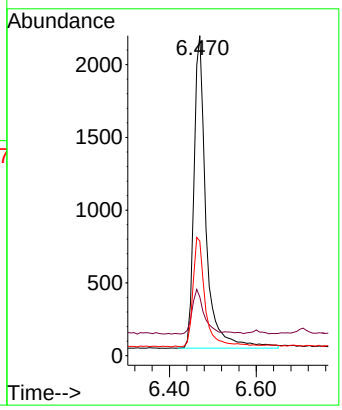





#5
Phenol-d6
Concen: 0.369 ng
RT: 6.470 min Scan# 4
Delta R.T. -0.022 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion: 99 Resp: 417

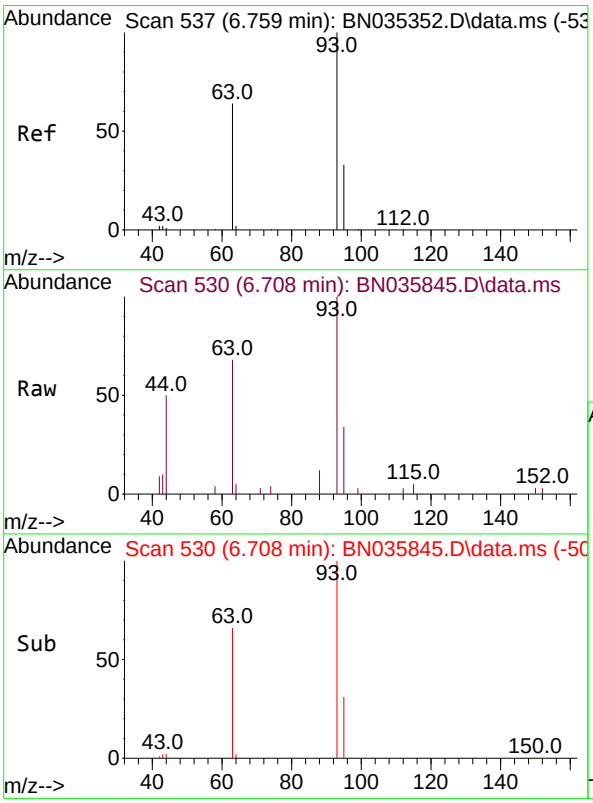
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 14.0 | 11.4 | 17.2 |
| 71 | 35.3 | 29.3 | 43.9 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations**
**APPROVED**

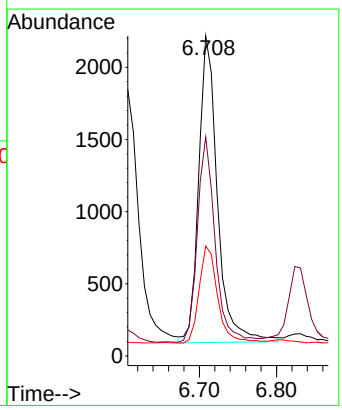
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

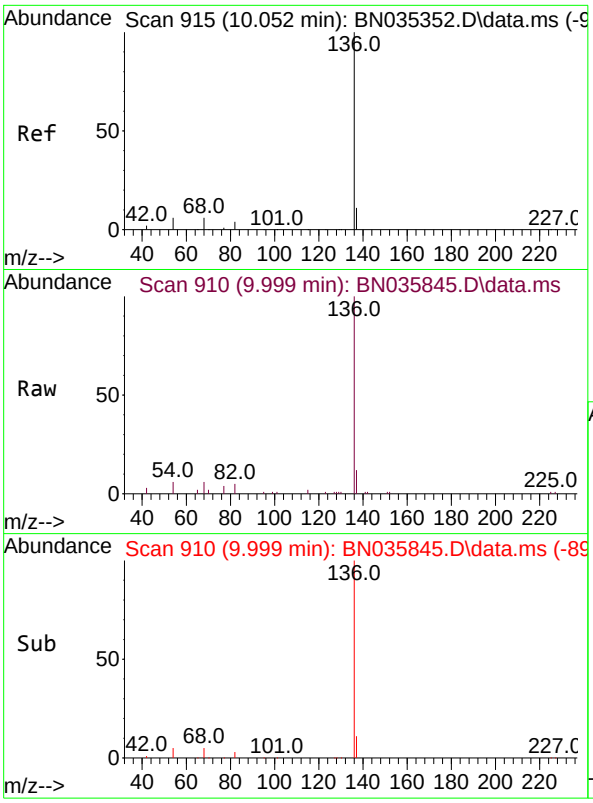



#6
bis(2-Chloroethyl)ether
Concen: 0.379 ng
RT: 6.708 min Scan# 530
Delta R.T. -0.022 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion: 93 Resp: 3599

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 63.3 | 50.4 | 75.6 |
| 95 | 31.3 | 25.7 | 38.5 |

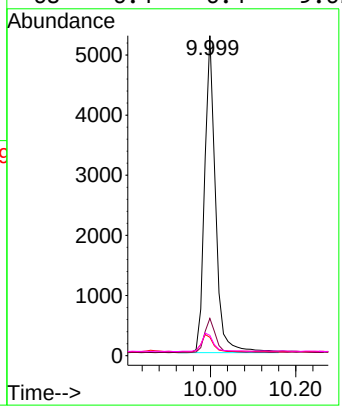





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 9.999 min Scan# 91
Delta R.T. -0.022 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:136 Resp: 932

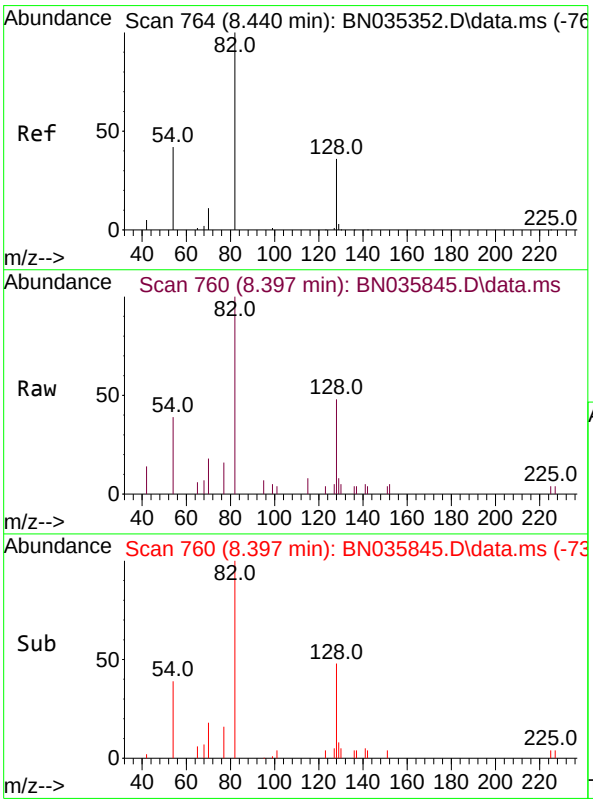
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.6 | 10.2 | 15.2 |
| 54 | 5.8 | 6.1 | 9.1# |
| 68 | 6.4 | 6.4 | 9.6# |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations**
**APPROVED**

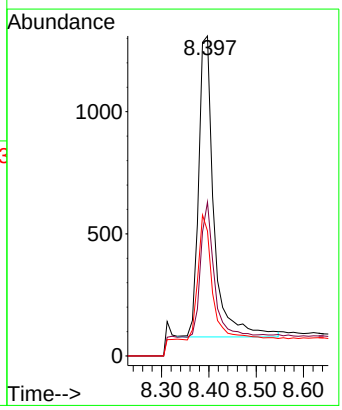
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

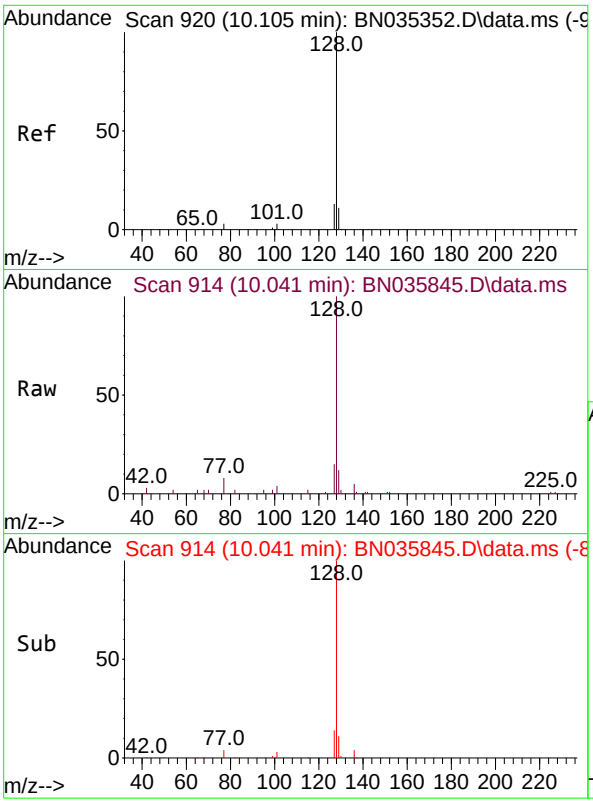



#8
Nitrobenzene-d5
Concen: 0.488 ng m
RT: 8.397 min Scan# 760
Delta R.T. -0.011 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion: 82 Resp: 2776

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 48.1 | 33.4 | 50.0 |
| 54 | 39.1 | 36.7 | 55.1 |

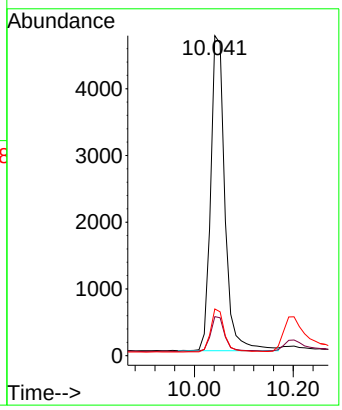





#9
Naphthalene
Concen: 0.384 ng
RT: 10.041 min Scan# 9
Delta R.T. -0.021 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:128 Resp: 944

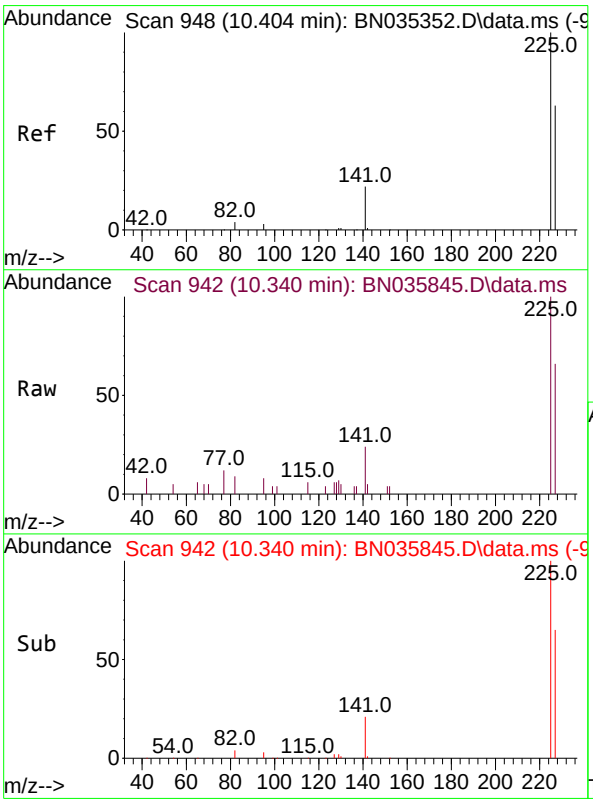
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 12.2 | 9.8 | 14.6 |
| 127 | 14.6 | 11.4 | 17.2 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations**
**APPROVED**

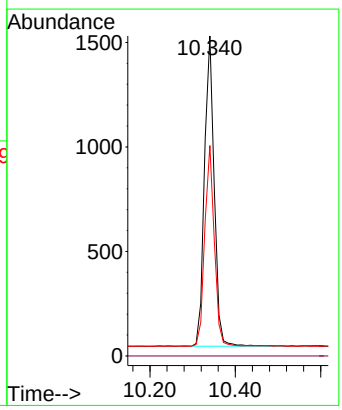
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

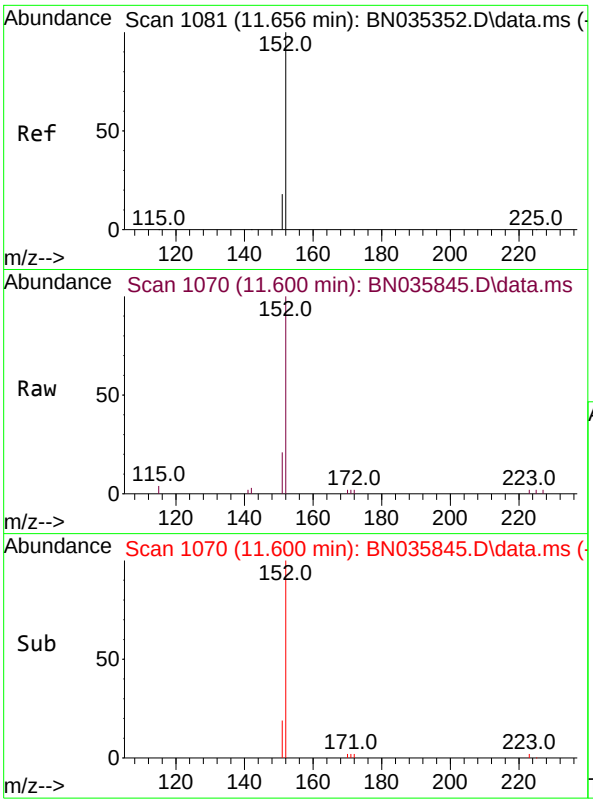



#10
Hexachlorobutadiene
Concen: 0.415 ng
RT: 10.340 min Scan# 942
Delta R.T. -0.021 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:225 Resp: 2352

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 0.0 | 0.0 | 0.0 |
| 227 | 63.7 | 51.3 | 76.9 |

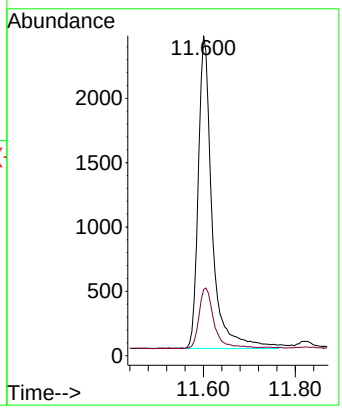





#11
2-Methylnaphthalene-d10
Concen: 0.348 ng
RT: 11.600 min Scan# 1
Delta R.T. -0.020 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:152 Resp: 508

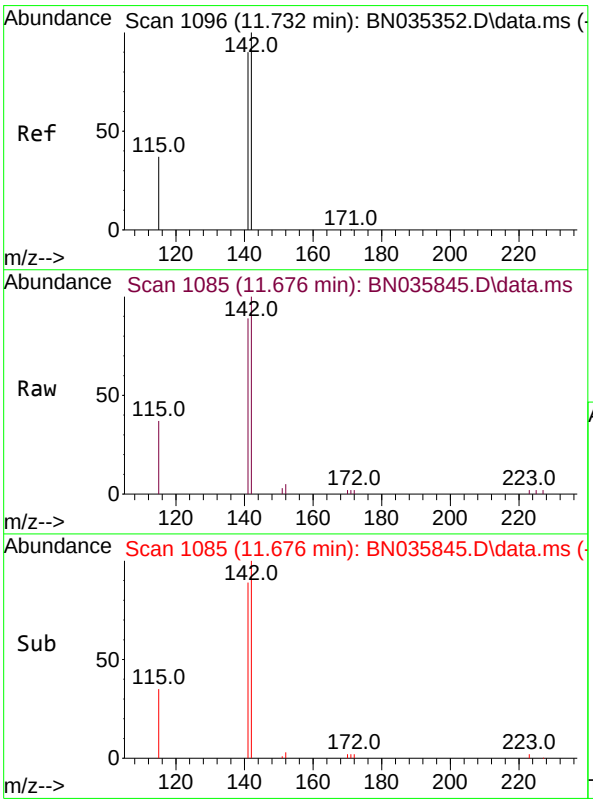
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 21.0 | 16.6 | 25.0 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations**
**APPROVED**

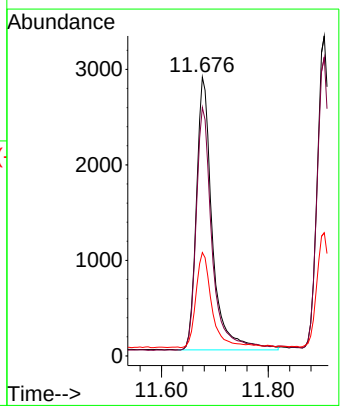
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

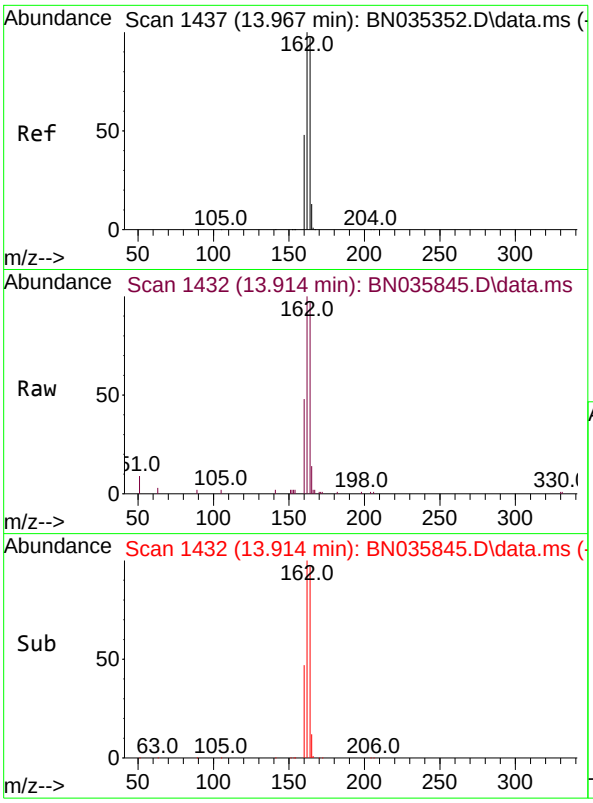



#12
2-Methylnaphthalene
Concen: 0.337 ng
RT: 11.676 min Scan# 1085
Delta R.T. -0.020 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:142 Resp: 5939

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 89.1 | 72.2 | 108.4 |
| 115 | 37.1 | 31.4 | 47.0 |

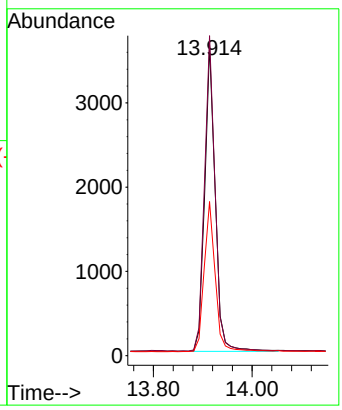





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.914 min Scan# 14
Delta R.T. -0.022 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:164 Resp: 538

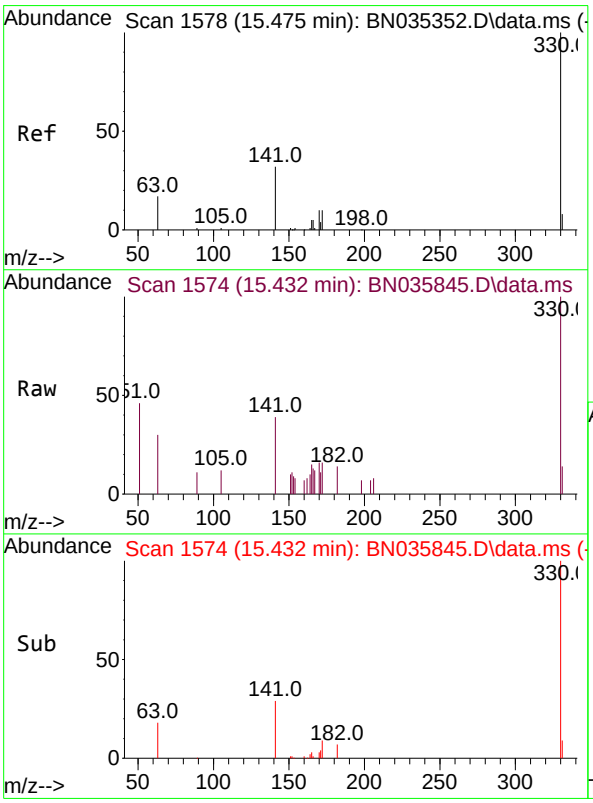
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 103.2 | 82.2 | 123.2 |
| 160 | 49.7 | 40.1 | 60.1 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations**
**APPROVED**

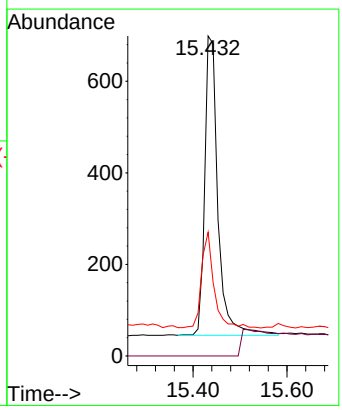
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

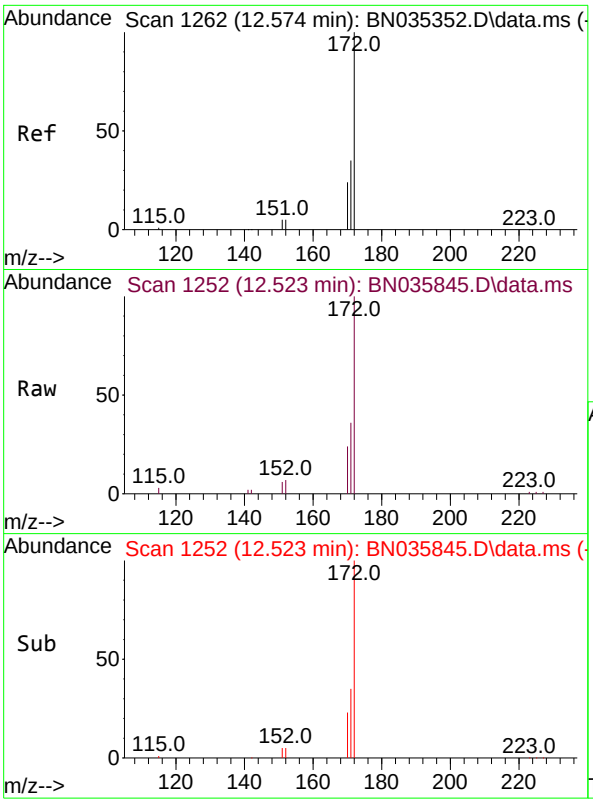



#14
2,4,6-Tribromophenol
Concen: 0.350 ng
RT: 15.432 min Scan# 1574
Delta R.T. -0.022 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:330 Resp: 1338

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 0.0 | 0.0 | 0.0 |
| 141 | 29.7 | 26.6 | 40.0 |

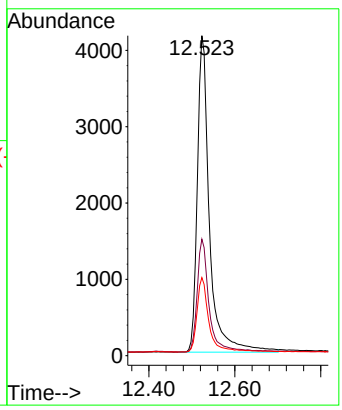





#15
2-Fluorobiphenyl
Concen: 0.398 ng
RT: 12.523 min Scan# 1
Delta R.T. -0.020 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:172 Resp: 810

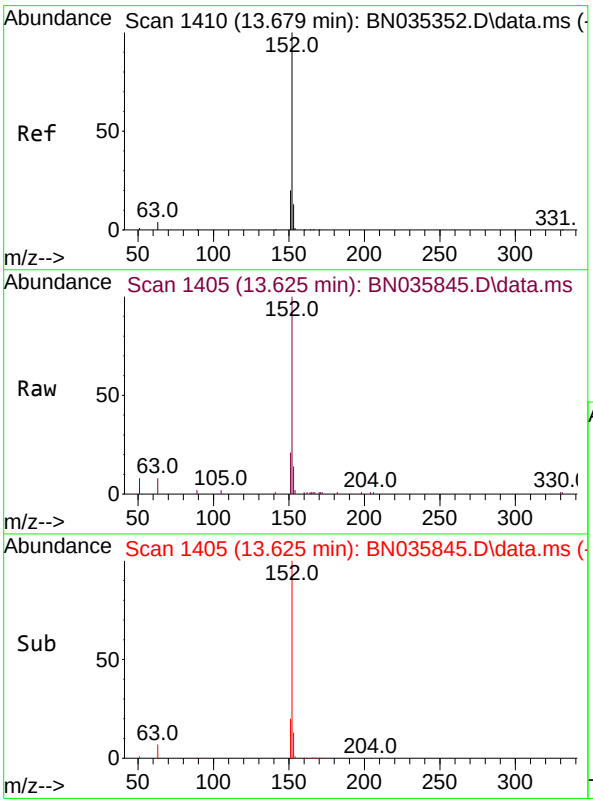
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 36.4 | 29.0 | 43.4 |
| 170 | 24.4 | 19.8 | 29.8 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations APPROVED**

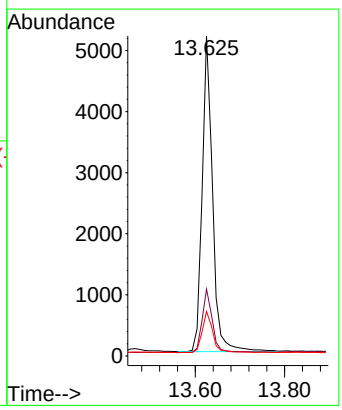
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

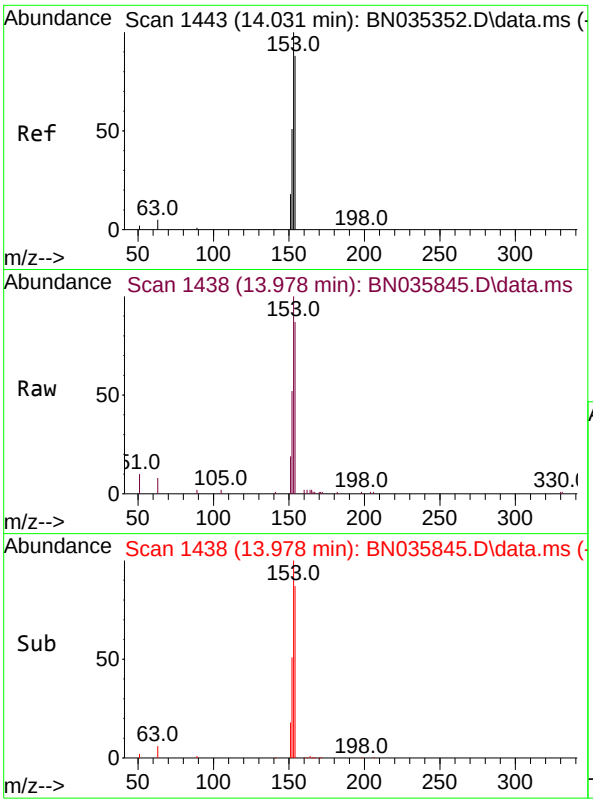



#16
Acenaphthylene
Concen: 0.369 ng
RT: 13.625 min Scan# 1405
Delta R.T. -0.022 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:152 Resp: 8340

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.1 | 16.2 | 24.2 |
| 153 | 13.2 | 10.4 | 15.6 |

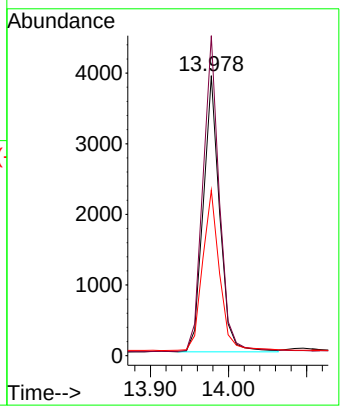





#17
Acenaphthene
Concen: 0.379 ng
RT: 13.978 min Scan# 14
Delta R.T. -0.022 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:154 Resp: 569

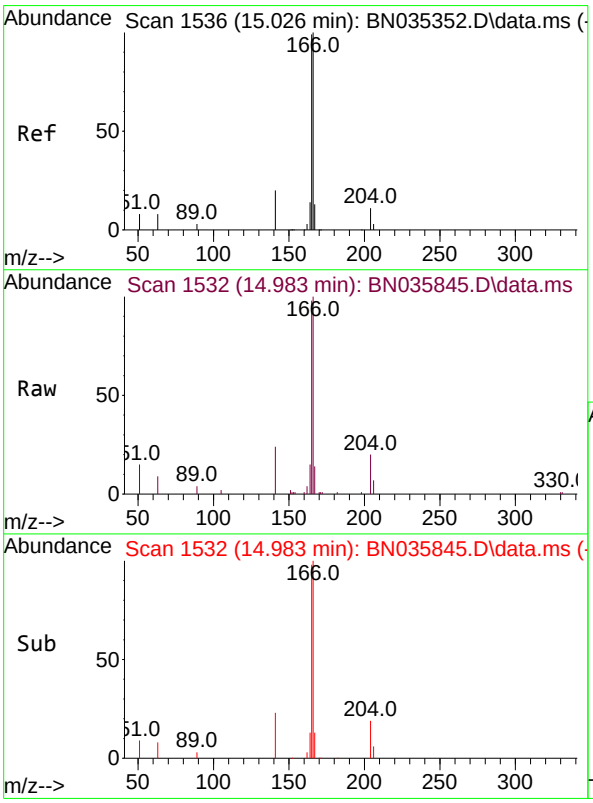
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 116.1 | 92.6 | 139.0 |
| 152 | 60.4 | 49.0 | 73.6 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations**
**APPROVED**

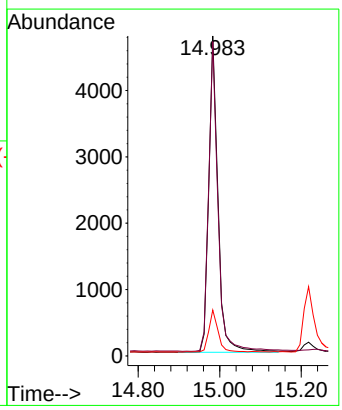
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

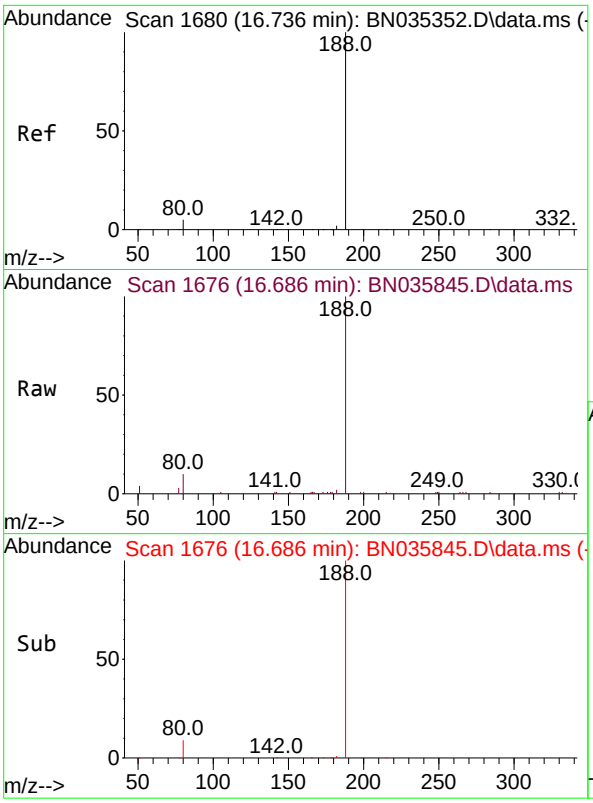



#18
Fluorene
Concen: 0.350 ng
RT: 14.983 min Scan# 1532
Delta R.T. -0.022 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:166 Resp: 7523

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 98.0 | 79.7 | 119.5 |
| 167 | 13.4 | 10.8 | 16.2 |

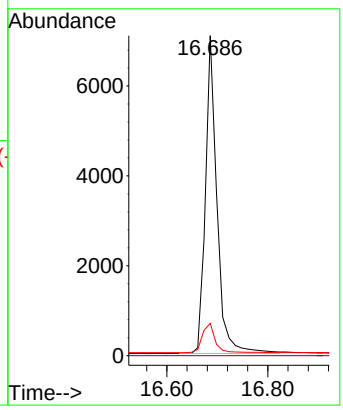





#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.686 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:188 Resp: 1126

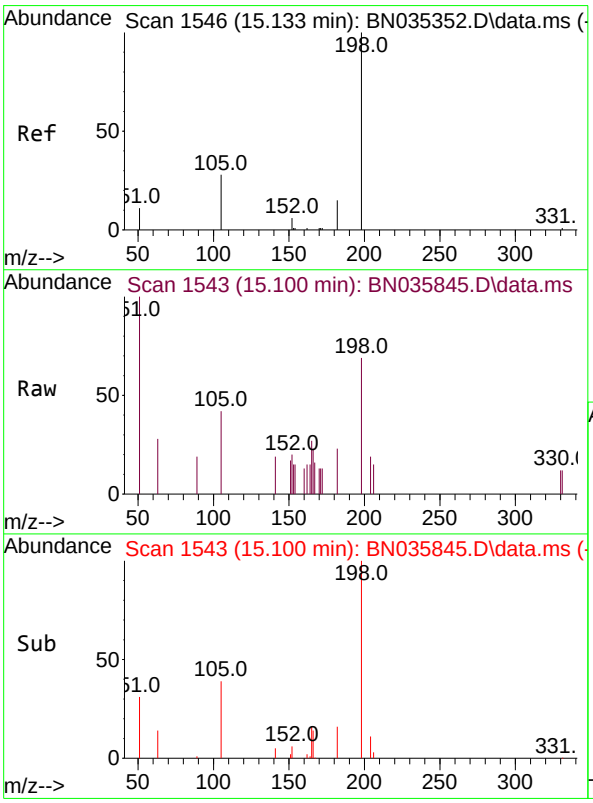
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 10.1 | 4.6 | 6.8# |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations**
**APPROVED**

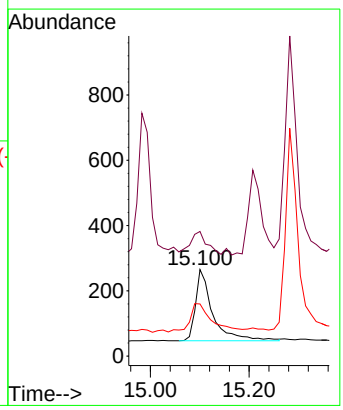
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

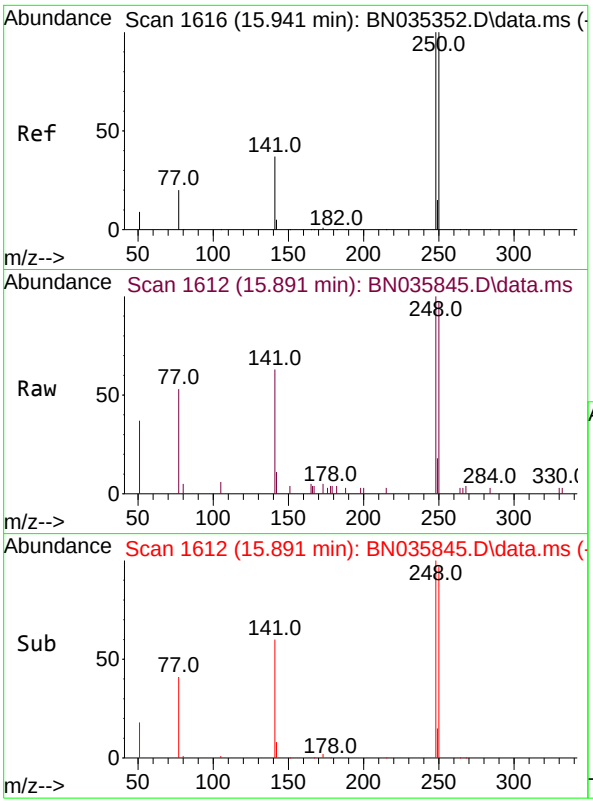



#20
4,6-Dinitro-2-methylphenol
Concen: 0.475 ng
RT: 15.100 min Scan# 1543
Delta R.T. -0.022 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:198 Resp: 526

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 198 | 100 | | |
| 51 | 144.2 | 46.5 | 69.7# |
| 105 | 60.4 | 45.3 | 67.9 |

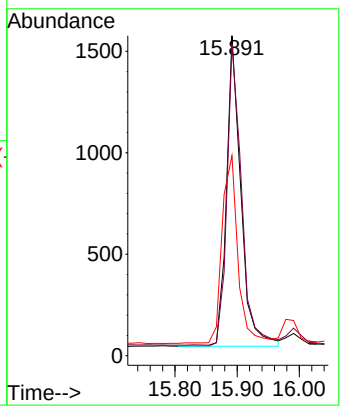





#21
4-Bromophenyl-phenylether
Concen: 0.371 ng
RT: 15.891 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:248 Resp: 244

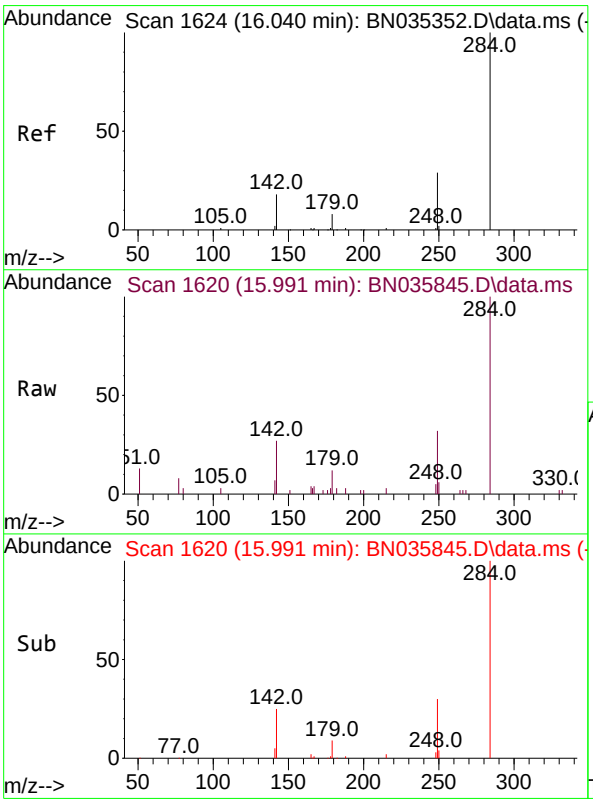
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 97.3 | 80.6 | 120.8 |
| 141 | 62.5 | 31.5 | 47.3# |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations**
**APPROVED**

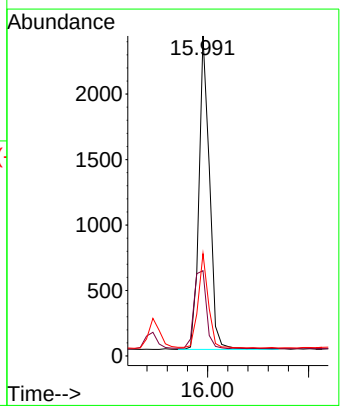
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

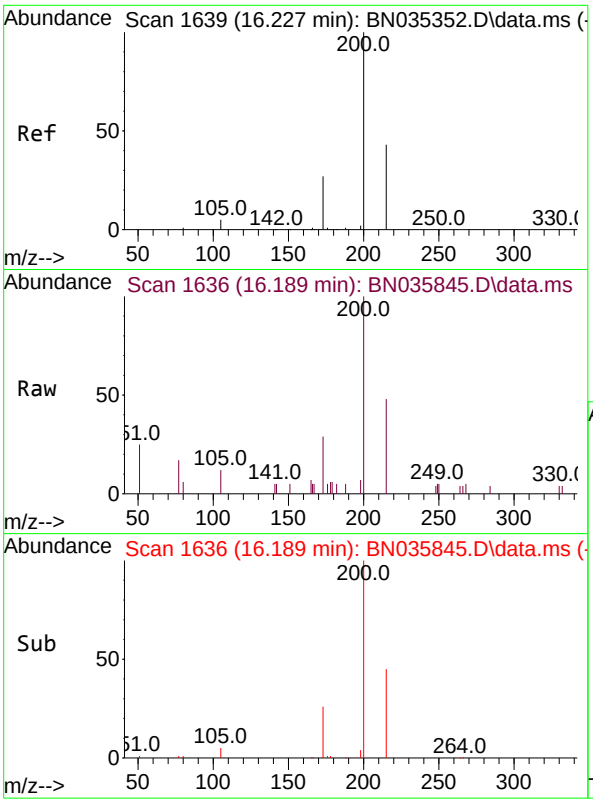



#22
Hexachlorobenzene
Concen: 0.450 ng
RT: 15.991 min Scan# 1620
Delta R.T. -0.025 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:284 Resp: 3482

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 29.6 | 26.7 | 40.1 |
| 249 | 28.9 | 24.6 | 36.8 |

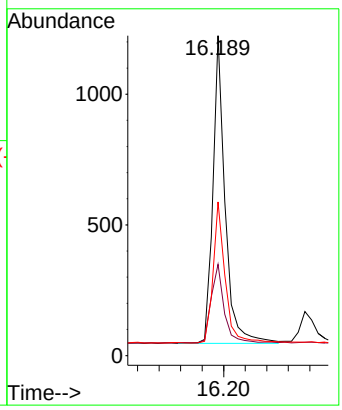





#23
Atrazine
Concen: 0.393 ng
RT: 16.189 min Scan# 1(
Delta R.T. -0.013 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:200 Resp: 184

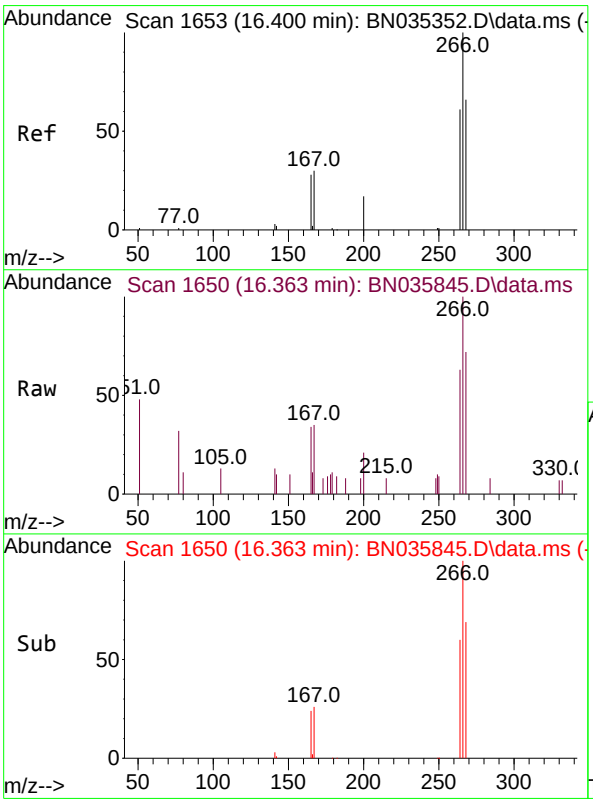
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 173 | 28.5 | 24.1 | 36.1 |
| 215 | 48.0 | 36.9 | 55.3 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations**
**APPROVED**

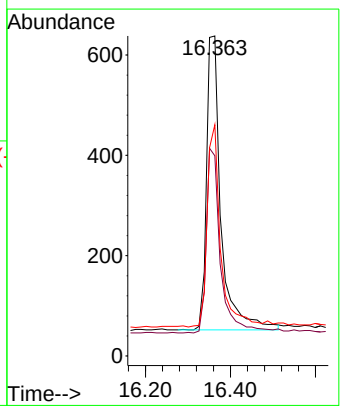
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

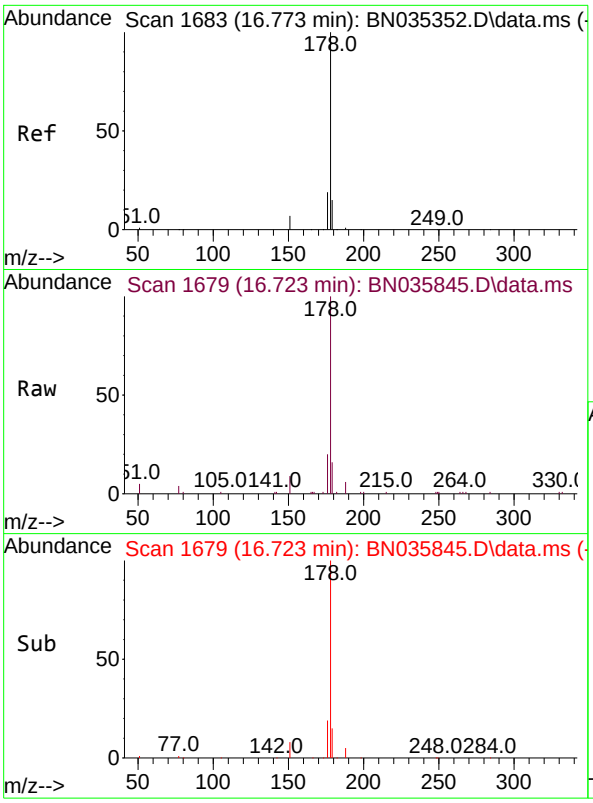



#24
Pentachlorophenol
Concen: 0.411 ng
RT: 16.363 min Scan# 1650
Delta R.T. -0.013 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:266 Resp: 1383

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 264 | 61.3 | 42.3 | 63.5 |
| 268 | 63.8 | 43.3 | 64.9 |

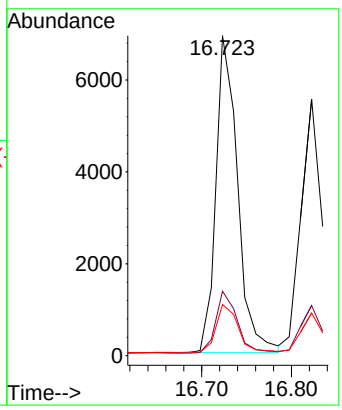





#25
Phenanthrene
Concen: 0.375 ng
RT: 16.723 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:178 Resp: 1160

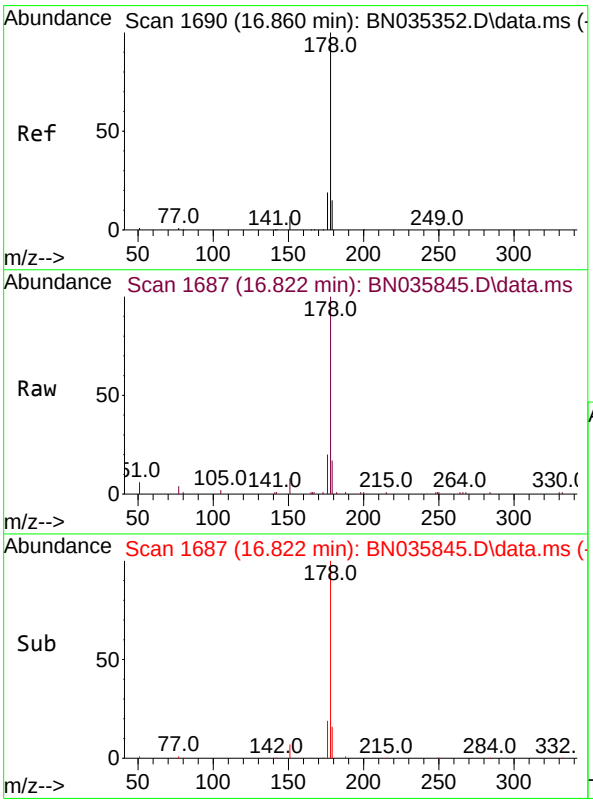
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.2 | 15.4 | 23.2 |
| 179 | 15.7 | 12.3 | 18.5 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations**
**APPROVED**

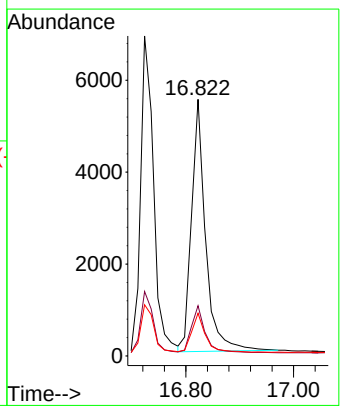
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

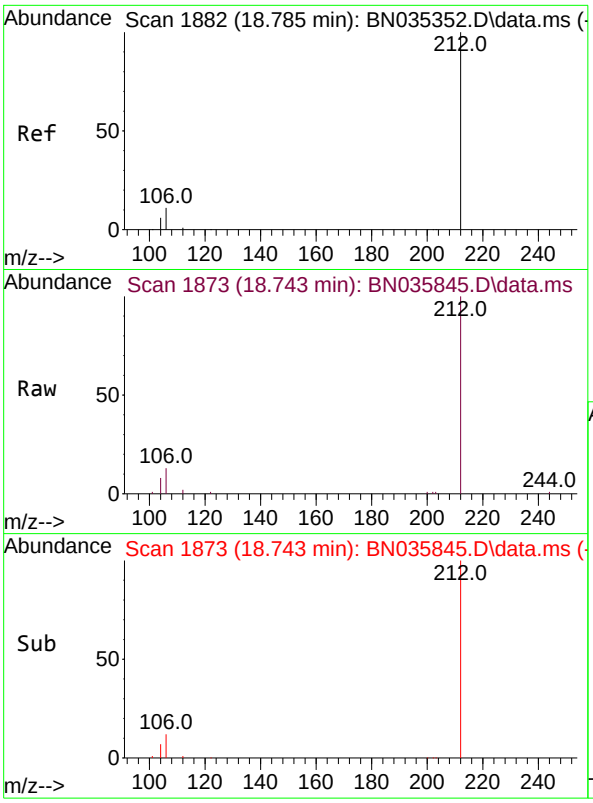



#26
Anthracene
Concen: 0.358 ng
RT: 16.822 min Scan# 1687
Delta R.T. -0.013 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:178 Resp: 10005

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.8 | 15.0 | 22.6 |
| 179 | 15.3 | 12.6 | 18.8 |

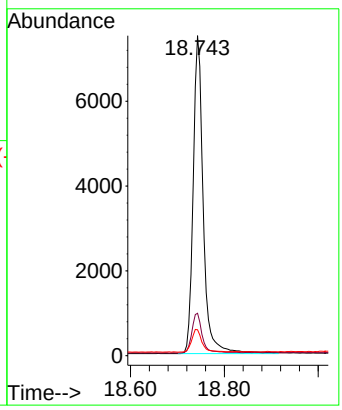





#27
Fluoranthene-d10
Concen: 0.350 ng
RT: 18.743 min Scan# 1
Delta R.T. -0.019 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:212 Resp: 1116

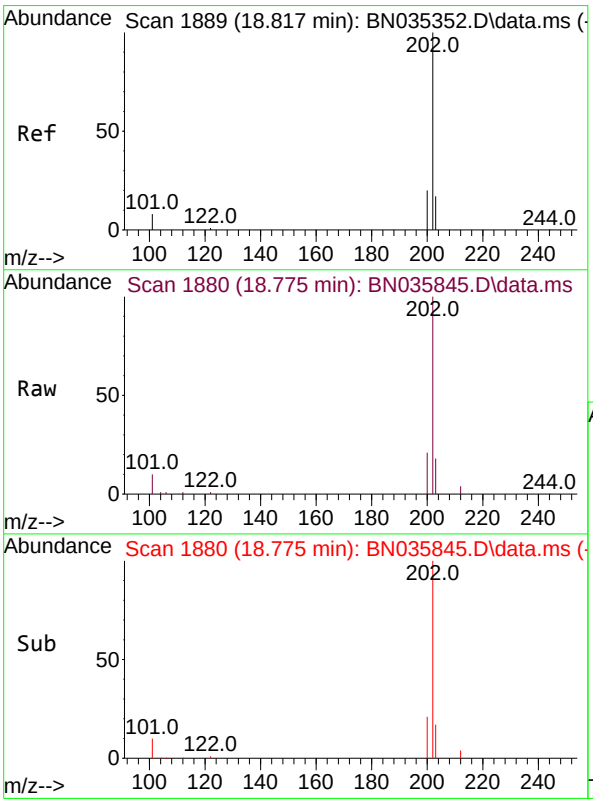
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 12.7 | 9.2 | 13.8 |
| 104 | 7.4 | 5.3 | 7.9 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations**
**APPROVED**

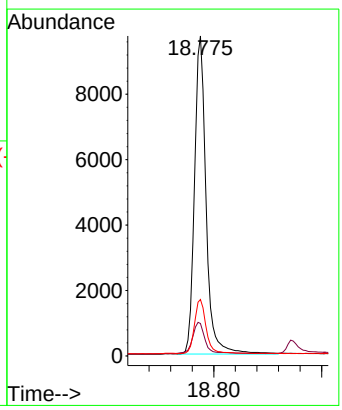
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

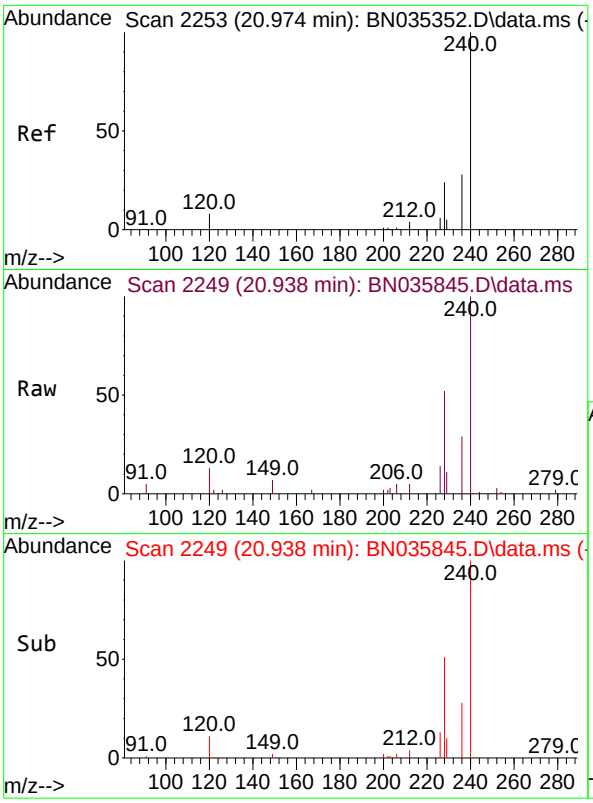



#28
Fluoranthene
Concen: 0.347 ng
RT: 18.775 min Scan# 1880
Delta R.T. -0.014 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:202 Resp: 14489

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 10.7 | 7.4 | 11.0 |
| 203 | 17.0 | 13.7 | 20.5 |

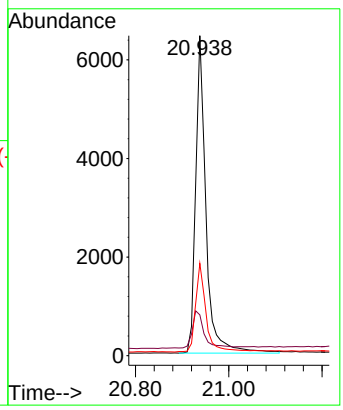





#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.938 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:240 Resp: 993

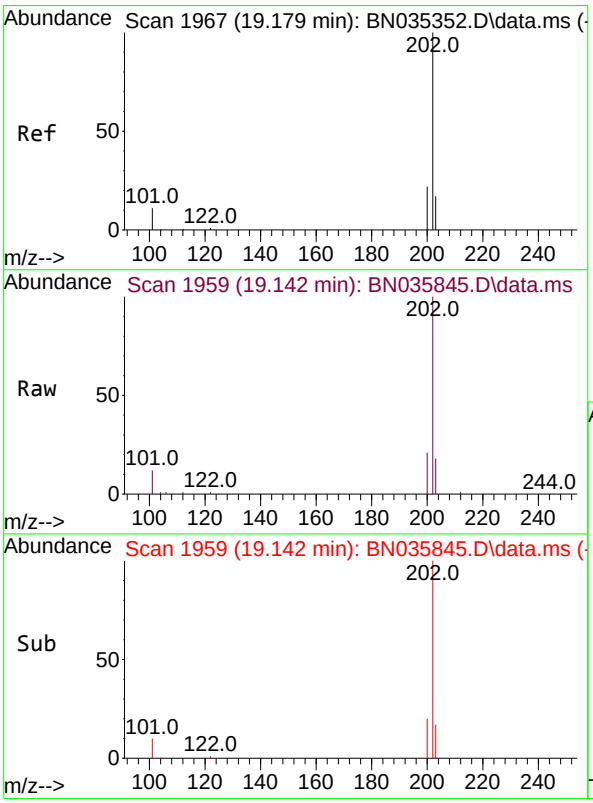
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 12.7 | 7.9 | 11.9 |
| 236 | 28.9 | 22.9 | 34.3 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations APPROVED**

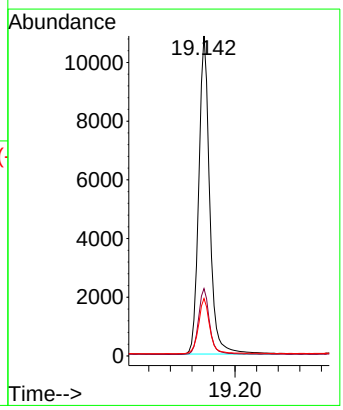
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

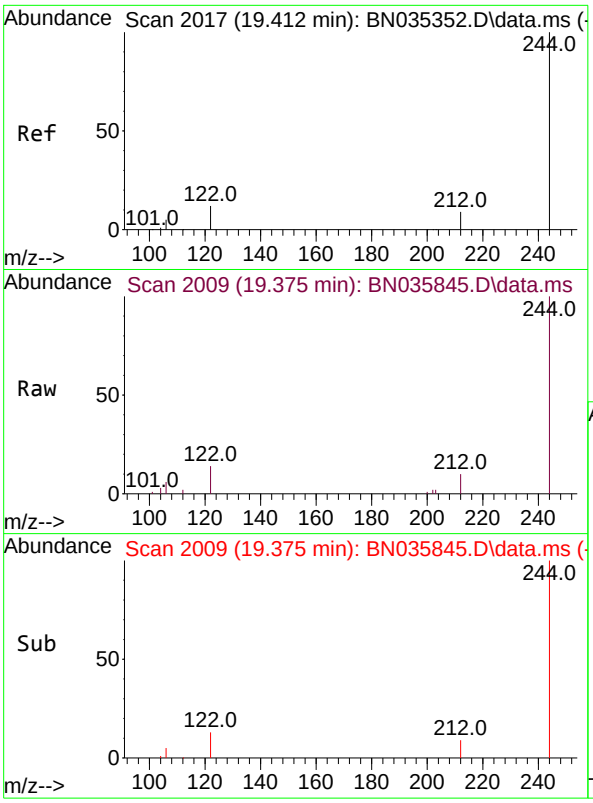



#30
Pyrene
Concen: 0.417 ng
RT: 19.142 min Scan# 1959
Delta R.T. -0.019 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:202 Resp: 15278

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.0 | 17.0 | 25.4 |
| 203 | 17.9 | 14.3 | 21.5 |

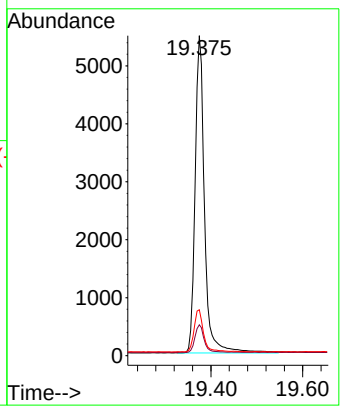





#31
Terphenyl-d14
Concen: 0.397 ng
RT: 19.375 min Scan# 2
Delta R.T. -0.014 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:244 Resp: 778

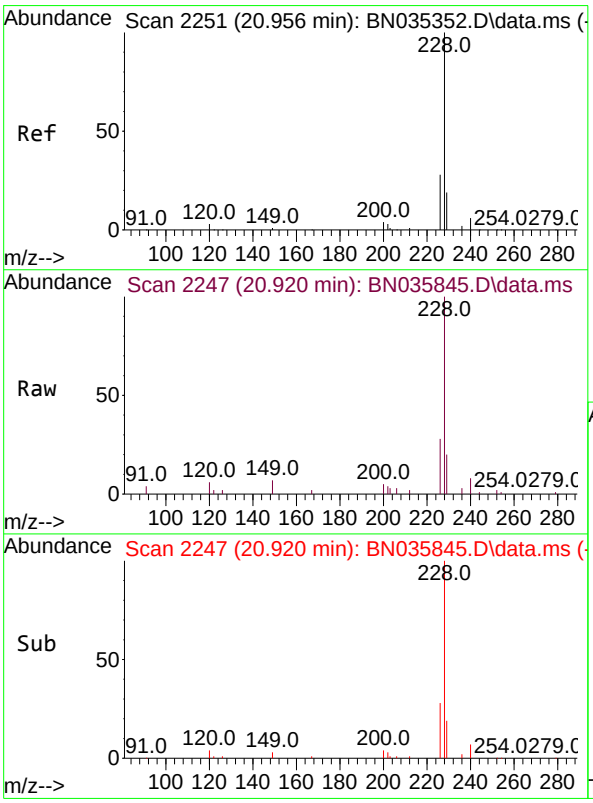
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 9.7 | 8.1 | 12.1 |
| 122 | 14.4 | 10.3 | 15.5 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations APPROVED**

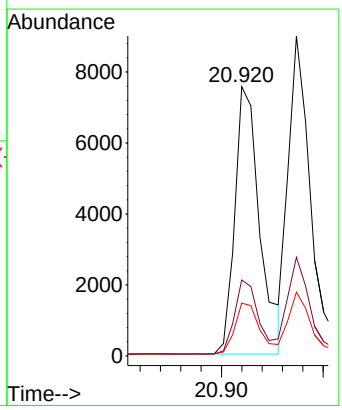
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

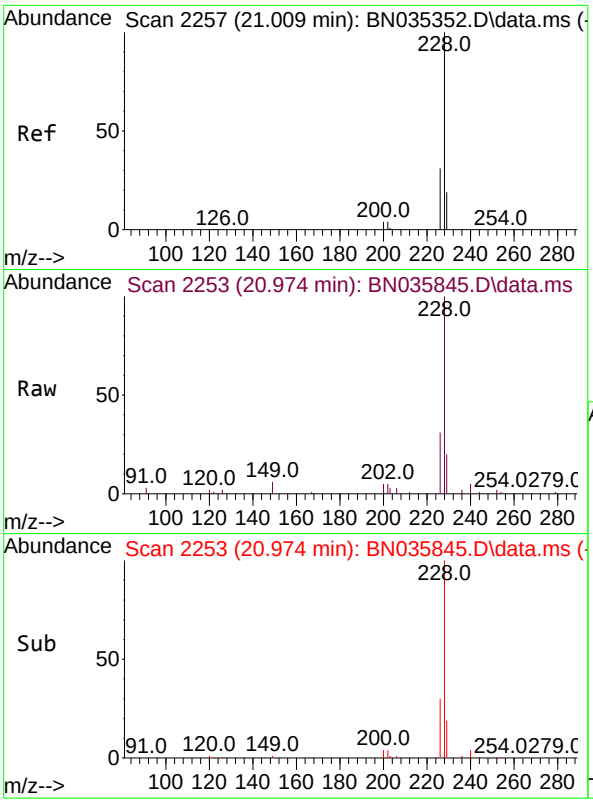



#32
Benzo(a)anthracene
Concen: 0.368 ng
RT: 20.920 min Scan# 2247
Delta R.T. -0.018 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:228 Resp: 12798

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 28.2 | 22.5 | 33.7 |
| 229 | 19.6 | 15.8 | 23.8 |

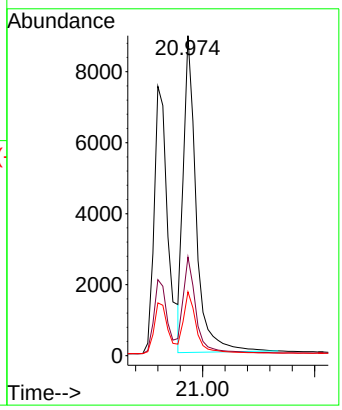





#33
Chrysene
Concen: 0.397 ng
RT: 20.974 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:228 Resp: 1421

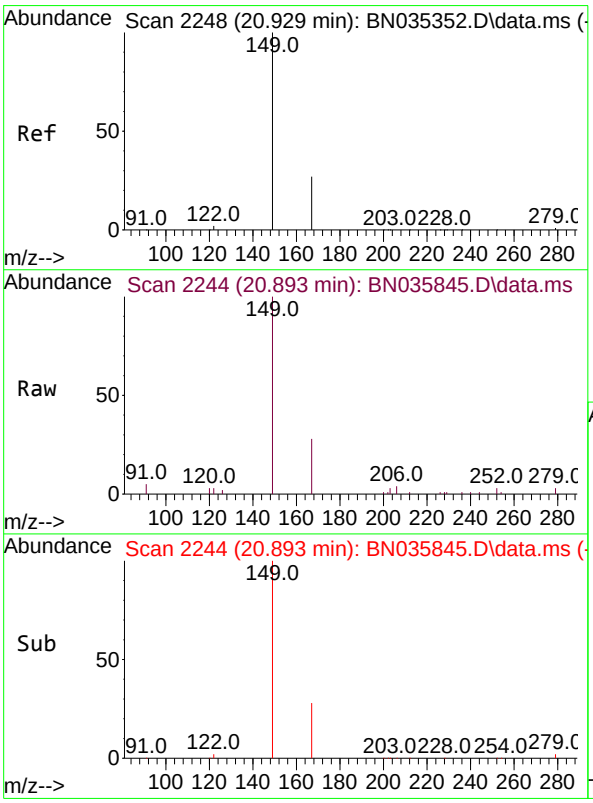
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 30.9 | 24.6 | 37.0 |
| 229 | 20.0 | 15.9 | 23.9 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations**
**APPROVED**

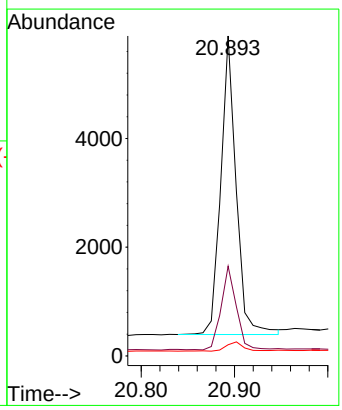
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

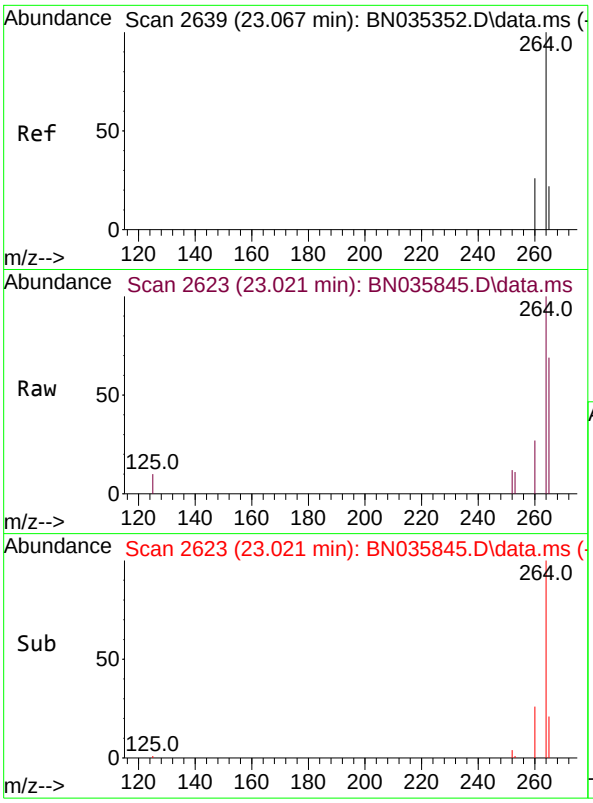



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.458 ng
RT: 20.893 min Scan# 2244
Delta R.T. -0.018 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:149 Resp: 6282

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 27.6 | 22.2 | 33.4 |
| 279 | 3.4 | 2.7 | 4.1 |






#35
Perylene-d12
Concen: 0.400 ng
RT: 23.021 min Scan# 2
Delta R.T. -0.021 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

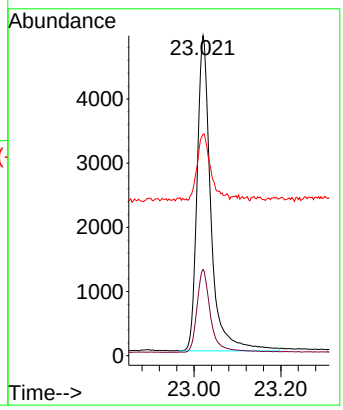
Tgt Ion:264 Resp: 1081

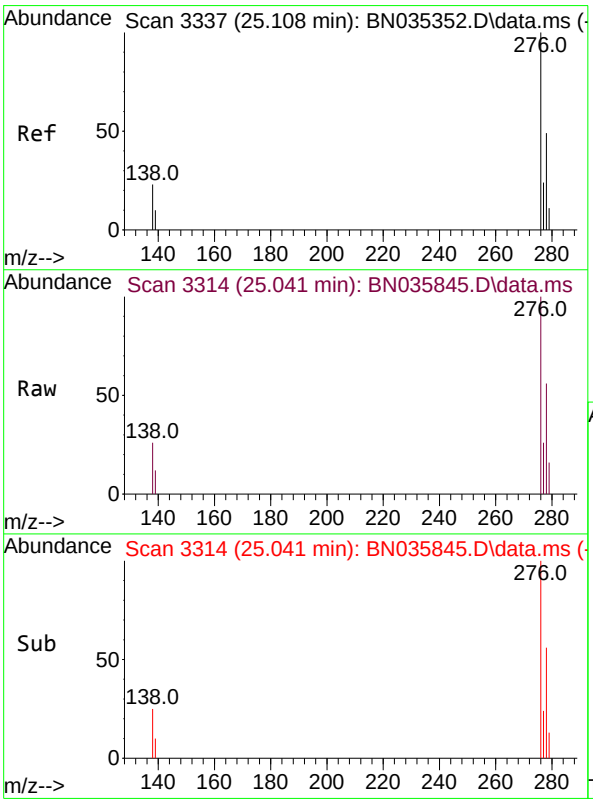
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 27.0 | 21.4 | 32.2 |
| 265 | 69.2 | 40.2 | 60.4 |

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

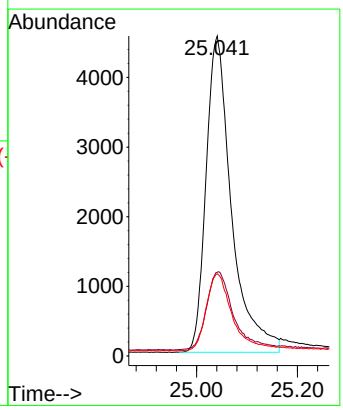


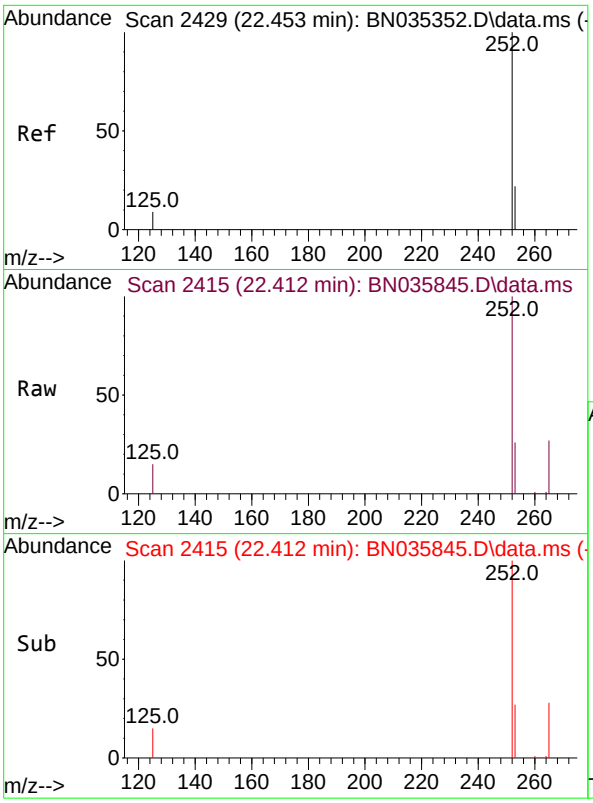




#36
Indeno(1,2,3-cd)pyrene
Concen: 0.377 ng
RT: 25.041 min Scan# 3314
Delta R.T. -0.026 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:276 Resp: 15946

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 26.4 | 19.4 | 29.0 |
| 277 | 25.7 | 19.8 | 29.6 |

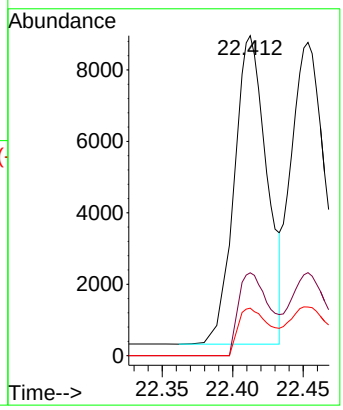





#37
Benzo(b)fluoranthene
Concen: 0.494 ng
RT: 22.412 min Scan# 24
Delta R.T. -0.018 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:252 Resp: 1956

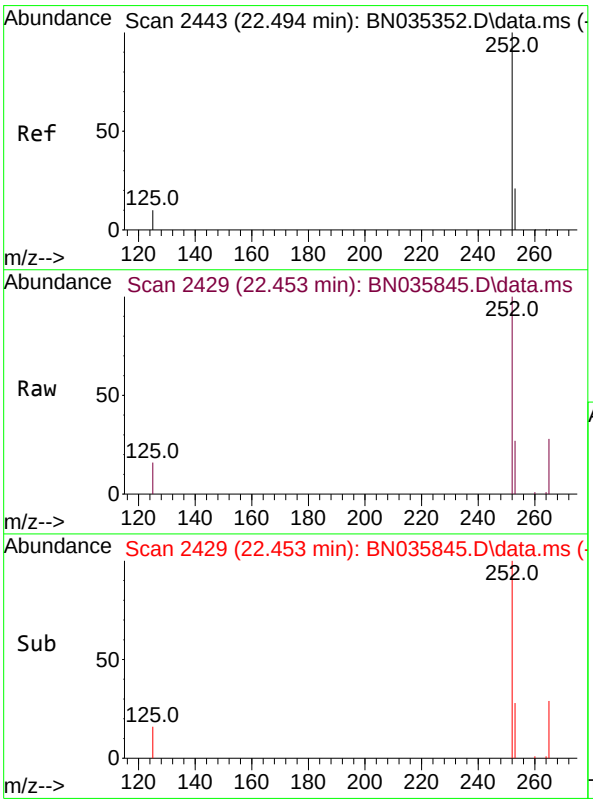
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 25.9 | 19.6 | 29.4 |
| 125 | 14.9 | 9.6 | 14.4# |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations**
**APPROVED**

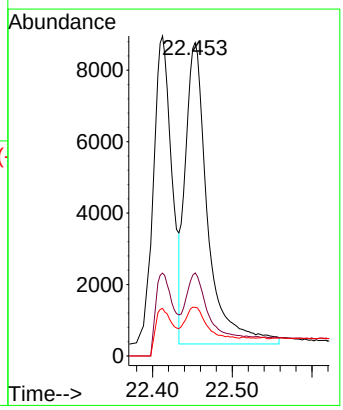
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

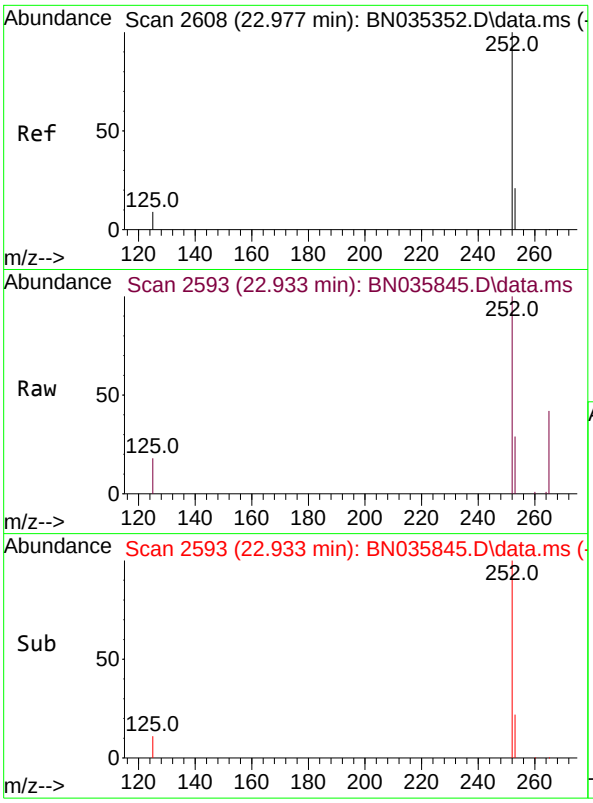



#38
Benzo(k)fluoranthene
Concen: 0.423 ng m
RT: 22.453 min Scan# 2429
Delta R.T. -0.018 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:252 Resp: 16469

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 26.5 | 19.5 | 29.3 |
| 125 | 15.5 | 10.2 | 15.4# |

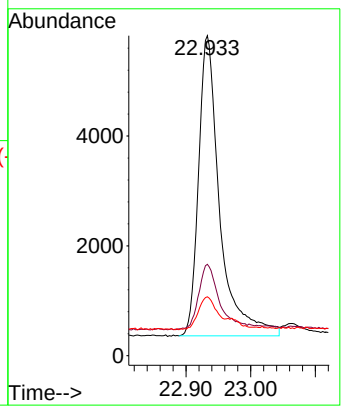





#39
Benzo(a)pyrene
Concen: 0.382 ng
RT: 22.933 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:252 Resp: 1245

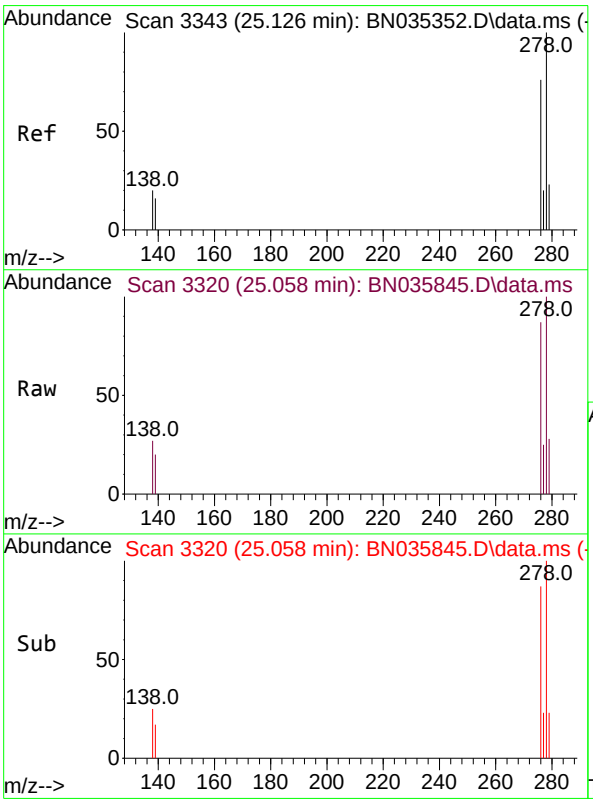
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 28.6 | 20.2 | 30.4 |
| 125 | 18.4 | 10.9 | 16.3 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations**
**APPROVED**

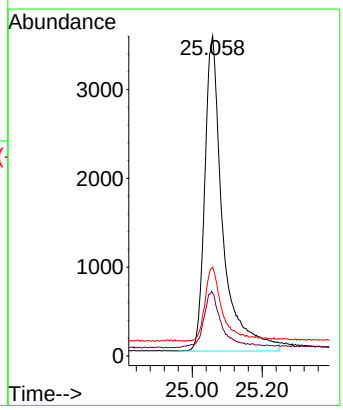
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

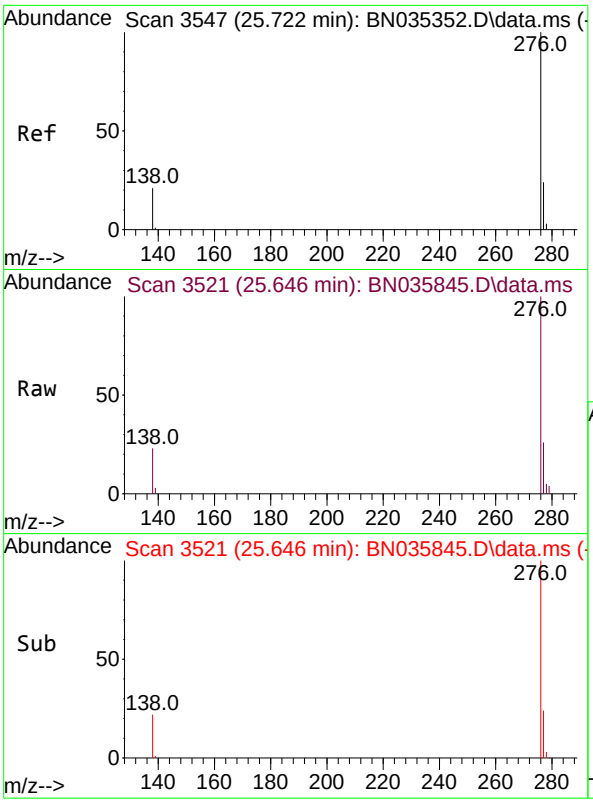



#40
Dibenzo(a,h)anthracene
Concen: 0.380 ng
RT: 25.058 min Scan# 3320
Delta R.T. -0.024 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:278 Resp: 12678

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 19.7 | 14.2 | 21.4 |
| 279 | 27.7 | 20.5 | 30.7 |

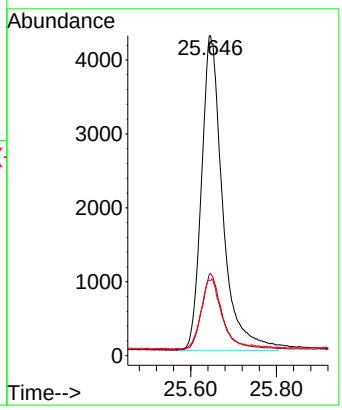





#41
Benzo(g,h,i)perylene
Concen: 0.419 ng
RT: 25.646 min Scan# 3
Delta R.T. -0.032 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:276 Resp: 1461

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 25.7 | 19.9 | 29.9 |
| 138 | 23.5 | 17.8 | 26.8 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
Data File : BN035845.D
Acq On : 26 Dec 2024 09:58
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
BNA_N
**LabSampleId :**
SSTDCCC0.4

Quant Time: Dec 27 00:40:11 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 183# | -0.01 |
| 2 | | 1,4-Dioxane | 0.382 | 0.405 | -6.0 | 197# | 0.00 |
| 3 | | n-Nitrosodimethylamine | 0.319 | 0.326 | -2.2 | 183# | 0.00 |
| 4 | S | 2-Fluorophenol | 1.001 | 1.006 | -0.5 | 181# | -0.01 |
| 5 | S | Phenol-d6 | 1.204 | 1.112 | 7.6 | 171# | -0.02 |
| 6 | | bis(2-Chloroethyl)ether | 1.012 | 0.958 | 5.3 | 177# | -0.02 |
| 7 | I | Naphthalene-d8 | 1.000 | 1.000 | 0.0 | 178# | -0.02 |
| 8 | S | Nitrobenzene-d5 | 0.244 | 0.298 | -22.1 | 226# | -0.01 |
| 9 | | Naphthalene | 1.055 | 1.013 | 4.0 | 172# | -0.02 |
| 10 | | Hexachlorobutadiene | 0.243 | 0.252 | -3.7 | 182# | -0.02 |
| 11 | SURR | 2-Methylnaphthalene-d10 | 0.626 | 0.545 | 12.9 | 157# | -0.02 |
| 12 | | 2-Methylnaphthalene | 0.755 | 0.637 | 15.6 | 154# | -0.02 |
| 13 | I | Acenaphthene-d10 | 1.000 | 1.000 | 0.0 | 142 | -0.02 |
| 14 | S | 2,4,6-Tribromophenol | 0.284 | 0.248 | 12.7 | 137 | -0.02 |
| 15 | S | 2-Fluorobiphenyl | 1.512 | 1.504 | 0.5 | 141 | -0.02 |
| 16 | | Acenaphthylene | 1.680 | 1.548 | 7.9 | 138 | -0.02 |
| 17 | | Acenaphthene | 1.115 | 1.057 | 5.2 | 138 | -0.02 |
| 18 | | Fluorene | 1.596 | 1.397 | 12.5 | 128 | -0.02 |
| 19 | I | Phenanthrene-d10 | 1.000 | 1.000 | 0.0 | 119 | -0.01 |
| 20 | | 4,6-Dinitro-2-methylphenol | 0.039 | 0.047 | -20.5 | 156# | -0.02 |
| 21 | | 4-Bromophenyl-phenylether | 0.234 | 0.217 | 7.3 | 114 | -0.02 |
| 22 | | Hexachlorobenzene | 0.275 | 0.309 | -12.4 | 134 | -0.02 |
| 23 | | Atrazine | 0.167 | 0.164 | 1.8 | 126 | -0.01 |
| 24 | | Pentachlorophenol | 0.120 | 0.123 | -2.5 | 153# | -0.01 |
| 25 | | Phenanthrene | 1.099 | 1.030 | 6.3 | 115 | -0.02 |
| 26 | | Anthracene | 0.994 | 0.888 | 10.7 | 112 | -0.01 |
| 27 | SURR | Fluoranthene-d10 | 1.134 | 0.991 | 12.6 | 109 | -0.02 |
| 28 | | Fluoranthene | 1.481 | 1.287 | 13.1 | 108 | -0.01 |
| 29 | I | Chrysene-d12 | 1.000 | 1.000 | 0.0 | 104 | -0.02 |
| 30 | | Pyrene | 1.477 | 1.538 | -4.1 | 109 | -0.02 |
| 31 | S | Terphenyl-d14 | 0.789 | 0.784 | 0.6 | 103 | -0.01 |
| 32 | | Benzo(a)anthracene | 1.399 | 1.289 | 7.9 | 99 | -0.02 |
| 33 | | Chrysene | 1.443 | 1.431 | 0.8 | 104 | -0.02 |
| 34 | | Bis(2-ethylhexyl)phthalate | 0.553 | 0.633 | -14.5 | 128 | -0.02 |
| 35 | I | Perylene-d12 | 1.000 | 1.000 | 0.0 | 100 | -0.02 |
| 36 | | Indeno(1,2,3-cd)pyrene | 1.564 | 1.474 | 5.8 | 96 | -0.03 |
| 37 | | Benzo(b)fluoranthene | 1.463 | 1.809 | -23.7 | 137 | -0.02 |
| 38 | | Benzo(k)fluoranthene | 1.440 | 1.523 | -5.8 | 108 | -0.02 |
| 39 | C | Benzo(a)pyrene | 1.205 | 1.152 | 4.4 | 100 | -0.02 |
| 40 | | Dibenzo(a,h)anthracene | 1.234 | 1.172 | 5.0 | 98 | -0.02 |
| 41 | | Benzo(g,h,i)perylene | 1.289 | 1.351 | -4.8 | 108 | -0.03 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
Data File : BN035845.D
Acq On : 26 Dec 2024 09:58
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
BNA_N
**LabSampleId :**
SSTDCCC0.4

Quant Time: Dec 27 00:40:11 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | 1,4-Dichlorobenzene-d4 | 0.400 | 0.400 | 0.0 | 183 | -0.01 |
| 2 | | 1,4-Dioxane | 0.400 | 0.423 | -5.7 | 197 | 0.00 |
| 3 | | n-Nitrosodimethylamine | 0.400 | 0.409 | -2.2 | 183 | 0.00 |
| 4 | S | 2-Fluorophenol | 0.400 | 0.402 | -0.5 | 181 | -0.01 |
| 5 | S | Phenol-d6 | 0.400 | 0.369 | 7.8 | 171 | -0.02 |
| 6 | | bis(2-Chloroethyl)ether | 0.400 | 0.379 | 5.3 | 177 | -0.02 |
| 7 | I | Naphthalene-d8 | 0.400 | 0.400 | 0.0 | 178 | -0.02 |
| 8 | S | Nitrobenzene-d5 | 0.400 | 0.488 | -22.0 | 226 | -0.01 |
| 9 | | Naphthalene | 0.400 | 0.384 | 4.0 | 172 | -0.02 |
| 10 | | Hexachlorobutadiene | 0.400 | 0.415 | -3.7 | 182 | -0.02 |
| 11 | SURR | 2-Methylnaphthalene-d10 | 0.400 | 0.348 | 13.0 | 157 | -0.02 |
| 12 | | 2-Methylnaphthalene | 0.400 | 0.337 | 15.8 | 154 | -0.02 |
| 13 | I | Acenaphthene-d10 | 0.400 | 0.400 | 0.0 | 142 | -0.02 |
| 14 | S | 2,4,6-Tribromophenol | 0.400 | 0.350 | 12.5 | 137 | -0.02 |
| 15 | S | 2-Fluorobiphenyl | 0.400 | 0.398 | 0.5 | 141 | -0.02 |
| 16 | | Acenaphthylene | 0.400 | 0.369 | 7.8 | 138 | -0.02 |
| 17 | | Acenaphthene | 0.400 | 0.379 | 5.3 | 138 | -0.02 |
| 18 | | Fluorene | 0.400 | 0.350 | 12.5 | 128 | -0.02 |
| 19 | I | Phenanthrene-d10 | 0.400 | 0.400 | 0.0 | 119 | -0.01 |
| 20 | | 4,6-Dinitro-2-methylphenol | 0.400 | 0.475 | -18.7 | 156 | -0.02 |
| 21 | | 4-Bromophenyl-phenylether | 0.400 | 0.371 | 7.3 | 114 | -0.02 |
| 22 | | Hexachlorobenzene | 0.400 | 0.450 | -12.5 | 134 | -0.02 |
| 23 | | Atrazine | 0.400 | 0.393 | 1.8 | 126 | -0.01 |
| 24 | | Pentachlorophenol | 0.400 | 0.411 | -2.7 | 153 | -0.01 |
| 25 | | Phenanthrene | 0.400 | 0.375 | 6.3 | 115 | -0.02 |
| 26 | | Anthracene | 0.400 | 0.358 | 10.5 | 112 | -0.01 |
| 27 | SURR | Fluoranthene-d10 | 0.400 | 0.350 | 12.5 | 109 | -0.02 |
| 28 | | Fluoranthene | 0.400 | 0.347 | 13.3 | 108 | -0.01 |
| 29 | I | Chrysene-d12 | 0.400 | 0.400 | 0.0 | 104 | -0.02 |
| 30 | | Pyrene | 0.400 | 0.417 | -4.2 | 109 | -0.02 |
| 31 | S | Terphenyl-d14 | 0.400 | 0.397 | 0.8 | 103 | -0.01 |
| 32 | | Benzo(a)anthracene | 0.400 | 0.368 | 8.0 | 99 | -0.02 |
| 33 | | Chrysene | 0.400 | 0.397 | 0.8 | 104 | -0.02 |
| 34 | | Bis(2-ethylhexyl)phthalate | 0.400 | 0.458 | -14.5 | 128 | -0.02 |
| 35 | I | Perylene-d12 | 0.400 | 0.400 | 0.0 | 100 | -0.02 |
| 36 | | Indeno(1,2,3-cd)pyrene | 0.400 | 0.377 | 5.8 | 96 | -0.03 |
| 37 | | Benzo(b)fluoranthene | 0.400 | 0.494 | -23.5 | 137 | -0.02 |
| 38 | | Benzo(k)fluoranthene | 0.400 | 0.423 | -5.7 | 108 | -0.02 |
| 39 | C | Benzo(a)pyrene | 0.400 | 0.382 | 4.5 | 100 | -0.02 |
| 40 | | Dibenzo(a,h)anthracene | 0.400 | 0.380 | 5.0 | 98 | -0.02 |
| 41 | | Benzo(g,h,i)perylene | 0.400 | 0.419 | -4.7 | 108 | -0.03 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: P5376 SAS No.: P5376 SDG No.: P5376

Instrument ID: BNA_N Calibration Date/Time: 12/26/2024 19:41

Lab File ID: BN035861.D Init. Calib. Date(s): 11/27/2024 11/27/2024

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 15:34 19:09

GC Column: ZB-GR ID: 0.25 (mm)

| COMPOUND | RRF | RRF0.4 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| 2-Methylnaphthalene-d10 | 0.626 | 0.551 | | -12.0 | 50.0 |
| Fluoranthene-d10 | 1.134 | 0.922 | | -18.7 | 50.0 |
| 2-Fluorophenol | 1.001 | 0.931 | | -7.0 | 50.0 |
| Phenol-d6 | 1.204 | 1.022 | | -15.1 | 50.0 |
| Nitrobenzene-d5 | 0.244 | 0.306 | | 25.4 | 50.0 |
| 2-Fluorobiphenyl | 1.512 | 1.480 | | -2.1 | 50.0 |
| 2,4,6-Tribromophenol | 0.284 | 0.225 | | -20.8 | 50.0 |
| Terphenyl-d14 | 0.789 | 0.898 | | 13.8 | 50.0 |
| 1,4-Dioxane | 0.382 | 0.394 | | 3.1 | 50.0 |

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
Data File : BN035861.D
Acq On : 26 Dec 2024 19:41
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 27 00:42:36 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.257 | 152 | 3087 | 0.400 | ng | | -0.01 |
| 7) Naphthalene-d8 | 9.999 | 136 | 7239 | 0.400 | ng | | -0.02 |
| 13) Acenaphthene-d10 | 13.914 | 164 | 4472 | 0.400 | ng | | -0.02 |
| 19) Phenanthrene-d10 | 16.686 | 188 | 9373 | 0.400 | ng | | #-0.01 |
| 29) Chrysene-d12 | 20.947 | 240 | 6021 | 0.400 | ng | | # 0.00 |
| 35) Perylene-d12 | 23.026 | 264 | 5699 | 0.400 | ng | | #-0.01 |
| System Monitoring Compounds | | | | | | | |
| 4) 2-Fluorophenol | 4.924 | 112 | 2874 | 0.372 | ng | | -0.01 |
| 5) Phenol-d6 | 6.470 | 99 | 3155 | 0.340 | ng | | -0.02 |
| 8) Nitrobenzene-d5 | 8.397 | 82 | 2215m | 0.501 | ng | | -0.01 |
| 11) 2-Methylnaphthalene-d10 | 11.605 | 152 | 3987 | 0.352 | ng | | -0.02 |
| 14) 2,4,6-Tribromophenol | 15.443 | 330 | 1008 | 0.318 | ng | | -0.01 |
| 15) 2-Fluorobiphenyl | 12.528 | 172 | 6619 | 0.392 | ng | | -0.02 |
| 27) Fluoranthene-d10 | 18.747 | 212 | 8643 | 0.325 | ng | | -0.01 |
| 31) Terphenyl-d14 | 19.379 | 244 | 5407 | 0.455 | ng | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 2.974 | 88 | 1215 | 0.412 | ng | | 96 |
| 3) n-Nitrosodimethylamine | 3.271 | 42 | 1021 | 0.415 | ng | # | 90 |
| 6) bis(2-Chloroethyl)ether | 6.708 | 93 | 2725 | 0.349 | ng | | 98 |
| 9) Naphthalene | 10.052 | 128 | 7516 | 0.394 | ng | | 100 |
| 10) Hexachlorobutadiene | 10.340 | 225 | 1992 | 0.452 | ng | # | 99 |
| 12) 2-Methylnaphthalene | 11.682 | 142 | 4745 | 0.347 | ng | | 99 |
| 16) Acenaphthylene | 13.625 | 152 | 6923 | 0.369 | ng | | 100 |
| 17) Acenaphthene | 13.978 | 154 | 4776 | 0.383 | ng | | 99 |
| 18) Fluorene | 14.983 | 166 | 6478 | 0.363 | ng | | 99 |
| 20) 4,6-Dinitro-2-methylph... | 15.111 | 198 | 453 | 0.492 | ng | # | 67 |
| 21) 4-Bromophenyl-phenylether | 15.904 | 248 | 2071 | 0.378 | ng | # | 96 |
| 22) Hexachlorobenzene | 15.991 | 284 | 3015 | 0.468 | ng | | 98 |
| 23) Atrazine | 16.202 | 200 | 1507 | 0.386 | ng | | 94 |
| 24) Pentachlorophenol | 16.363 | 266 | 846 | 0.302 | ng | # | 84 |
| 25) Phenanthrene | 16.736 | 178 | 9697 | 0.377 | ng | | 100 |
| 26) Anthracene | 16.822 | 178 | 8100 | 0.348 | ng | | 99 |
| 28) Fluoranthene | 18.780 | 202 | 11145 | 0.321 | ng | | 99 |
| 30) Pyrene | 19.147 | 202 | 11492 | 0.517 | ng | | 99 |
| 32) Benzo(a)anthracene | 20.929 | 228 | 6901 | 0.328 | ng | | 99 |
| 33) Chrysene | 20.983 | 228 | 9578 | 0.441 | ng | | 99 |
| 34) Bis(2-ethylhexyl)phtha... | 20.893 | 149 | 4069 | 0.489 | ng | | 99 |
| 36) Indeno(1,2,3-cd)pyrene | 25.050 | 276 | 9030 | 0.405 | ng | | 98 |
| 37) Benzo(b)fluoranthene | 22.418 | 252 | 11803 | 0.566 | ng | # | 92 |
| 38) Benzo(k)fluoranthene | 22.459 | 252 | 9638 | 0.470 | ng | # | 90 |
| 39) Benzo(a)pyrene | 22.939 | 252 | 6641 | 0.387 | ng | # | 82 |
| 40) Dibenzo(a,h)anthracene | 25.070 | 278 | 6633 | 0.377 | ng | # | 91 |
| 41) Benzo(g,h,i)perylene | 25.652 | 276 | 8300 | 0.452 | ng | | 95 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

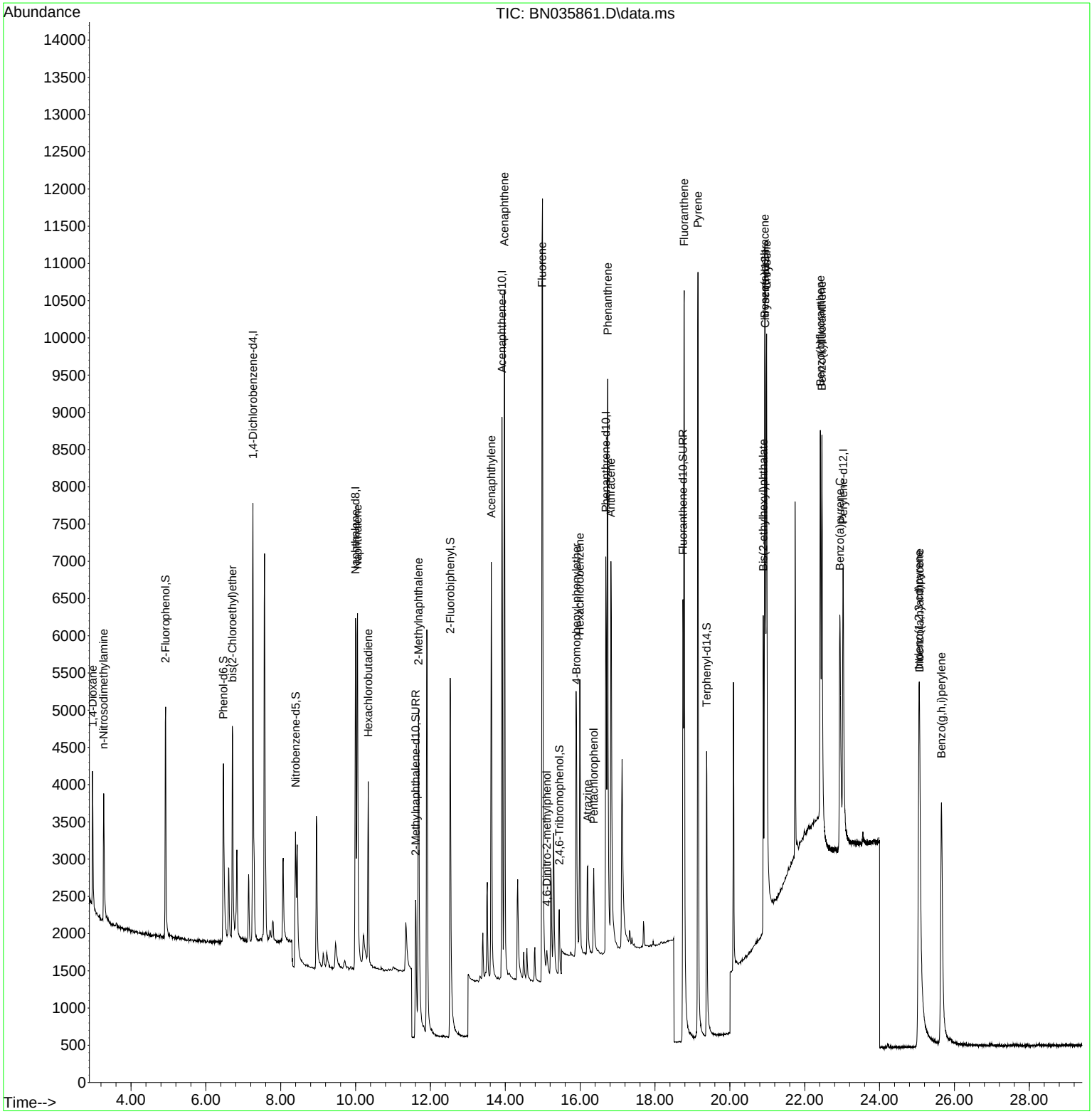
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
Data File : BN035861.D
Acq On : 26 Dec 2024 19:41
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

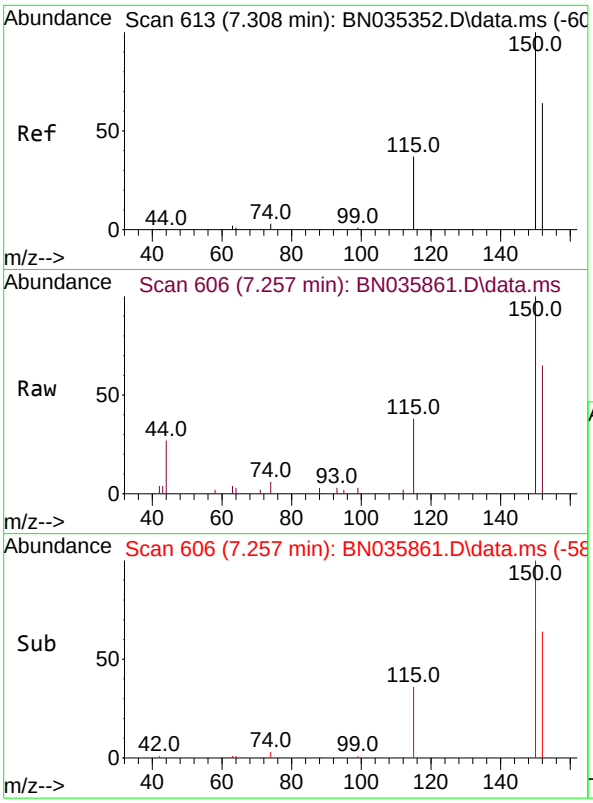
Quant Time: Dec 27 00:42:36 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

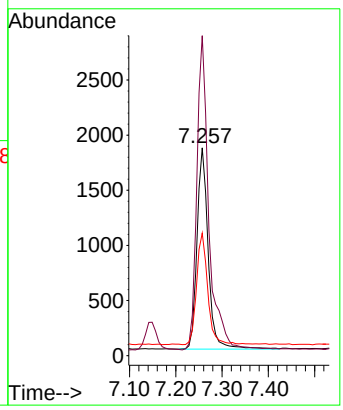





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 6
Delta R.T. -0.015 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:152 Resp: 308

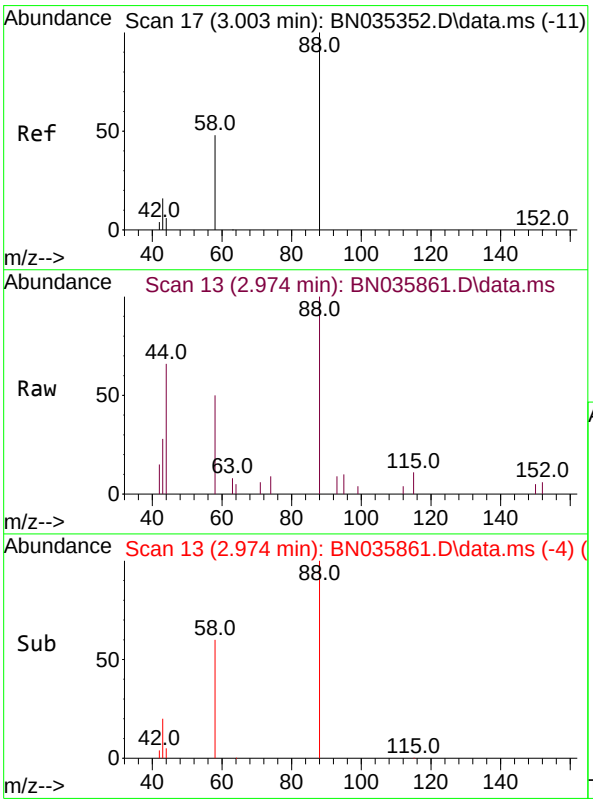
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 154.0 | 124.0 | 186.0 |
| 115 | 58.9 | 49.6 | 74.4 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations APPROVED**

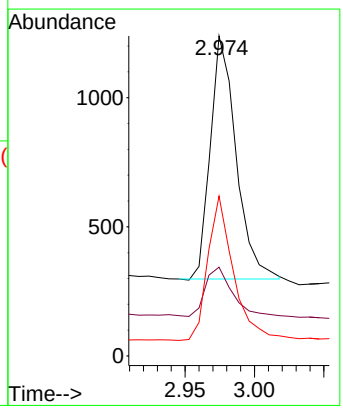
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

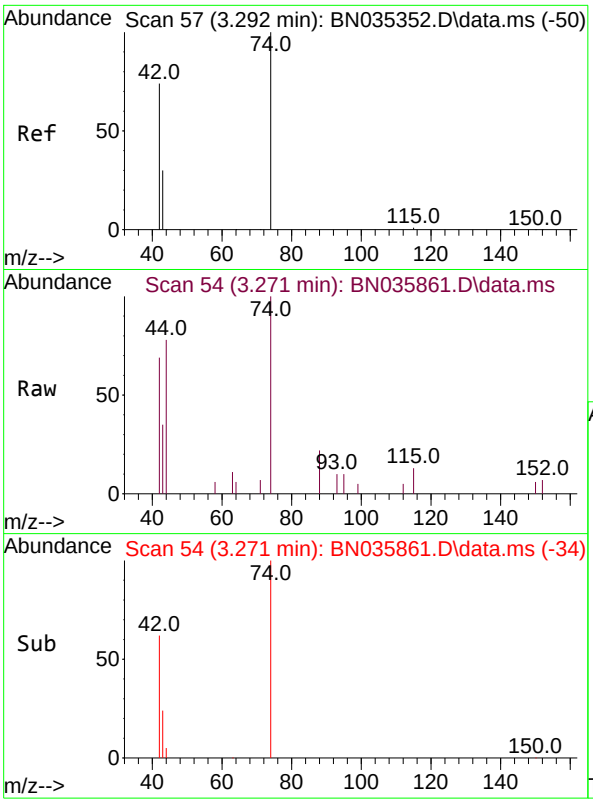



#2
1,4-Dioxane
Concen: 0.412 ng
RT: 2.974 min Scan# 13
Delta R.T. -0.008 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion: 88 Resp: 1215

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 20.1 | 17.2 | 25.8 |
| 58 | 59.1 | 44.5 | 66.7 |

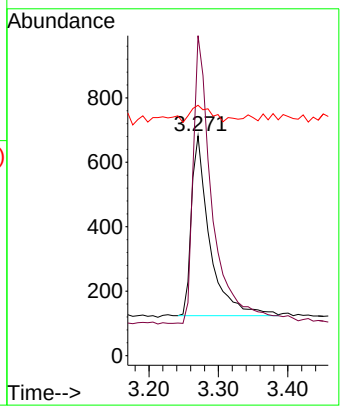





#3
n-Nitrosodimethylamine
Concen: 0.415 ng
RT: 3.271 min Scan# 54
Delta R.T. -0.007 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

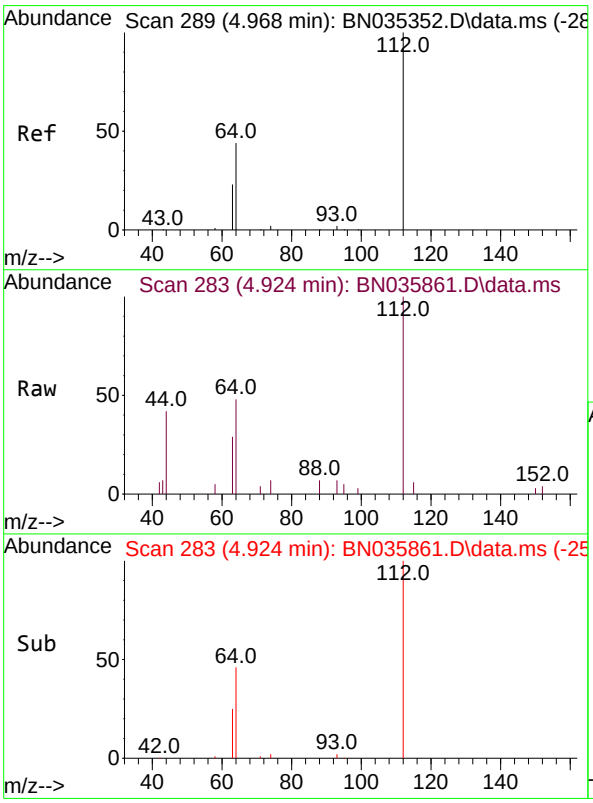
Tgt Ion: 42 Resp: 102

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 169.1 | 124.9 | 187.3 |
| 44 | 10.6 | 2.2 | 3.4 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

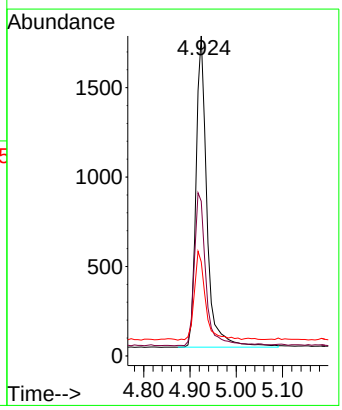
**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

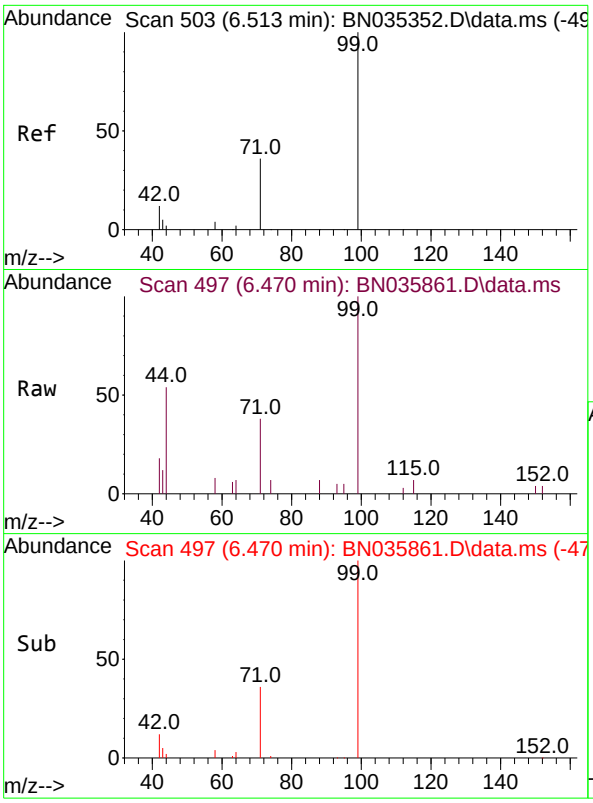



#4
2-Fluorophenol
Concen: 0.372 ng
RT: 4.924 min Scan# 283
Delta R.T. -0.015 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:112 Resp: 2874

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 51.6 | 39.8 | 59.8 |
| 63 | 28.9 | 21.0 | 31.6 |

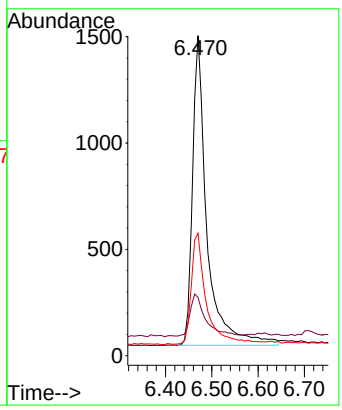





#5
Phenol-d6
Concen: 0.340 ng
RT: 6.470 min Scan# 4
Delta R.T. -0.022 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion: 99 Resp: 315

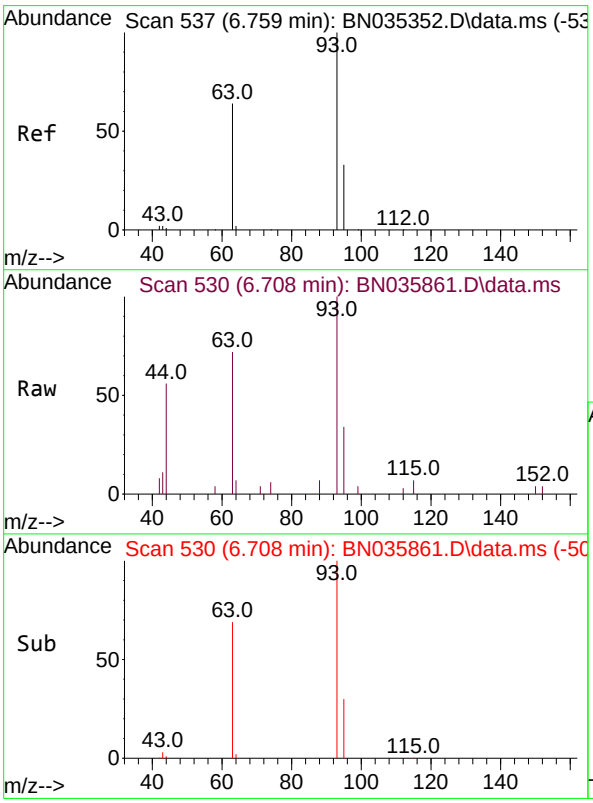
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 14.5 | 11.4 | 17.2 |
| 71 | 37.3 | 29.3 | 43.9 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations**
**APPROVED**

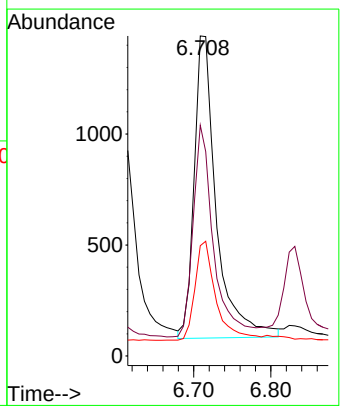
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

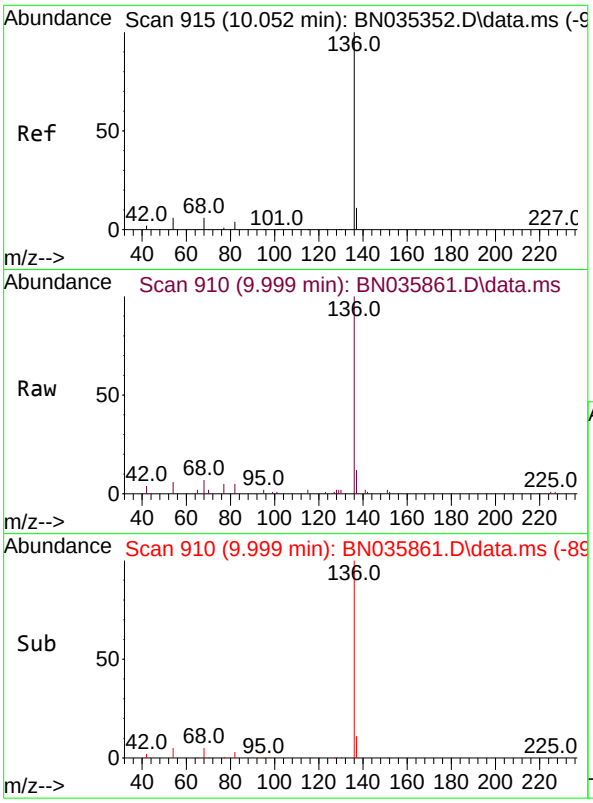



#6
bis(2-Chloroethyl)ether
Concen: 0.349 ng
RT: 6.708 min Scan# 530
Delta R.T. -0.022 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion: 93 Resp: 2725

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 64.1 | 50.4 | 75.6 |
| 95 | 31.0 | 25.7 | 38.5 |

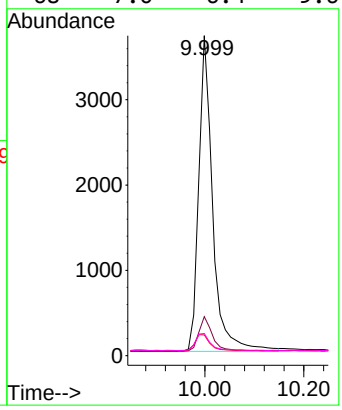





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 9.999 min Scan# 9
Delta R.T. -0.021 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

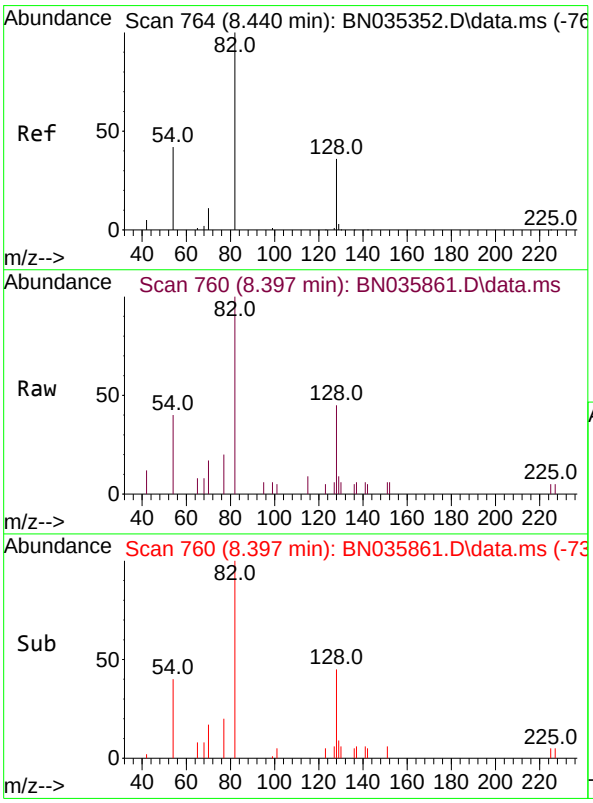
Tgt Ion:136 Resp: 723

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 12.2 | 10.2 | 15.2 |
| 54 | 6.5 | 6.1 | 9.1 |
| 68 | 7.0 | 6.4 | 9.6 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

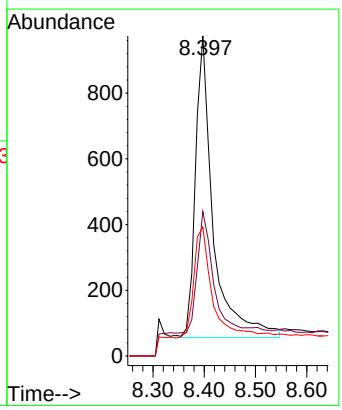
**Manual Integrations**
**APPROVED**
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

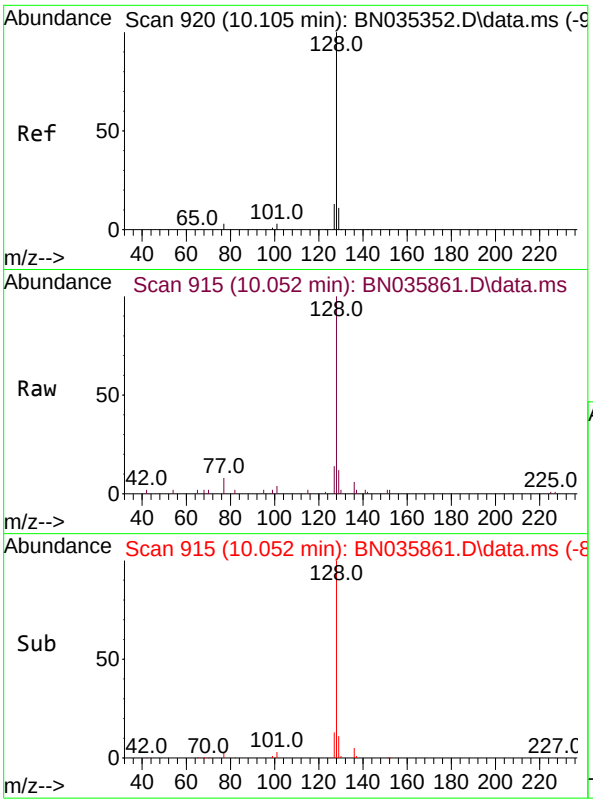



#8
Nitrobenzene-d5
Concen: 0.501 ng m
RT: 8.397 min Scan# 760
Delta R.T. -0.011 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion: 82 Resp: 2215

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 45.2 | 33.4 | 50.0 |
| 54 | 40.3 | 36.7 | 55.1 |

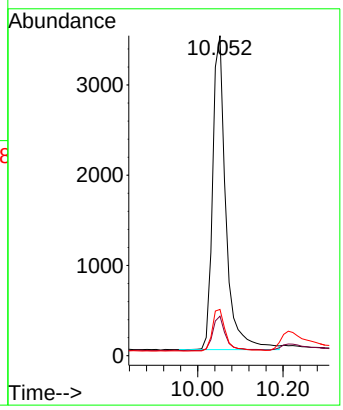





#9
Naphthalene
Concen: 0.394 ng
RT: 10.052 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:128 Resp: 751

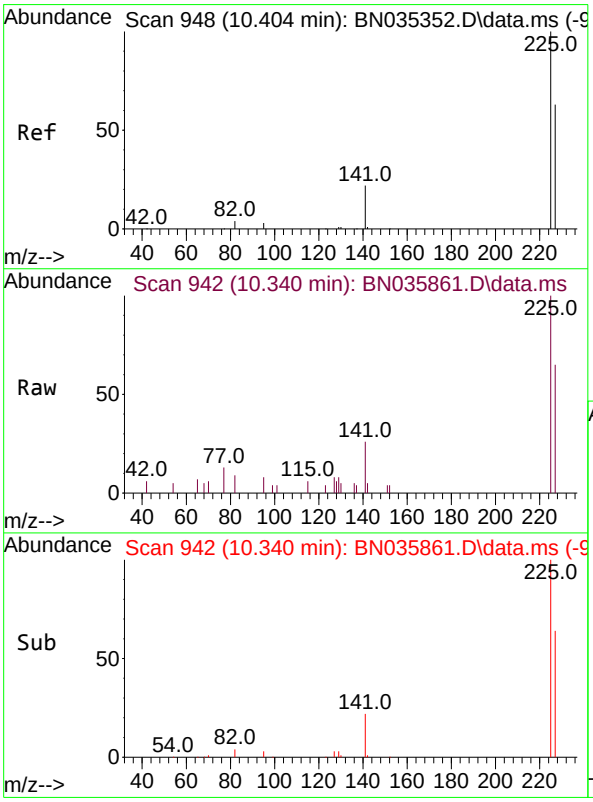
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 12.4 | 9.8 | 14.6 |
| 127 | 14.5 | 11.4 | 17.2 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations**
**APPROVED**

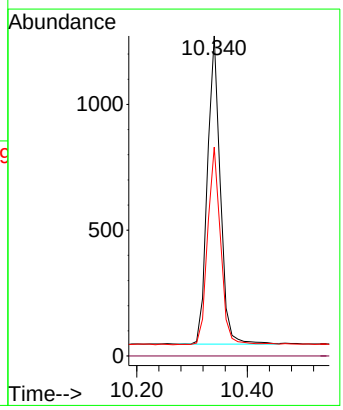
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

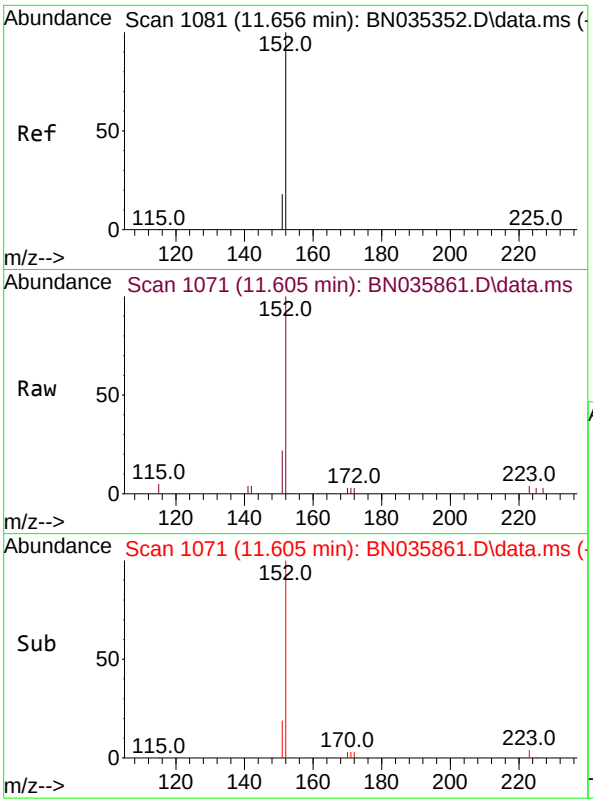



#10
Hexachlorobutadiene
Concen: 0.452 ng
RT: 10.340 min Scan# 942
Delta R.T. -0.021 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:225 Resp: 1992

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 0.0 | 0.0 | 0.0 |
| 227 | 64.7 | 51.3 | 76.9 |

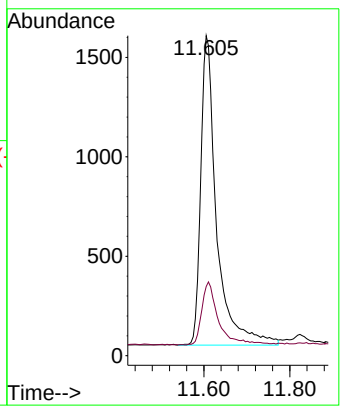





#11
2-Methylnaphthalene-d10
Concen: 0.352 ng
RT: 11.605 min Scan# 1
Delta R.T. -0.015 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:152 Resp: 398

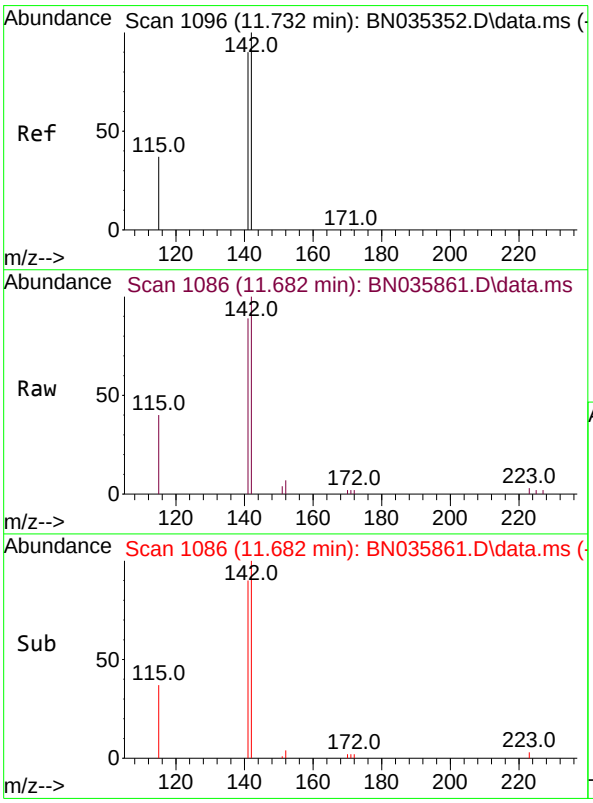
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 21.5 | 16.6 | 25.0 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations**
**APPROVED**

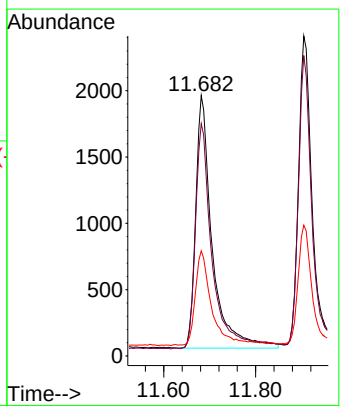
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

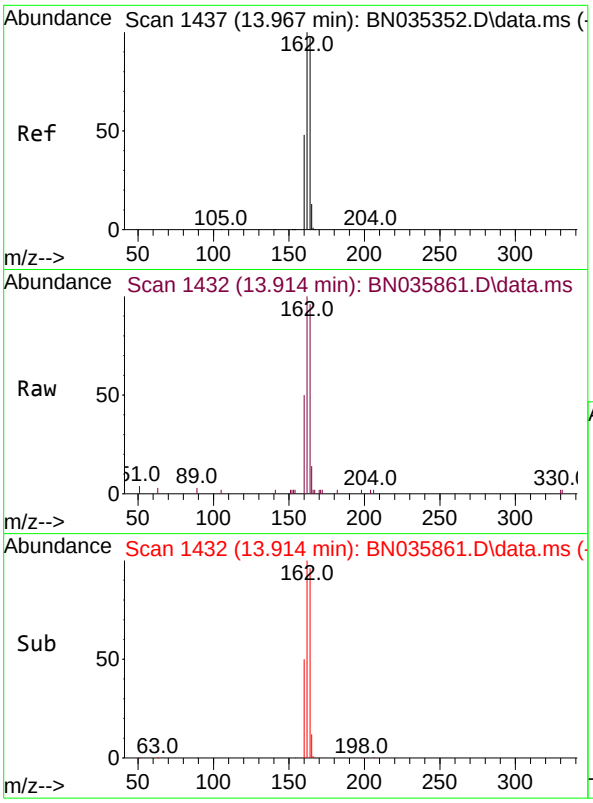



#12
2-Methylnaphthalene
Concen: 0.347 ng
RT: 11.682 min Scan# 1086
Delta R.T. -0.015 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:142 Resp: 4745

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 89.2 | 72.2 | 108.4 |
| 115 | 40.4 | 31.4 | 47.0 |

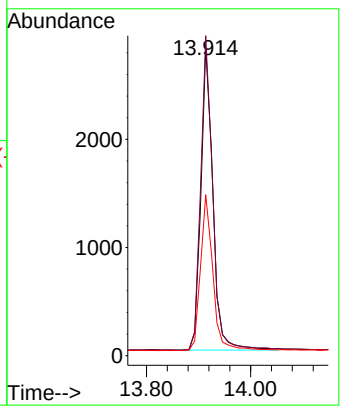





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.914 min Scan# 14
Delta R.T. -0.021 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:164 Resp: 447

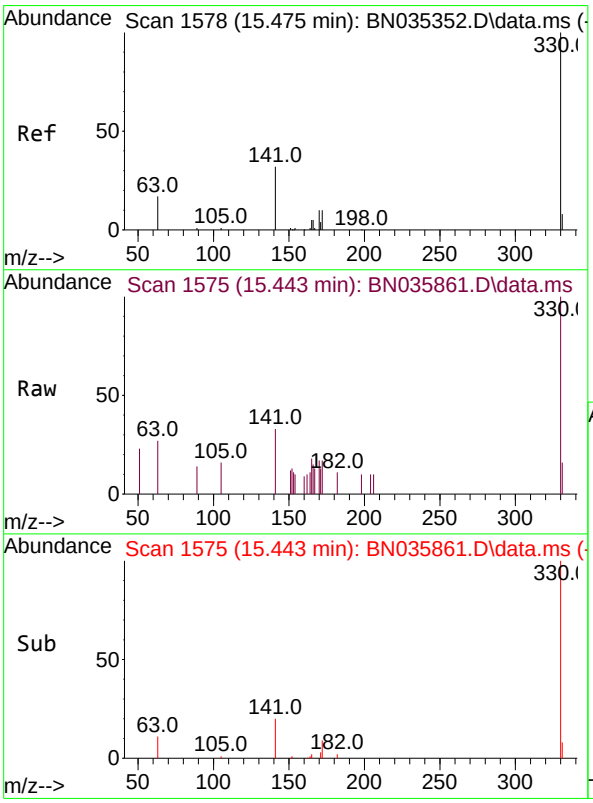
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 104.0 | 82.2 | 123.2 |
| 160 | 52.3 | 40.1 | 60.1 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations**
**APPROVED**

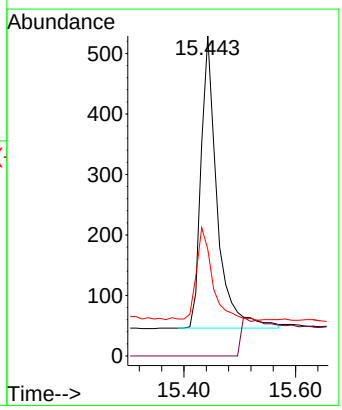
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

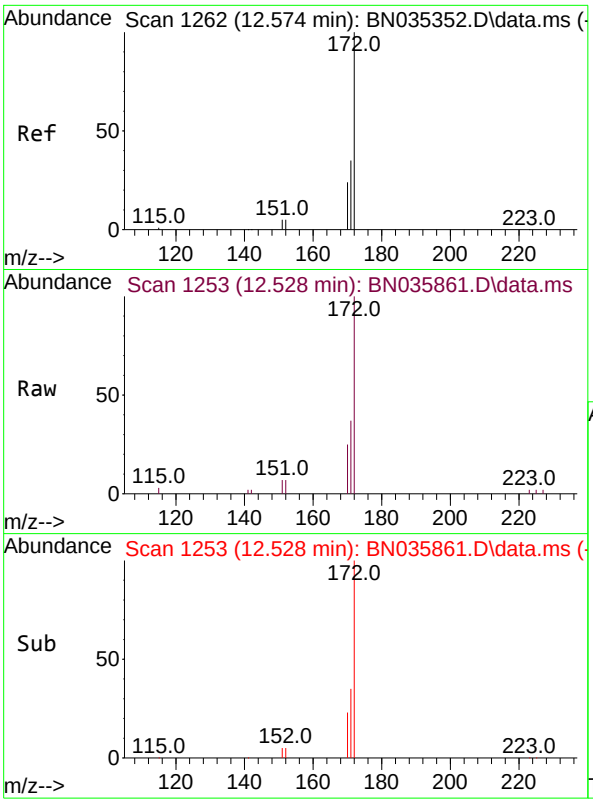



#14
2,4,6-Tribromophenol
Concen: 0.318 ng
RT: 15.443 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:330 Resp: 1008

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 0.0 | 0.0 | 0.0 |
| 141 | 30.5 | 26.6 | 40.0 |

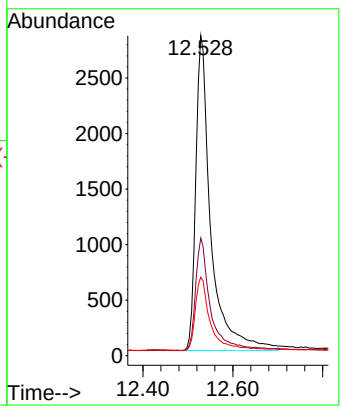





#15
2-Fluorobiphenyl
Concen: 0.392 ng
RT: 12.528 min Scan# 1
Delta R.T. -0.015 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:172 Resp: 661

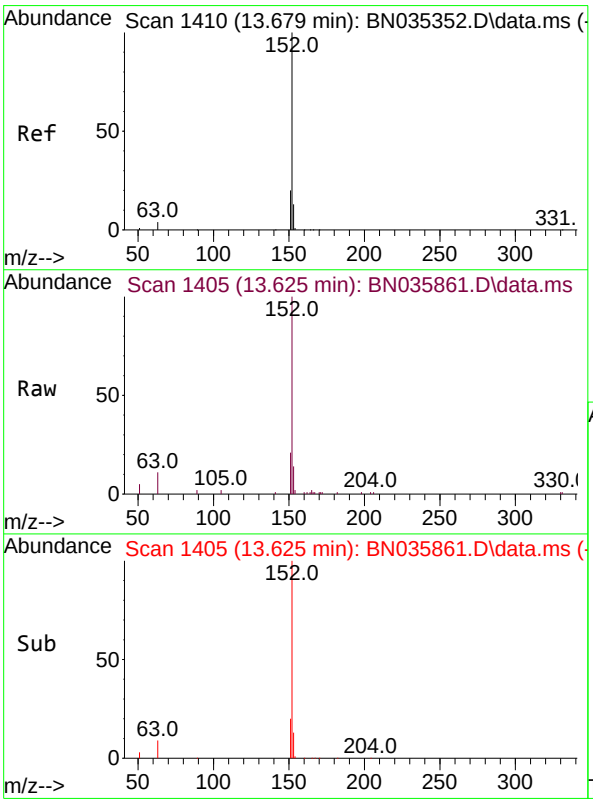
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 36.8 | 29.0 | 43.4 |
| 170 | 24.5 | 19.8 | 29.8 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations**
**APPROVED**

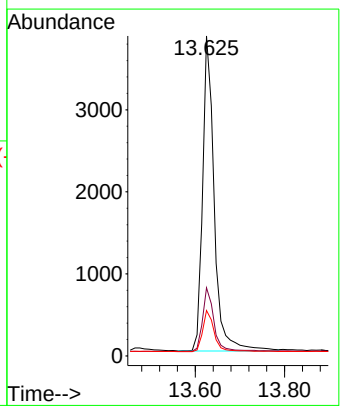
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

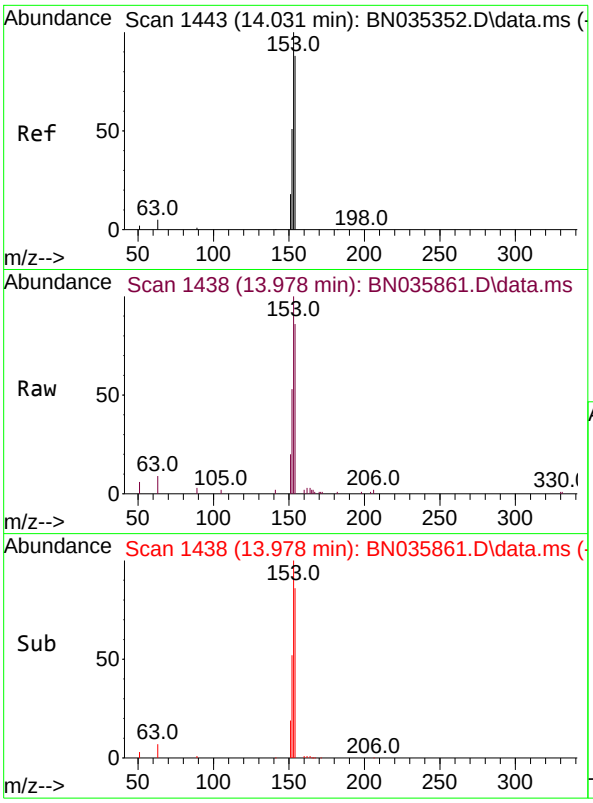



#16
Acenaphthylene
Concen: 0.369 ng
RT: 13.625 min Scan# 1405
Delta R.T. -0.021 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:152 Resp: 6923

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.1 | 16.2 | 24.2 |
| 153 | 13.0 | 10.4 | 15.6 |

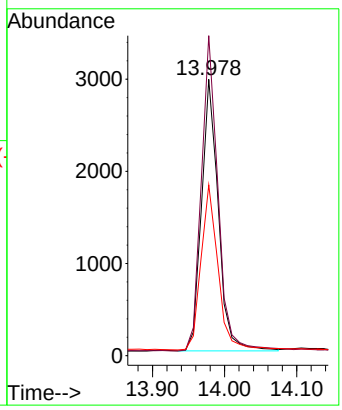





#17
Acenaphthene
Concen: 0.383 ng
RT: 13.978 min Scan# 14
Delta R.T. -0.021 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:154 Resp: 477(

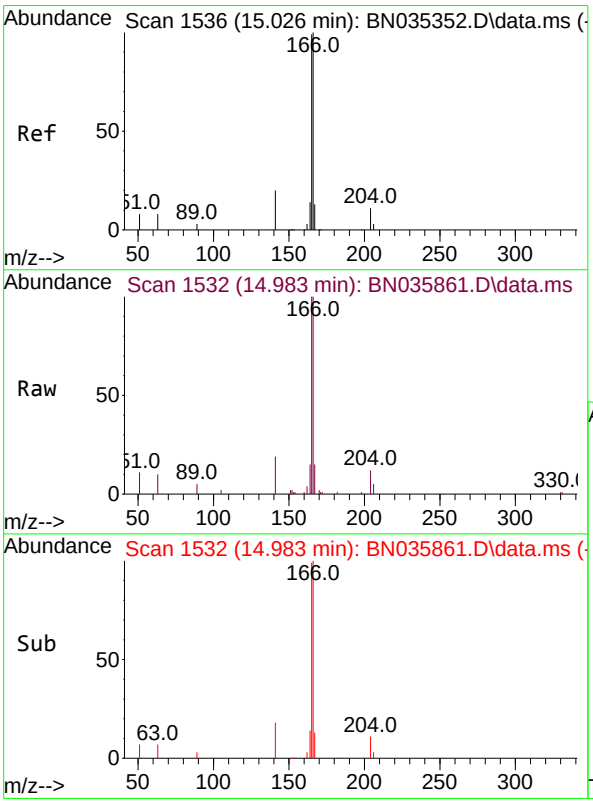
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 116.3 | 92.6 | 139.0 |
| 152 | 62.6 | 49.0 | 73.6 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations**
**APPROVED**

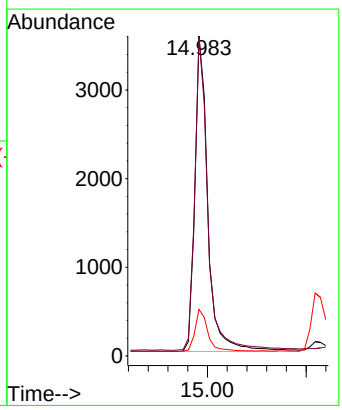
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

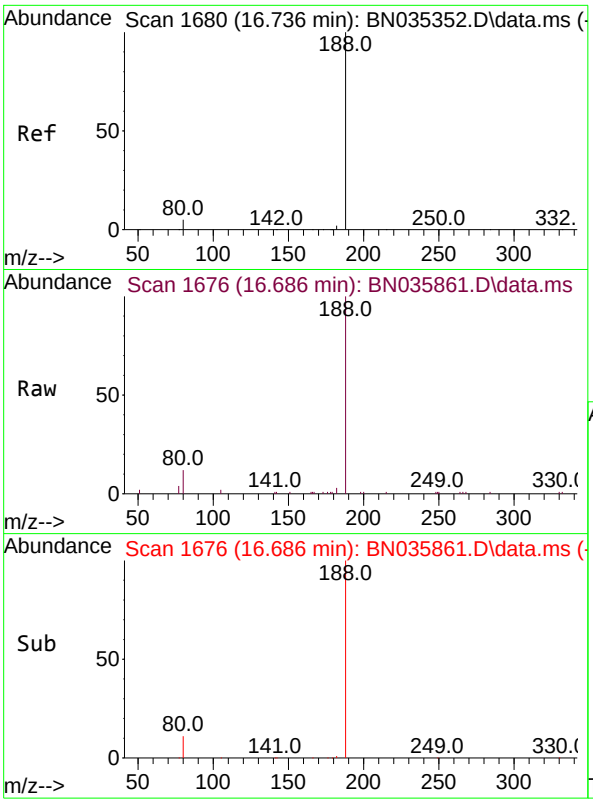



#18
Fluorene
Concen: 0.363 ng
RT: 14.983 min Scan# 1532
Delta R.T. -0.021 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:166 Resp: 6478

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 98.7 | 79.7 | 119.5 |
| 167 | 13.6 | 10.8 | 16.2 |

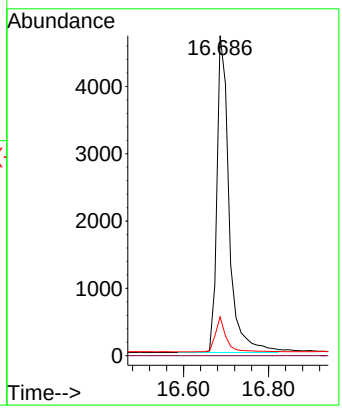





#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.686 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

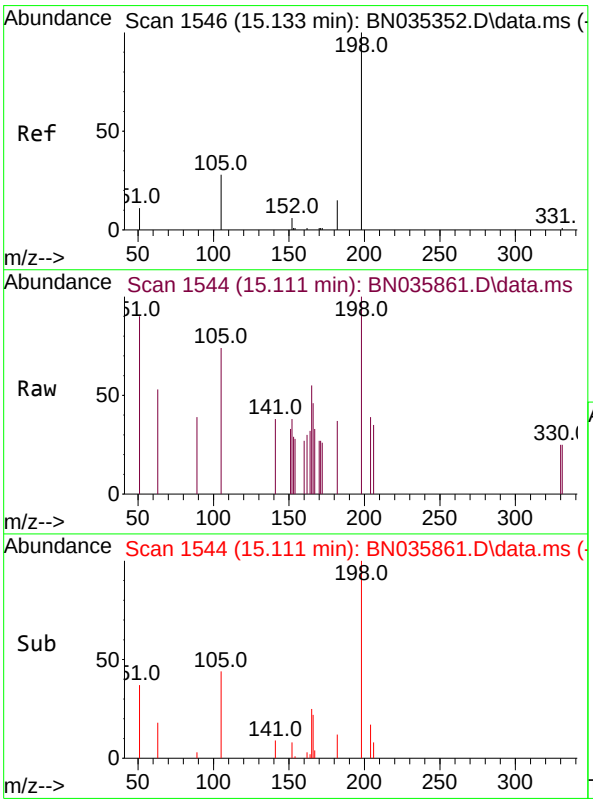
Tgt Ion:188 Resp: 937

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 12.1 | 4.6 | 6.8# |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

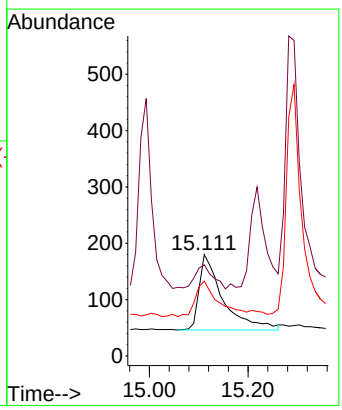
**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

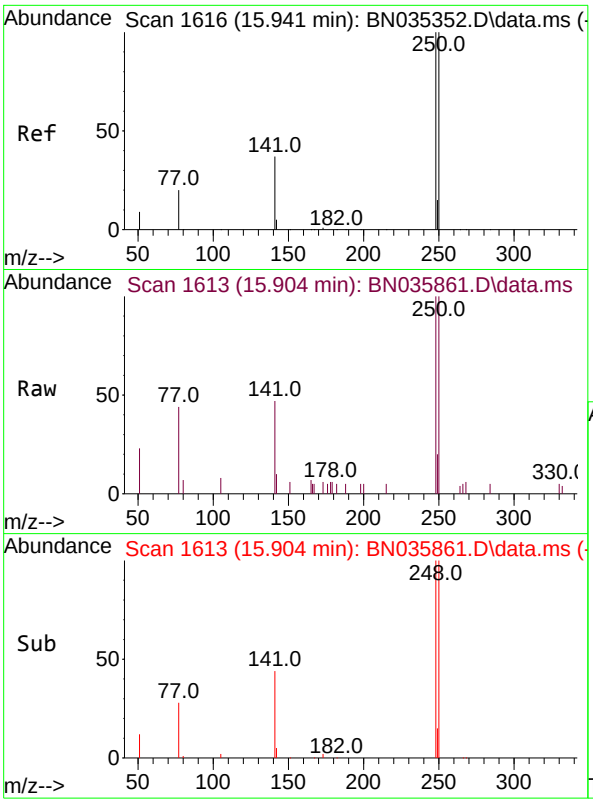



#20
4,6-Dinitro-2-methylphenol
Concen: 0.492 ng
RT: 15.111 min Scan# 1544
Delta R.T. -0.011 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:198 Resp: 453

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 198 | 100 | | |
| 51 | 90.0 | 46.5 | 69.7# |
| 105 | 73.9 | 45.3 | 67.9# |

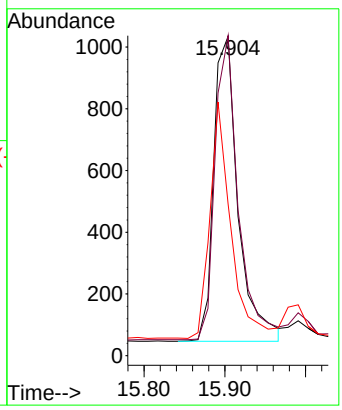





#21
4-Bromophenyl-phenylether
Concen: 0.378 ng
RT: 15.904 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:248 Resp: 207

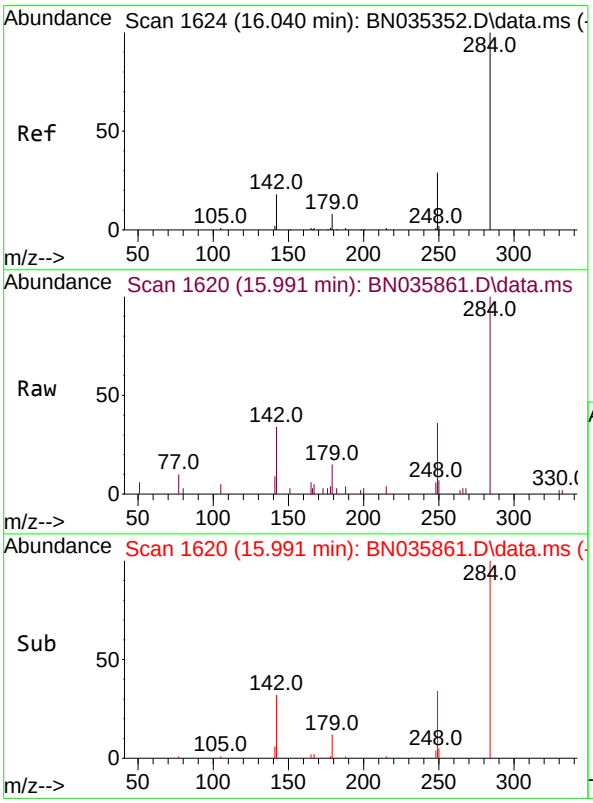
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 100.2 | 80.6 | 120.8 |
| 141 | 47.4 | 31.5 | 47.3 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations**
**APPROVED**

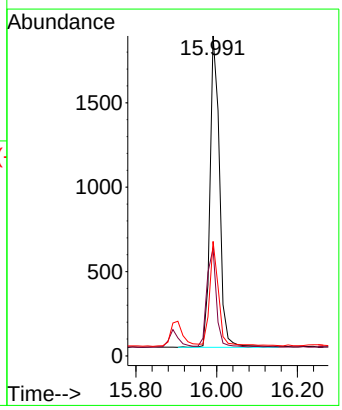
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

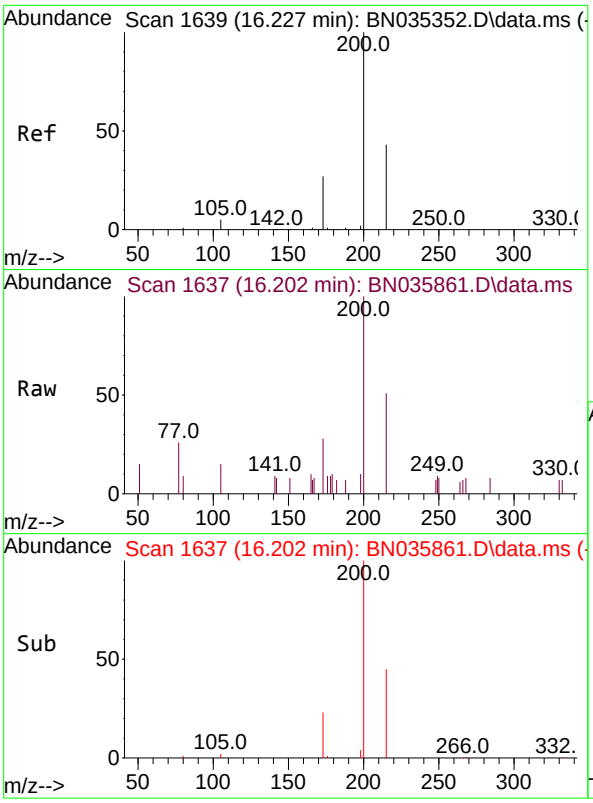



#22
Hexachlorobenzene
Concen: 0.468 ng
RT: 15.991 min Scan# 1620
Delta R.T. -0.025 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:284 Resp: 3015

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 31.5 | 26.7 | 40.1 |
| 249 | 31.2 | 24.6 | 36.8 |

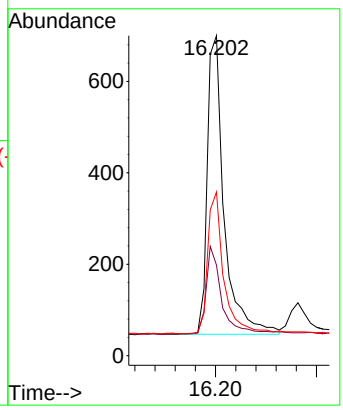





#23
Atrazine
Concen: 0.386 ng
RT: 16.202 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:200 Resp: 150

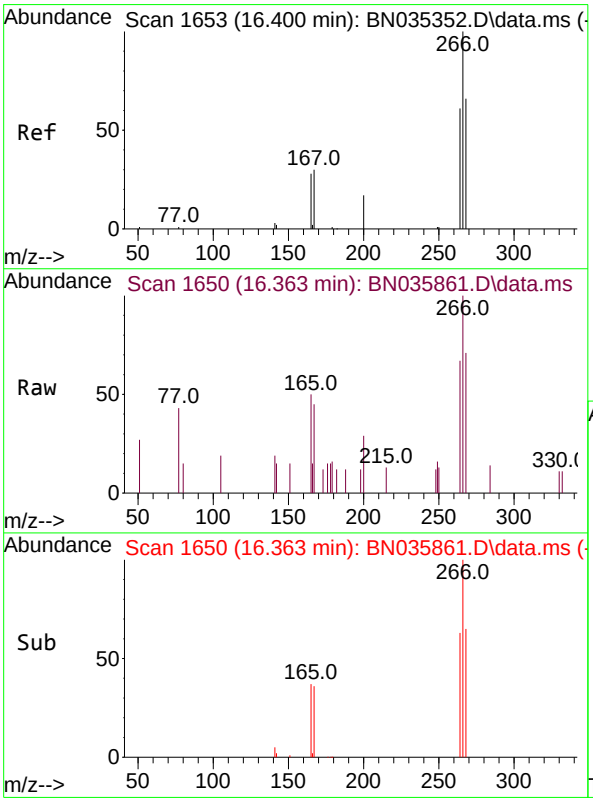
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 173 | 28.3 | 24.1 | 36.1 |
| 215 | 51.1 | 36.9 | 55.3 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations**
**APPROVED**

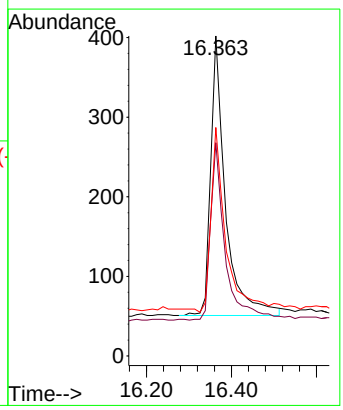
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

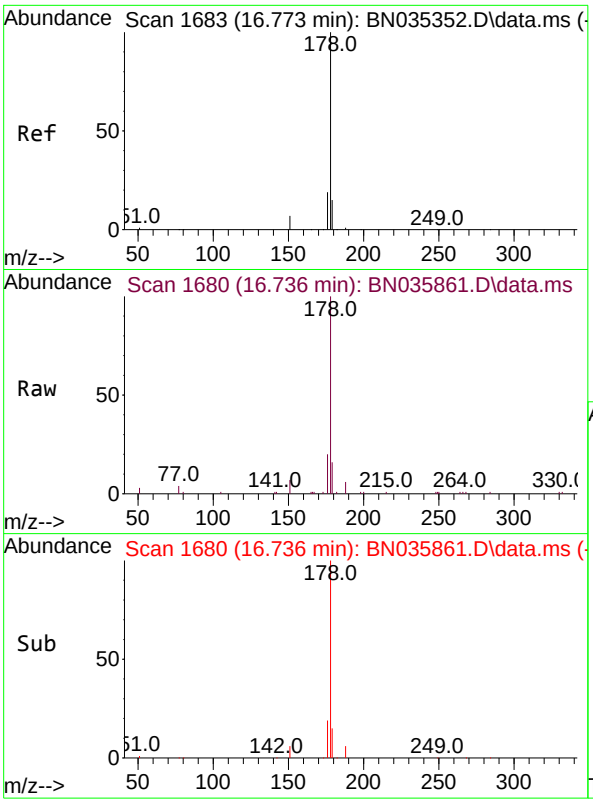



#24
Pentachlorophenol
Concen: 0.302 ng
RT: 16.363 min Scan# 1650
Delta R.T. -0.012 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:266 Resp: 846

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 264 | 62.3 | 42.3 | 63.5 |
| 268 | 67.7 | 43.3 | 64.9# |

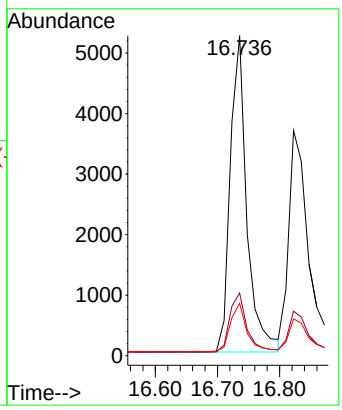





#25
Phenanthrene
Concen: 0.377 ng
RT: 16.736 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:178 Resp: 969

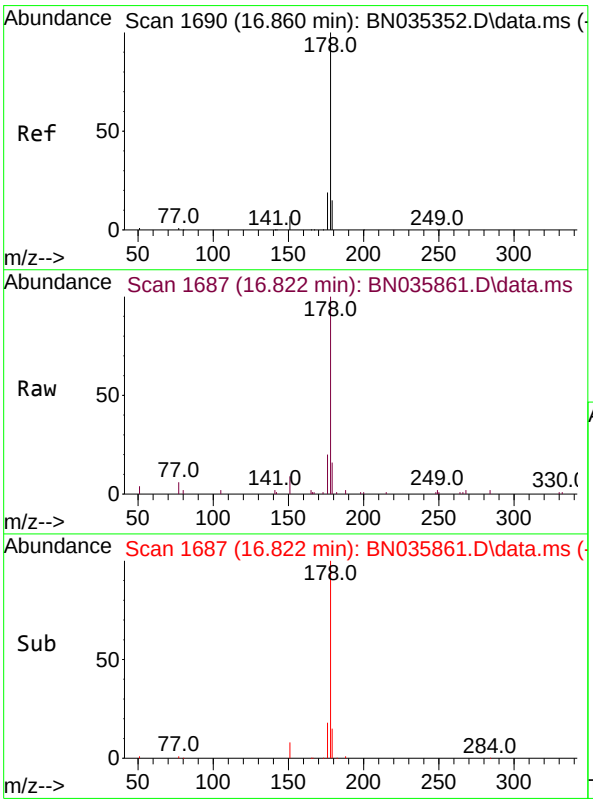
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.5 | 15.4 | 23.2 |
| 179 | 15.3 | 12.3 | 18.5 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations**
**APPROVED**

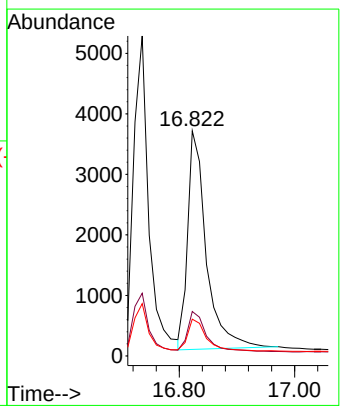
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

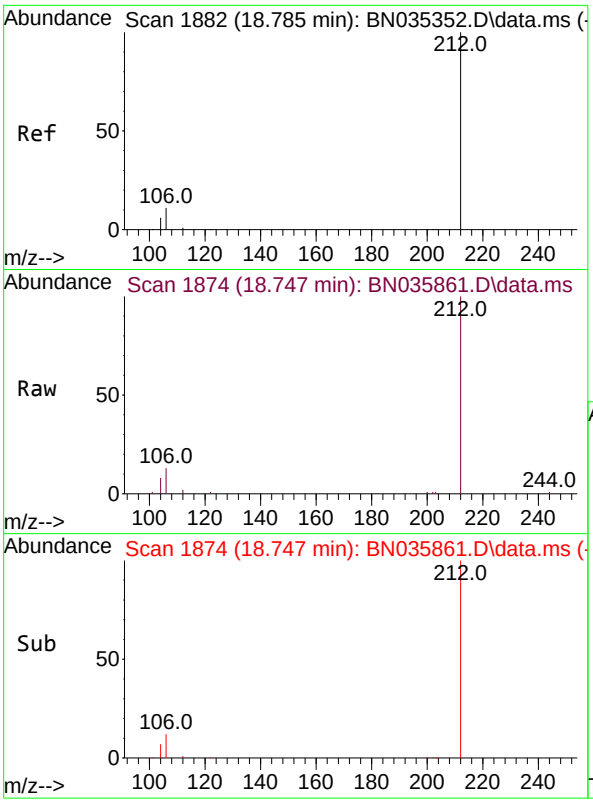



#26
Anthracene
Concen: 0.348 ng
RT: 16.822 min Scan# 1687
Delta R.T. -0.012 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:178 Resp: 8100

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.6 | 15.0 | 22.6 |
| 179 | 15.3 | 12.6 | 18.8 |

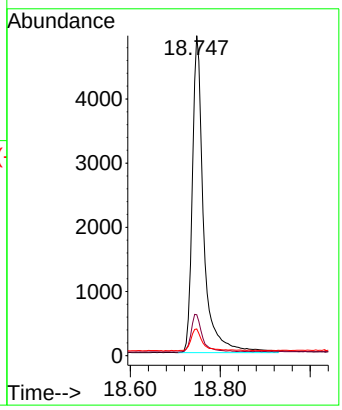





#27
Fluoranthene-d10
Concen: 0.325 ng
RT: 18.747 min Scan# 1
Delta R.T. -0.014 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:212 Resp: 864

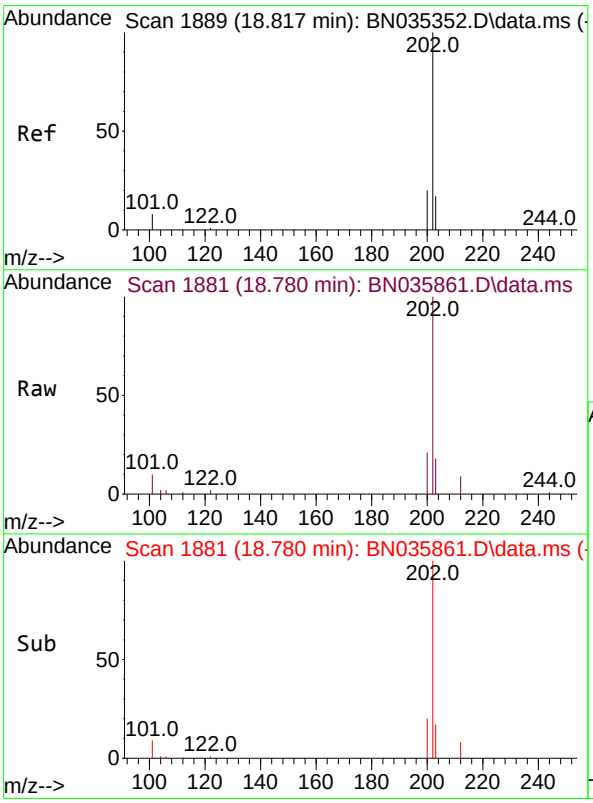
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 11.7 | 9.2 | 13.8 |
| 104 | 7.0 | 5.3 | 7.9 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations**
**APPROVED**

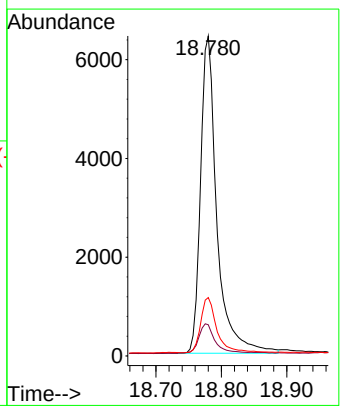
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

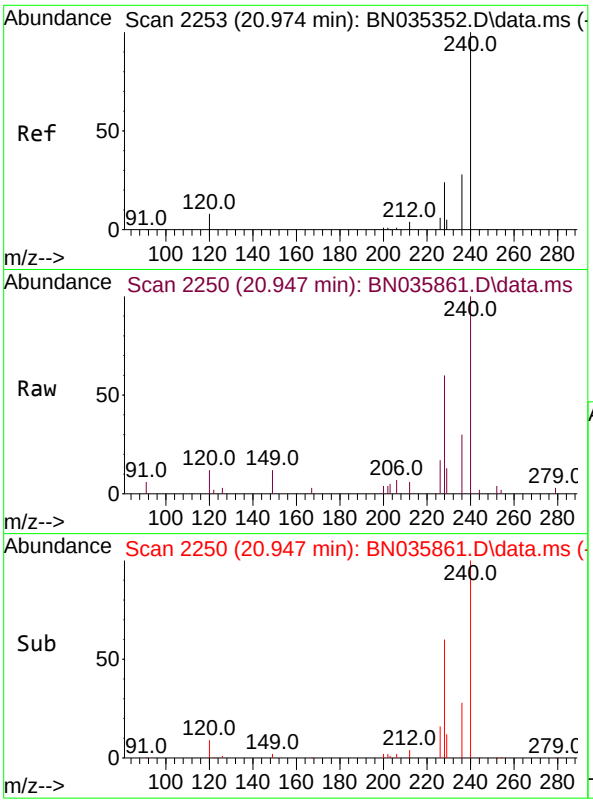



#28
Fluoranthene
Concen: 0.321 ng
RT: 18.780 min Scan# 1881
Delta R.T. -0.009 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:202 Resp: 11145

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 9.7 | 7.4 | 11.0 |
| 203 | 17.4 | 13.7 | 20.5 |

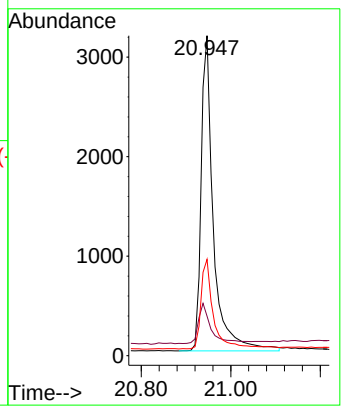





#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:240 Resp: 602

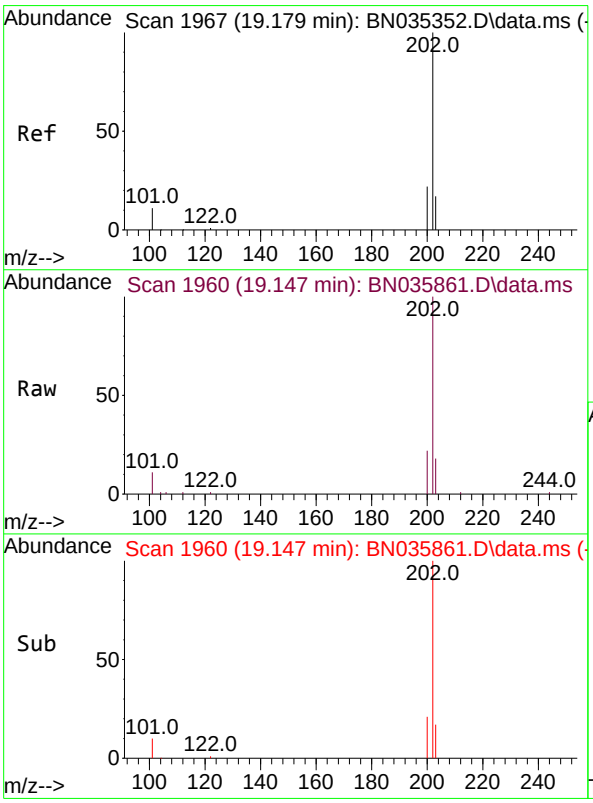
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 12.3 | 7.9 | 11.9 |
| 236 | 30.1 | 22.9 | 34.3 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations APPROVED**

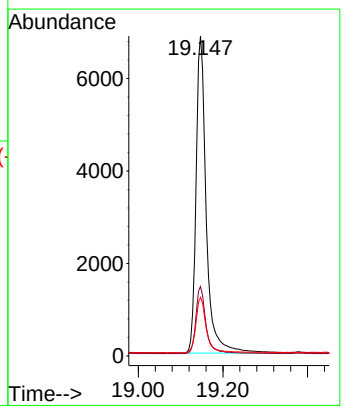
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

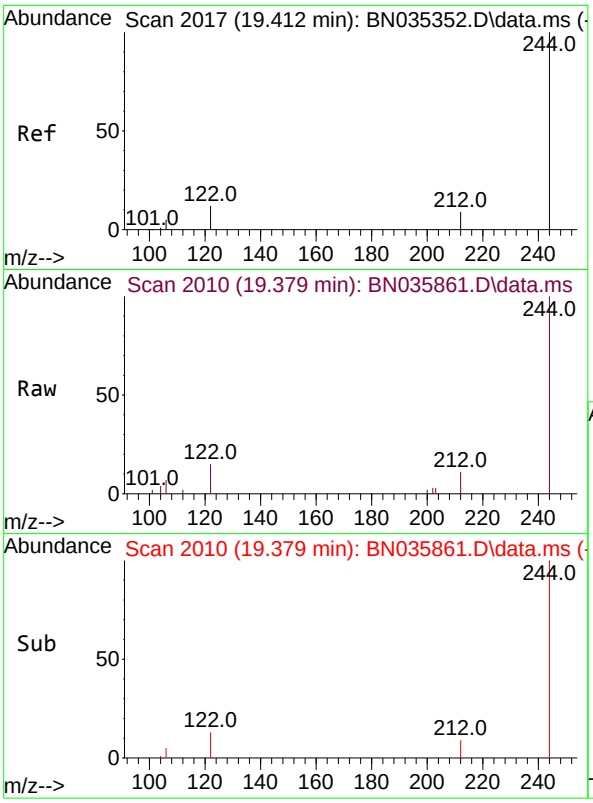



#30
Pyrene
Concen: 0.517 ng
RT: 19.147 min Scan# 1960
Delta R.T. -0.014 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:202 Resp: 11492

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 20.8 | 17.0 | 25.4 |
| 203 | 18.0 | 14.3 | 21.5 |

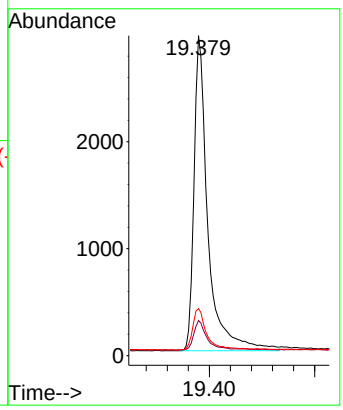





#31
Terphenyl-d14
Concen: 0.455 ng
RT: 19.379 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:244 Resp: 540

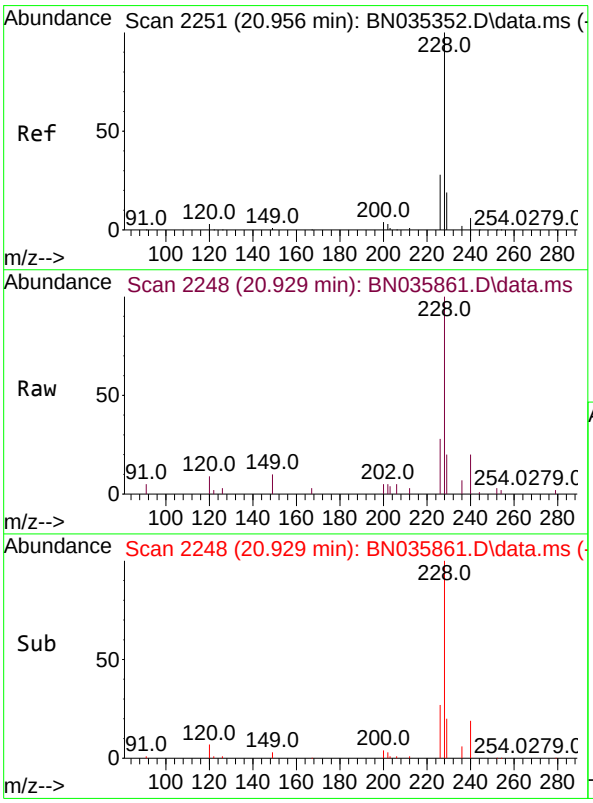
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 11.0 | 8.1 | 12.1 |
| 122 | 14.7 | 10.3 | 15.5 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations APPROVED**

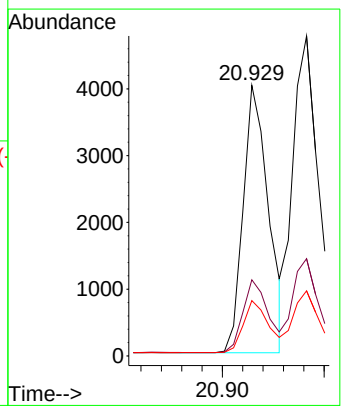
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

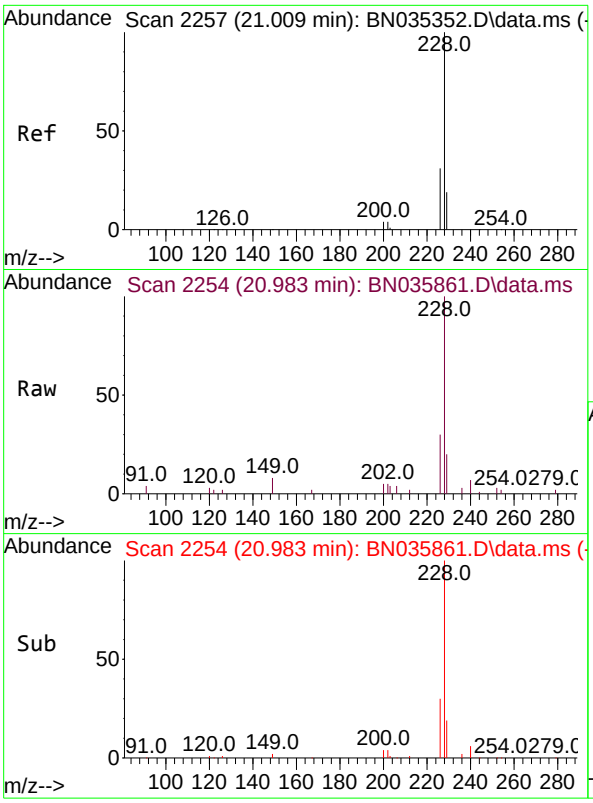



#32
Benzo(a)anthracene
Concen: 0.328 ng
RT: 20.929 min Scan# 2248
Delta R.T. -0.009 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:228 Resp: 6901

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 28.1 | 22.5 | 33.7 |
| 229 | 20.5 | 15.8 | 23.8 |

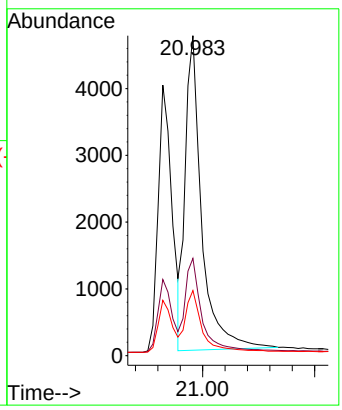





#33
Chrysene
Concen: 0.441 ng
RT: 20.983 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:228 Resp: 957

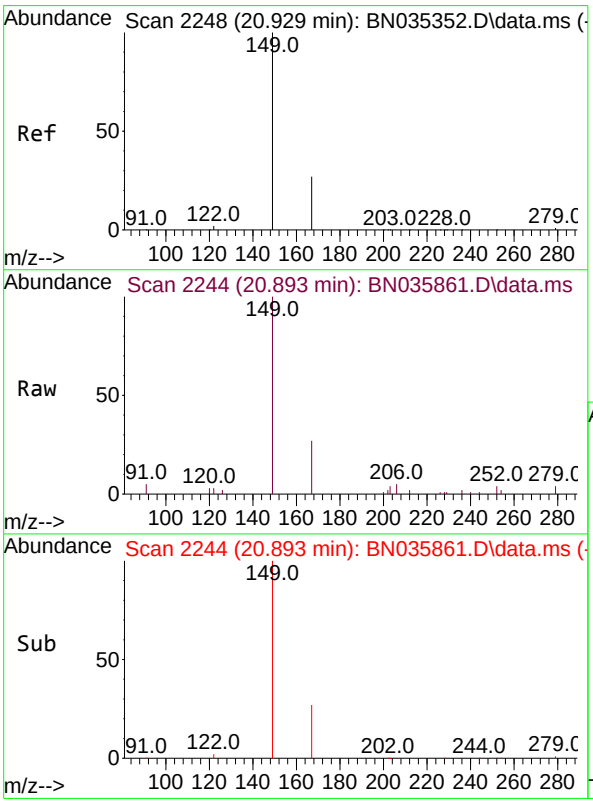
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 30.4 | 24.6 | 37.0 |
| 229 | 20.3 | 15.9 | 23.9 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations**
**APPROVED**

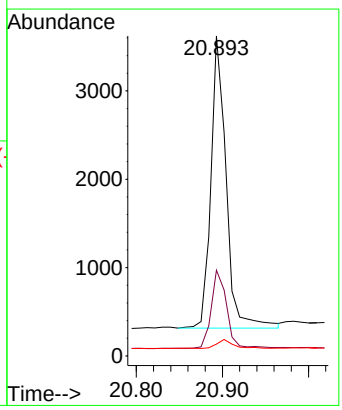
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

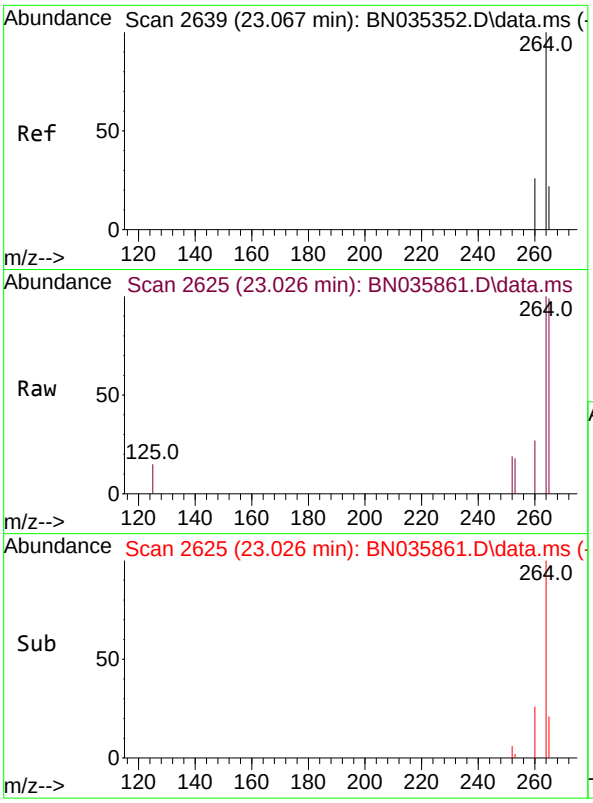



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.489 ng
RT: 20.893 min Scan# 2244
Delta R.T. -0.018 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:149 Resp: 4069

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 27.2 | 22.2 | 33.4 |
| 279 | 3.2 | 2.7 | 4.1 |

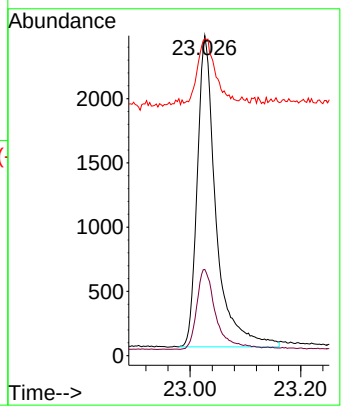





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.026 min Scan# 2
Delta R.T. -0.015 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:264 Resp: 569

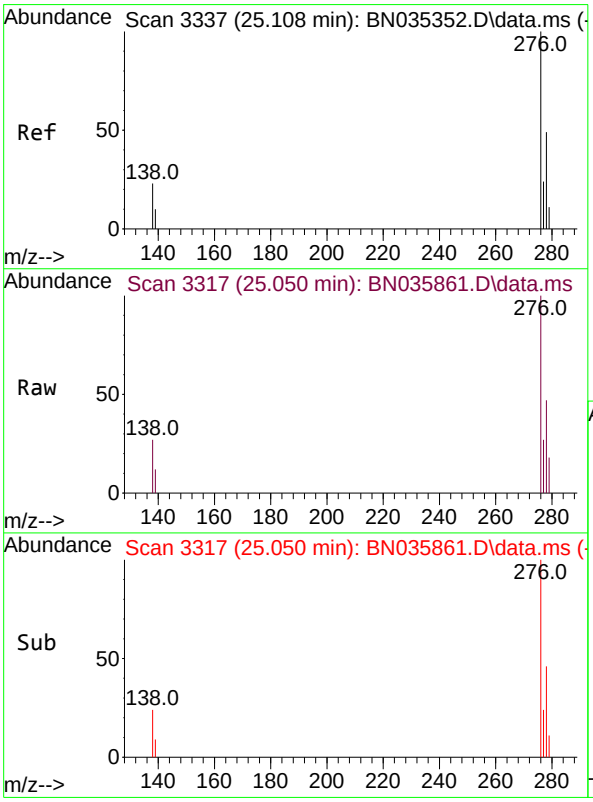
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 26.9 | 21.4 | 32.2 |
| 265 | 99.1 | 40.2 | 60.4 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations**
**APPROVED**

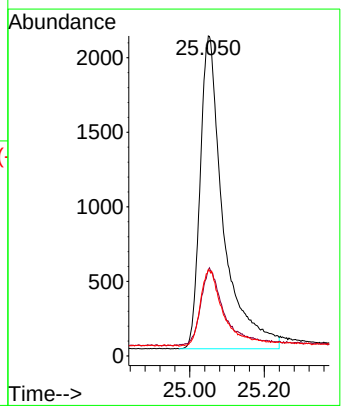
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

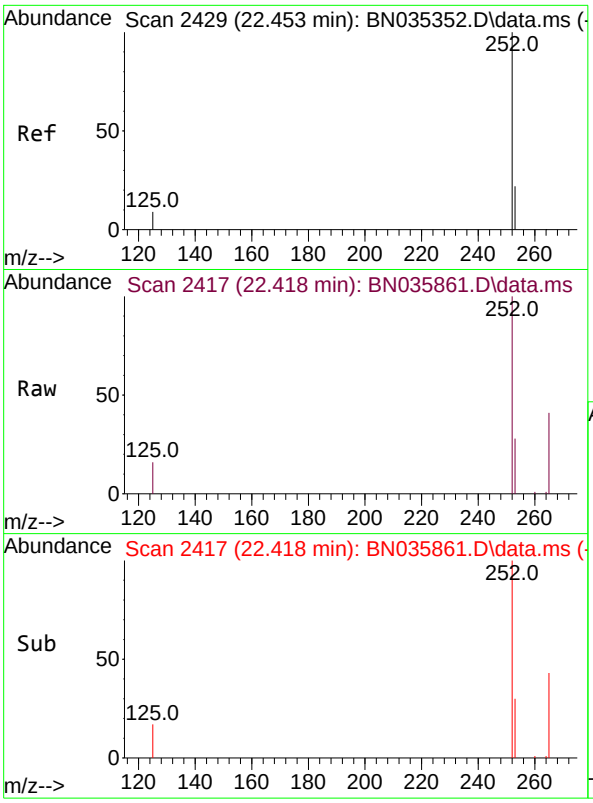



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.405 ng
RT: 25.050 min Scan# 3317
Delta R.T. -0.018 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:276 Resp: 9030

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 24.8 | 19.4 | 29.0 |
| 277 | 23.4 | 19.8 | 29.6 |

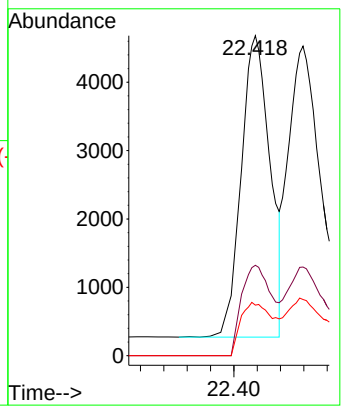





#37
Benzo(b)fluoranthene
Concen: 0.566 ng
RT: 22.418 min Scan# 24
Delta R.T. -0.012 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:252 Resp: 1180

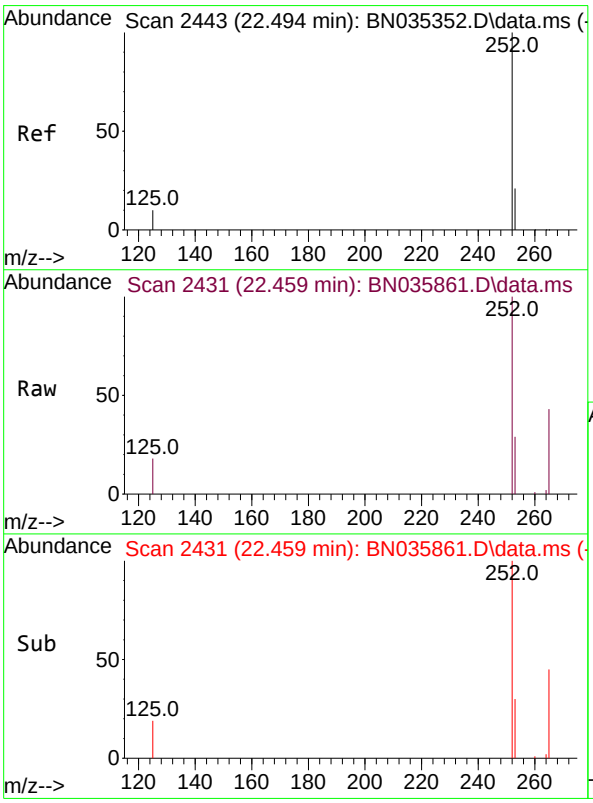
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 28.3 | 19.6 | 29.4 |
| 125 | 15.8 | 9.6 | 14.4# |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations APPROVED**

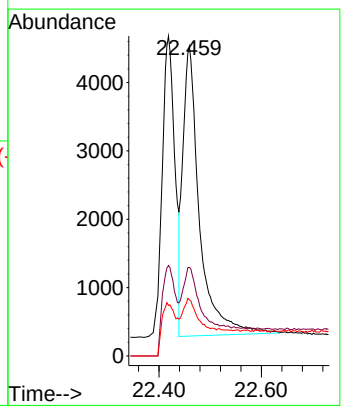
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

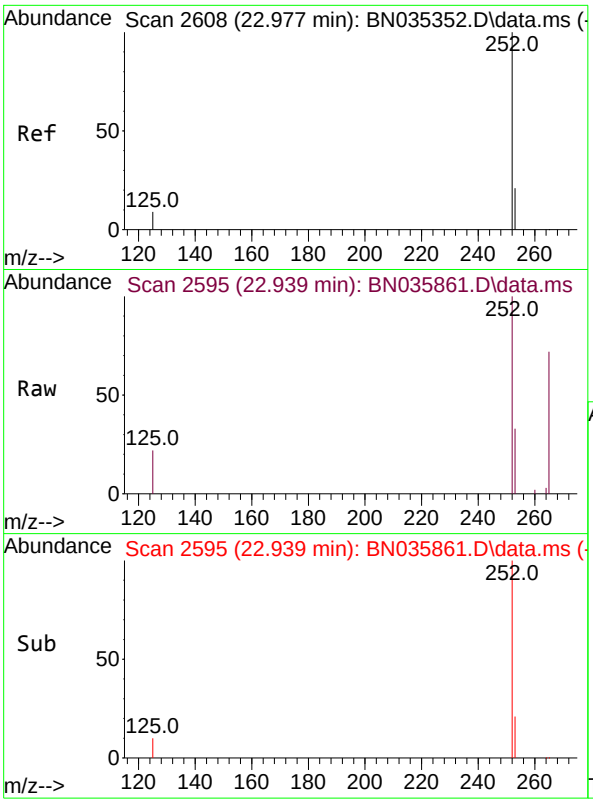



#38
Benzo(k)fluoranthene
Concen: 0.470 ng
RT: 22.459 min Scan# 2431
Delta R.T. -0.012 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:252 Resp: 9638

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 28.6 | 19.5 | 29.3 |
| 125 | 18.2 | 10.2 | 15.4# |

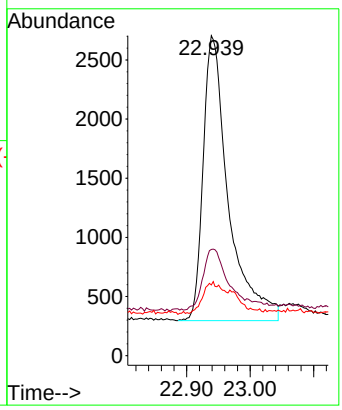





#39
Benzo(a)pyrene
Concen: 0.387 ng
RT: 22.939 min Scan# 2
Delta R.T. -0.012 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:252 Resp: 664

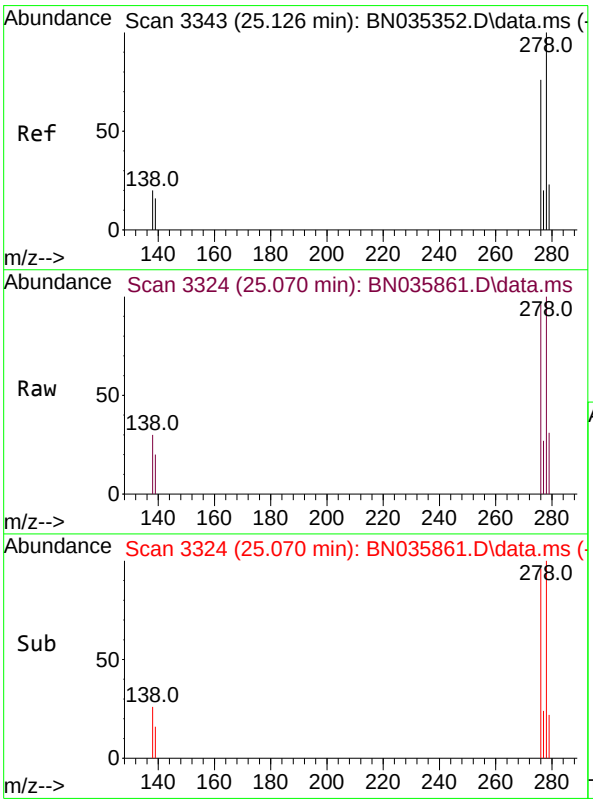
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 33.2 | 20.2 | 30.4# |
| 125 | 22.1 | 10.9 | 16.3# |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations APPROVED**

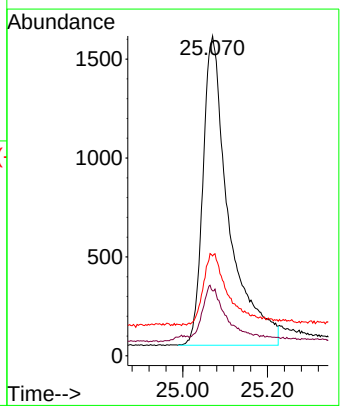
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

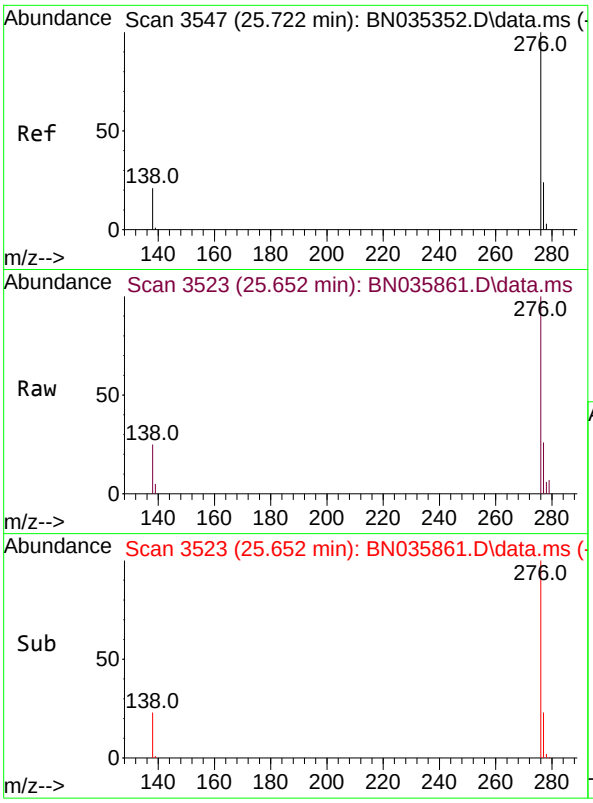



#40
Dibenzo(a,h)anthracene
Concen: 0.377 ng
RT: 25.070 min Scan# 3324
Delta R.T. -0.012 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:278 Resp: 6633

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 20.3 | 14.2 | 21.4 |
| 279 | 31.2 | 20.5 | 30.7# |

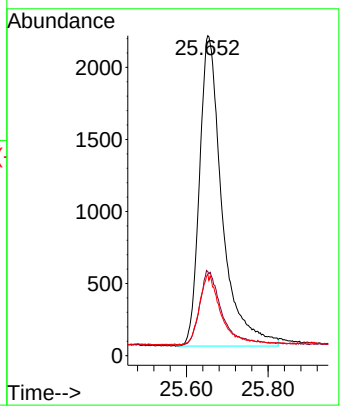





#41
Benzo(g,h,i)perylene
Concen: 0.452 ng
RT: 25.652 min Scan# 3
Delta R.T. -0.026 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:276 Resp: 830

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 26.3 | 19.9 | 29.9 |
| 138 | 25.5 | 17.8 | 26.8 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
Data File : BN035861.D
Acq On : 26 Dec 2024 19:41
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
BNA_N
**LabSampleId :**
SSTDCCC0.4

Quant Time: Dec 27 00:42:36 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 151# | -0.01 |
| 2 | | 1,4-Dioxane | 0.382 | 0.394 | -3.1 | 158# | 0.00 |
| 3 | | n-Nitrosodimethylamine | 0.319 | 0.331 | -3.8 | 153# | 0.00 |
| 4 | S | 2-Fluorophenol | 1.001 | 0.931 | 7.0 | 138 | -0.01 |
| 5 | S | Phenol-d6 | 1.204 | 1.022 | 15.1 | 129 | -0.02 |
| 6 | | bis(2-Chloroethyl)ether | 1.012 | 0.883 | 12.7 | 134 | -0.02 |
| 7 | I | Naphthalene-d8 | 1.000 | 1.000 | 0.0 | 138 | -0.02 |
| 8 | S | Nitrobenzene-d5 | 0.244 | 0.306 | -25.4# | 180# | -0.01 |
| 9 | | Naphthalene | 1.055 | 1.038 | 1.6 | 137 | -0.01 |
| 10 | | Hexachlorobutadiene | 0.243 | 0.275 | -13.2 | 154# | -0.02 |
| 11 | SURR | 2-Methylnaphthalene-d10 | 0.626 | 0.551 | 12.0 | 123 | -0.02 |
| 12 | | 2-Methylnaphthalene | 0.755 | 0.655 | 13.2 | 123 | -0.02 |
| 13 | I | Acenaphthene-d10 | 1.000 | 1.000 | 0.0 | 118 | -0.02 |
| 14 | S | 2,4,6-Tribromophenol | 0.284 | 0.225 | 20.8 | 103 | -0.01 |
| 15 | S | 2-Fluorobiphenyl | 1.512 | 1.480 | 2.1 | 115 | -0.02 |
| 16 | | Acenaphthylene | 1.680 | 1.548 | 7.9 | 114 | -0.02 |
| 17 | | Acenaphthene | 1.115 | 1.068 | 4.2 | 116 | -0.02 |
| 18 | | Fluorene | 1.596 | 1.449 | 9.2 | 110 | -0.02 |
| 19 | I | Phenanthrene-d10 | 1.000 | 1.000 | 0.0 | 99 | -0.01 |
| 20 | | 4,6-Dinitro-2-methylphenol | 0.039 | 0.048 | -23.1 | 134 | -0.01 |
| 21 | | 4-Bromophenyl-phenylether | 0.234 | 0.221 | 5.6 | 97 | -0.01 |
| 22 | | Hexachlorobenzene | 0.275 | 0.322 | -17.1 | 116 | -0.02 |
| 23 | | Atrazine | 0.167 | 0.161 | 3.6 | 103 | 0.00 |
| 24 | | Pentachlorophenol | 0.120 | 0.090 | 25.0 | 93 | -0.01 |
| 25 | | Phenanthrene | 1.099 | 1.035 | 5.8 | 96 | -0.01 |
| 26 | | Anthracene | 0.994 | 0.864 | 13.1 | 91 | -0.01 |
| 27 | SURR | Fluoranthene-d10 | 1.134 | 0.922 | 18.7 | 85 | -0.01 |
| 28 | | Fluoranthene | 1.481 | 1.189 | 19.7 | 83 | 0.00 |
| 29 | I | Chrysene-d12 | 1.000 | 1.000 | 0.0 | 63 | 0.00 |
| 30 | | Pyrene | 1.477 | 1.909 | -29.2# | 82 | -0.01 |
| 31 | S | Terphenyl-d14 | 0.789 | 0.898 | -13.8 | 72 | 0.00 |
| 32 | | Benzo(a)anthracene | 1.399 | 1.146 | 18.1 | 53 | 0.00 |
| 33 | | Chrysene | 1.443 | 1.591 | -10.3 | 70 | 0.00 |
| 34 | | Bis(2-ethylhexyl)phthalate | 0.553 | 0.676 | -22.2 | 83 | -0.02 |
| 35 | I | Perylene-d12 | 1.000 | 1.000 | 0.0 | 53 | -0.01 |
| 36 | | Indeno(1,2,3-cd)pyrene | 1.564 | 1.584 | -1.3 | 54 | -0.02 |
| 37 | | Benzo(b)fluoranthene | 1.463 | 2.071 | -41.6# | 83 | -0.01 |
| 38 | | Benzo(k)fluoranthene | 1.440 | 1.691 | -17.4 | 63 | -0.01 |
| 39 | C | Benzo(a)pyrene | 1.205 | 1.165 | 3.3 | 53 | -0.01 |
| 40 | | Dibenzo(a,h)anthracene | 1.234 | 1.164 | 5.7 | 51 | -0.01 |
| 41 | | Benzo(g,h,i)perylene | 1.289 | 1.456 | -13.0 | 61 | -0.03 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
Data File : BN035861.D
Acq On : 26 Dec 2024 19:41
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
BNA_N
**LabSampleId :**
SSTDCCC0.4

Quant Time: Dec 27 00:42:36 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | 1,4-Dichlorobenzene-d4 | 0.400 | 0.400 | 0.0 | 151 | -0.01 |
| 2 | | 1,4-Dioxane | 0.400 | 0.412 | -3.0 | 158 | 0.00 |
| 3 | | n-Nitrosodimethylamine | 0.400 | 0.415 | -3.7 | 153 | 0.00 |
| 4 | S | 2-Fluorophenol | 0.400 | 0.372 | 7.0 | 138 | -0.01 |
| 5 | S | Phenol-d6 | 0.400 | 0.340 | 15.0 | 129 | -0.02 |
| 6 | | bis(2-Chloroethyl)ether | 0.400 | 0.349 | 12.8 | 134 | -0.02 |
| 7 | I | Naphthalene-d8 | 0.400 | 0.400 | 0.0 | 138 | -0.02 |
| 8 | S | Nitrobenzene-d5 | 0.400 | 0.501 | -25.2# | 180 | -0.01 |
| 9 | | Naphthalene | 0.400 | 0.394 | 1.5 | 137 | -0.01 |
| 10 | | Hexachlorobutadiene | 0.400 | 0.452 | -13.0 | 154 | -0.02 |
| 11 | SURR | 2-Methylnaphthalene-d10 | 0.400 | 0.352 | 12.0 | 123 | -0.02 |
| 12 | | 2-Methylnaphthalene | 0.400 | 0.347 | 13.3 | 123 | -0.02 |
| 13 | I | Acenaphthene-d10 | 0.400 | 0.400 | 0.0 | 118 | -0.02 |
| 14 | S | 2,4,6-Tribromophenol | 0.400 | 0.318 | 20.5 | 103 | -0.01 |
| 15 | S | 2-Fluorobiphenyl | 0.400 | 0.392 | 2.0 | 115 | -0.02 |
| 16 | | Acenaphthylene | 0.400 | 0.369 | 7.8 | 114 | -0.02 |
| 17 | | Acenaphthene | 0.400 | 0.383 | 4.3 | 116 | -0.02 |
| 18 | | Fluorene | 0.400 | 0.363 | 9.3 | 110 | -0.02 |
| 19 | I | Phenanthrene-d10 | 0.400 | 0.400 | 0.0 | 99 | -0.01 |
| 20 | | 4,6-Dinitro-2-methylphenol | 0.400 | 0.492 | -23.0 | 134 | -0.01 |
| 21 | | 4-Bromophenyl-phenylether | 0.400 | 0.378 | 5.5 | 97 | -0.01 |
| 22 | | Hexachlorobenzene | 0.400 | 0.468 | -17.0 | 116 | -0.02 |
| 23 | | Atrazine | 0.400 | 0.386 | 3.5 | 103 | 0.00 |
| 24 | | Pentachlorophenol | 0.400 | 0.302 | 24.5 | 93 | -0.01 |
| 25 | | Phenanthrene | 0.400 | 0.377 | 5.8 | 96 | -0.01 |
| 26 | | Anthracene | 0.400 | 0.348 | 13.0 | 91 | -0.01 |
| 27 | SURR | Fluoranthene-d10 | 0.400 | 0.325 | 18.8 | 85 | -0.01 |
| 28 | | Fluoranthene | 0.400 | 0.321 | 19.8 | 83 | 0.00 |
| 29 | I | Chrysene-d12 | 0.400 | 0.400 | 0.0 | 63 | 0.00 |
| 30 | | Pyrene | 0.400 | 0.517 | -29.3# | 82 | -0.01 |
| 31 | S | Terphenyl-d14 | 0.400 | 0.455 | -13.7 | 72 | 0.00 |
| 32 | | Benzo(a)anthracene | 0.400 | 0.328 | 18.0 | 53 | 0.00 |
| 33 | | Chrysene | 0.400 | 0.441 | -10.2 | 70 | 0.00 |
| 34 | | Bis(2-ethylhexyl)phthalate | 0.400 | 0.489 | -22.2 | 83 | -0.02 |
| 35 | I | Perylene-d12 | 0.400 | 0.400 | 0.0 | 53 | -0.01 |
| 36 | | Indeno(1,2,3-cd)pyrene | 0.400 | 0.405 | -1.3 | 54 | -0.02 |
| 37 | | Benzo(b)fluoranthene | 0.400 | 0.566 | -41.5# | 83 | -0.01 |
| 38 | | Benzo(k)fluoranthene | 0.400 | 0.470 | -17.5 | 63 | -0.01 |
| 39 | C | Benzo(a)pyrene | 0.400 | 0.387 | 3.3 | 53 | -0.01 |
| 40 | | Dibenzo(a,h)anthracene | 0.400 | 0.377 | 5.8 | 51 | -0.01 |
| 41 | | Benzo(g,h,i)perylene | 0.400 | 0.452 | -13.0 | 61 | -0.03 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0

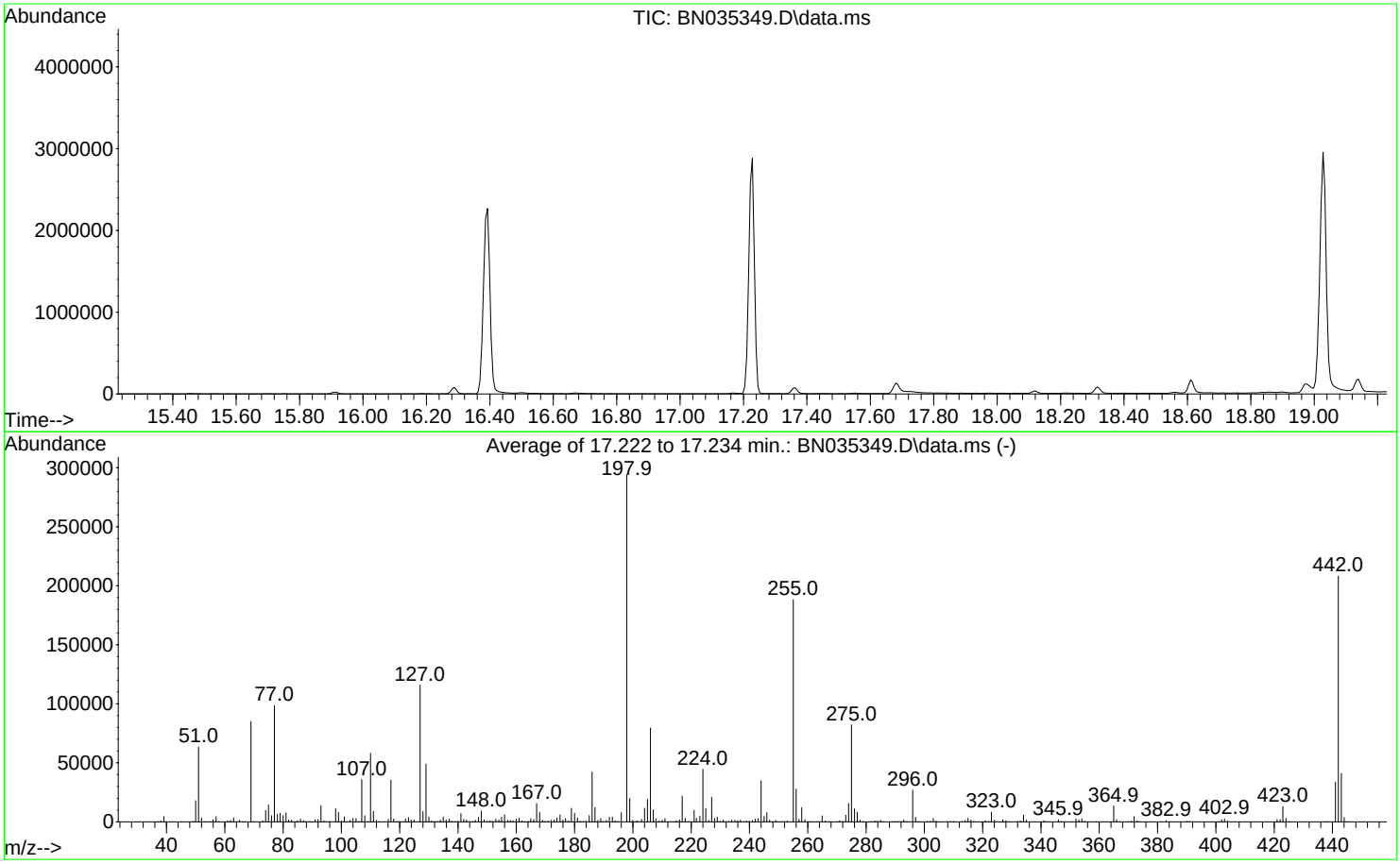
# QC SAMPLE DATA

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035349.D
Acq On : 27 Nov 2024 14:55
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Nov 27 23:03:24 2024



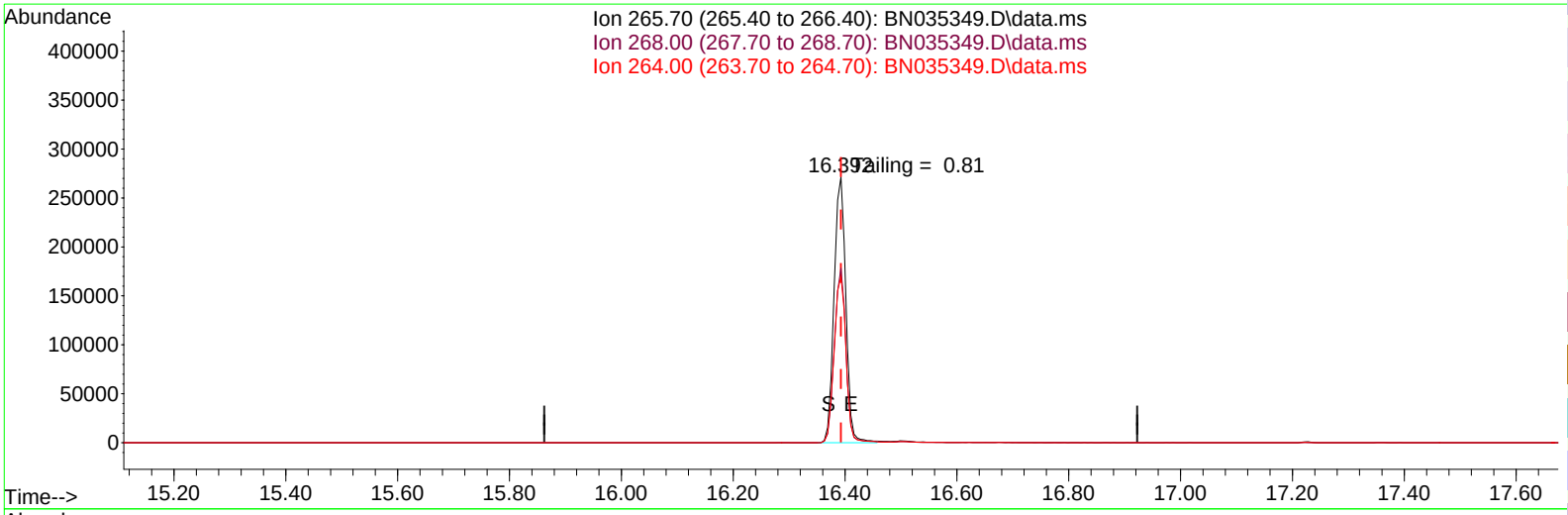

AutoFind: Scans 2437, 2438, 2439; Background Corrected with Scan 2430

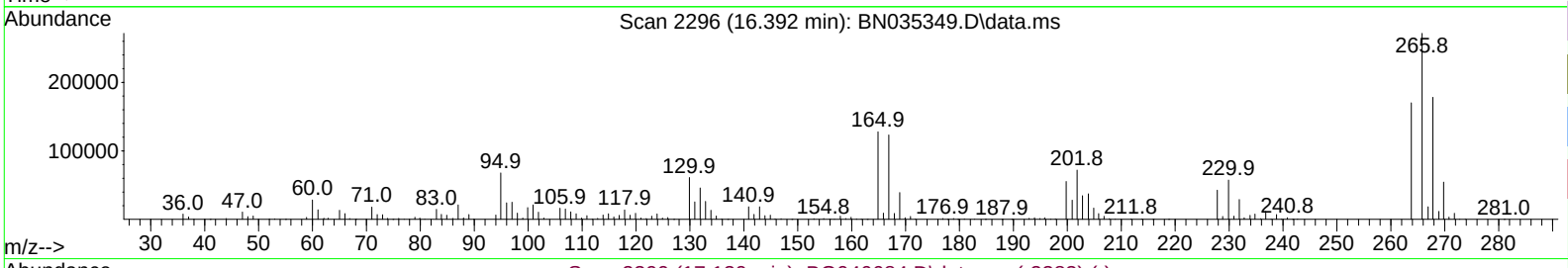
| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 51 | 198 | 10 | 80 | 21.6 | 63480 | PASS |
| 68 | 69 | 0.00 | 2 | 0.0 | 0 | PASS |
| 69 | 198 | 0.00 | 100 | 28.9 | 85062 | PASS |
| 70 | 69 | 0.00 | 2 | 0.4 | 303 | PASS |
| 127 | 198 | 10 | 80 | 39.4 | 115899 | PASS |
| 197 | 198 | 0.00 | 2 | 0.0 | 0 | PASS |
| 198 | 198 | 100 | 100 | 100.0 | 294229 | PASS |
| 199 | 198 | 5 | 9 | 6.7 | 19826 | PASS |
| 275 | 198 | 10 | 60 | 27.9 | 82149 | PASS |
| 365 | 198 | 1 | 100 | 4.6 | 13565 | PASS |
| 441 | 198 | 0.01 | 100 | 11.5 | 33811 | PASS |
| 442 | 442 | 50 | 100 | 100.0 | 208235 | PASS |
| 443 | 442 | 15 | 24 | 19.7 | 41045 | PASS |

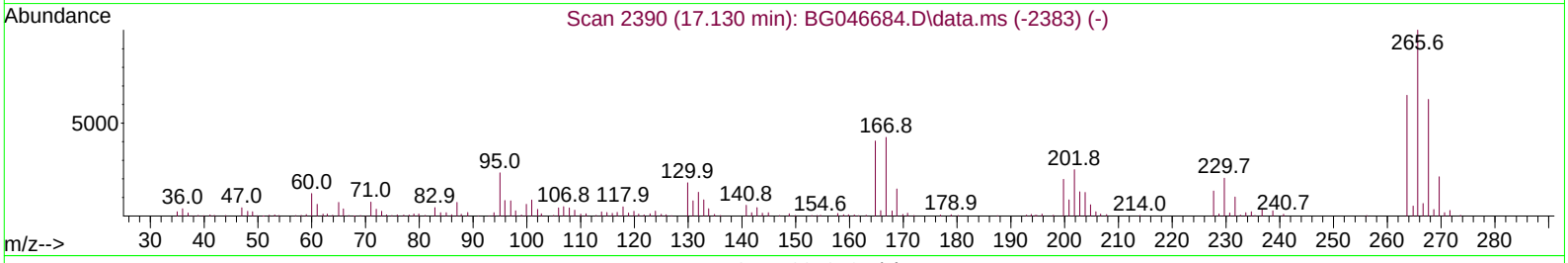
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035349.D
Acq On : 27 Nov 2024 14:55
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
DFTPP

Quant Time: Nov 28 04:07:39 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 28 04:07:30 2024
Response via : Initial Calibration




TIC: BN035349.D\data.ms

**(70) Pentachlorophenol (C)**

**16.392min ( 0.000) 27794.31 ng**

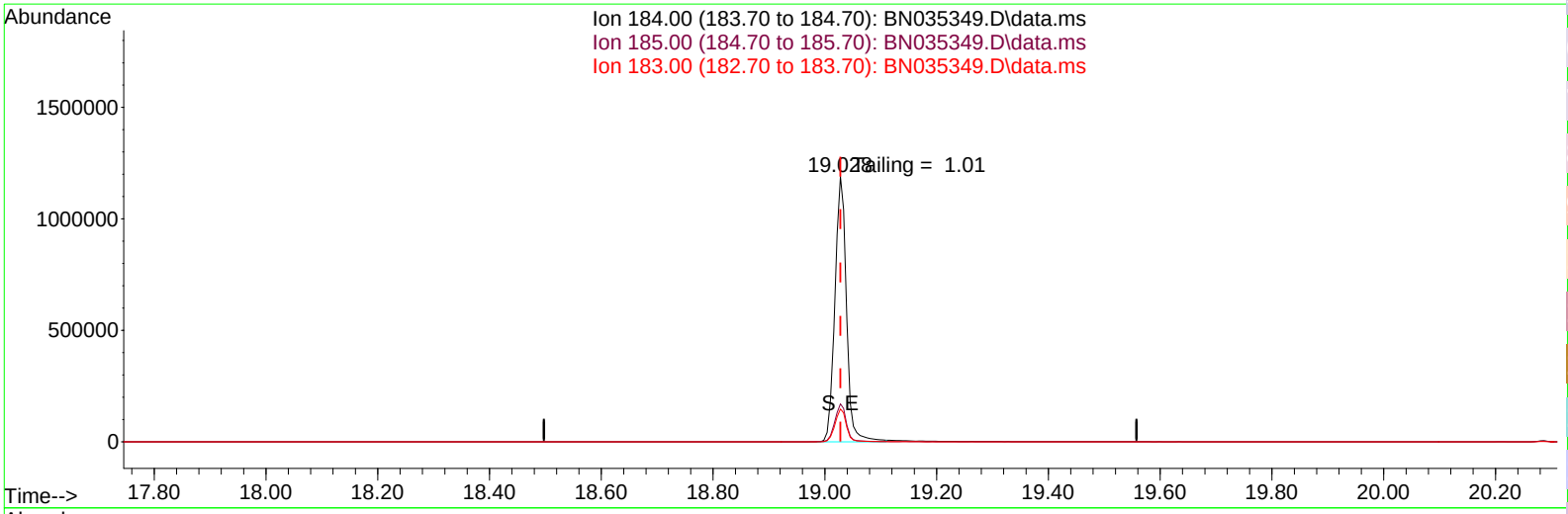
**response 398074**

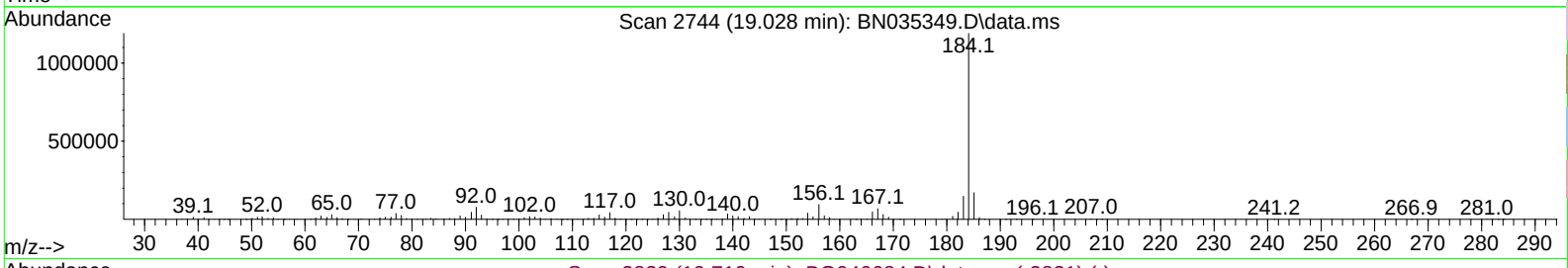
| Ion | Exp% | Act% |
|---|---|---|
| 265.70 | 100.00 | 100.00 |
| 268.00 | 62.20 | 65.68 |
| 264.00 | 61.60 | 62.66 |
| 0.00 | 0.00 | 0.00 |

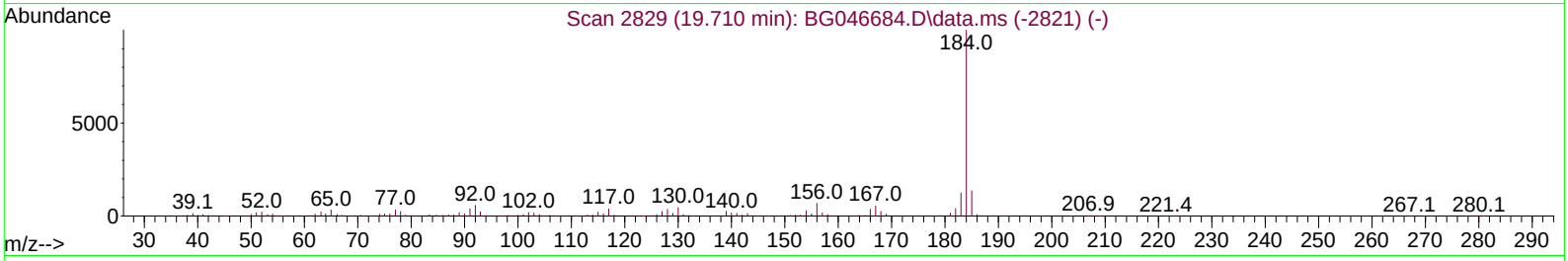
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035349.D
Acq On : 27 Nov 2024 14:55
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
DFTPP

Quant Time: Nov 28 04:07:39 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 28 04:07:30 2024
Response via : Initial Calibration




TIC: BN035349.D\data.ms

**(77) Benzidine**

**19.028min ( 0.000) 0.00 ng**

**response 1733630**

| Ion | Exp% | Act% |
|---|---|---|
| 184.00 | 100.00 | 100.00 |
| 185.00 | 15.50 | 14.34 |
| 183.00 | 13.20 | 12.42 |
| 0.00 | 0.00 | 0.00 |

**Instrument :**
BNA_N
**ClientSampleId :**
DFTPP

## DDT Breakdown

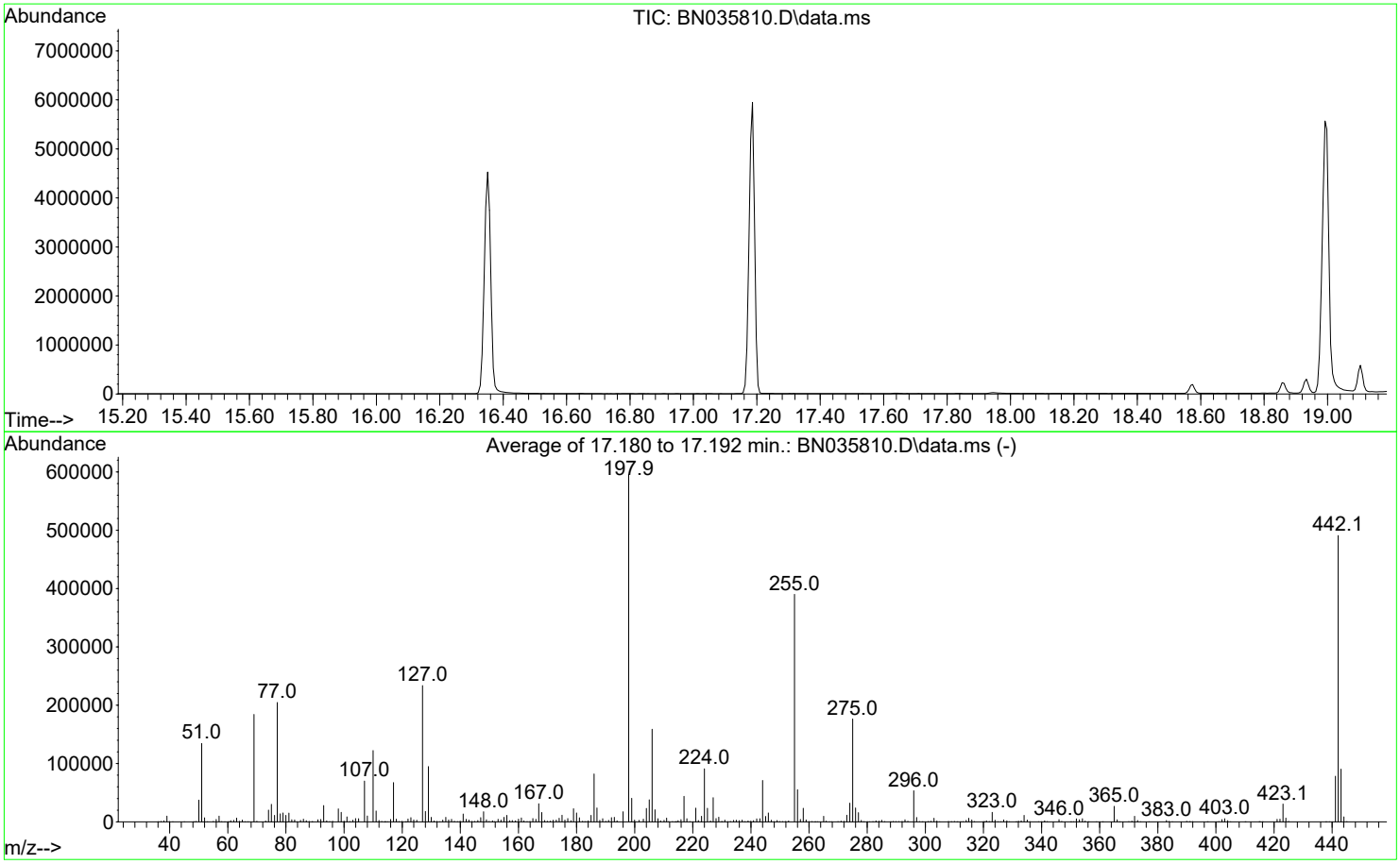
| Date | Instrument Name | DFTPP Data File |
|---|---|---|
| 11/27/2024 | BNA_N | BN035349.D |
| | | |
| | | |
| **Compound Name** | **Response** | **Retention Time** |
| | | |
| DDT | 985457 | 20.286 |
| DDD | 27636 | 19.839 |
| DDE | 578 | 19.322 |
| | | |
| | | |
| **SUM(DDD+DDE)** | **SUM(DDT+DDD+DDE)** | **% Breakdown Of DDT** |
| | | |
| 28214 | 1013671 | 2.78 |
| | | |

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035810.D
Acq On : 24 Dec 2024 07:45
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Dec 19 23:06:19 2024



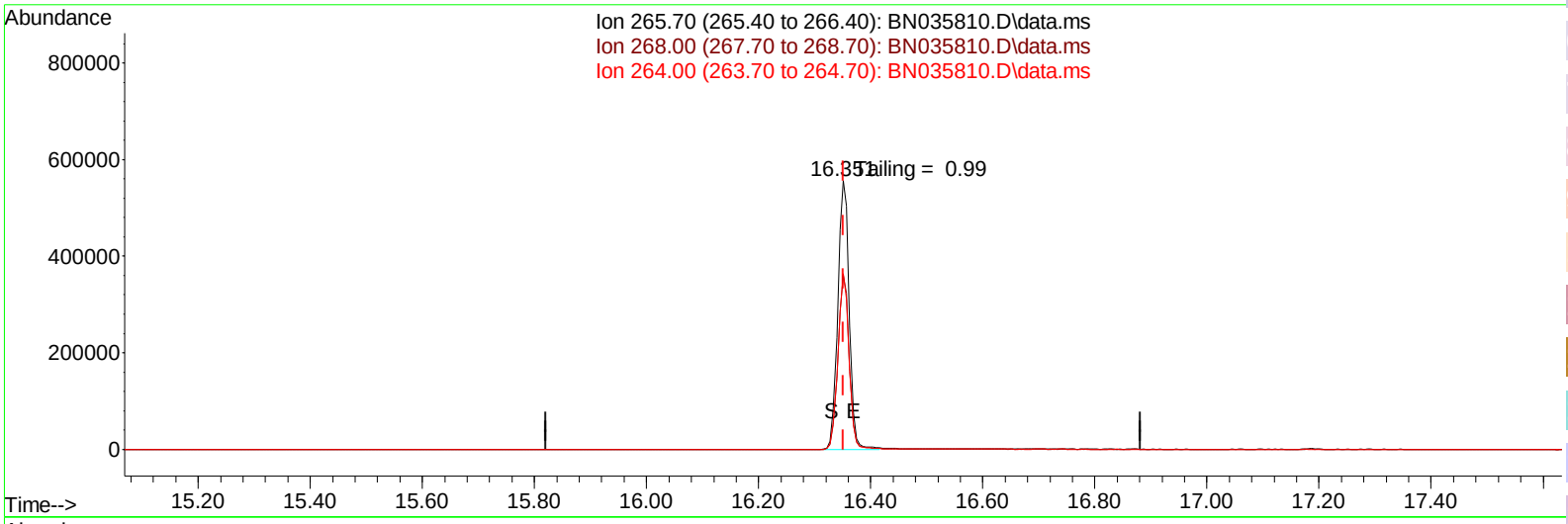

AutoFind: Scans 2430, 2431, 2432; Background Corrected with Scan 2422

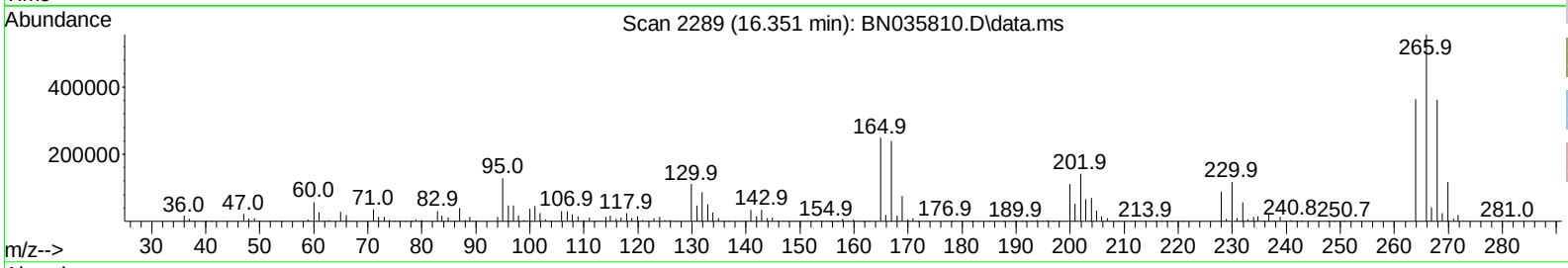
| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 51 | 198 | 10 | 80 | 22.6 | 134565 | PASS |
| 68 | 69 | 0.00 | 2 | 0.0 | 0 | PASS |
| 69 | 198 | 0.00 | 100 | 30.9 | 184267 | PASS |
| 70 | 69 | 0.00 | 2 | 0.5 | 1000 | PASS |
| 127 | 198 | 10 | 80 | 39.2 | 233707 | PASS |
| 197 | 198 | 0.00 | 2 | 0.0 | 0 | PASS |
| 198 | 198 | 100 | 100 | 100.0 | 595477 | PASS |
| 199 | 198 | 5 | 9 | 6.8 | 40509 | PASS |
| 275 | 198 | 10 | 60 | 29.6 | 176405 | PASS |
| 365 | 198 | 1 | 100 | 4.5 | 26707 | PASS |
| 441 | 198 | 0.01 | 100 | 13.2 | 78309 | PASS |
| 442 | 442 | 50 | 100 | 100.0 | 490880 | PASS |
| 443 | 442 | 15 | 24 | 18.4 | 90491 | PASS |

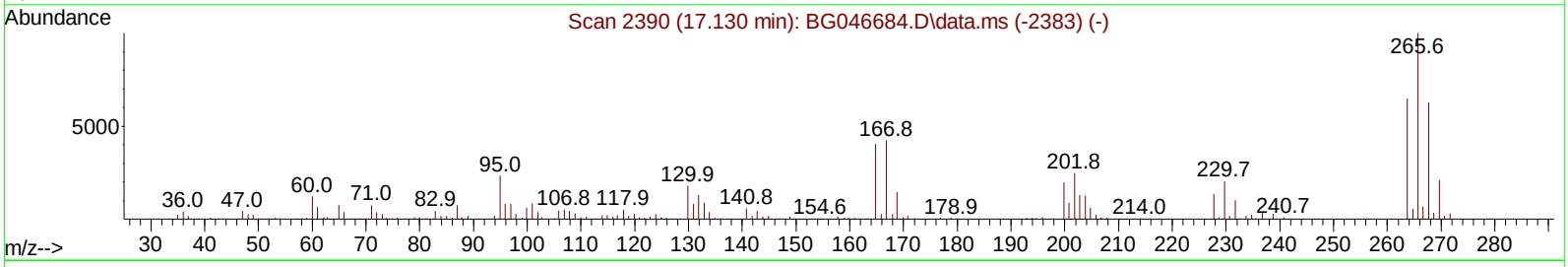
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035810.D
Acq On : 24 Dec 2024 07:45
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
DFTPP

Quant Time: Dec 25 00:46:53 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 25 00:46:49 2024
Response via : Initial Calibration




TIC: BN035810.D\data.ms

**(70) Pentachlorophenol (C)**

**16.351min ( 0.000) 26136.96 ng**

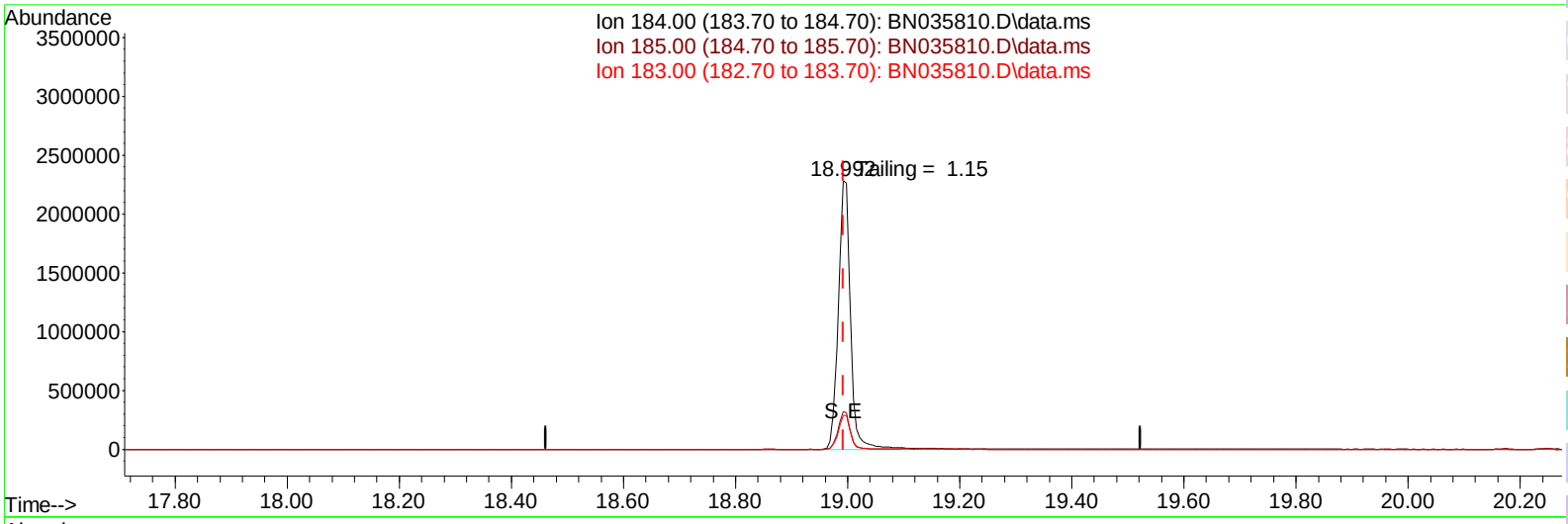
**response 791954**

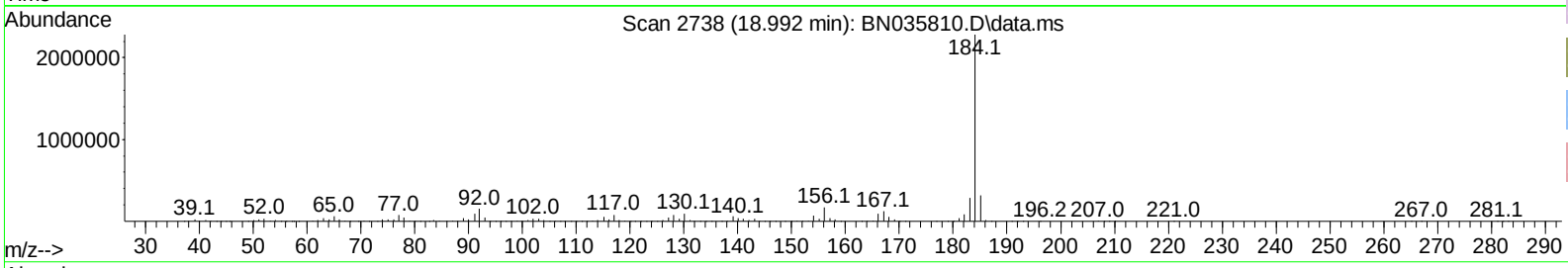
| Ion | Exp% | Act% |
|---|---|---|
| 265.70 | 100.00 | 100.00 |
| 268.00 | 62.20 | 65.05 |
| 264.00 | 61.60 | 65.35 |
| 0.00 | 0.00 | 0.00 |

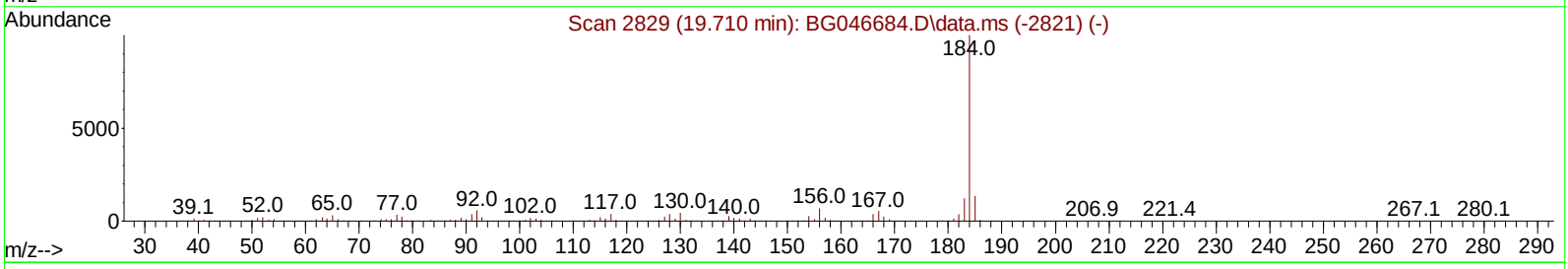
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035810.D
Acq On : 24 Dec 2024 07:45
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
DFTPP

Quant Time: Dec 25 00:46:53 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 25 00:46:49 2024
Response via : Initial Calibration




TIC: BN035810.D\data.ms

**(77) Benzidine**

**18.992min ( 0.000) 0.00 ng**

**response 3507772**

| Ion | Exp% | Act% |
|---|---|---|
| 184.00 | 100.00 | 100.00 |
| 185.00 | 15.50 | 13.96 |
| 183.00 | 13.20 | 12.67 |
| 0.00 | 0.00 | 0.00 |

**Instrument :**
BNA_N
**ClientSampleId :**
DFTPP

## DDT Breakdown

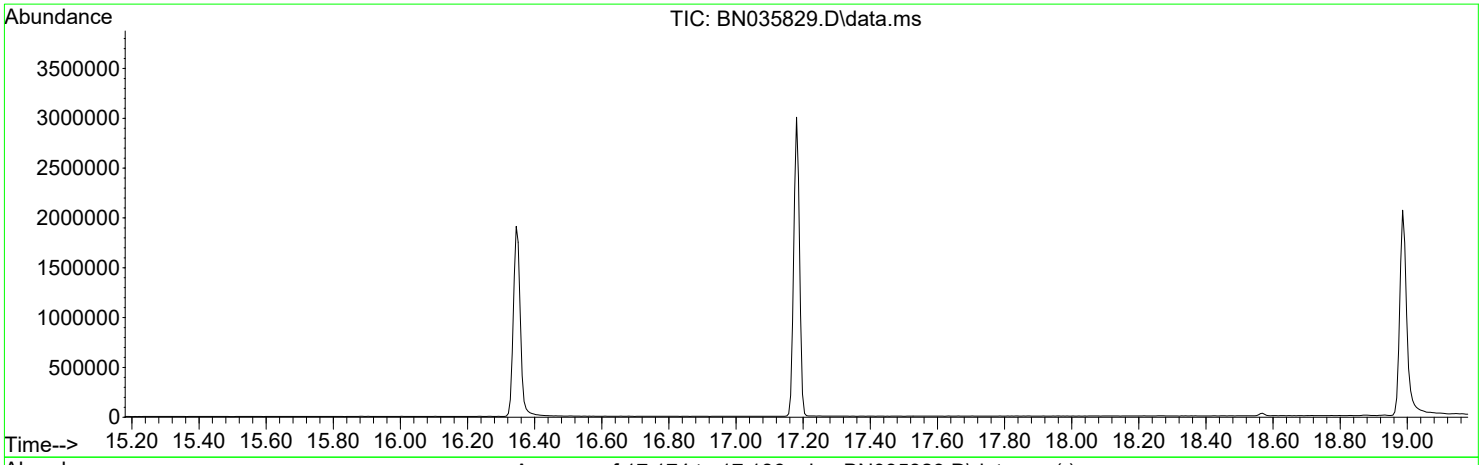
| Date | Instrument Name | DFTPP Data File |
|---|---|---|
| 12/23/2024 | BNA_N | BN035810.D |
| | | |
| | | |
| **Compound Name** | **Response** | **Retention Time** |
| | | |
| DDT | 1784590 | 20.251 |
| DDD | 187693 | 19.804 |
| DDE | 5273 | 19.286 |
| | | |
| | | |
| **SUM(DDD+DDE)** | **SUM(DDT+DDD+DDE)** | **% Breakdown Of DDT** |
| | | |
| 192966 | 1977556 | 9.76 |
| | | |

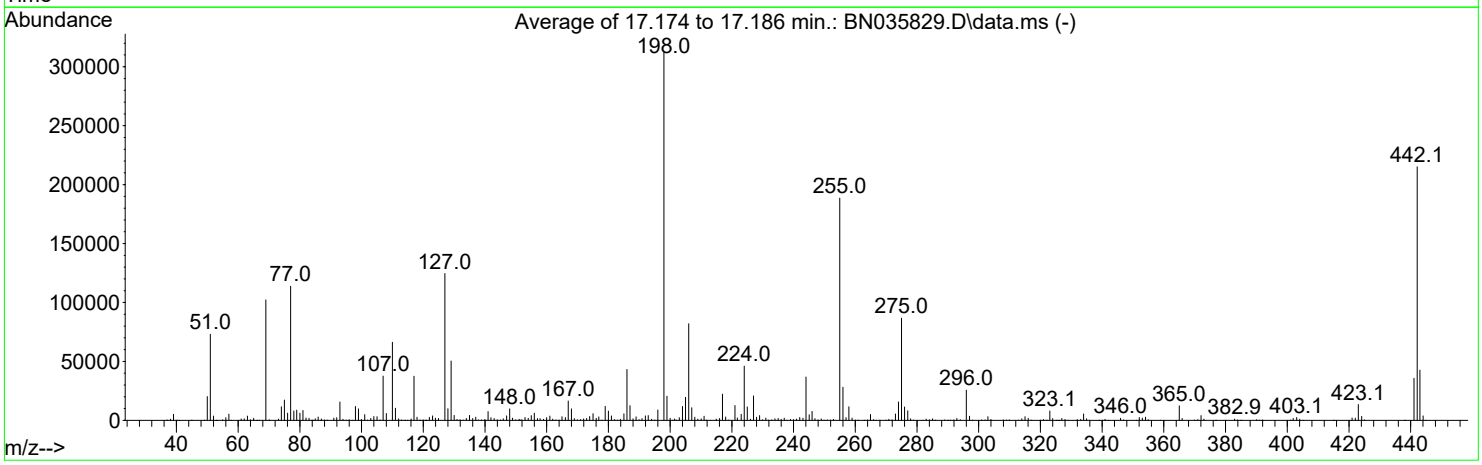
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035829.D
Acq On : 24 Dec 2024 19:41
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 21 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Dec 19 23:06:19 2024



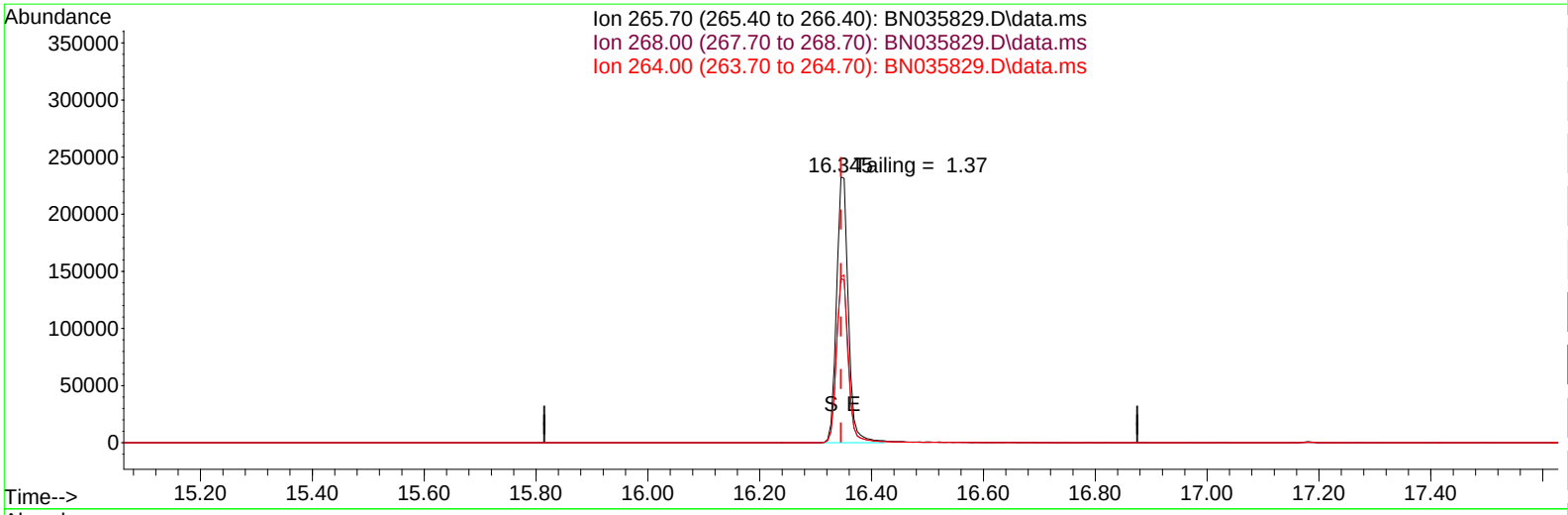

AutoFind: Scans 2429, 2430, 2431; Background Corrected with Scan 2422

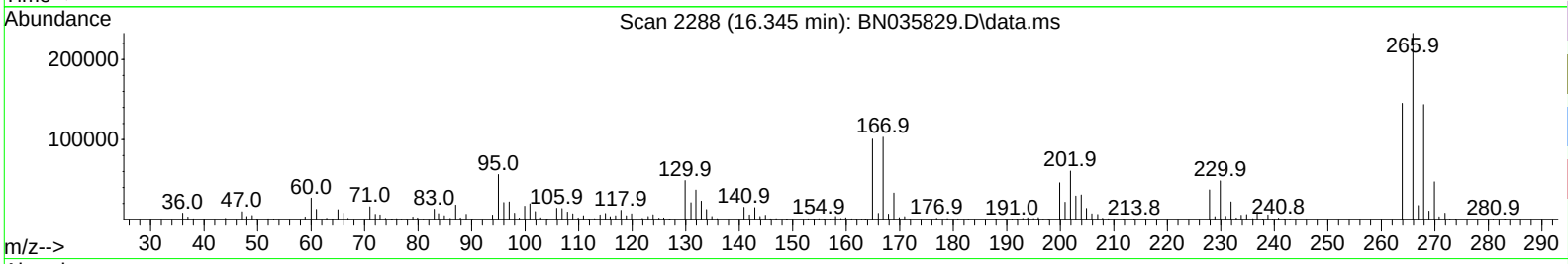
| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 51 | 198 | 10 | 80 | 23.4 | 72981 | PASS |
| 68 | 69 | 0.00 | 2 | 0.0 | 0 | PASS |
| 69 | 198 | 0.00 | 100 | 32.7 | 102160 | PASS |
| 70 | 69 | 0.00 | 2 | 0.5 | 531 | PASS |
| 127 | 198 | 10 | 80 | 39.9 | 124571 | PASS |
| 197 | 198 | 0.00 | 2 | 0.0 | 0 | PASS |
| 198 | 198 | 100 | 100 | 100.0 | 312085 | PASS |
| 199 | 198 | 5 | 9 | 6.6 | 20517 | PASS |
| 275 | 198 | 10 | 60 | 27.8 | 86749 | PASS |
| 365 | 198 | 1 | 100 | 3.9 | 12312 | PASS |
| 441 | 198 | 0.01 | 100 | 11.4 | 35683 | PASS |
| 442 | 442 | 50 | 100 | 100.0 | 215104 | PASS |
| 443 | 442 | 15 | 24 | 19.8 | 42619 | PASS |

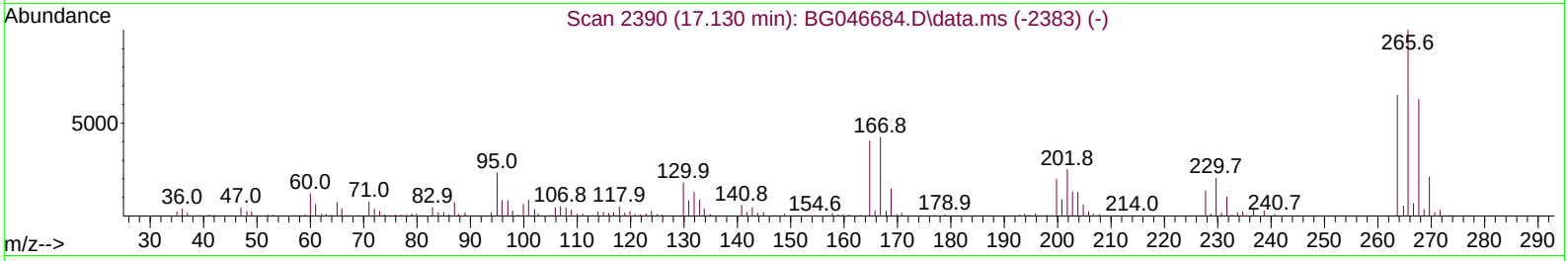
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035829.D
Acq On : 24 Dec 2024 19:41
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 21 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
DFTPP

Quant Time: Dec 25 04:24:00 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 25 04:23:53 2024
Response via : Initial Calibration




TIC: BN035829.D\data.ms

**(70) Pentachlorophenol (C)**

**16.345min ( 0.000) 23024.60 ng**

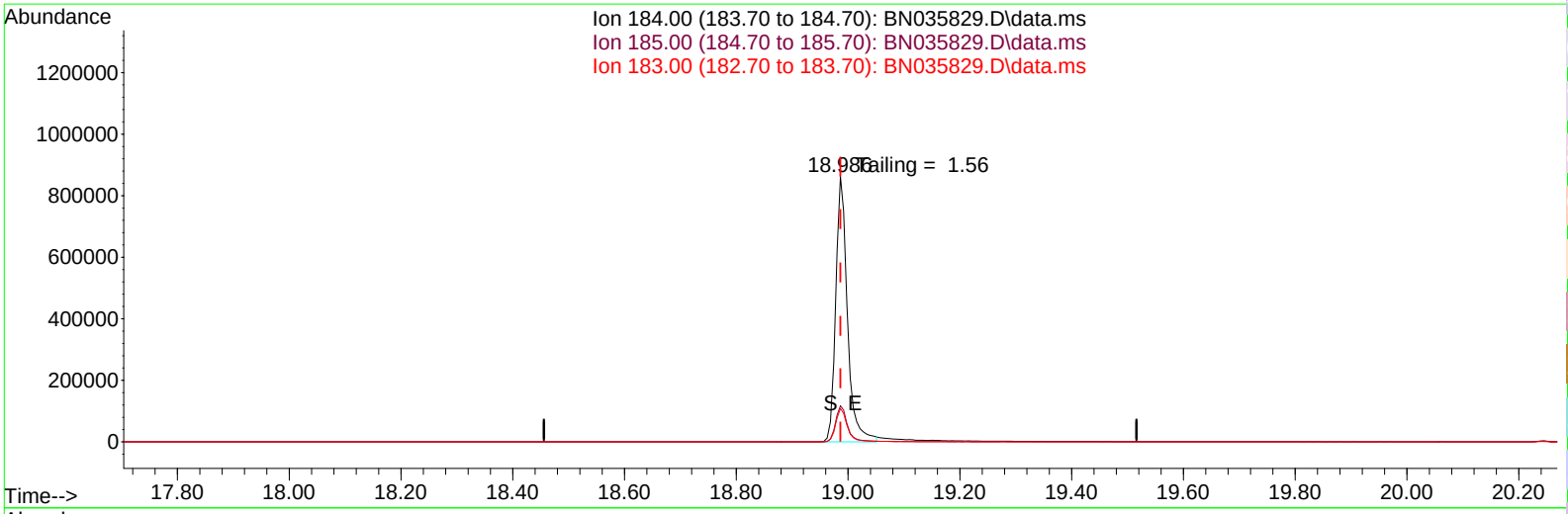
**response 344759**

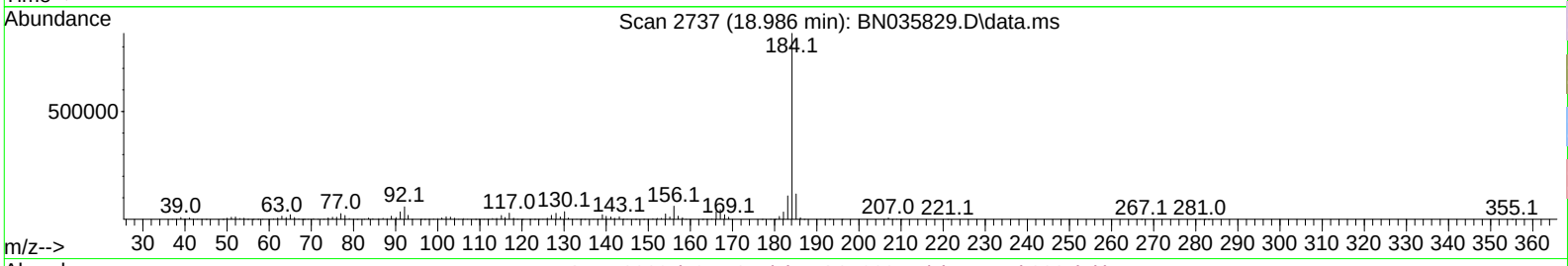
| Ion | Exp% | Act% |
|---|---|---|
| 265.70 | 100.00 | 100.00 |
| 268.00 | 62.20 | 61.74 |
| 264.00 | 61.60 | 62.43 |
| 0.00 | 0.00 | 0.00 |

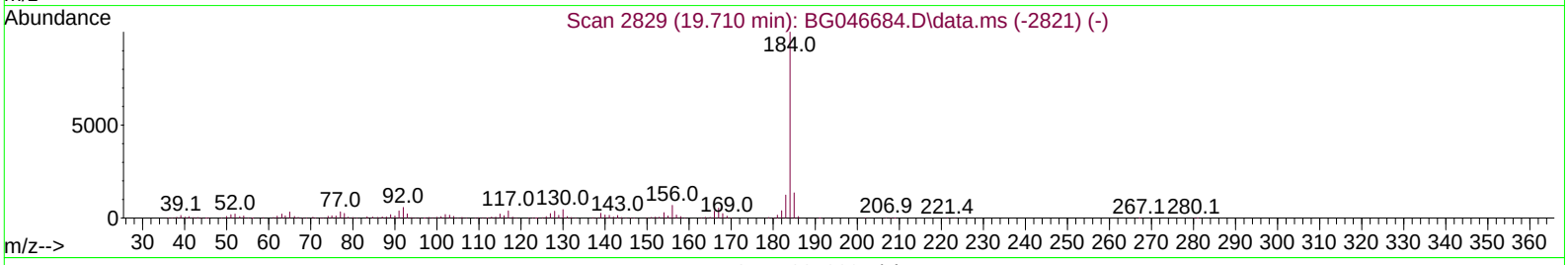
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035829.D
Acq On : 24 Dec 2024 19:41
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 21 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
DFTPP

Quant Time: Dec 25 04:24:00 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 25 04:23:53 2024
Response via : Initial Calibration




TIC: BN035829.D\data.ms

**(77) Benzidine**

**18.986min ( 0.000) 0.00 ng**

**response 1299882**

| Ion | Exp% | Act% |
|---|---|---|
| 184.00 | 100.00 | 100.00 |
| 185.00 | 15.50 | 13.60 |
| 183.00 | 13.20 | 12.60 |
| 0.00 | 0.00 | 0.00 |

**Instrument :**
BNA_N
**ClientSampleId :**
DFTPP

## DDT Breakdown

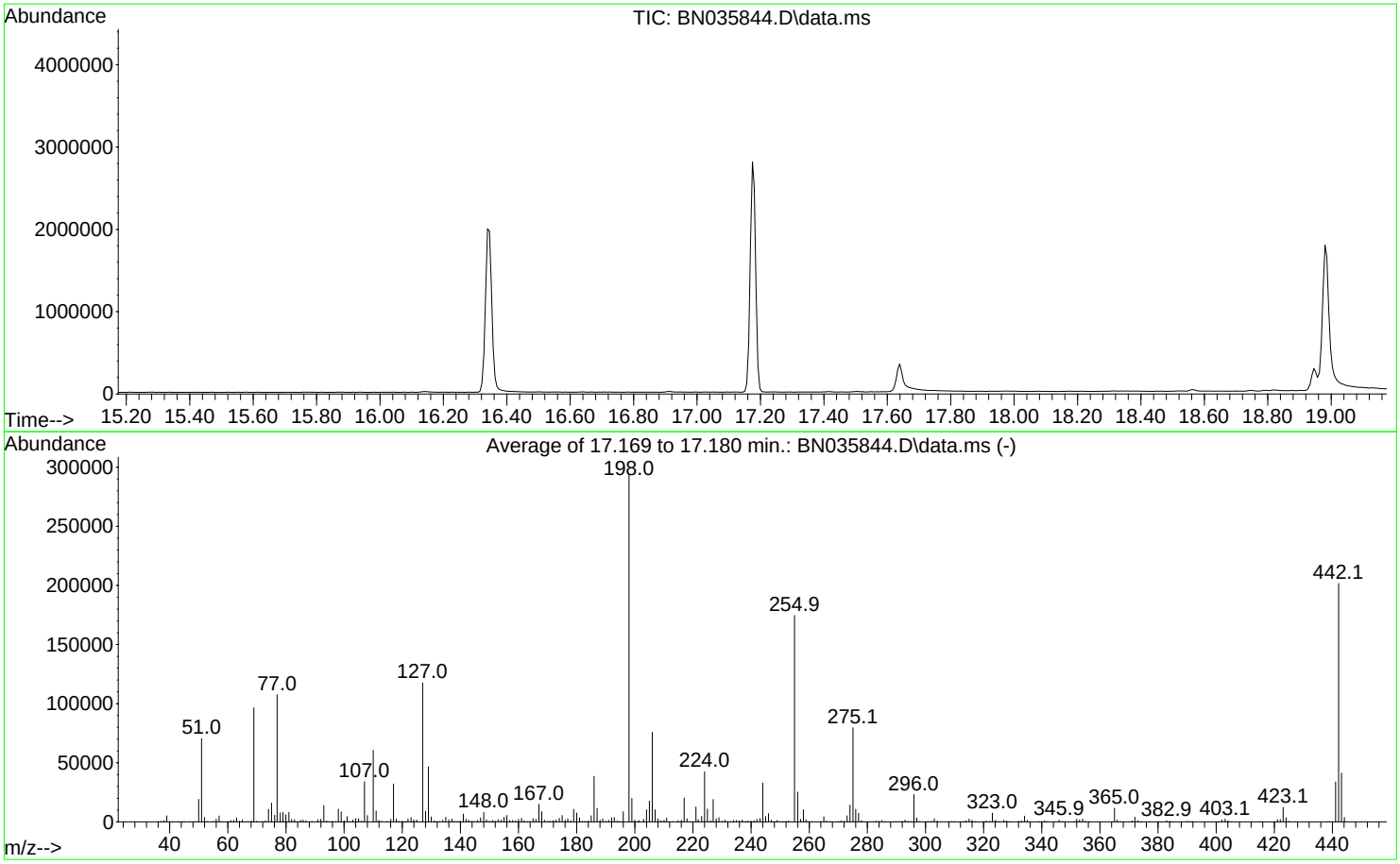
| Date | Instrument Name | DFTPP Data File |
|---|---|---|
| 12/23/2024 | BNA_N | BN035829.D |
| | | |
| | | |
| **Compound Name** | **Response** | **Retention Time** |
| | | |
| DDT | 824107 | 20.245 |
| DDD | 86807 | 19.798 |
| DDE | 4191 | 19.28 |
| | | |
| | | |
| **SUM(DDD+DDE)** | **SUM(DDT+DDD+DDE)** | **% Breakdown Of DDT** |
| | | |
| 90998 | 915105 | 9.94 |
| | | |

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
Data File : BN035844.D
Acq On : 26 Dec 2024 09:19
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Dec 19 23:06:19 2024



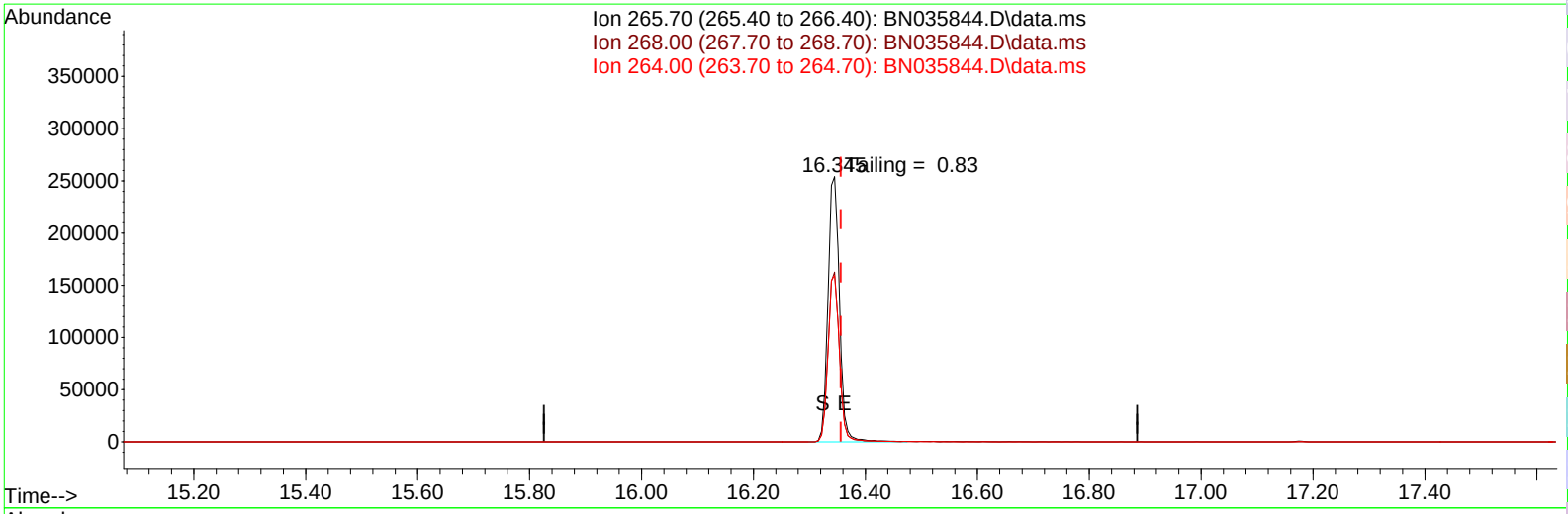

AutoFind: Scans 2428, 2429, 2430; Background Corrected with Scan 2422

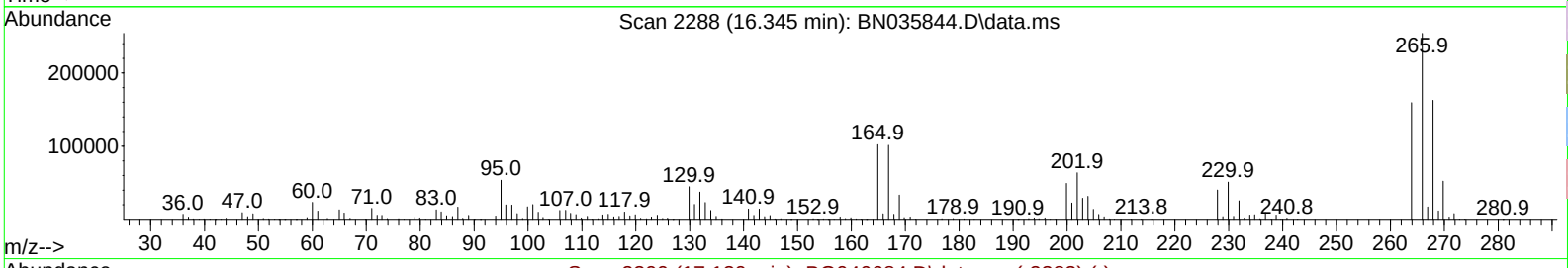
| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 51 | 198 | 10 | 80 | 24.0 | 70451 | PASS |
| 68 | 69 | 0.00 | 2 | 0.6 | 610 | PASS |
| 69 | 198 | 0.00 | 100 | 32.9 | 96557 | PASS |
| 70 | 69 | 0.00 | 2 | 0.5 | 480 | PASS |
| 127 | 198 | 10 | 80 | 40.0 | 117549 | PASS |
| 197 | 198 | 0.00 | 2 | 0.0 | 0 | PASS |
| 198 | 198 | 100 | 100 | 100.0 | 293824 | PASS |
| 199 | 198 | 5 | 9 | 6.7 | 19833 | PASS |
| 275 | 198 | 10 | 60 | 27.1 | 79648 | PASS |
| 365 | 198 | 1 | 100 | 3.9 | 11517 | PASS |
| 441 | 198 | 0.01 | 100 | 11.5 | 33733 | PASS |
| 442 | 442 | 50 | 100 | 100.0 | 201656 | PASS |
| 443 | 442 | 15 | 24 | 20.5 | 41285 | PASS |

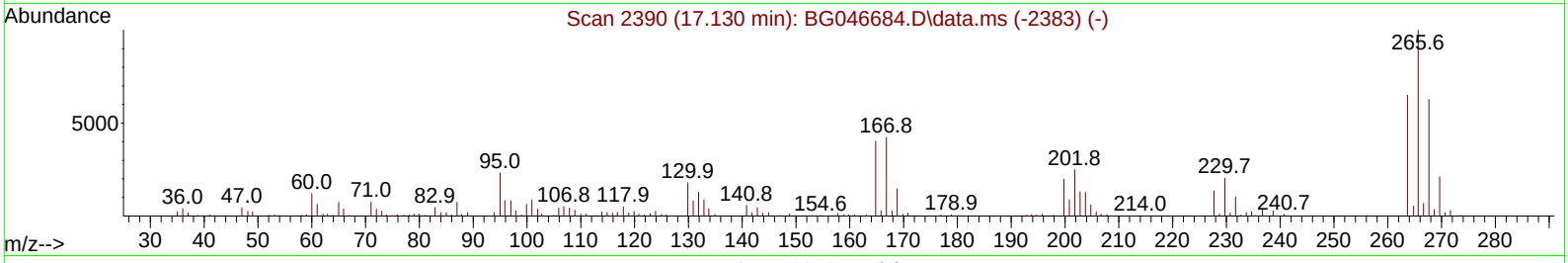
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
Data File : BN035844.D
Acq On : 26 Dec 2024 09:19
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
DFTPP

Quant Time: Dec 26 18:22:22 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 25 04:23:53 2024
Response via : Initial Calibration




TIC: BN035844.D\data.ms

**(70) Pentachlorophenol (C)**

**16.345min (-0.011) 24950.02 ng**

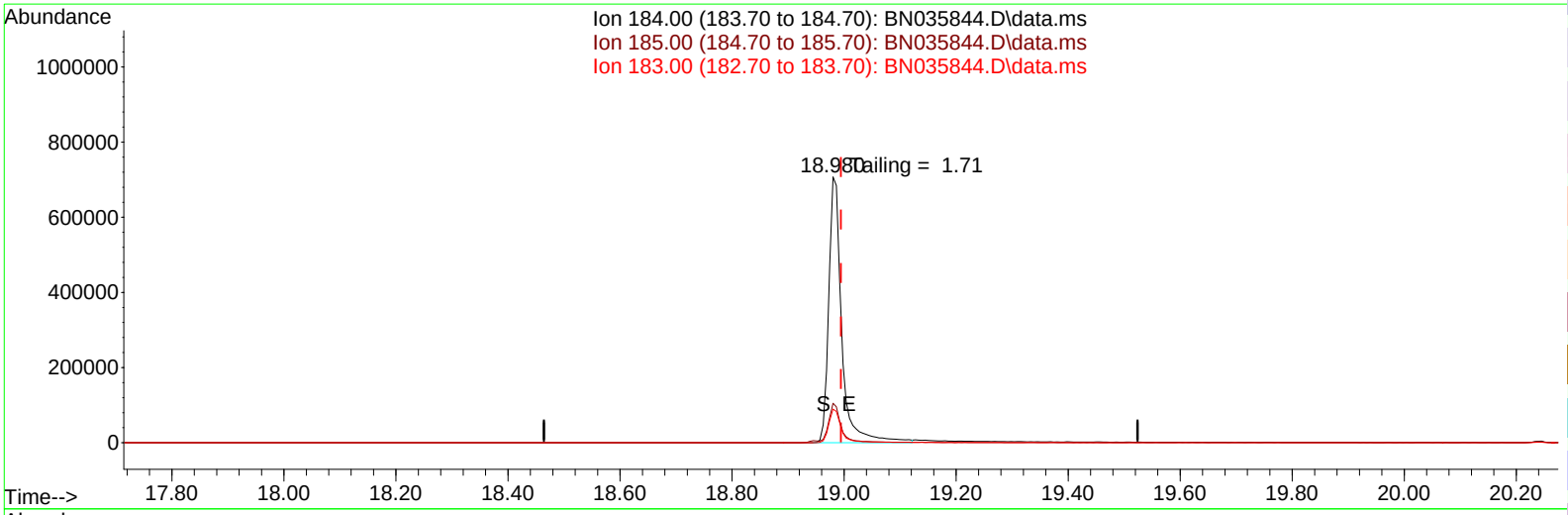
**response 363016**

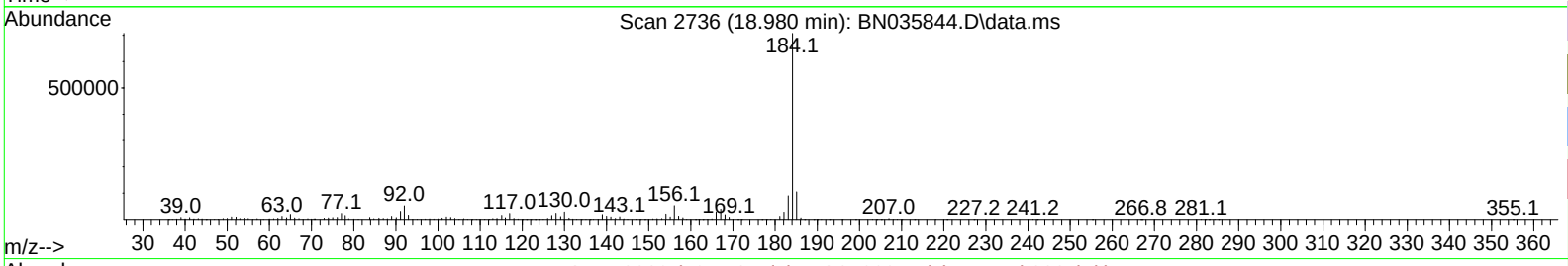
| Ion | Exp% | Act% |
|---|---|---|
| 265.70 | 100.00 | 100.00 |
| 268.00 | 62.20 | 64.03 |
| 264.00 | 61.60 | 62.72 |
| 0.00 | 0.00 | 0.00 |

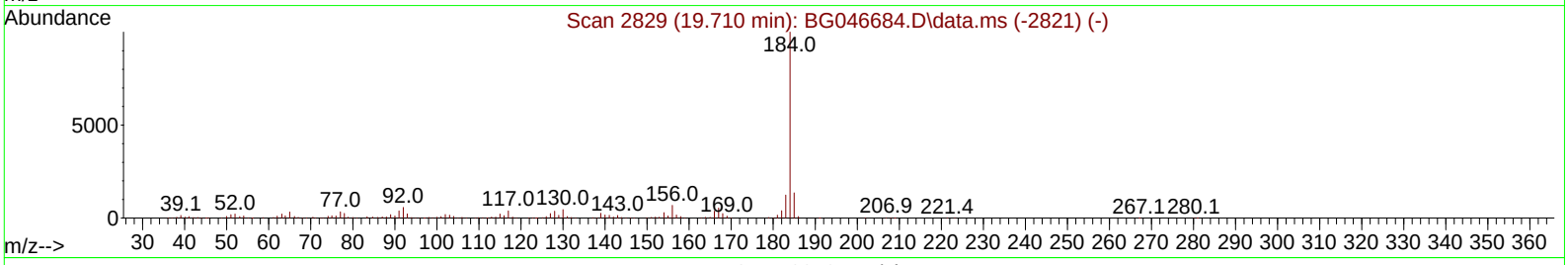
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
Data File : BN035844.D
Acq On : 26 Dec 2024 09:19
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
DFTPP

Quant Time: Dec 26 18:24:21 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 25 04:23:53 2024
Response via : Initial Calibration




TIC: BN035844.D\data.ms

**(77) Benzidine**

**18.980min (-0.014) 0.00 ng**

**response 1183784**

| Ion | Exp% | Act% |
|---|---|---|
| 184.00 | 100.00 | 100.00 |
| 185.00 | 15.50 | 14.84 |
| 183.00 | 13.20 | 12.69 |
| 0.00 | 0.00 | 0.00 |

**Instrument :**
BNA_N
**ClientSampleId :**
DFTPP

## DDT Breakdown

| Date | Instrument Name | DFTPP Data File |
|---|---|---|
| 12/26/2024 | BNA_N | BN035844.D |
| | | |
| | | |
| **Compound Name** | **Response** | **Retention Time** |
| | | |
| DDT | 999259 | 20.239 |
| DDD | 18711 | 19.798 |
| DDE | 516 | 19.28 |
| | | |
| | | |
| **SUM(DDD+DDE)** | **SUM(DDT+DDD+DDE)** | **% Breakdown Of DDT** |
| | | |
| 19227 | 1018486 | 1.89 |
| | | |

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | AECOM Technical Services, Inc. | Date Collected: | |
| Project: | NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258 | Date Received: | |
| Client Sample ID: | PB165828BL | SDG No.: | P5376 |
| Lab Sample ID: | PB165828BL | Matrix: | Water |
| Analytical Method: | SW8270ESIM | % Solid: | 0 |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-SIMGroup1 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : N | PH : |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BN035812.D | 1 | 12/23/24 13:29 | 12/24/24 09:35 | PB165828 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 123-91-1 | 1,4-Dioxane | 0.20 | U | 0.070 | 0.20 | 0.20 | ug/L |
| **SURROGATES** | | | | | | | |
| 7297-45-2 | 2-Methylnaphthalene-d10 | 0.34 | | 30 - 150 | | 86% | SPK: 0.4 |
| 93951-69-0 | Fluoranthene-d10 | 0.40 | | 30 - 150 | | 100% | SPK: 0.4 |
| 4165-60-0 | Nitrobenzene-d5 | 0.42 | | 55 - 111 | | 105% | SPK: 0.4 |
| 321-60-8 | 2-Fluorobiphenyl | 0.34 | | 53 - 106 | | 86% | SPK: 0.4 |
| 1718-51-0 | Terphenyl-d14 | 0.48 | | 58 - 132 | | 120% | SPK: 0.4 |
| **INTERNAL STANDARDS** | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 3200 | 7.264 | | | | |
| 1146-65-2 | Naphthalene-d8 | 6950 | 10.02 | | | | |
| 15067-26-2 | Acenaphthene-d10 | 4350 | 13.935 | | | | |
| 1517-22-2 | Phenanthrene-d10 | 8100 | 16.711 | | | | |
| 1719-03-5 | Chrysene-d12 | 6760 | 20.956 | | | | |
| 1520-96-3 | Perylene-d12 | 6750 | 23.038 | | | | |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035812.D
Acq On : 24 Dec 2024 09:35
Operator : RC/JU
Sample : PB165828BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
PB165828BL

**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

Quant Time: Dec 24 23:16:34 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.264 | 152 | 3197 | 0.400 | ng | 0.00 |
| 7) Naphthalene-d8 | 10.020 | 136 | 6952 | 0.400 | ng | 0.00 |
| 13) Acenaphthene-d10 | 13.935 | 164 | 4346 | 0.400 | ng | 0.00 |
| 19) Phenanthrene-d10 | 16.711 | 188 | 8099 | 0.400 | ng | # 0.01 |
| 29) Chrysene-d12 | 20.956 | 240 | 6756 | 0.400 | ng | # 0.00 |
| 35) Perylene-d12 | 23.038 | 264 | 6747 | 0.400 | ng | # 0.00 |
| System Monitoring Compounds | | | | | | |
| 4) 2-Fluorophenol | 4.932 | 112 | 2496 | 0.312 | ng | 0.00 |
| 5) Phenol-d6 | 6.484 | 99 | 2096 | 0.218 | ng | 0.00 |
| 8) Nitrobenzene-d5 | 8.418 | 82 | 1782m | 0.420 | ng | 0.01 |
| 11) 2-Methylnaphthalene-d10 | 11.641 | 152 | 3741 | 0.344 | ng | 0.02 |
| 14) 2,4,6-Tribromophenol | 15.475 | 330 | 490 | 0.159 | ng | 0.02 |
| 15) 2-Fluorobiphenyl | 12.564 | 172 | 5652 | 0.344 | ng | 0.02 |
| 27) Fluoranthene-d10 | 18.761 | 212 | 9188 | 0.400 | ng | 0.00 |
| 31) Terphenyl-d14 | 19.393 | 244 | 6413 | 0.481 | ng | 0.00 |
| Target Compounds | | | | | | Qvalue |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

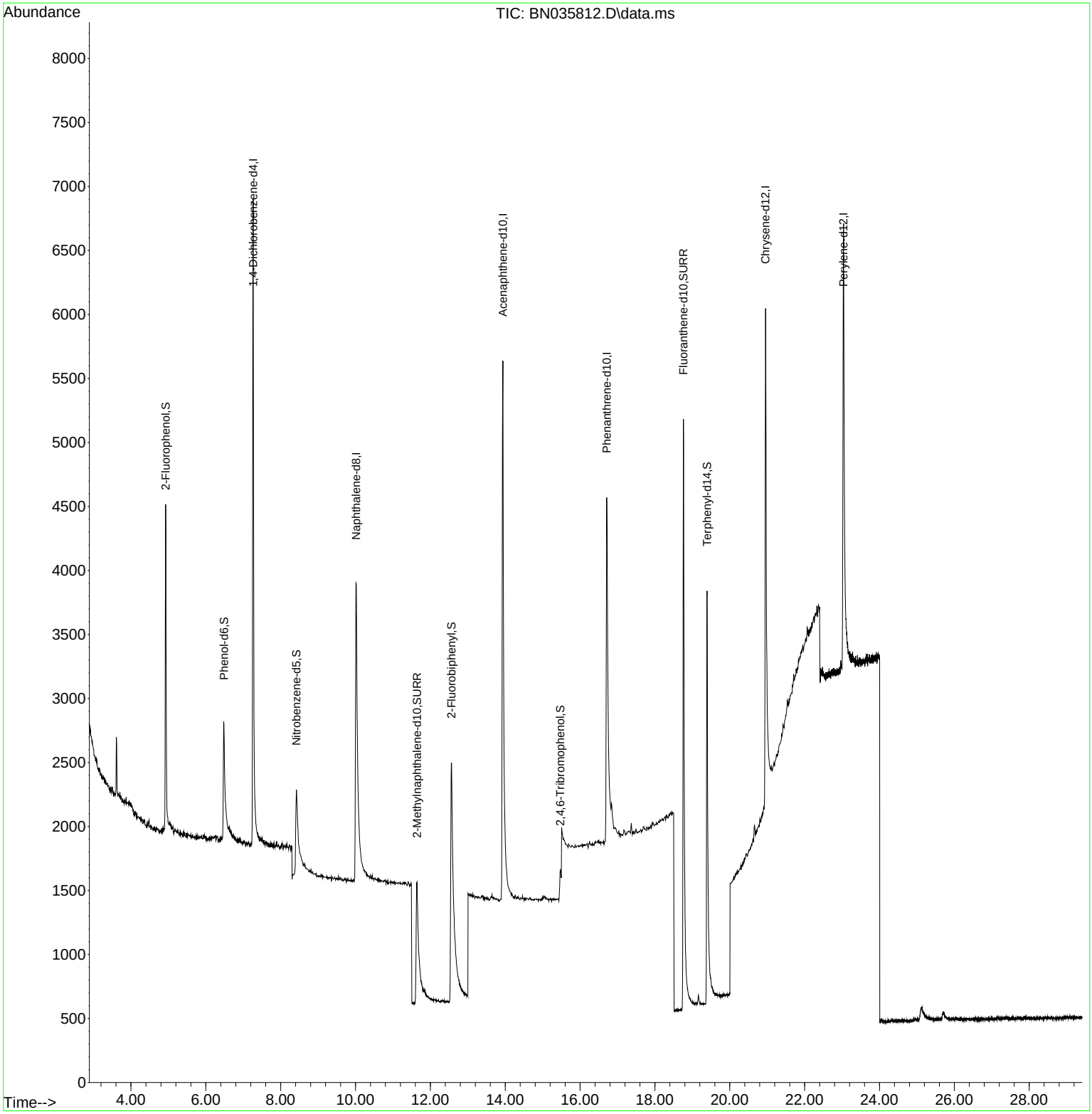
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035812.D
Acq On : 24 Dec 2024 09:35
Operator : RC/JU
Sample : PB165828BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

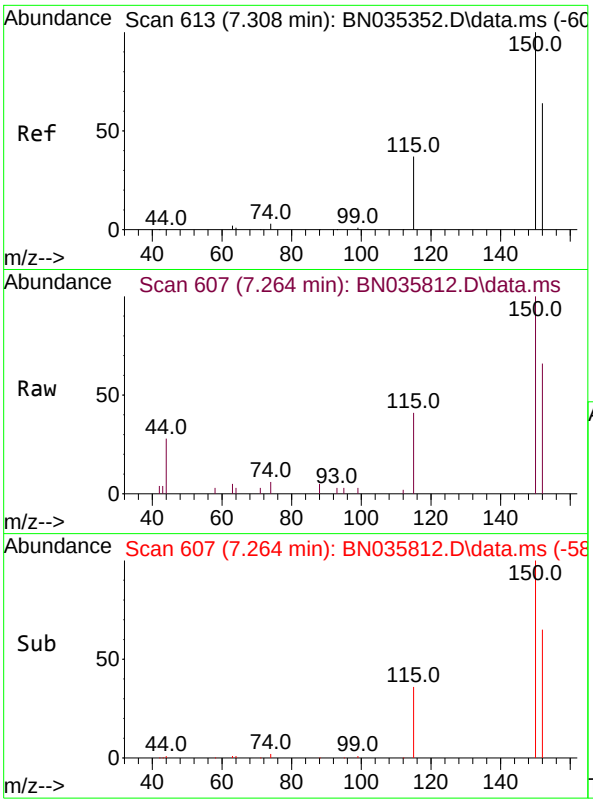
Quant Time: Dec 24 23:16:34 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

**Instrument :**
BNA_N
**ClientSampleId :**
PB165828BL

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

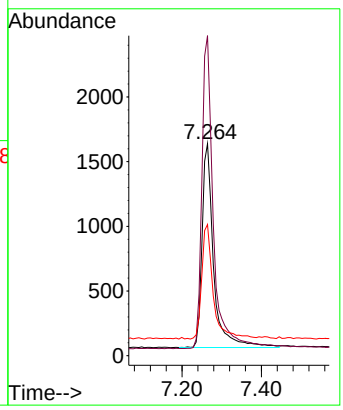





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.264 min Scan# 6
Delta R.T. -0.008 min
Lab File: BN035812.D
Acq: 24 Dec 2024 09:35

Tgt Ion:152 Resp: 319

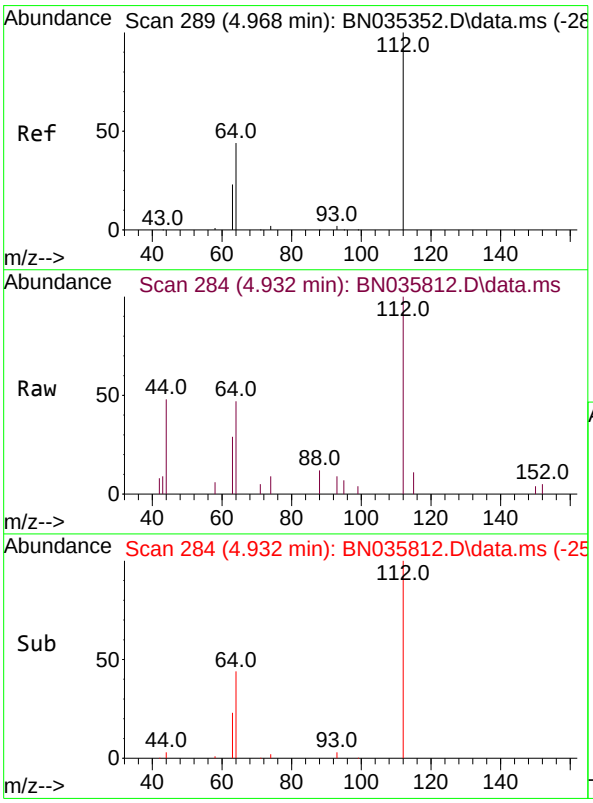
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 150.9 | 124.0 | 186.0 |
| 115 | 61.9 | 49.6 | 74.4 |




**Instrument :**
BNA_N
**ClientSampleId :**
PB165828BL

**Manual Integrations**
**APPROVED**

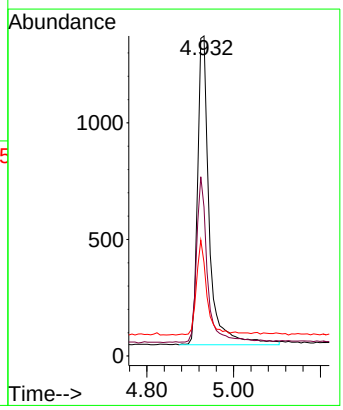
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

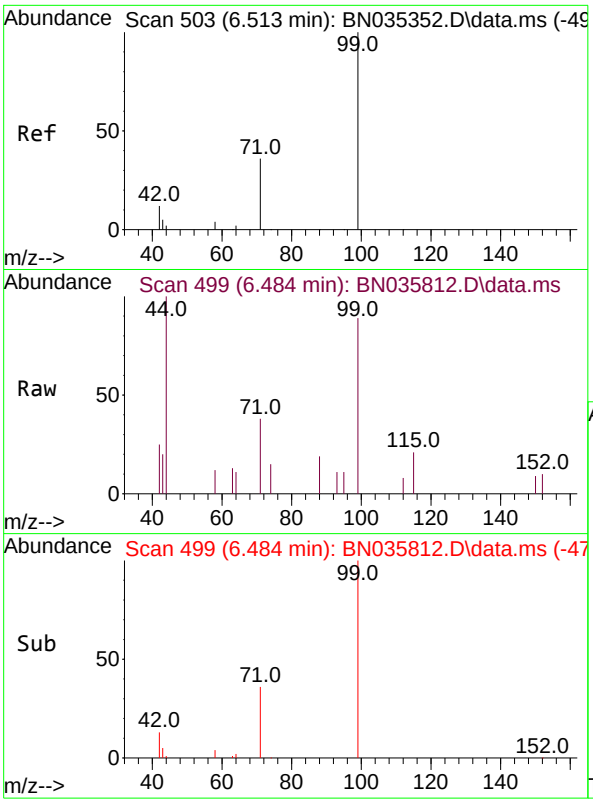



#4
2-Fluorophenol
Concen: 0.312 ng
RT: 4.932 min Scan# 284
Delta R.T. -0.007 min
Lab File: BN035812.D
Acq: 24 Dec 2024 09:35

Tgt Ion:112 Resp: 2496

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 49.3 | 39.8 | 59.8 |
| 63 | 27.1 | 21.0 | 31.6 |

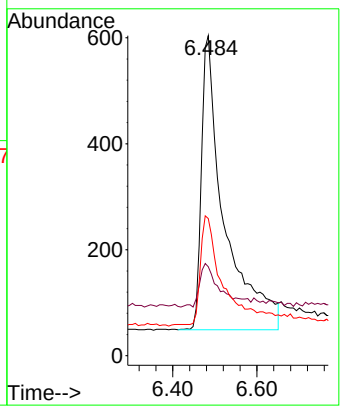





#5
Phenol-d6
Concen: 0.218 ng
RT: 6.484 min Scan# 4
Delta R.T. -0.007 min
Lab File: BN035812.D
Acq: 24 Dec 2024 09:35

Tgt Ion: 99 Resp: 209

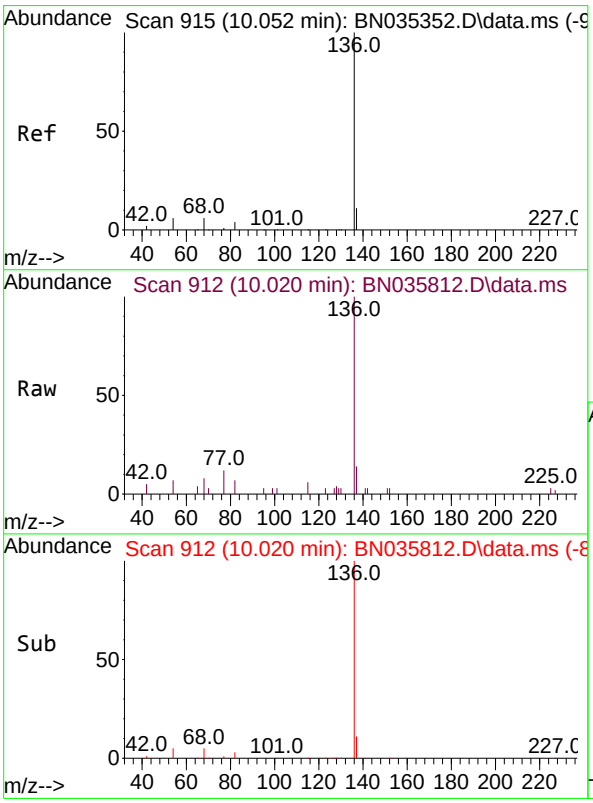
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 13.4 | 11.4 | 17.2 |
| 71 | 37.2 | 29.3 | 43.9 |




**Instrument :**
BNA_N
**ClientSampleId :**
PB165828BL

**Manual Integrations**
**APPROVED**

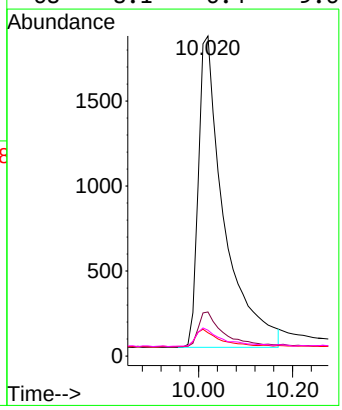
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

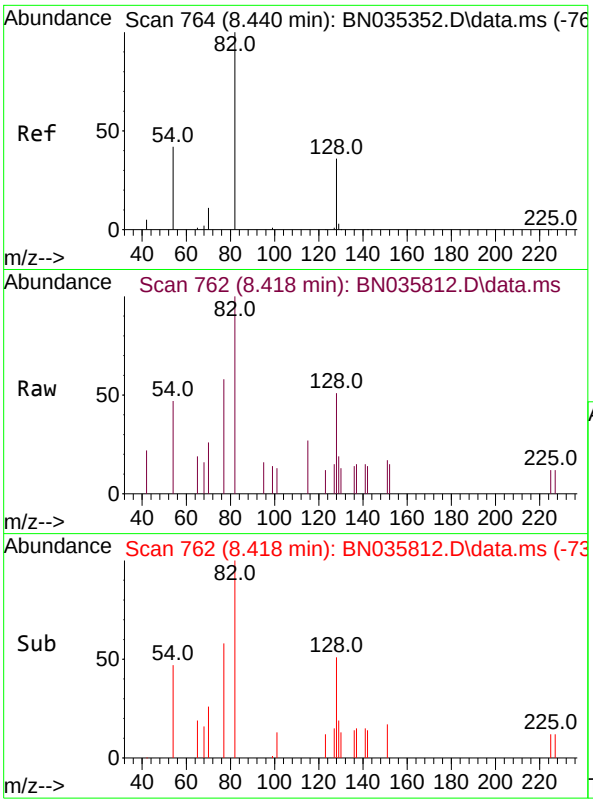



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.020 min Scan# 912
Delta R.T. -0.000 min
Lab File: BN035812.D
Acq: 24 Dec 2024 09:35

Tgt Ion:136 Resp: 6952

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 13.8 | 10.2 | 15.2 |
| 54 | 7.3 | 6.1 | 9.1 |
| 68 | 8.1 | 6.4 | 9.6 |

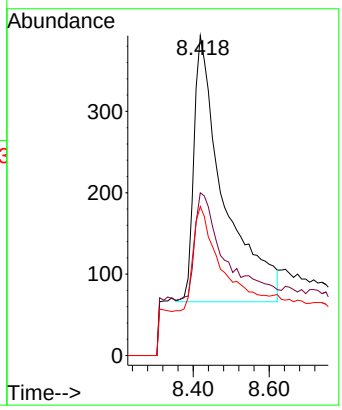





#8
Nitrobenzene-d5
Concen: 0.420 ng m
RT: 8.418 min Scan# 7
Delta R.T. 0.010 min
Lab File: BN035812.D
Acq: 24 Dec 2024 09:35

Tgt Ion: 82 Resp: 178

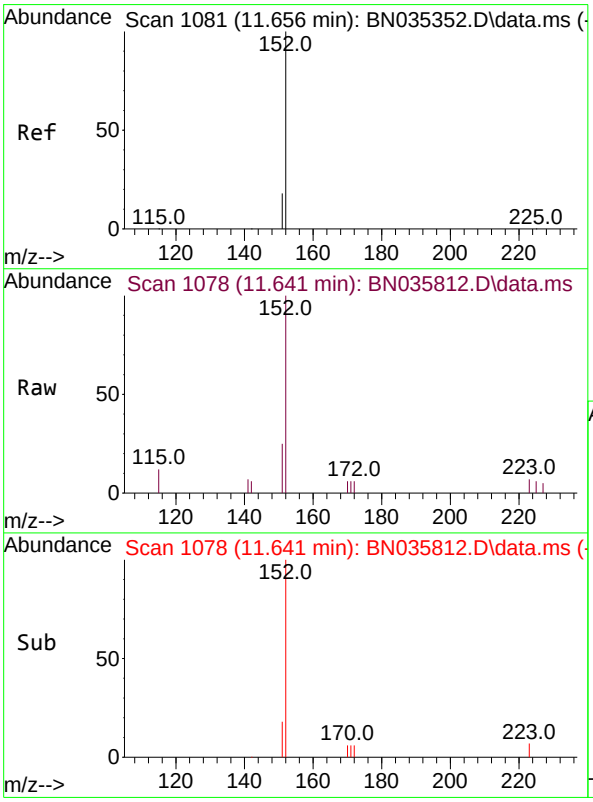
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 50.9 | 33.4 | 50.0 |
| 54 | 46.6 | 36.7 | 55.1 |




**Instrument :**
BNA_N
**ClientSampleId :**
PB165828BL

**Manual Integrations**
**APPROVED**

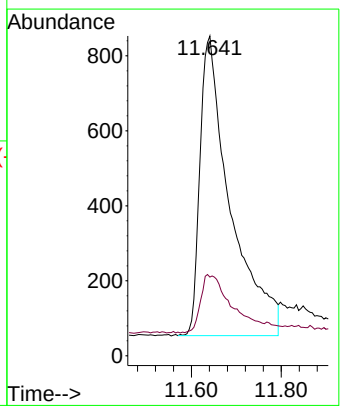
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

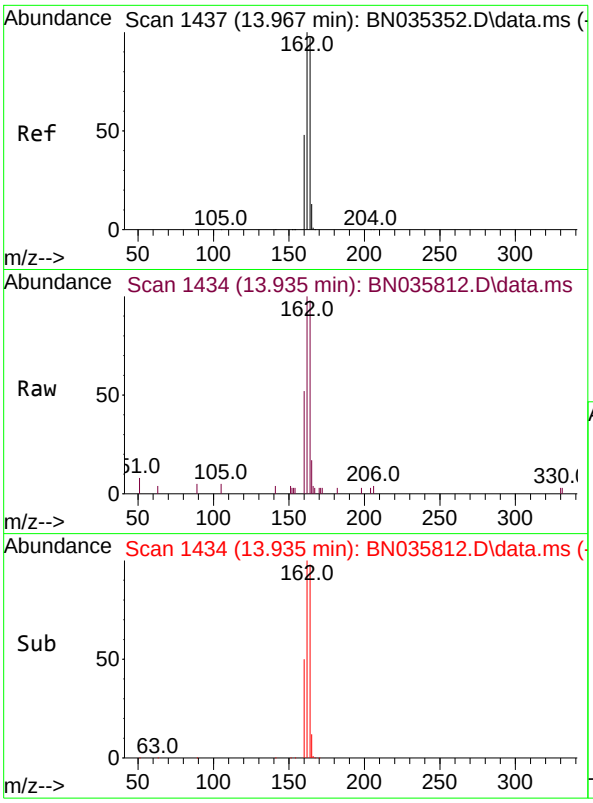



#11
2-Methylnaphthalene-d10
Concen: 0.344 ng
RT: 11.641 min Scan# 1078
Delta R.T. 0.020 min
Lab File: BN035812.D
Acq: 24 Dec 2024 09:35

Tgt Ion:152 Resp: 3741

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.1 | 16.6 | 25.0 |

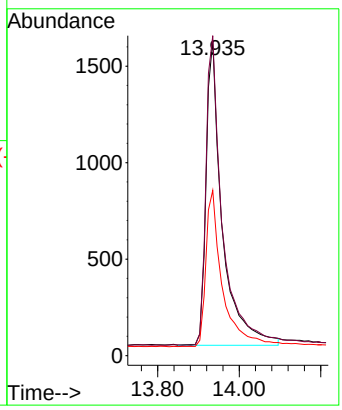





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.935 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035812.D
Acq: 24 Dec 2024 09:35

Tgt Ion:164 Resp: 434

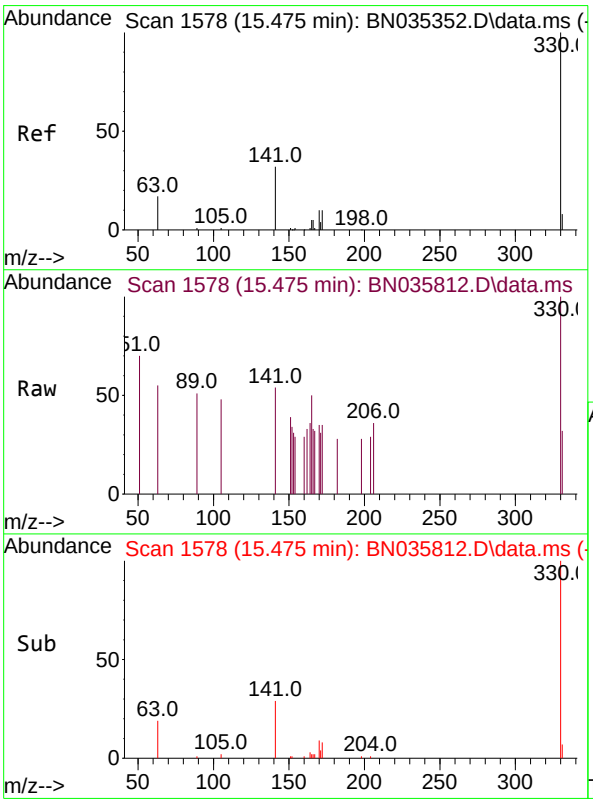
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 101.6 | 82.2 | 123.2 |
| 160 | 52.5 | 40.1 | 60.1 |




**Instrument :**
BNA_N
**ClientSampleId :**
PB165828BL

**Manual Integrations**
**APPROVED**

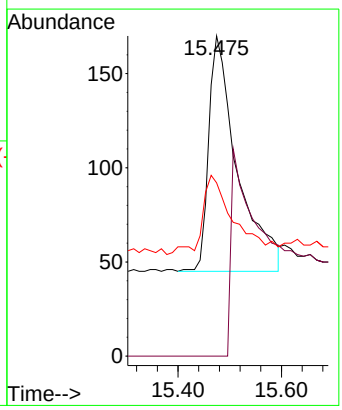
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

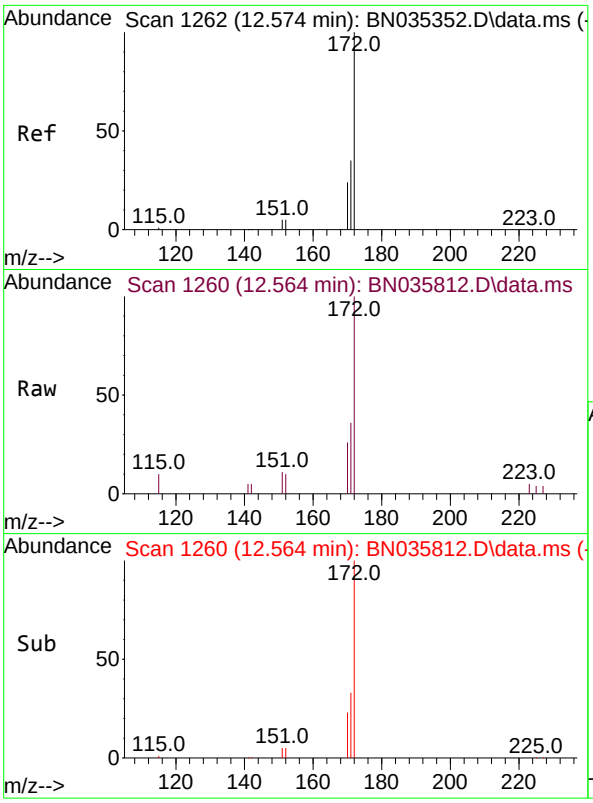



#14
2,4,6-Tribromophenol
Concen: 0.159 ng
RT: 15.475 min Scan# 1578
Delta R.T. 0.021 min
Lab File: BN035812.D
Acq: 24 Dec 2024 09:35

Tgt Ion:330 Resp: 490

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 0.0 | 0.0 | 0.0 |
| 141 | 37.3 | 26.6 | 40.0 |

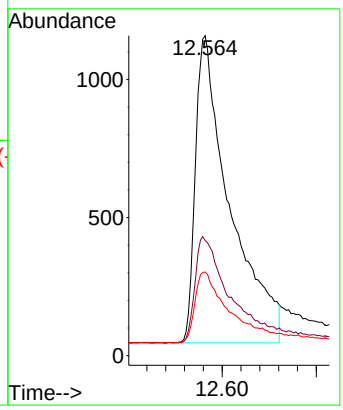





#15
2-Fluorobiphenyl
Concen: 0.344 ng
RT: 12.564 min Scan# 1
Delta R.T. 0.020 min
Lab File: BN035812.D
Acq: 24 Dec 2024 09:35

Tgt Ion:172 Resp: 565

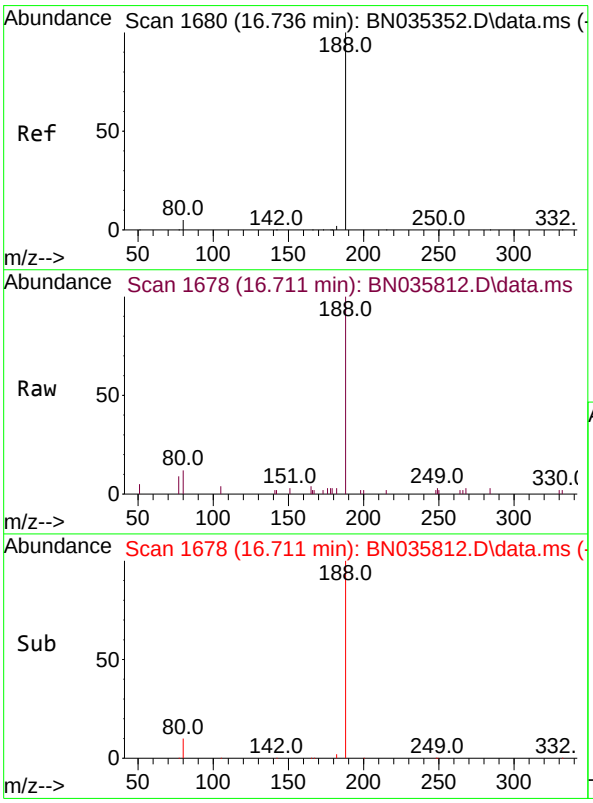
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 36.0 | 29.0 | 43.4 |
| 170 | 26.1 | 19.8 | 29.8 |




**Instrument :**
BNA_N
**ClientSampleId :**
PB165828BL

**Manual Integrations**
**APPROVED**

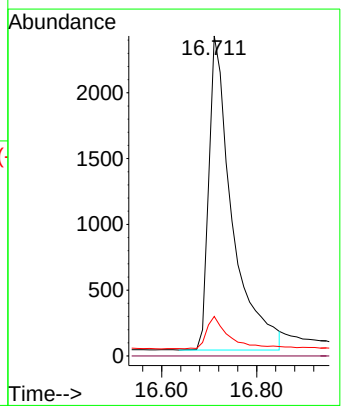
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

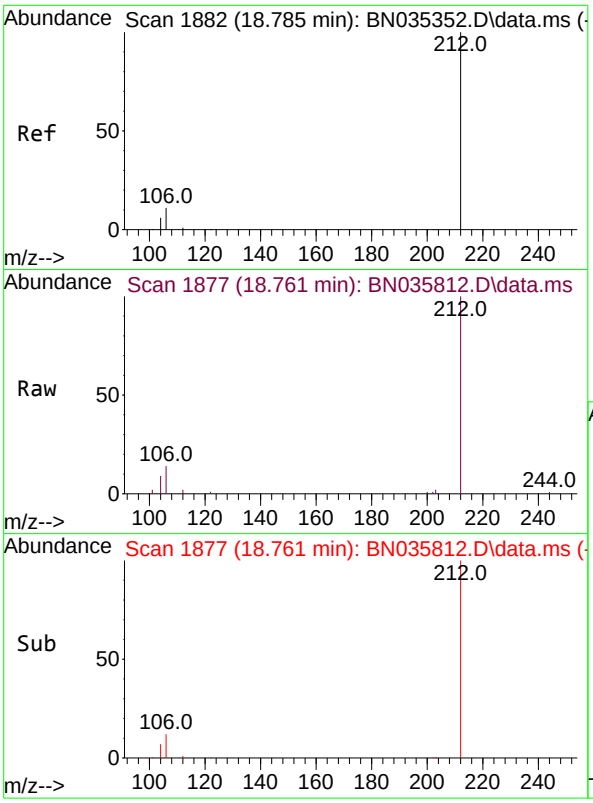



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.711 min Scan# 1678
Delta R.T. 0.012 min
Lab File: BN035812.D
Acq: 24 Dec 2024 09:35

Tgt Ion:188 Resp: 8099

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 12.3 | 4.6 | 6.8# |

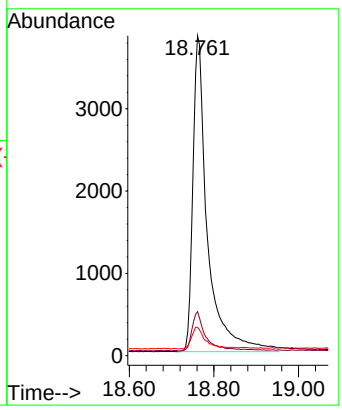





#27
Fluoranthene-d10
Concen: 0.400 ng
RT: 18.761 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035812.D
Acq: 24 Dec 2024 09:35

Tgt Ion:212 Resp: 918

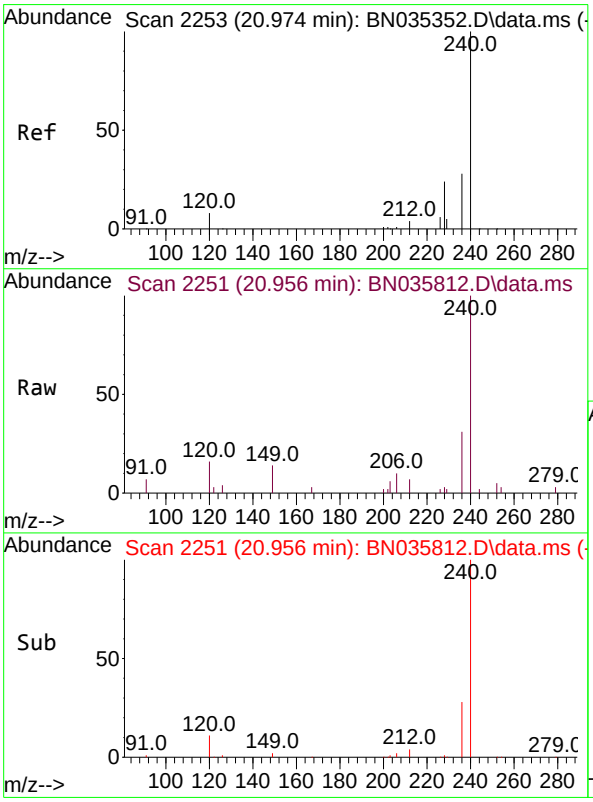
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 11.5 | 9.2 | 13.8 |
| 104 | 6.3 | 5.3 | 7.9 |




**Instrument :**
BNA_N
**ClientSampleId :**
PB165828BL

**Manual Integrations APPROVED**

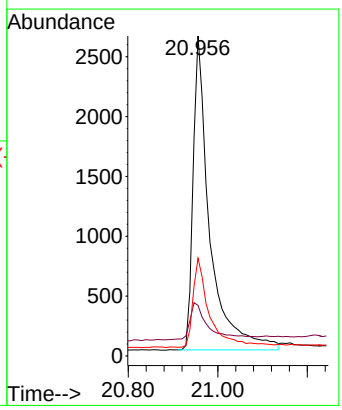
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

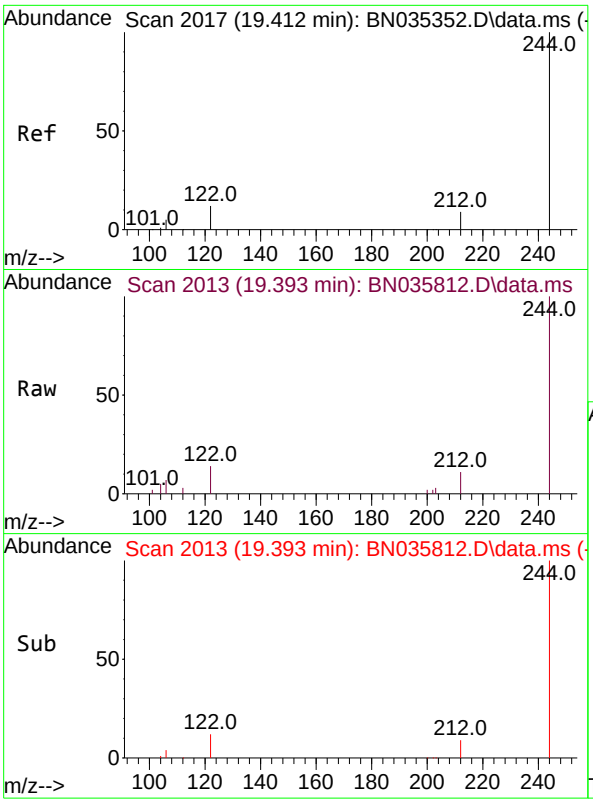



#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.956 min Scan# 2251
Delta R.T. -0.000 min
Lab File: BN035812.D
Acq: 24 Dec 2024 09:35

Tgt Ion:240 Resp: 6756

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 15.8 | 7.9 | 11.9# |
| 236 | 30.6 | 22.9 | 34.3 |

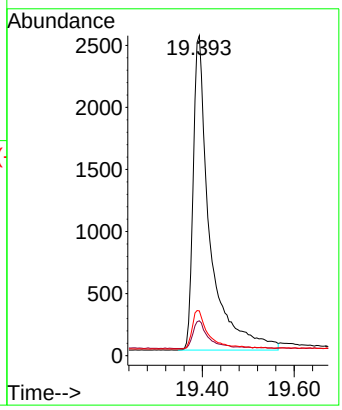





#31
Terphenyl-d14
Concen: 0.481 ng
RT: 19.393 min Scan# 2
Delta R.T. 0.004 min
Lab File: BN035812.D
Acq: 24 Dec 2024 09:35

Tgt Ion:244 Resp: 641

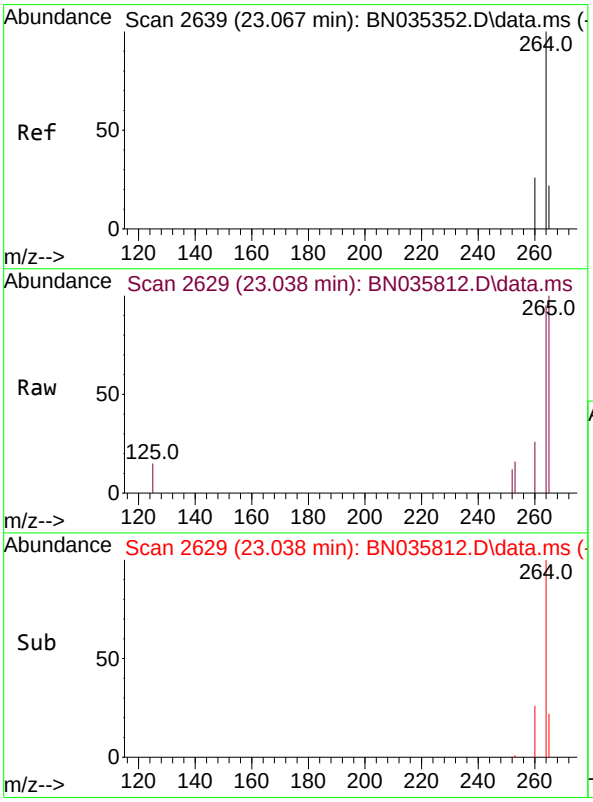
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 10.9 | 8.1 | 12.1 |
| 122 | 14.0 | 10.3 | 15.5 |




**Instrument :**
BNA_N
**ClientSampleId :**
PB165828BL

**Manual Integrations**
**APPROVED**

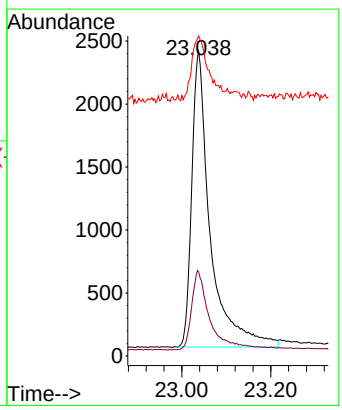
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.038 min Scan# 2629
Delta R.T. -0.003 min
Lab File: BN035812.D
Acq: 24 Dec 2024 09:35

Tgt Ion:264 Resp: 6747

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 27.6 | 21.4 | 32.2 |
| 265 | 105.1 | 40.2 | 60.4# |



Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | AECOM Technical Services, Inc. | Date Collected: | |
| Project: | NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258 | Date Received: | |
| Client Sample ID: | PB165828BS | SDG No.: | P5376 |
| Lab Sample ID: | PB165828BS | Matrix: | Water |
| Analytical Method: | SW8270ESIM | % Solid: | 0 |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-SIMGroup1 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BN035852.D | 1 | 12/23/24 13:29 | 12/26/24 14:19 | PB165828 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 123-91-1 | 1,4-Dioxane | 0.35 | | 0.070 | 0.20 | 0.20 | ug/L |
| **SURROGATES** | | | | | | | |
| 7297-45-2 | 2-Methylnaphthalene-d10 | 0.47 | | 30 - 150 | | 116% | SPK: 0.4 |
| 93951-69-0 | Fluoranthene-d10 | 0.34 | | 30 - 150 | | 85% | SPK: 0.4 |
| 4165-60-0 | Nitrobenzene-d5 | 0.49 | * | 55 - 111 | | 122% | SPK: 0.4 |
| 321-60-8 | 2-Fluorobiphenyl | 0.39 | | 53 - 106 | | 98% | SPK: 0.4 |
| 1718-51-0 | Terphenyl-d14 | 0.48 | | 58 - 132 | | 119% | SPK: 0.4 |
| **INTERNAL STANDARDS** | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 4430 | 7.257 | | | | |
| 1146-65-2 | Naphthalene-d8 | 10900 | 9.998 | | | | |
| 15067-26-2 | Acenaphthene-d10 | 6430 | 13.914 | | | | |
| 1517-22-2 | Phenanthrene-d10 | 13000 | 16.686 | | | | |
| 1719-03-5 | Chrysene-d12 | 9260 | 20.938 | | | | |
| 1520-96-3 | Perylene-d12 | 9150 | 23.023 | | | | |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
Data File : BN035852.D
Acq On : 26 Dec 2024 14:19
Operator : RC/JU
Sample : PB165828BS
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 27 00:41:16 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

**Instrument :**
BNA_N
**ClientSampleId :**
PB165828BS

**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.257 | 152 | 4431 | 0.400 | ng | -0.01 |
| 7) Naphthalene-d8 | 9.998 | 136 | 10905 | 0.400 | ng | #-0.02 |
| 13) Acenaphthene-d10 | 13.914 | 164 | 6427 | 0.400 | ng | -0.02 |
| 19) Phenanthrene-d10 | 16.686 | 188 | 13001 | 0.400 | ng | #-0.01 |
| 29) Chrysene-d12 | 20.938 | 240 | 9257 | 0.400 | ng | #-0.02 |
| 35) Perylene-d12 | 23.023 | 264 | 9148 | 0.400 | ng | #-0.02 |
| System Monitoring Compounds | | | | | | |
| 4) 2-Fluorophenol | 4.924 | 112 | 3645 | 0.329 | ng | -0.01 |
| 5) Phenol-d6 | 6.470 | 99 | 4024 | 0.302 | ng | -0.02 |
| 8) Nitrobenzene-d5 | 8.397 | 82 | 3243m | 0.487 | ng | -0.01 |
| 11) 2-Methylnaphthalene-d10 | 11.600 | 152 | 7947 | 0.466 | ng | -0.02 |
| 14) 2,4,6-Tribromophenol | 15.442 | 330 | 913 | 0.200 | ng | -0.01 |
| 15) 2-Fluorobiphenyl | 12.523 | 172 | 9578 | 0.394 | ng | -0.02 |
| 27) Fluoranthene-d10 | 18.747 | 212 | 12504 | 0.339 | ng | -0.01 |
| 31) Terphenyl-d14 | 19.379 | 244 | 8698 | 0.476 | ng | 0.00 |
| Target Compounds | | | | | | Qvalue |
| 2) 1,4-Dioxane | 2.974 | 88 | 1467 | 0.346 | ng | # 88 |
| 3) n-Nitrosodimethylamine | 3.263 | 42 | 1440 | 0.408 | ng | # 88 |
| 6) bis(2-Chloroethyl)ether | 6.708 | 93 | 3983 | 0.355 | ng | 99 |
| 9) Naphthalene | 10.052 | 128 | 11935 | 0.415 | ng | 99 |
| 10) Hexachlorobutadiene | 10.340 | 225 | 2551 | 0.385 | ng | # 99 |
| 12) 2-Methylnaphthalene | 11.681 | 142 | 7534 | 0.366 | ng | 96 |
| 16) Acenaphthylene | 13.625 | 152 | 10983 | 0.407 | ng | 100 |
| 17) Acenaphthene | 13.978 | 154 | 6982 | 0.390 | ng | 99 |
| 18) Fluorene | 14.983 | 166 | 9056 | 0.353 | ng | 100 |
| 20) 4,6-Dinitro-2-methylph... | 15.111 | 198 | 645 | 0.505 | ng | 92 |
| 21) 4-Bromophenyl-phenylether | 15.904 | 248 | 2685 | 0.353 | ng | 97 |
| 22) Hexachlorobenzene | 15.991 | 284 | 3862 | 0.432 | ng | 96 |
| 23) Atrazine | 16.189 | 200 | 2110 | 0.390 | ng | 96 |
| 24) Pentachlorophenol | 16.363 | 266 | 1614 | 0.415 | ng | # 85 |
| 25) Phenanthrene | 16.735 | 178 | 14161 | 0.397 | ng | 100 |
| 26) Anthracene | 16.822 | 178 | 12409 | 0.384 | ng | 99 |
| 28) Fluoranthene | 18.780 | 202 | 15692 | 0.326 | ng | 99 |
| 30) Pyrene | 19.147 | 202 | 15917 | 0.466 | ng | 100 |
| 32) Benzo(a)anthracene | 20.929 | 228 | 11832 | 0.365 | ng | 99 |
| 33) Chrysene | 20.974 | 228 | 14241 | 0.426 | ng | 100 |
| 34) Bis(2-ethylhexyl)phtha... | 20.893 | 149 | 5313 | 0.415 | ng | 99 |
| 36) Indeno(1,2,3-cd)pyrene | 25.044 | 276 | 15551 | 0.435 | ng | 99 |
| 37) Benzo(b)fluoranthene | 22.415 | 252 | 19434 | 0.581 | ng | # 96 |
| 38) Benzo(k)fluoranthene | 22.456 | 252 | 14469 | 0.439 | ng | 95 |
| 39) Benzo(a)pyrene | 22.936 | 252 | 11624 | 0.422 | ng | # 91 |
| 40) Dibenzo(a,h)anthracene | 25.061 | 278 | 11696 | 0.414 | ng | 95 |
| 41) Benzo(g,h,i)perylene | 25.649 | 276 | 12710 | 0.431 | ng | 98 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

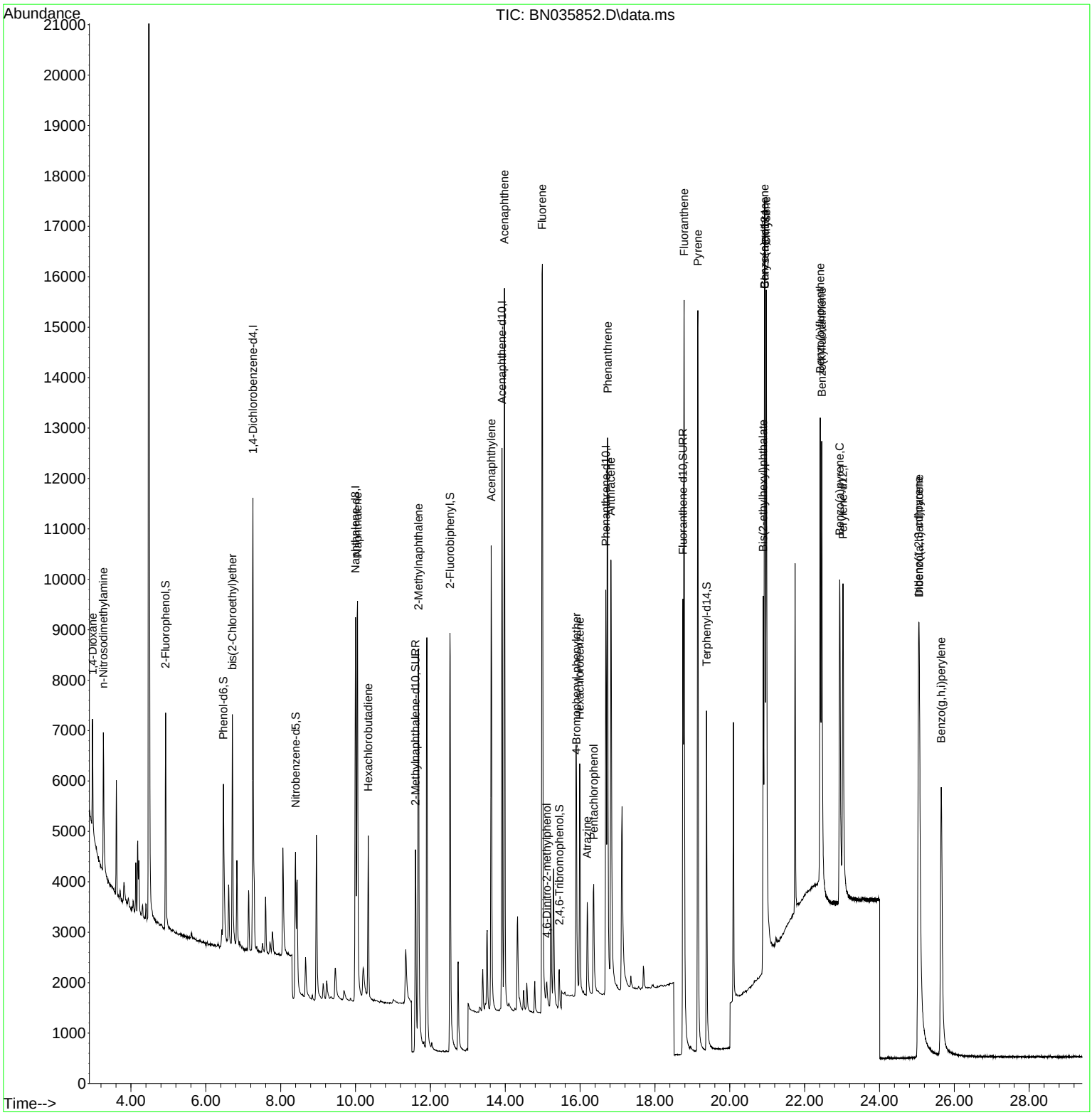
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Data File : BN035852.D
Acq On : 26 Dec 2024 14:19
Operator : RC/JU
Sample : PB165828BS
Misc :
ALS Vial : 9 Sample Multiplier: 1

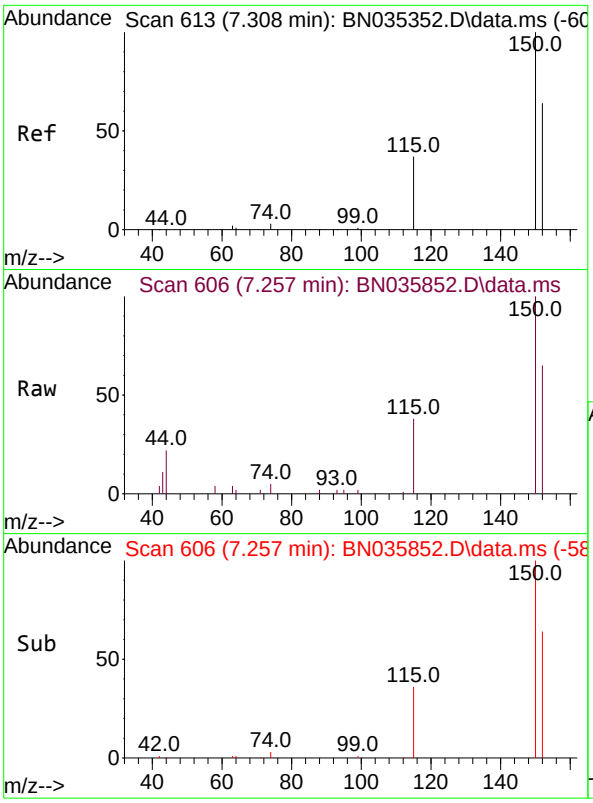
Quant Time: Dec 27 00:41:16 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

**Instrument :**
BNA_N
**ClientSampleId :**
PB165828BS

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

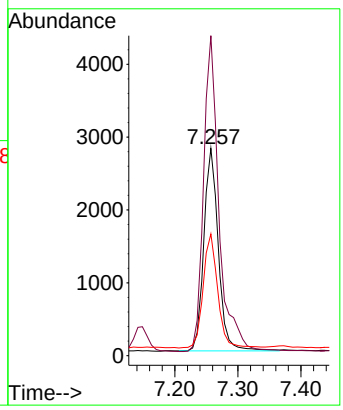





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 6
Delta R.T. -0.015 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:152 Resp: 443

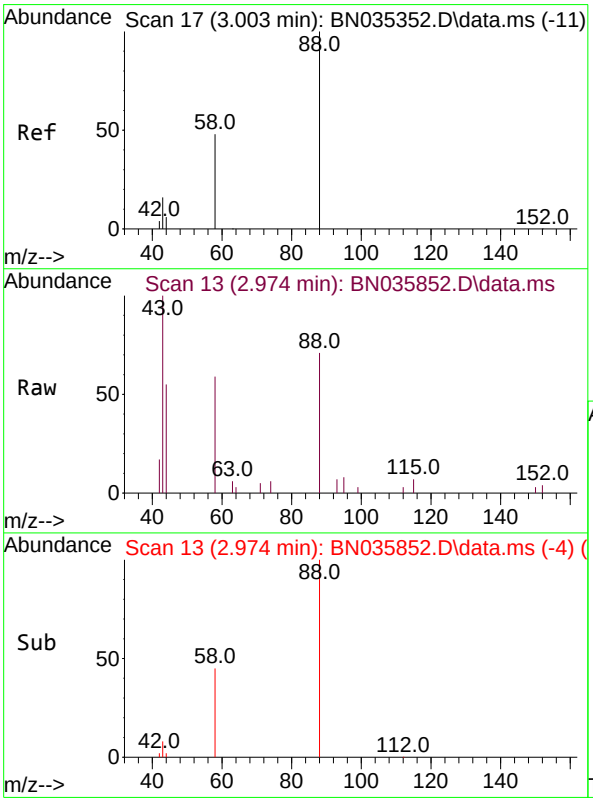
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 154.4 | 124.0 | 186.0 |
| 115 | 58.7 | 49.6 | 74.4 |




**Instrument :**
BNA_N
**ClientSampleId :**
PB165828BS

**Manual Integrations**
**APPROVED**

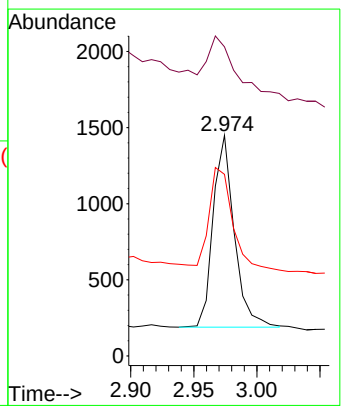
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

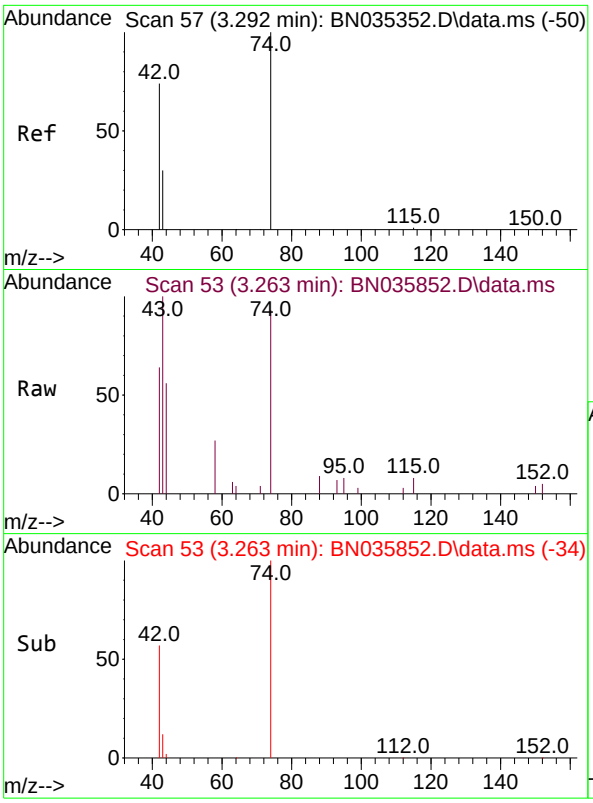



#2
1,4-Dioxane
Concen: 0.346 ng
RT: 2.974 min Scan# 13
Delta R.T. -0.008 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion: 88 Resp: 1467

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 35.7 | 17.2 | 25.8# |
| 58 | 59.5 | 44.5 | 66.7 |

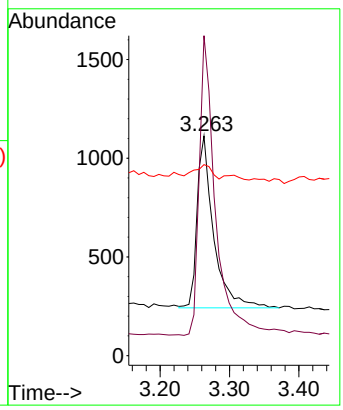





#3
n-Nitrosodimethylamine
Concen: 0.408 ng
RT: 3.263 min Scan# 5
Delta R.T. -0.015 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

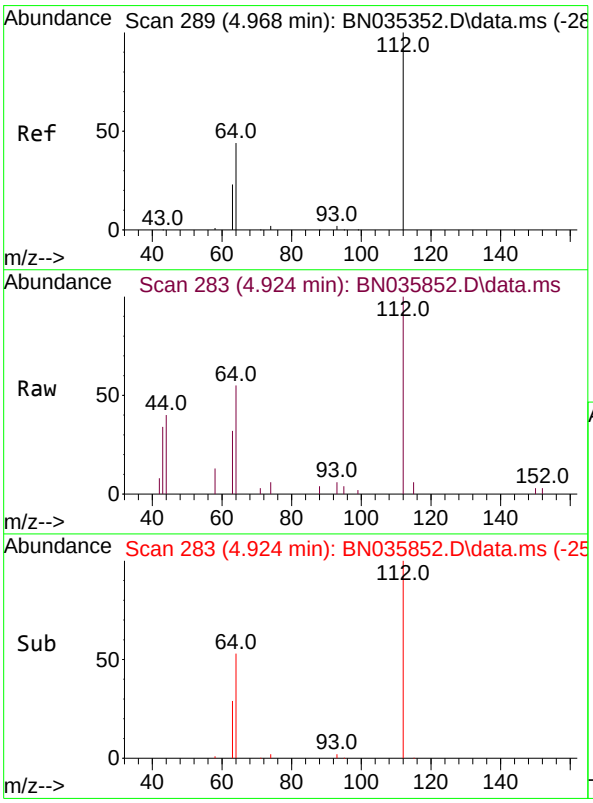
Tgt Ion: 42 Resp: 144

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 172.0 | 124.9 | 187.3 |
| 44 | 8.5 | 2.2 | 3.4 |




**Instrument :**
BNA_N
**ClientSampleId :**
PB165828BS

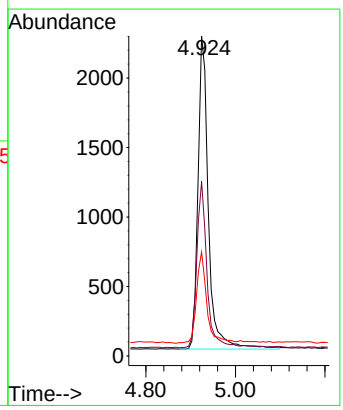
**Manual Integrations**
**APPROVED**
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

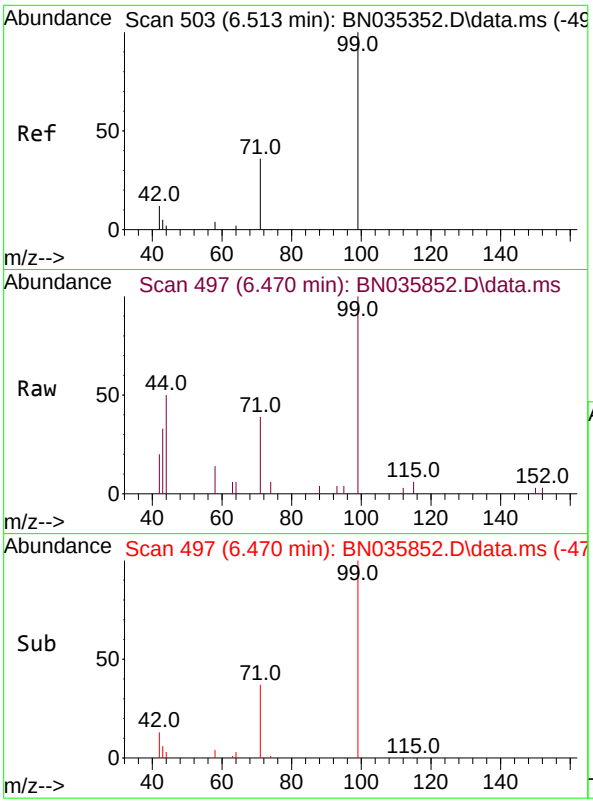



#4
2-Fluorophenol
Concen: 0.329 ng
RT: 4.924 min Scan# 283
Delta R.T. -0.015 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:112 Resp: 3645

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 51.2 | 39.8 | 59.8 |
| 63 | 28.7 | 21.0 | 31.6 |

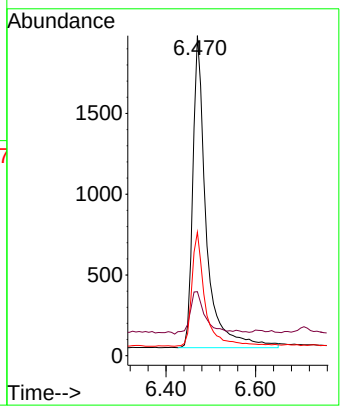





#5
Phenol-d6
Concen: 0.302 ng
RT: 6.470 min Scan# 4
Delta R.T. -0.022 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

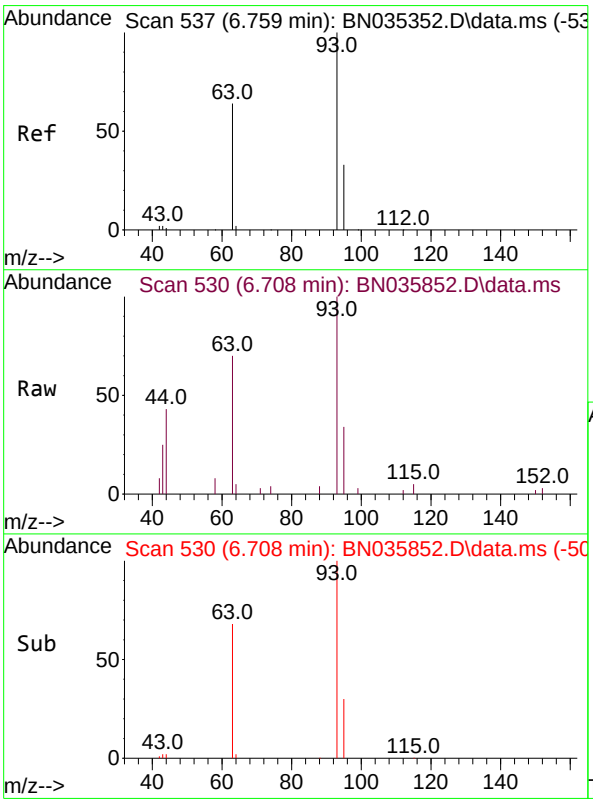
Tgt Ion: 99 Resp: 402

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 15.6 | 11.4 | 17.2 |
| 71 | 36.4 | 29.3 | 43.9 |




**Instrument :**
BNA_N
**ClientSampleId :**
PB165828BS

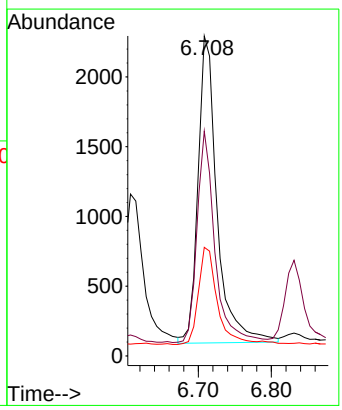
**Manual Integrations**
**APPROVED**
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

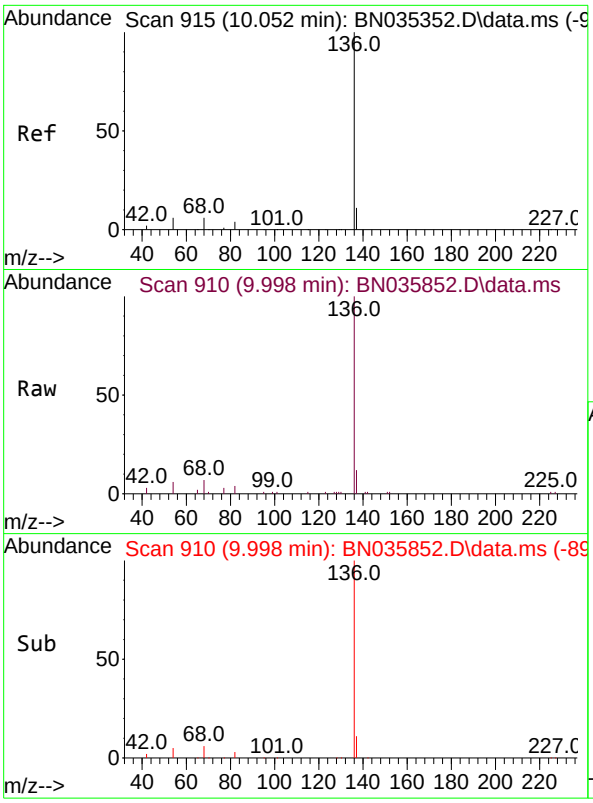



#6
bis(2-Chloroethyl)ether
Concen: 0.355 ng
RT: 6.708 min Scan# 530
Delta R.T. -0.022 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion: 93 Resp: 3983

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 64.4 | 50.4 | 75.6 |
| 95 | 32.1 | 25.7 | 38.5 |

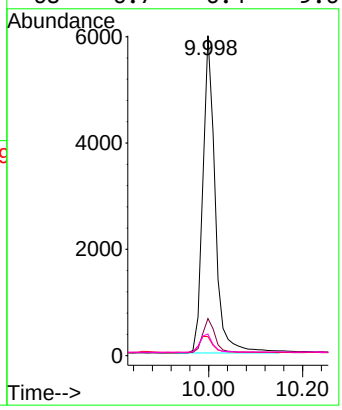





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 9.998 min Scan# 9
Delta R.T. -0.022 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:136 Resp: 1090

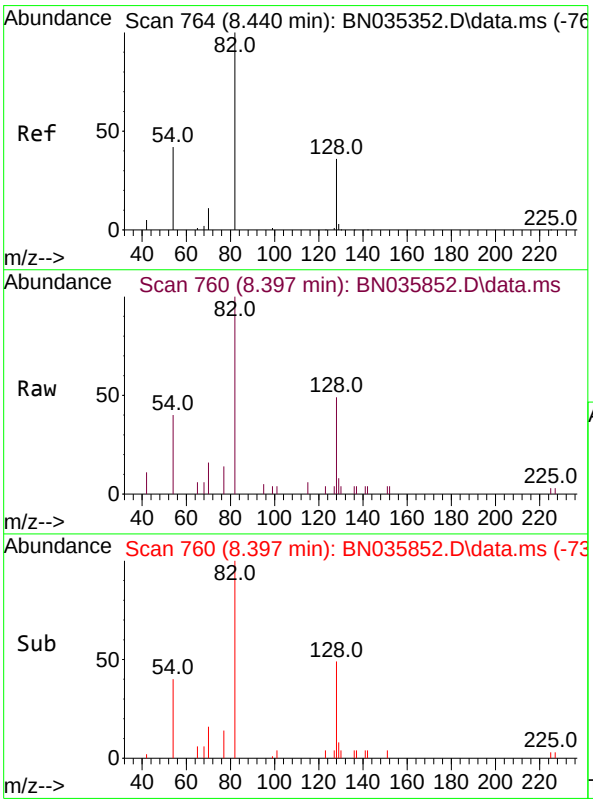
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.6 | 10.2 | 15.2 |
| 54 | 5.9 | 6.1 | 9.1 |
| 68 | 6.7 | 6.4 | 9.6 |




**Instrument :**
BNA_N
**ClientSampleId :**
PB165828BS

**Manual Integrations**
**APPROVED**

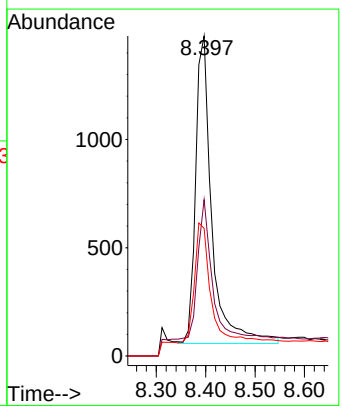
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

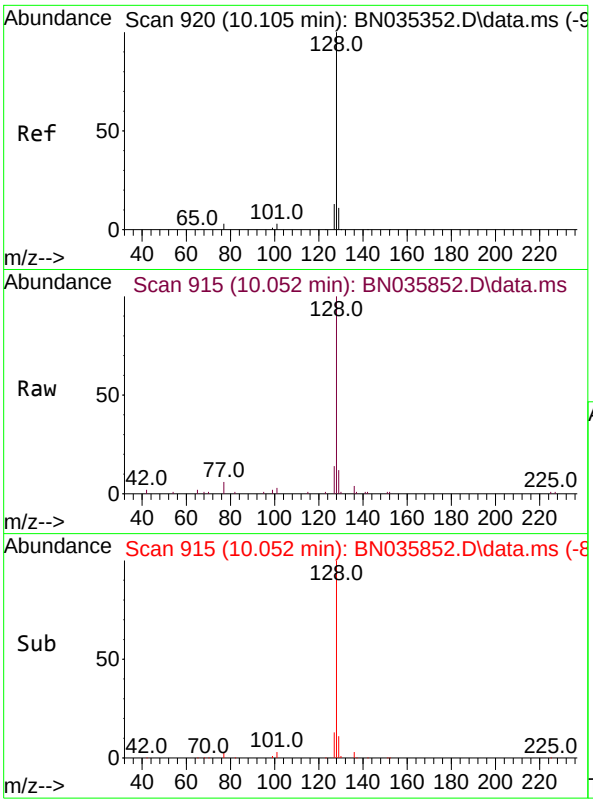



#8
Nitrobenzene-d5
Concen: 0.487 ng m
RT: 8.397 min Scan# 760
Delta R.T. -0.011 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion: 82 Resp: 3243

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 48.8 | 33.4 | 50.0 |
| 54 | 39.9 | 36.7 | 55.1 |

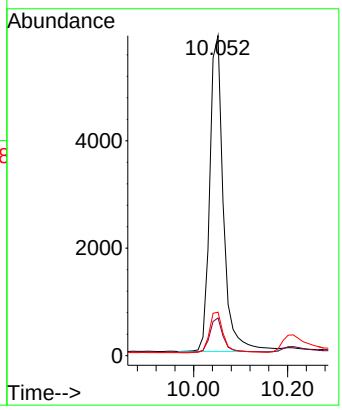





#9
Naphthalene
Concen: 0.415 ng
RT: 10.052 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:128 Resp: 1193

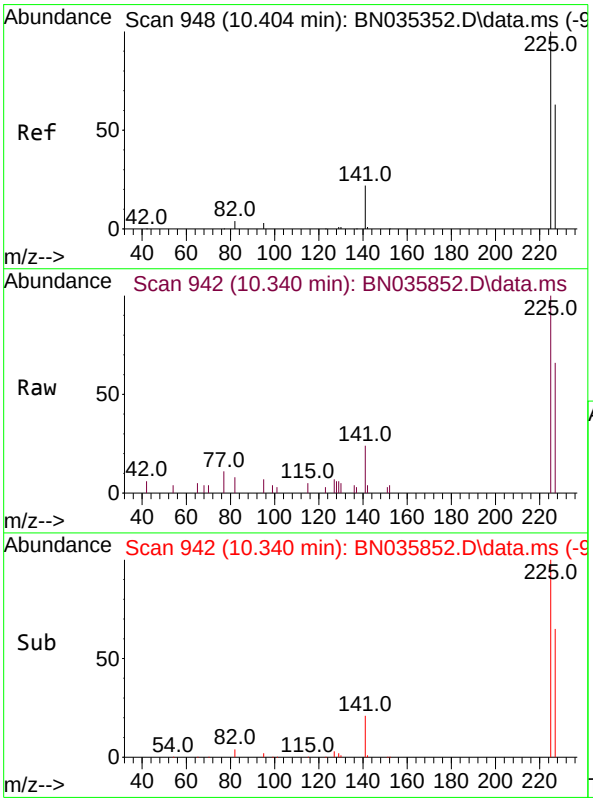
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 11.8 | 9.8 | 14.6 |
| 127 | 13.6 | 11.4 | 17.2 |




**Instrument :**
BNA_N
**ClientSampleId :**
PB165828BS

**Manual Integrations**
**APPROVED**

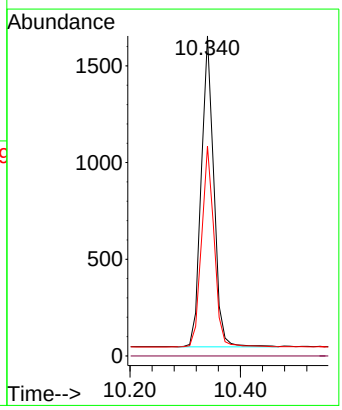
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

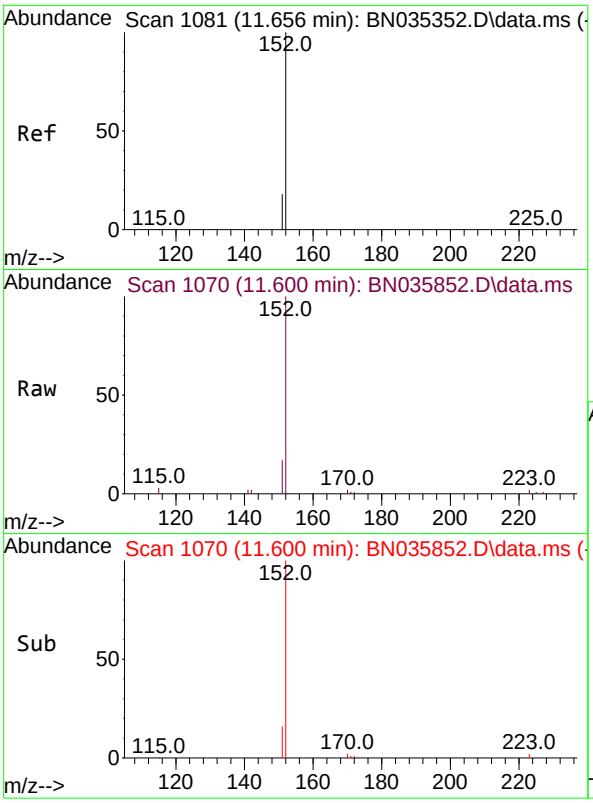



#10
Hexachlorobutadiene
Concen: 0.385 ng
RT: 10.340 min Scan# 942
Delta R.T. -0.022 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:225 Resp: 2551

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 0.0 | 0.0 | 0.0 |
| 227 | 64.9 | 51.3 | 76.9 |

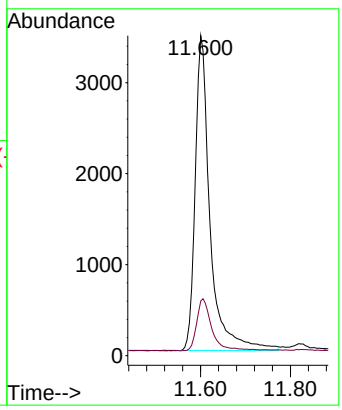





#11
2-Methylnaphthalene-d10
Concen: 0.466 ng
RT: 11.600 min Scan# 1
Delta R.T. -0.021 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:152 Resp: 794

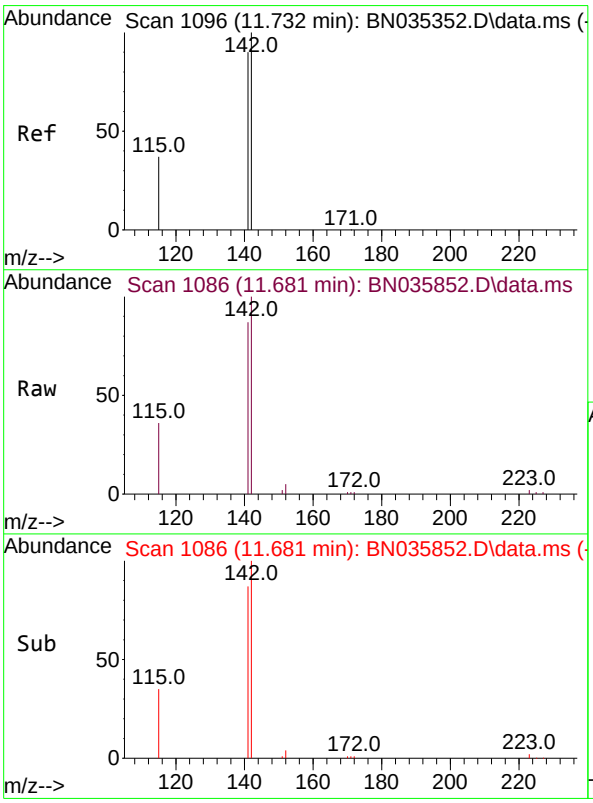
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 16.8 | 16.6 | 25.0 |




**Instrument :**
BNA_N
**ClientSampleId :**
PB165828BS

**Manual Integrations**
**APPROVED**

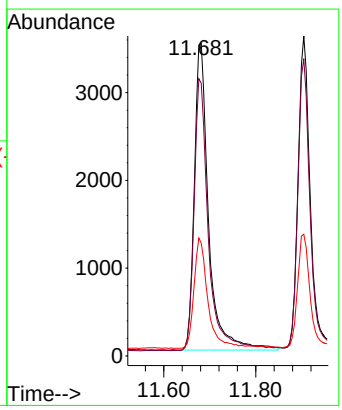
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

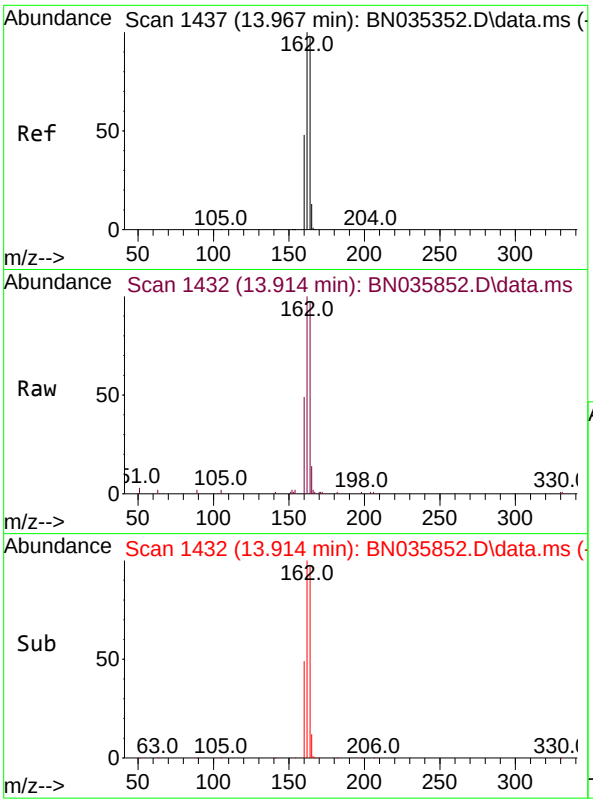



#12
2-Methylnaphthalene
Concen: 0.366 ng
RT: 11.681 min Scan# 1086
Delta R.T. -0.015 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:142 Resp: 7534

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 87.3 | 72.2 | 108.4 |
| 115 | 36.1 | 31.4 | 47.0 |

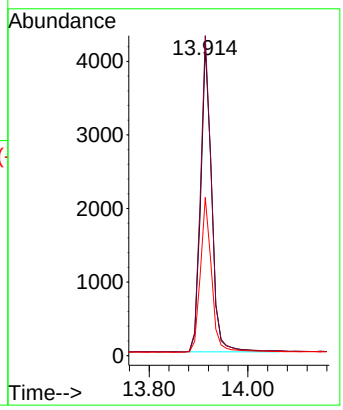





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.914 min Scan# 14
Delta R.T. -0.022 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:164 Resp: 642

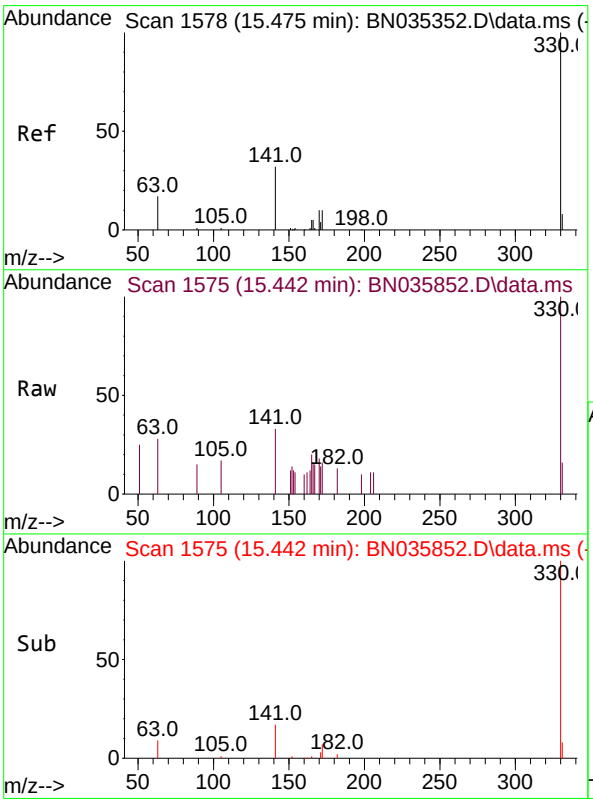
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 103.4 | 82.2 | 123.2 |
| 160 | 51.1 | 40.1 | 60.1 |




**Instrument :**
BNA_N
**ClientSampleId :**
PB165828BS

**Manual Integrations**
**APPROVED**

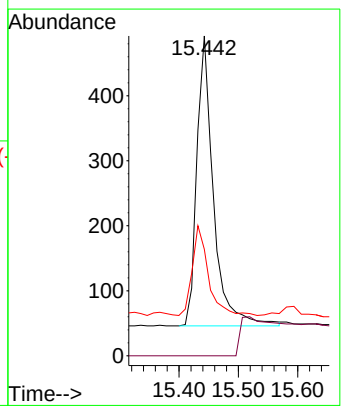
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

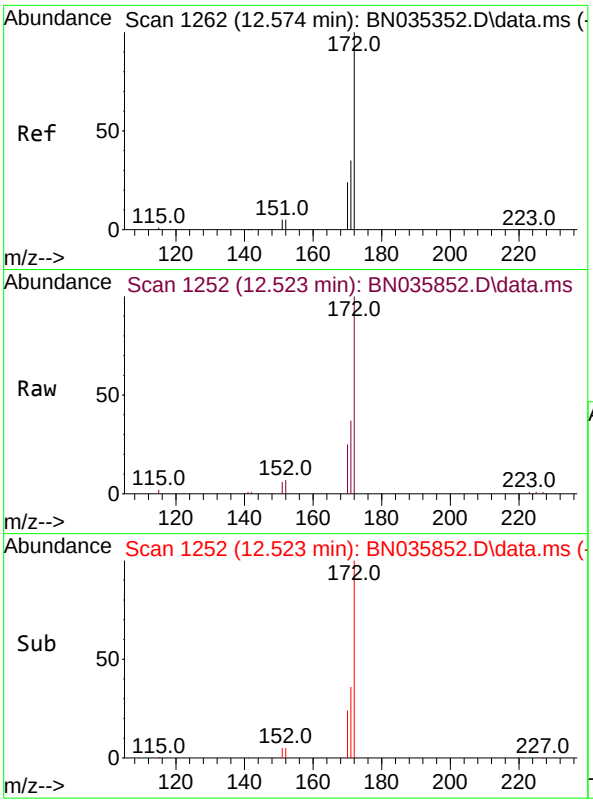



#14
2,4,6-Tribromophenol
Concen: 0.200 ng
RT: 15.442 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:330 Resp: 913

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 0.0 | 0.0 | 0.0 |
| 141 | 29.1 | 26.6 | 40.0 |

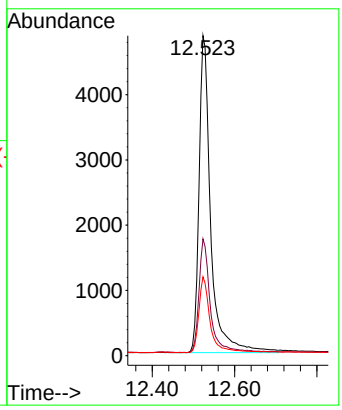





#15
2-Fluorobiphenyl
Concen: 0.394 ng
RT: 12.523 min Scan# 1
Delta R.T. -0.021 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:172 Resp: 957

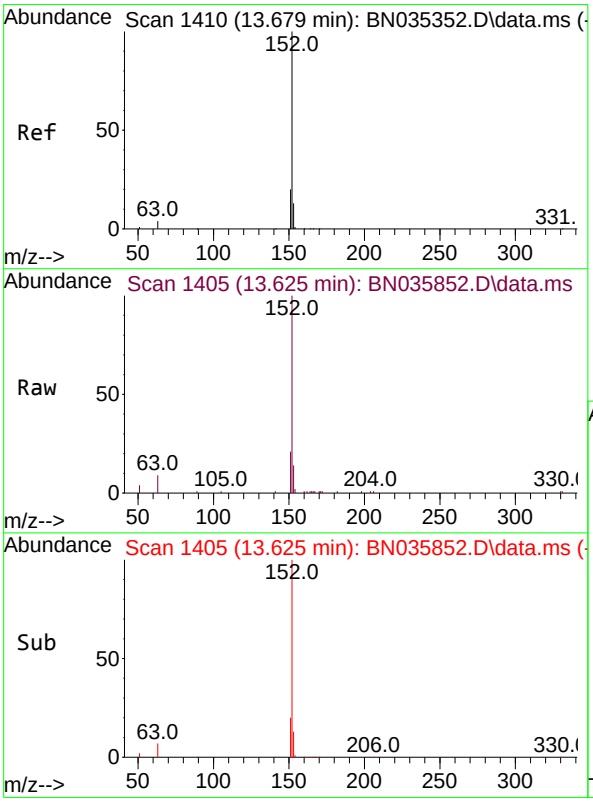
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 36.5 | 29.0 | 43.4 |
| 170 | 24.6 | 19.8 | 29.8 |




**Instrument :**
BNA_N
**ClientSampleId :**
PB165828BS

**Manual Integrations**
**APPROVED**

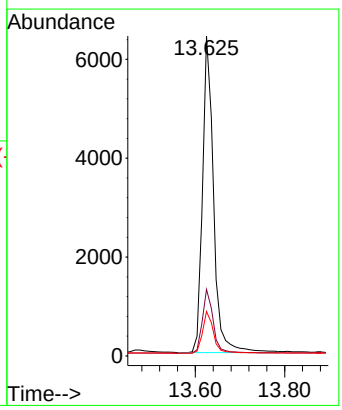
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

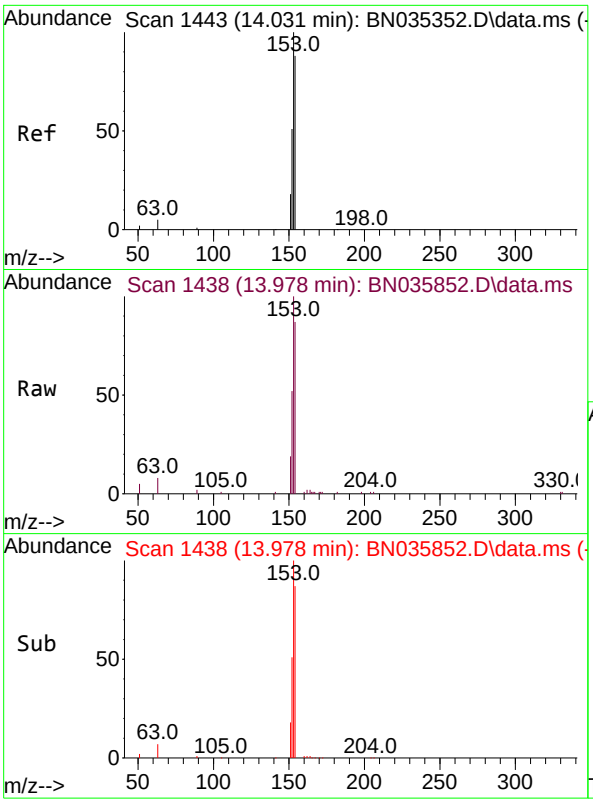



#16
Acenaphthylene
Concen: 0.407 ng
RT: 13.625 min Scan# 1405
Delta R.T. -0.022 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:152 Resp: 10983

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.1 | 16.2 | 24.2 |
| 153 | 13.3 | 10.4 | 15.6 |

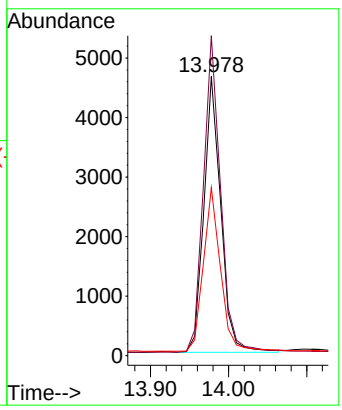





#17
Acenaphthene
Concen: 0.390 ng
RT: 13.978 min Scan# 14
Delta R.T. -0.022 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:154 Resp: 698

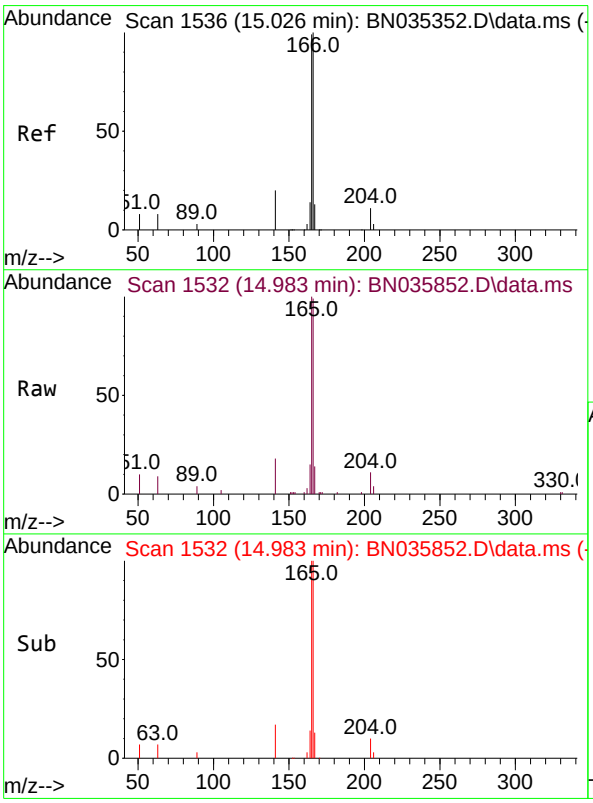
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 117.4 | 92.6 | 139.0 |
| 152 | 60.2 | 49.0 | 73.6 |




**Instrument :**
BNA_N
**ClientSampleId :**
PB165828BS

**Manual Integrations**
**APPROVED**

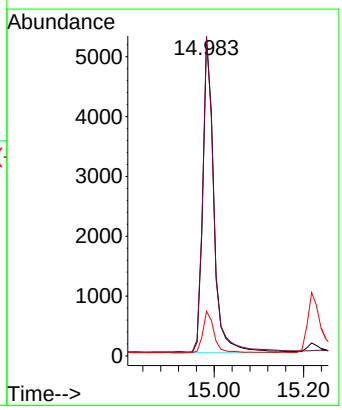
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

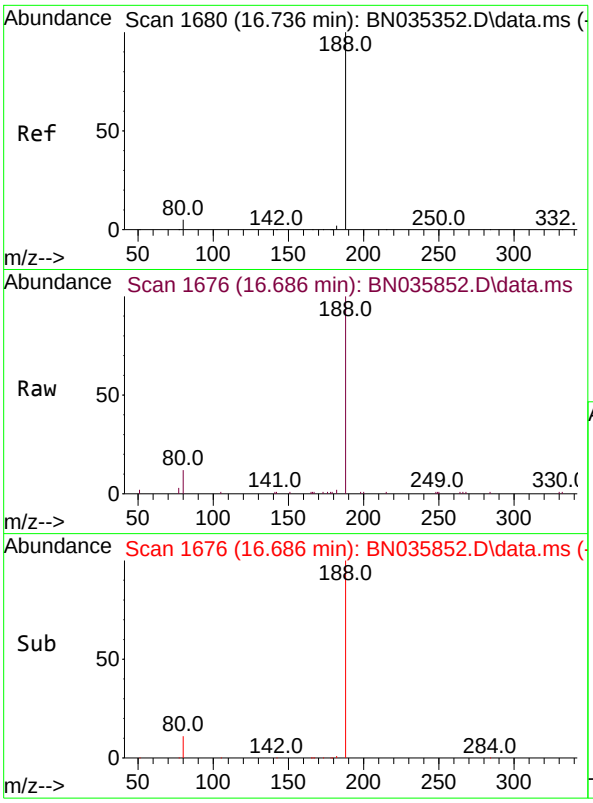



#18
Fluorene
Concen: 0.353 ng
RT: 14.983 min Scan# 1532
Delta R.T. -0.022 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:166 Resp: 9056

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 99.5 | 79.7 | 119.5 |
| 167 | 13.2 | 10.8 | 16.2 |

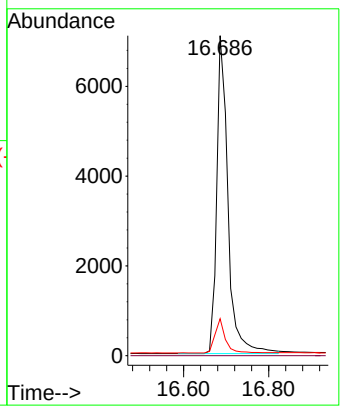





#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.686 min Scan# 1(
Delta R.T. -0.013 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

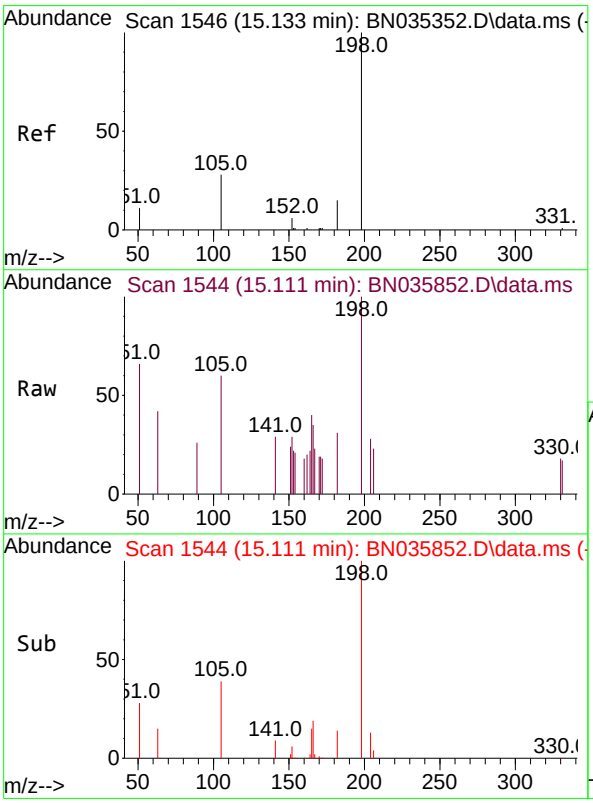
Tgt Ion:188 Resp: 1300

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 11.6 | 4.6 | 6.8# |




**Instrument :**
BNA_N
**ClientSampleId :**
PB165828BS

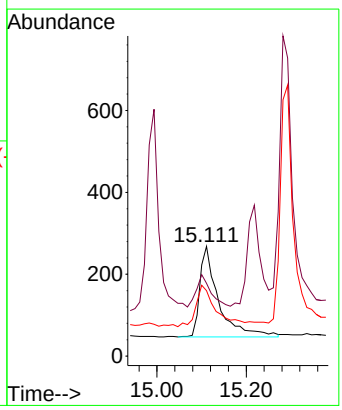
**Manual Integrations**
**APPROVED**
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

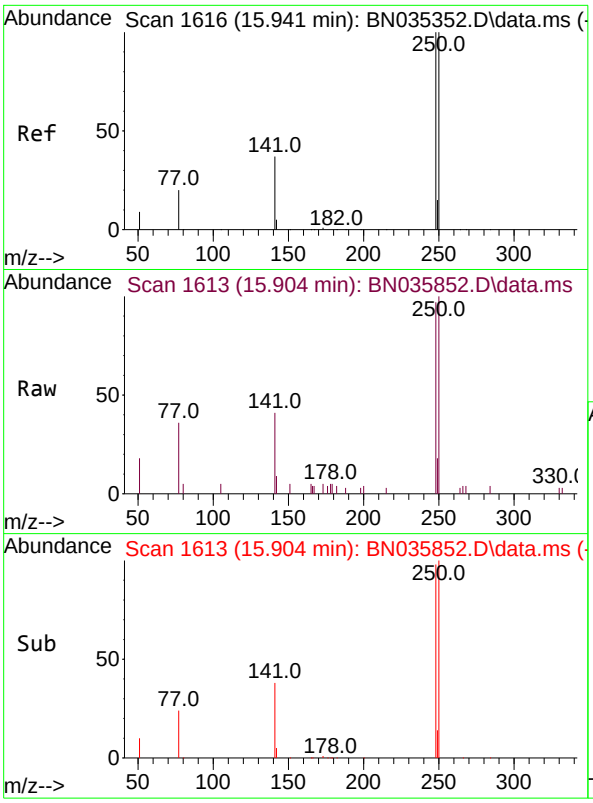



#20
4,6-Dinitro-2-methylphenol
Concen: 0.505 ng
RT: 15.111 min Scan# 1544
Delta R.T. -0.011 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:198 Resp: 645

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 198 | 100 | | |
| 51 | 66.4 | 46.5 | 69.7 |
| 105 | 59.7 | 45.3 | 67.9 |

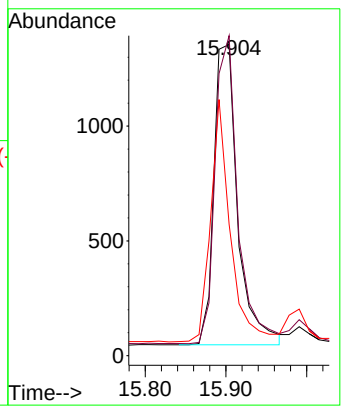





#21
4-Bromophenyl-phenylether
Concen: 0.353 ng
RT: 15.904 min Scan# 1(
Delta R.T. -0.013 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:248 Resp: 268

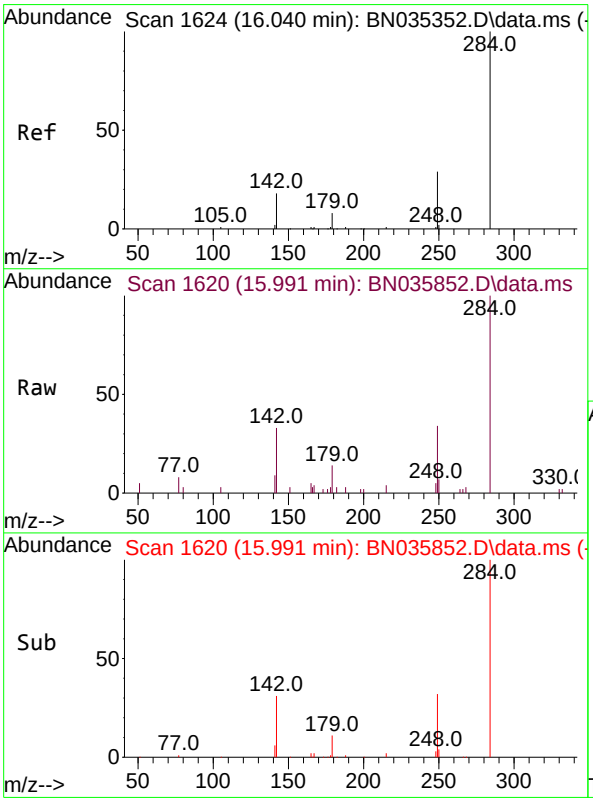
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 102.8 | 80.6 | 120.8 |
| 141 | 42.2 | 31.5 | 47.3 |




**Instrument :**
BNA_N
**ClientSampleId :**
PB165828BS

**Manual Integrations**
**APPROVED**

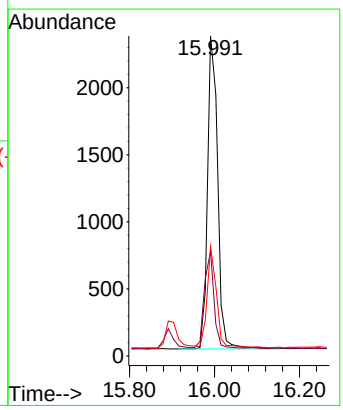
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

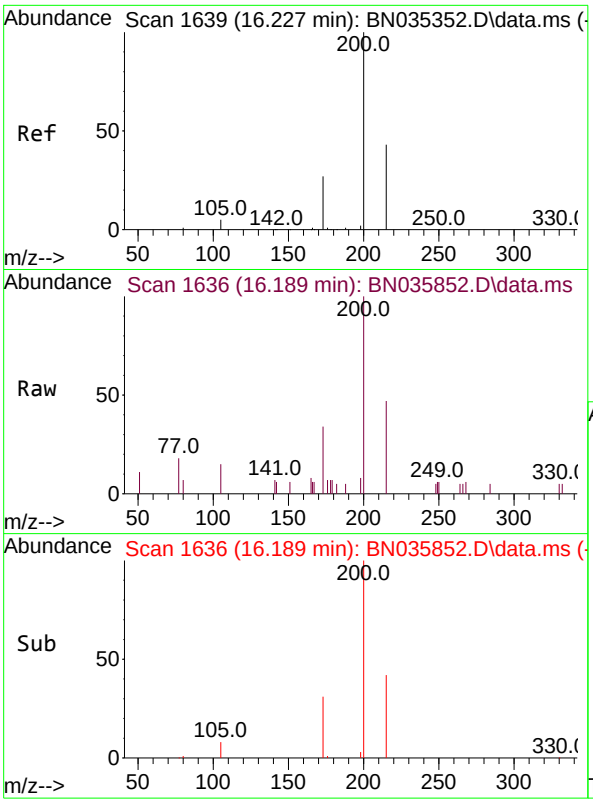



#22
Hexachlorobenzene
Concen: 0.432 ng
RT: 15.991 min Scan# 1620
Delta R.T. -0.025 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:284 Resp: 3862

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 29.3 | 26.7 | 40.1 |
| 249 | 30.2 | 24.6 | 36.8 |






#23
Atrazine
Concen: 0.390 ng
RT: 16.189 min Scan# 1(
Delta R.T. -0.013 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

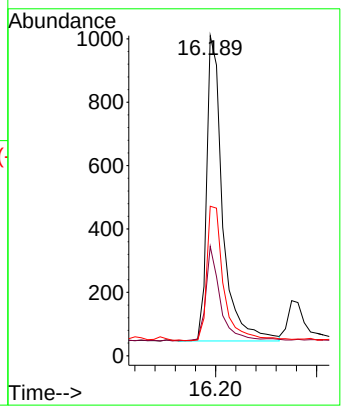
Tgt Ion:200 Resp: 211(

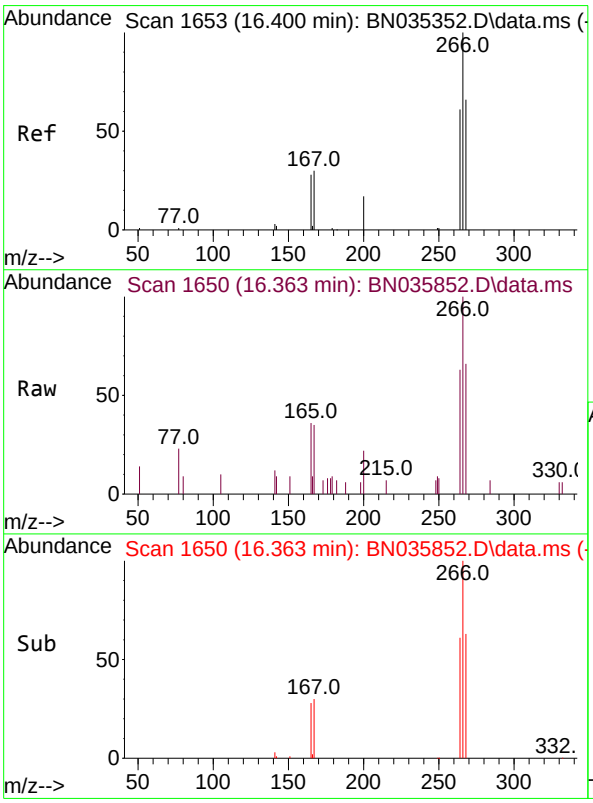
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 173 | 34.2 | 24.1 | 36.1 |
| 215 | 46.7 | 36.9 | 55.3 |

**Instrument :**
BNA_N
**ClientSampleId :**
PB165828BS

**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

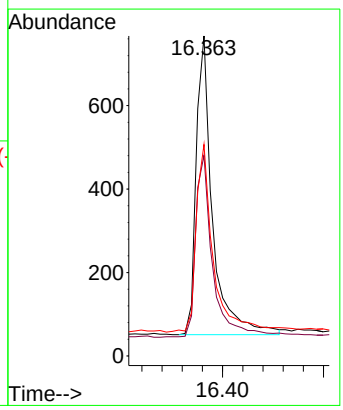


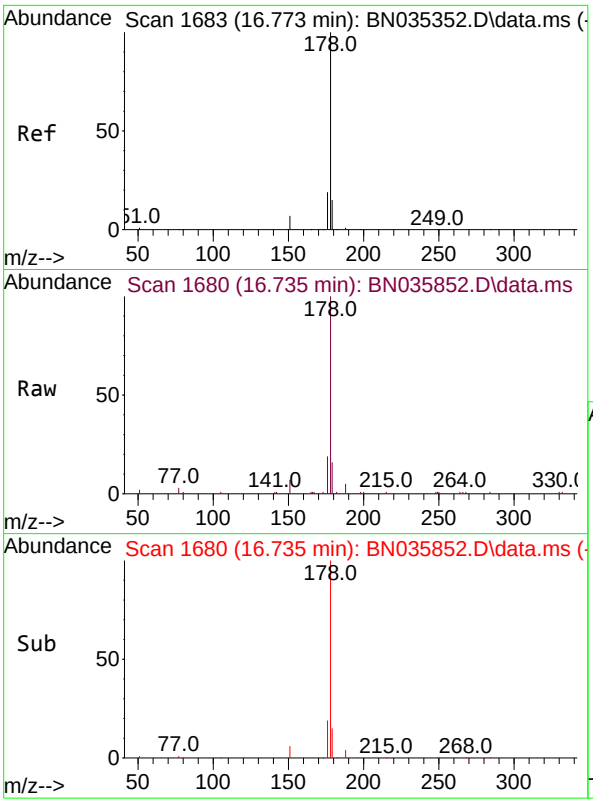




#24
Pentachlorophenol
Concen: 0.415 ng
RT: 16.363 min Scan# 1650
Delta R.T. -0.013 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:266 Resp: 1614

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 264 | 63.1 | 42.3 | 63.5 |
| 268 | 65.7 | 43.3 | 64.9# |

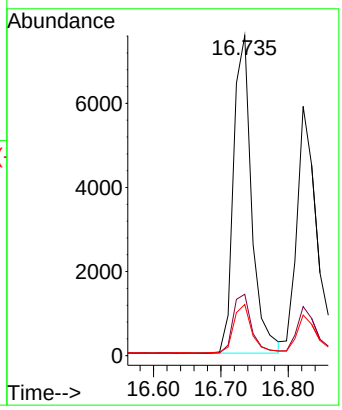





#25
Phenanthrene
Concen: 0.397 ng
RT: 16.735 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:178 Resp: 1416

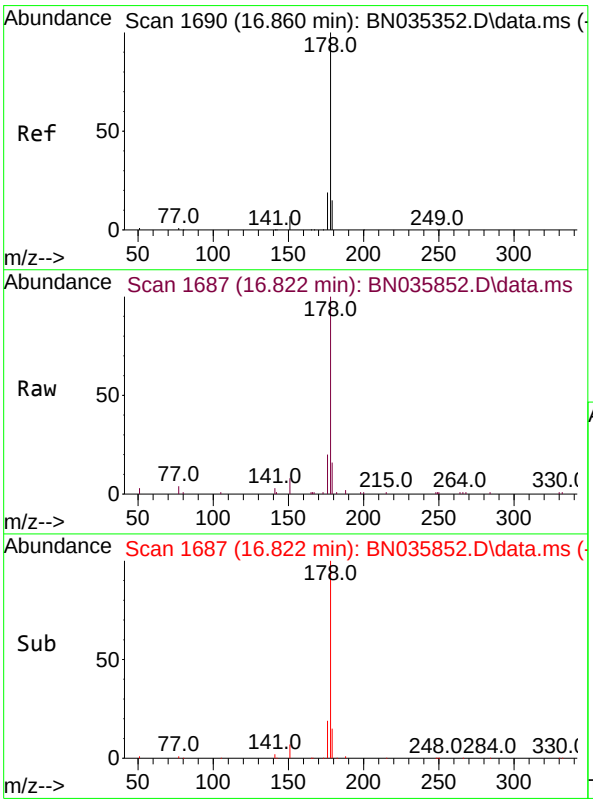
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.3 | 15.4 | 23.2 |
| 179 | 15.3 | 12.3 | 18.5 |




**Instrument :**
BNA_N
**ClientSampleId :**
PB165828BS

**Manual Integrations**
**APPROVED**

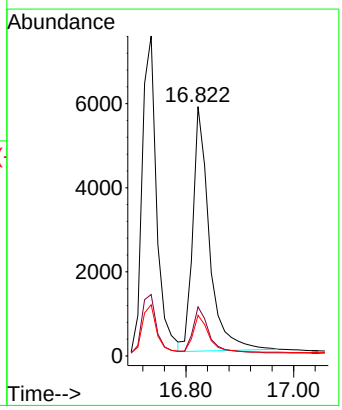
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

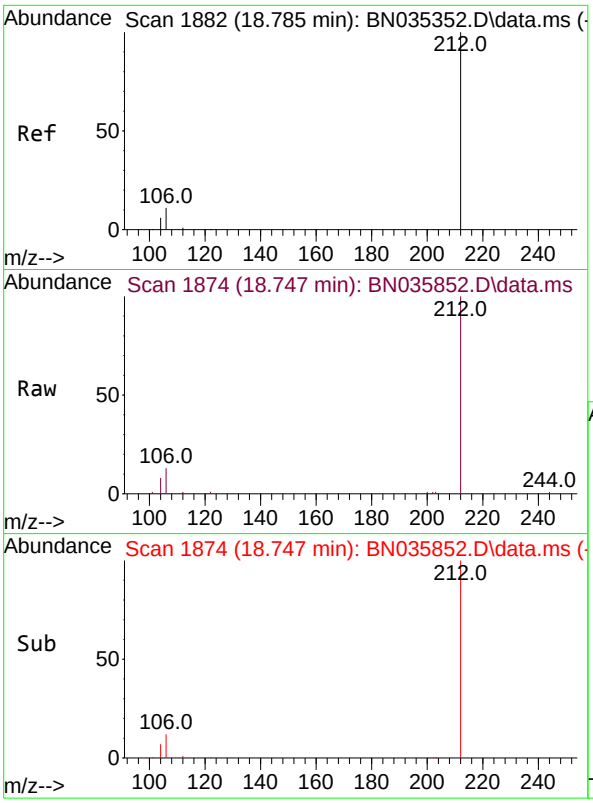



#26
Anthracene
Concen: 0.384 ng
RT: 16.822 min Scan# 1687
Delta R.T. -0.013 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:178 Resp: 12409

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.9 | 15.0 | 22.6 |
| 179 | 14.9 | 12.6 | 18.8 |

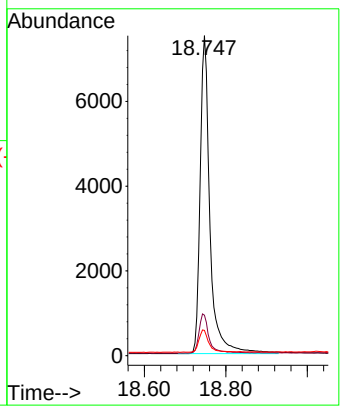





#27
Fluoranthene-d10
Concen: 0.339 ng
RT: 18.747 min Scan# 1
Delta R.T. -0.014 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:212 Resp: 1250

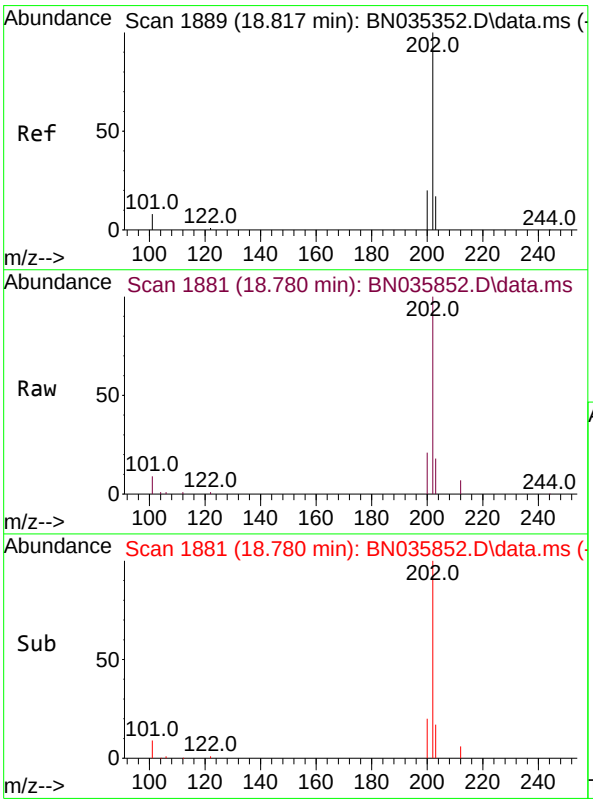
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 12.6 | 9.2 | 13.8 |
| 104 | 7.0 | 5.3 | 7.9 |




**Instrument :**
BNA_N
**ClientSampleId :**
PB165828BS

**Manual Integrations APPROVED**

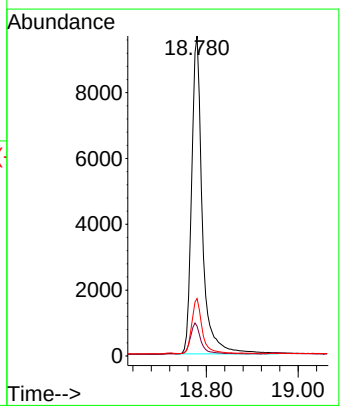
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

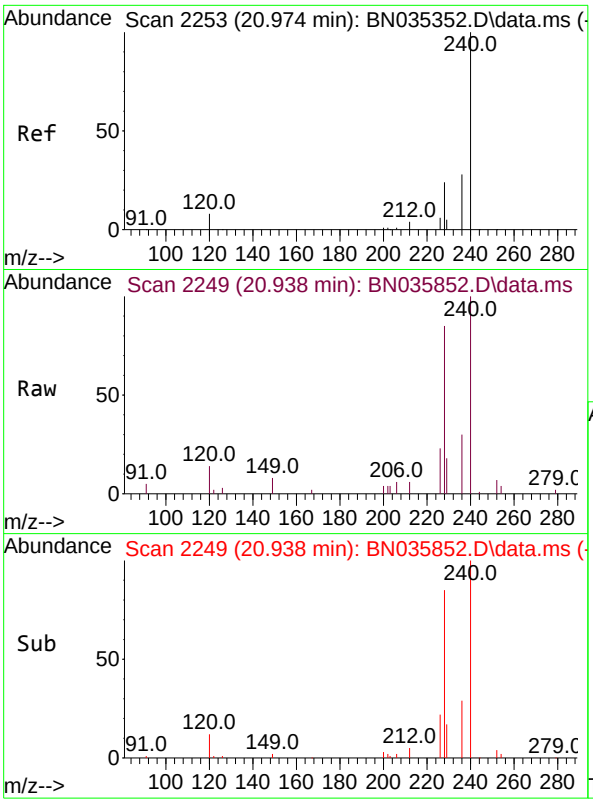



#28
Fluoranthene
Concen: 0.326 ng
RT: 18.780 min Scan# 1881
Delta R.T. -0.010 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:202 Resp: 15692

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 9.5 | 7.4 | 11.0 |
| 203 | 16.8 | 13.7 | 20.5 |

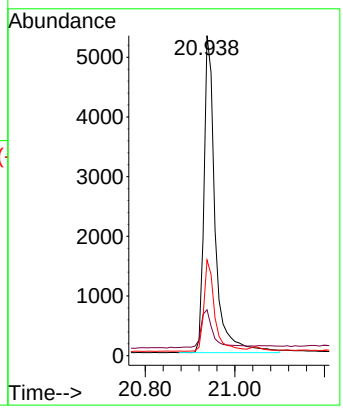





#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.938 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:240 Resp: 925

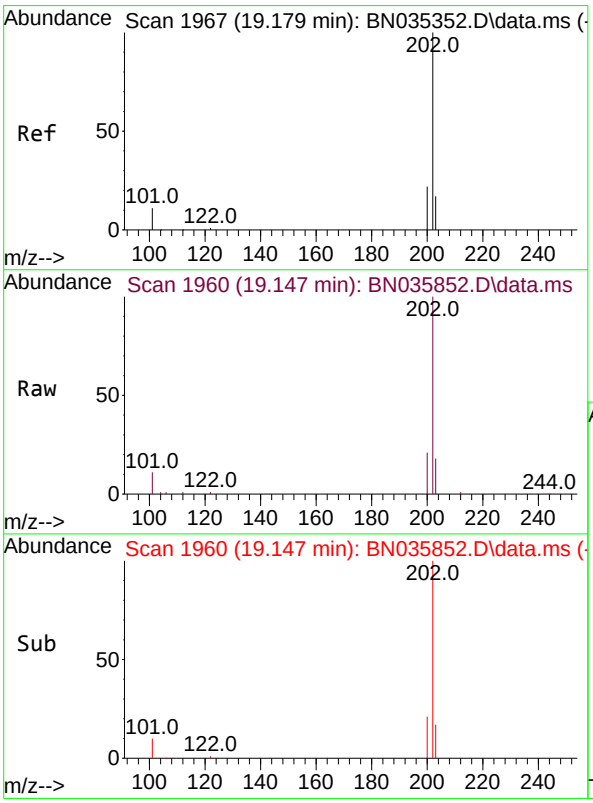
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 14.3 | 7.9 | 11.9 |
| 236 | 29.9 | 22.9 | 34.3 |




**Instrument :**
BNA_N
**ClientSampleId :**
PB165828BS

**Manual Integrations**
**APPROVED**

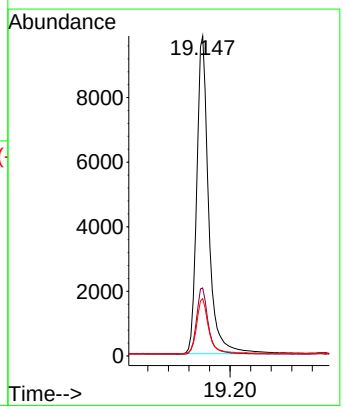
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

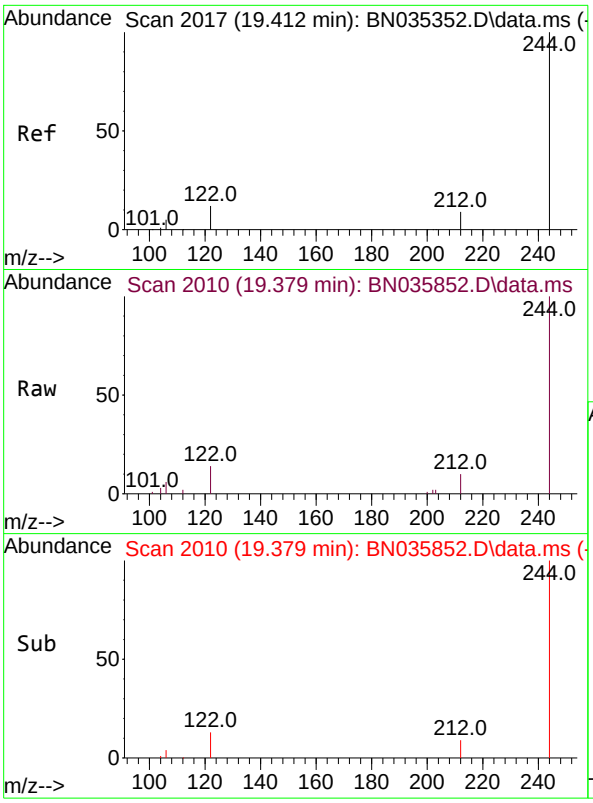



#30
Pyrene
Concen: 0.466 ng
RT: 19.147 min Scan# 1960
Delta R.T. -0.014 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:202 Resp: 15917

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.2 | 17.0 | 25.4 |
| 203 | 17.5 | 14.3 | 21.5 |

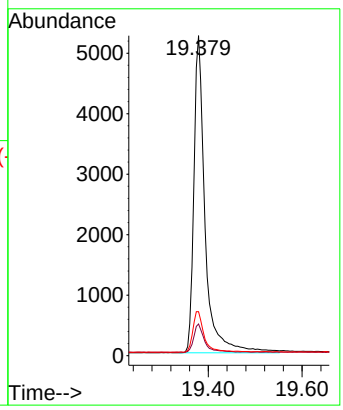





#31
Terphenyl-d14
Concen: 0.476 ng
RT: 19.379 min Scan# 2
Delta R.T. -0.010 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:244 Resp: 869

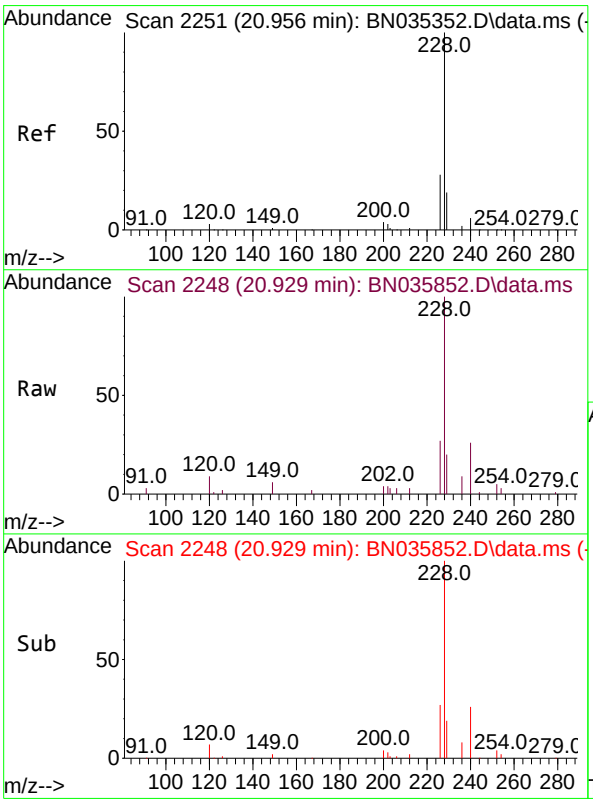
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 9.9 | 8.1 | 12.1 |
| 122 | 13.7 | 10.3 | 15.5 |




**Instrument :**
BNA_N
**ClientSampleId :**
PB165828BS

**Manual Integrations**
**APPROVED**

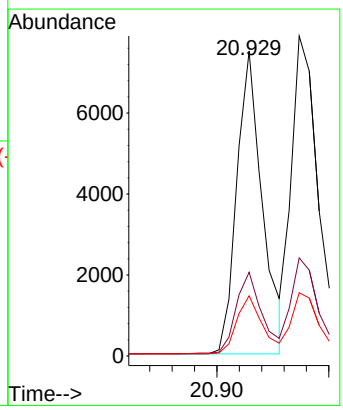
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

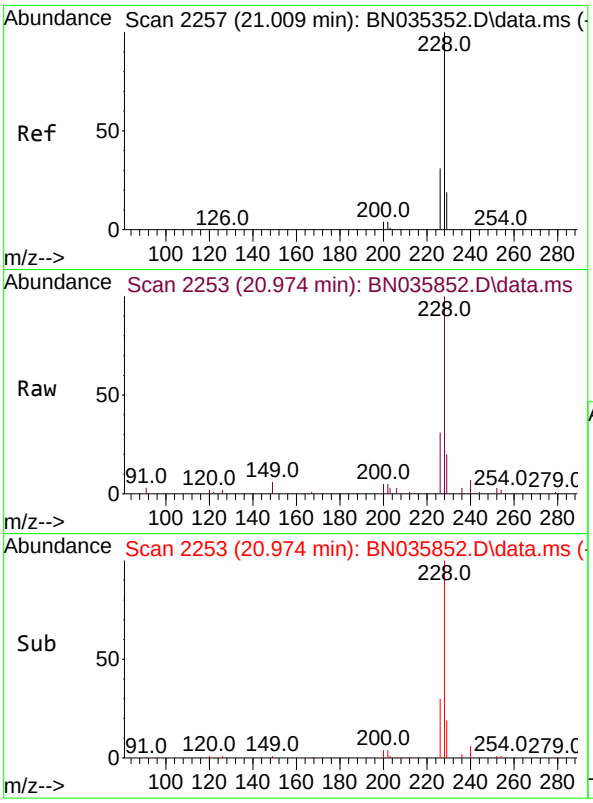



#32
Benzo(a)anthracene
Concen: 0.365 ng
RT: 20.929 min Scan# 2248
Delta R.T. -0.009 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:228 Resp: 11832

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 27.5 | 22.5 | 33.7 |
| 229 | 19.7 | 15.8 | 23.8 |

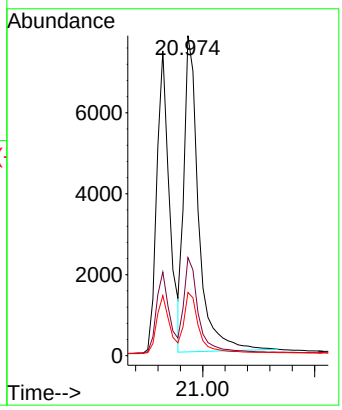





#33
Chrysene
Concen: 0.426 ng
RT: 20.974 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:228 Resp: 1424

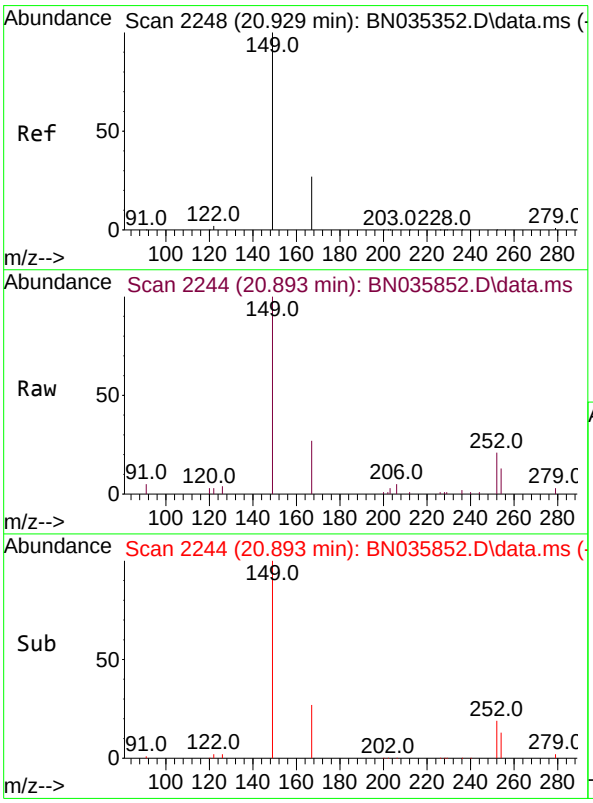
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 30.7 | 24.6 | 37.0 |
| 229 | 19.8 | 15.9 | 23.9 |




**Instrument :**
BNA_N
**ClientSampleId :**
PB165828BS

**Manual Integrations**
**APPROVED**

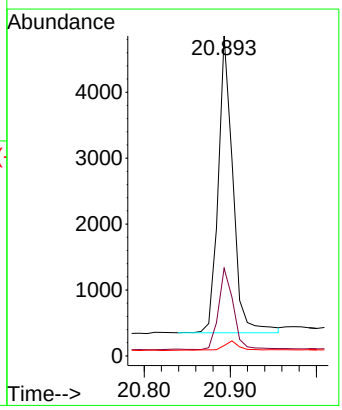
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

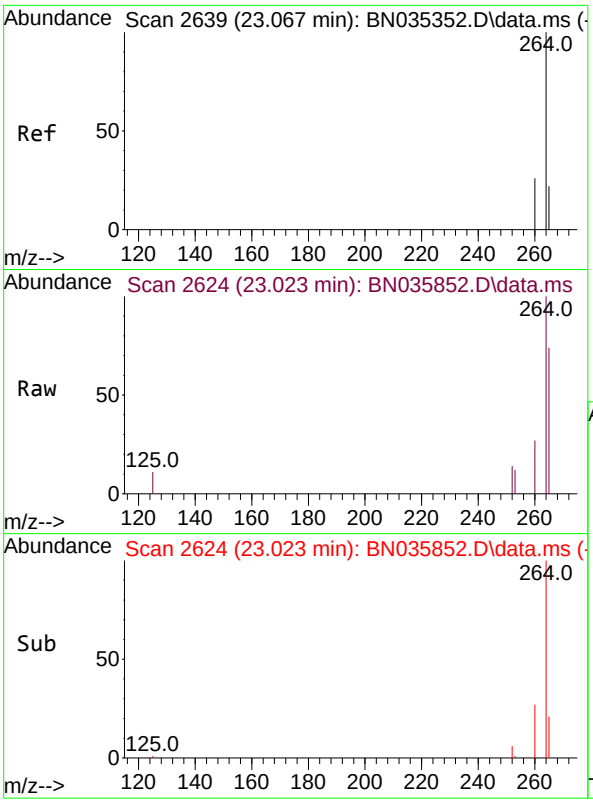



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.415 ng
RT: 20.893 min Scan# 2244
Delta R.T. -0.018 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:149 Resp: 5313

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 27.4 | 22.2 | 33.4 |
| 279 | 3.3 | 2.7 | 4.1 |

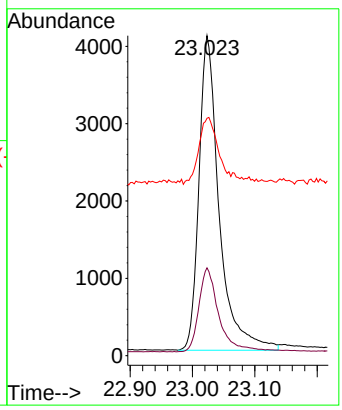





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.023 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:264 Resp: 914

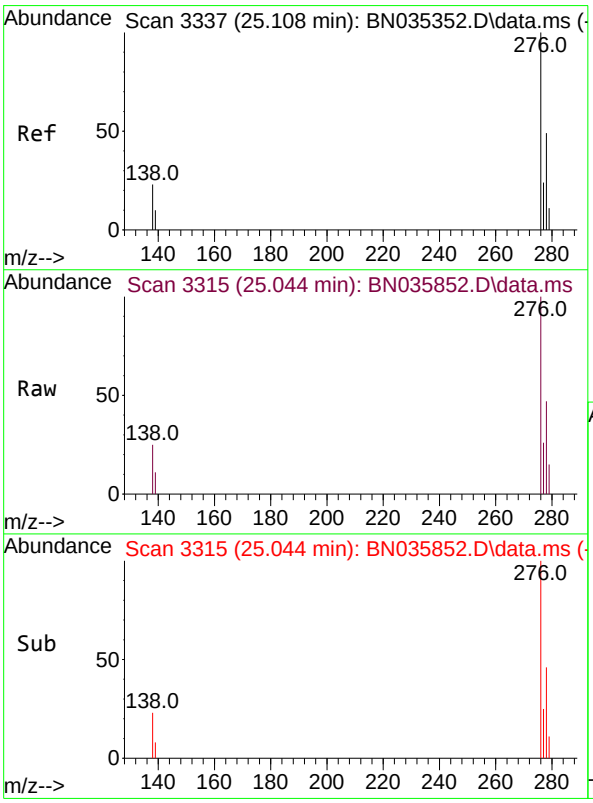
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 27.5 | 21.4 | 32.2 |
| 265 | 74.2 | 40.2 | 60.4 |




**Instrument :**
BNA_N
**ClientSampleId :**
PB165828BS

**Manual Integrations**
**APPROVED**

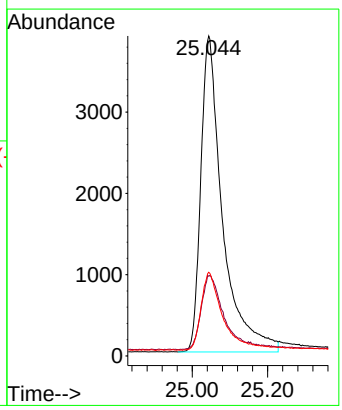
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

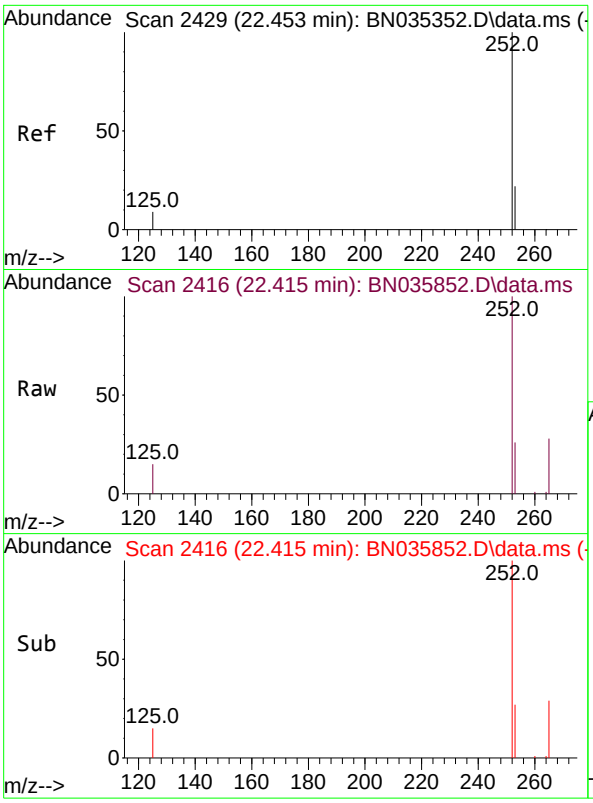



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.435 ng
RT: 25.044 min Scan# 3315
Delta R.T. -0.024 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:276 Resp: 15551

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 23.9 | 19.4 | 29.0 |
| 277 | 24.9 | 19.8 | 29.6 |

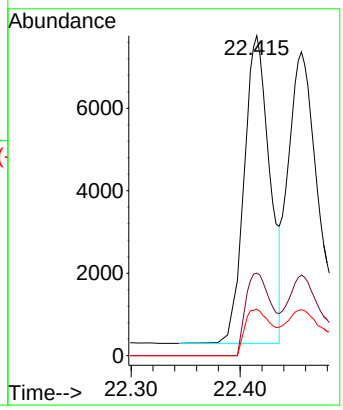





#37
Benzo(b)fluoranthene
Concen: 0.581 ng
RT: 22.415 min Scan# 24
Delta R.T. -0.015 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:252 Resp: 1943

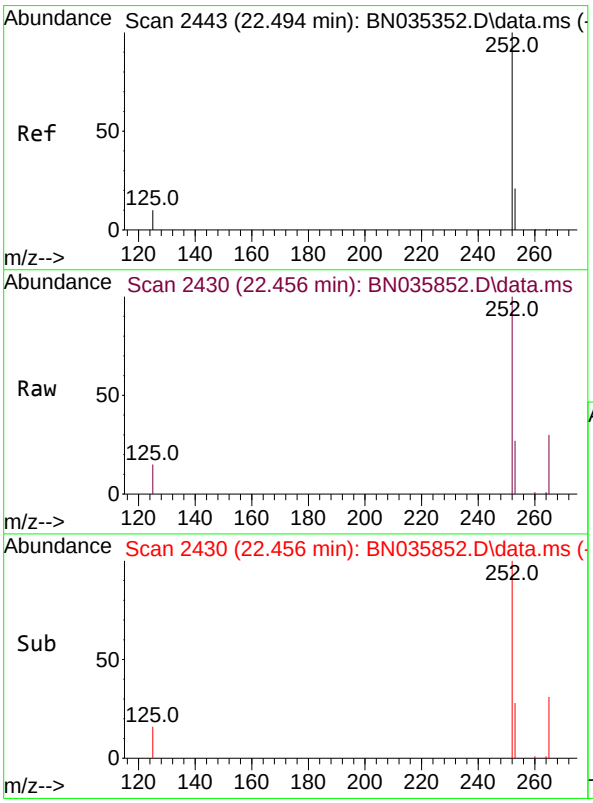
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 25.8 | 19.6 | 29.4 |
| 125 | 14.5 | 9.6 | 14.4 |




**Instrument :**
BNA_N
**ClientSampleId :**
PB165828BS

**Manual Integrations APPROVED**

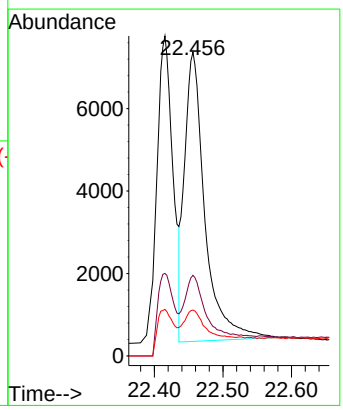
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

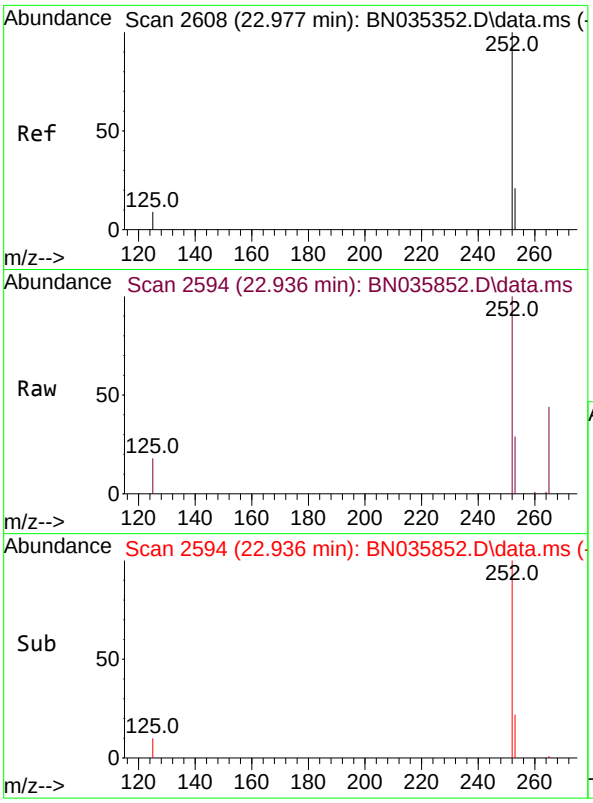



#38
Benzo(k)fluoranthene
Concen: 0.439 ng
RT: 22.456 min Scan# 2430
Delta R.T. -0.015 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:252 Resp: 14469

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 26.5 | 19.5 | 29.3 |
| 125 | 15.1 | 10.2 | 15.4 |

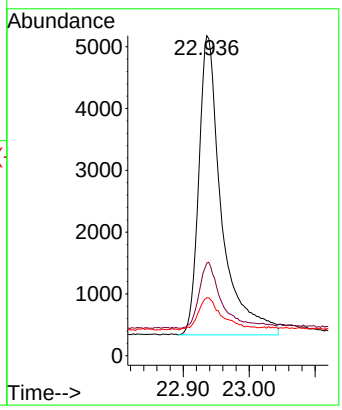





#39
Benzo(a)pyrene
Concen: 0.422 ng
RT: 22.936 min Scan# 2
Delta R.T. -0.015 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:252 Resp: 1162

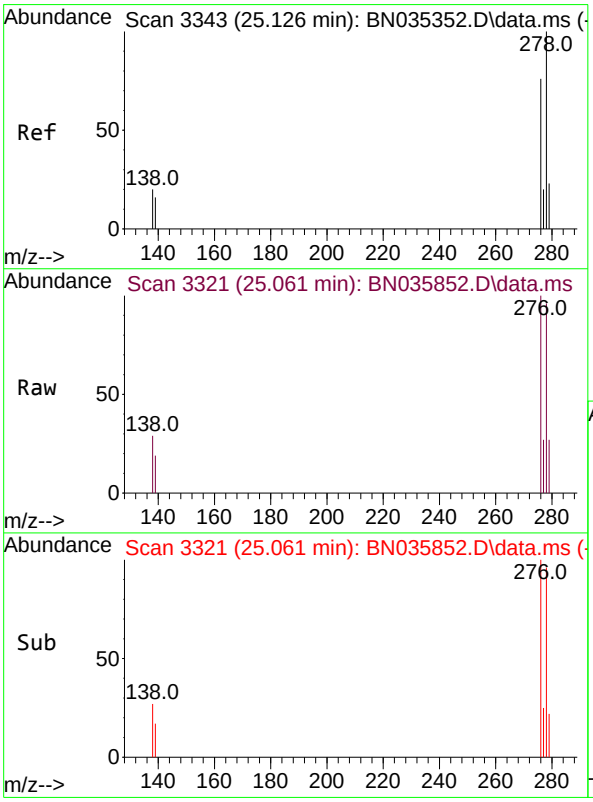
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 29.0 | 20.2 | 30.4 |
| 125 | 18.0 | 10.9 | 16.3 |




**Instrument :**
BNA_N
**ClientSampleId :**
PB165828BS

**Manual Integrations**
**APPROVED**

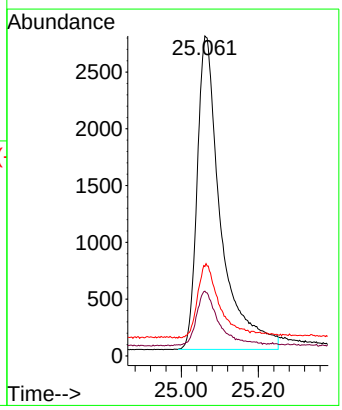
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

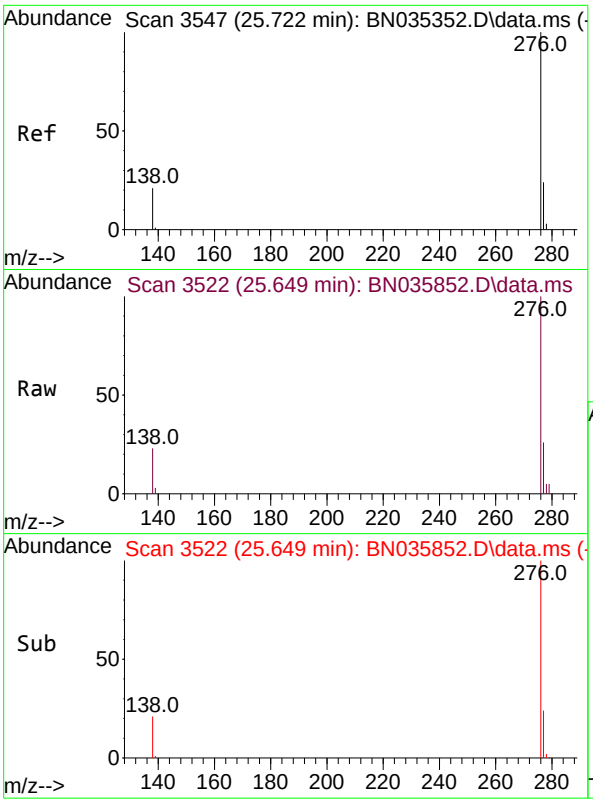



#40
Dibenzo(a,h)anthracene
Concen: 0.414 ng
RT: 25.061 min Scan# 3321
Delta R.T. -0.021 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:278 Resp: 11696

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 20.2 | 14.2 | 21.4 |
| 279 | 28.0 | 20.5 | 30.7 |

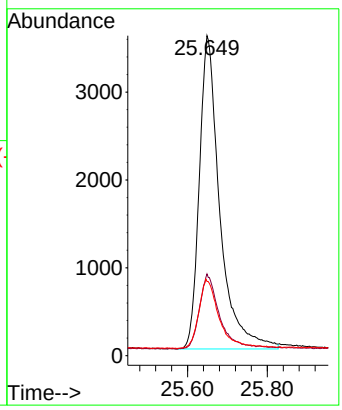





#41
Benzo(g,h,i)perylene
Concen: 0.431 ng
RT: 25.649 min Scan# 3
Delta R.T. -0.029 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:276 Resp: 1271

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 25.6 | 19.9 | 29.9 |
| 138 | 23.2 | 17.8 | 26.8 |




**Instrument :**
BNA_N
**ClientSampleId :**
PB165828BS

**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | AECOM Technical Services, Inc. | Date Collected: | 12/18/24 |
| Project: | NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258 | Date Received: | 12/20/24 |
| Client Sample ID: | RW10-MW01S-20241218MS | SDG No.: | P5376 |
| Lab Sample ID: | P5376-08MS | Matrix: | Water |
| Analytical Method: | SW8270ESIM | % Solid: | 0 |
| Sample Wt/Vol: | 990 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-SIMGroup1 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BN035821.D | 1 | 12/23/24 13:29 | 12/24/24 14:55 | PB165828 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 123-91-1 | 1,4-Dioxane | 0.31 | | 0.070 | 0.20 | 0.20 | ug/L |
| **SURROGATES** | | | | | | | |
| 7297-45-2 | 2-Methylnaphthalene-d10 | 0.43 | | 30 - 150 | | 107% | SPK: 0.4 |
| 93951-69-0 | Fluoranthene-d10 | 0.43 | | 30 - 150 | | 106% | SPK: 0.4 |
| 4165-60-0 | Nitrobenzene-d5 | 0.42 | | 55 - 111 | | 106% | SPK: 0.4 |
| 321-60-8 | 2-Fluorobiphenyl | 0.38 | | 53 - 106 | | 94% | SPK: 0.4 |
| 1718-51-0 | Terphenyl-d14 | 0.49 | | 58 - 132 | | 122% | SPK: 0.4 |
| **INTERNAL STANDARDS** | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 3130 | 7.257 | | | | |
| 1146-65-2 | Naphthalene-d8 | 7400 | 9.998 | | | | |
| 15067-26-2 | Acenaphthene-d10 | 4430 | 13.914 | | | | |
| 1517-22-2 | Phenanthrene-d10 | 9040 | 16.686 | | | | |
| 1719-03-5 | Chrysene-d12 | 8800 | 20.947 | | | | |
| 1520-96-3 | Perylene-d12 | 9480 | 23.026 | | | | |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035821.D
Acq On : 24 Dec 2024 14:55
Operator : RC/JU
Sample : P5376-08MS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Dec 24 23:18:51 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01S-20241218MS

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.257 | 152 | 3131 | 0.400 | ng | -0.01 |
| 7) Naphthalene-d8 | 9.998 | 136 | 7403 | 0.400 | ng | -0.02 |
| 13) Acenaphthene-d10 | 13.914 | 164 | 4434 | 0.400 | ng | -0.02 |
| 19) Phenanthrene-d10 | 16.686 | 188 | 9040 | 0.400 | ng | #-0.01 |
| 29) Chrysene-d12 | 20.947 | 240 | 8798 | 0.400 | ng | # 0.00 |
| 35) Perylene-d12 | 23.026 | 264 | 9479 | 0.400 | ng | #-0.01 |
| System Monitoring Compounds | | | | | | |
| 4) 2-Fluorophenol | 4.932 | 112 | 943 | 0.120 | ng | 0.00 |
| 5) Phenol-d6 | 6.477 | 99 | 545 | 0.058 | ng | -0.01 |
| 8) Nitrobenzene-d5 | 8.397 | 82 | 1912m | 0.423 | ng | -0.01 |
| 11) 2-Methylnaphthalene-d10 | 11.605 | 152 | 4950 | 0.427 | ng | -0.02 |
| 14) 2,4,6-Tribromophenol | 15.443 | 330 | 691 | 0.220 | ng | -0.01 |
| 15) 2-Fluorobiphenyl | 12.528 | 172 | 6280 | 0.375 | ng | -0.02 |
| 27) Fluoranthene-d10 | 18.747 | 212 | 10896 | 0.425 | ng | -0.01 |
| 31) Terphenyl-d14 | 19.379 | 244 | 8459 | 0.487 | ng | 0.00 |
| Target Compounds | | | | | | Qvalue |
| 2) 1,4-Dioxane | 2.974 | 88 | 909 | 0.304 | ng | # 85 |
| 3) n-Nitrosodimethylamine | 3.270 | 42 | 393 | 0.158 | ng | # 88 |
| 6) bis(2-Chloroethyl)ether | 6.715 | 93 | 2329 | 0.294 | ng | 98 |
| 9) Naphthalene | 10.052 | 128 | 7736 | 0.396 | ng | 99 |
| 10) Hexachlorobutadiene | 10.340 | 225 | 1471 | 0.327 | ng | # 100 |
| 12) 2-Methylnaphthalene | 11.681 | 142 | 5119 | 0.366 | ng | 99 |
| 16) Acenaphthylene | 13.625 | 152 | 8059 | 0.433 | ng | 99 |
| 17) Acenaphthene | 13.978 | 154 | 5206 | 0.421 | ng | 99 |
| 18) Fluorene | 14.983 | 166 | 6975 | 0.394 | ng | 99 |
| 20) 4,6-Dinitro-2-methylph... | 15.111 | 198 | 266 | 0.299 | ng | # 39 |
| 21) 4-Bromophenyl-phenylether | 15.891 | 248 | 1959 | 0.370 | ng | # 75 |
| 22) Hexachlorobenzene | 16.003 | 284 | 2633 | 0.424 | ng | 98 |
| 23) Atrazine | 16.189 | 200 | 1523 | 0.405 | ng | 96 |
| 24) Pentachlorophenol | 16.363 | 266 | 1863 | 0.690 | ng | # 86 |
| 25) Phenanthrene | 16.735 | 178 | 12002 | 0.483 | ng | 100 |
| 26) Anthracene | 16.822 | 178 | 10344 | 0.461 | ng | 99 |
| 28) Fluoranthene | 18.780 | 202 | 14906 | 0.445 | ng | 99 |
| 30) Pyrene | 19.147 | 202 | 15976 | 0.492 | ng | 99 |
| 32) Benzo(a)anthracene | 20.929 | 228 | 13869 | 0.451 | ng | 99 |
| 33) Chrysene | 20.983 | 228 | 16049 | 0.506 | ng | 99 |
| 34) Bis(2-ethylhexyl)phtha... | 20.902 | 149 | 6067 | 0.499 | ng | 98 |
| 36) Indeno(1,2,3-cd)pyrene | 25.052 | 276 | 15853 | 0.428 | ng | 98 |
| 37) Benzo(b)fluoranthene | 22.418 | 252 | 20643 | 0.595 | ng | # 94 |
| 38) Benzo(k)fluoranthene | 22.459 | 252 | 16743 | 0.491 | ng | # 94 |
| 39) Benzo(a)pyrene | 22.939 | 252 | 13748 | 0.481 | ng | # 89 |
| 40) Dibenzo(a,h)anthracene | 25.067 | 278 | 11568 | 0.396 | ng | 94 |
| 41) Benzo(g,h,i)perylene | 25.658 | 276 | 13235 | 0.433 | ng | 98 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

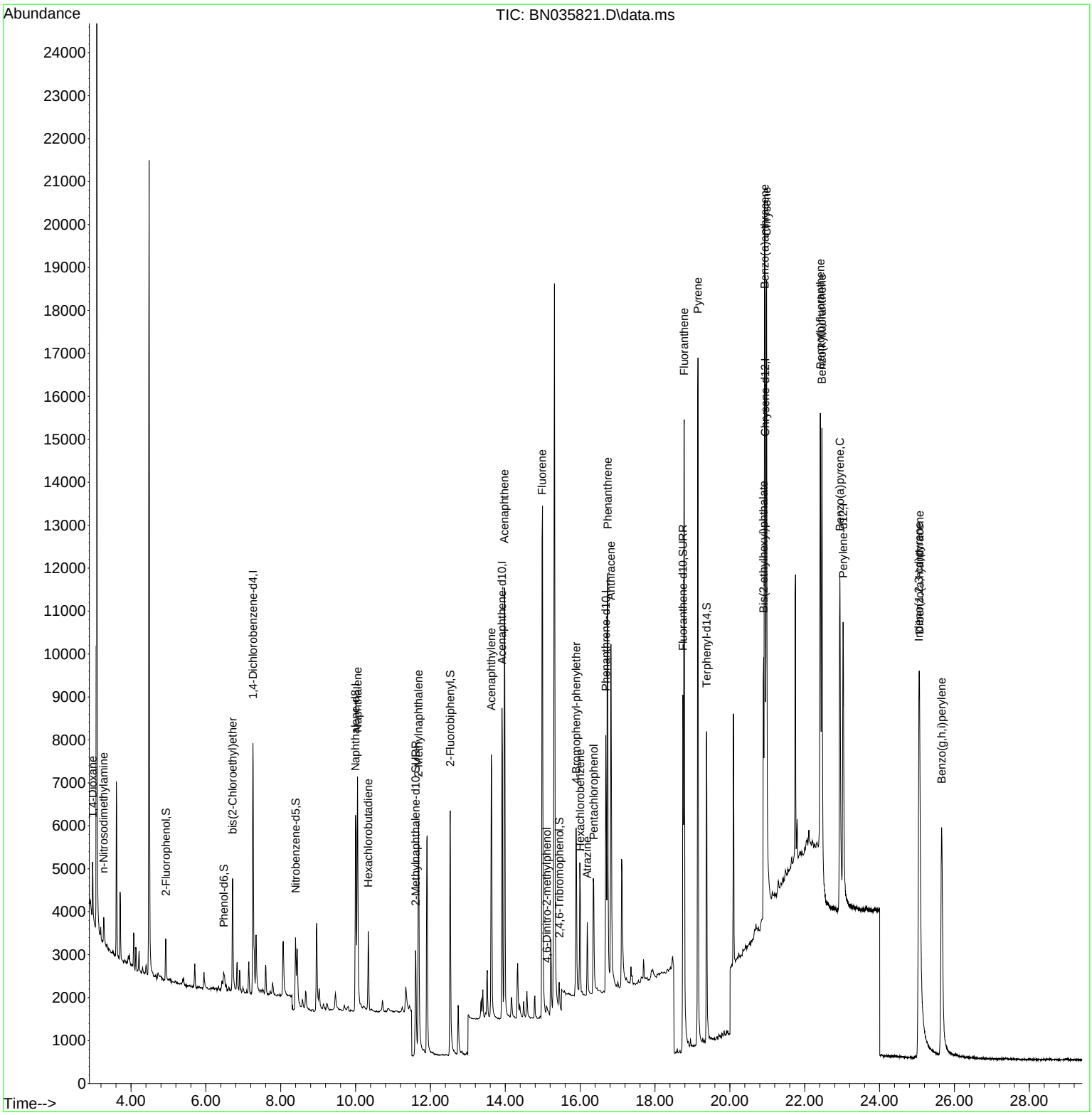
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Data File : BN035821.D
Acq On : 24 Dec 2024 14:55
Operator : RC/JU
Sample : P5376-08MS
Misc :
ALS Vial : 12 Sample Multiplier: 1

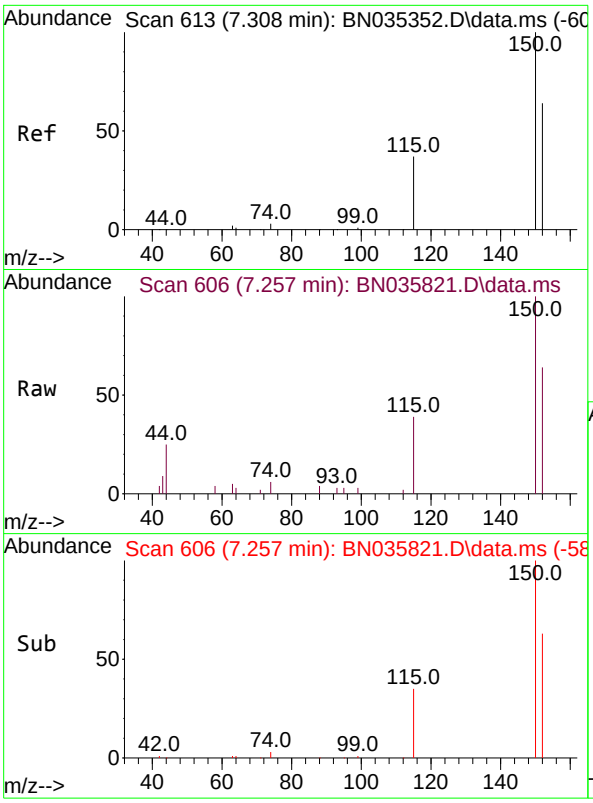
Quant Time: Dec 24 23:18:51 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01S-20241218MS

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

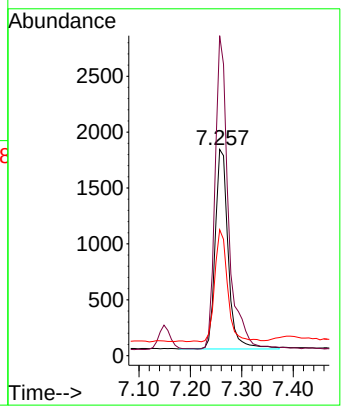





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 6
Delta R.T. -0.015 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:152 Resp: 313

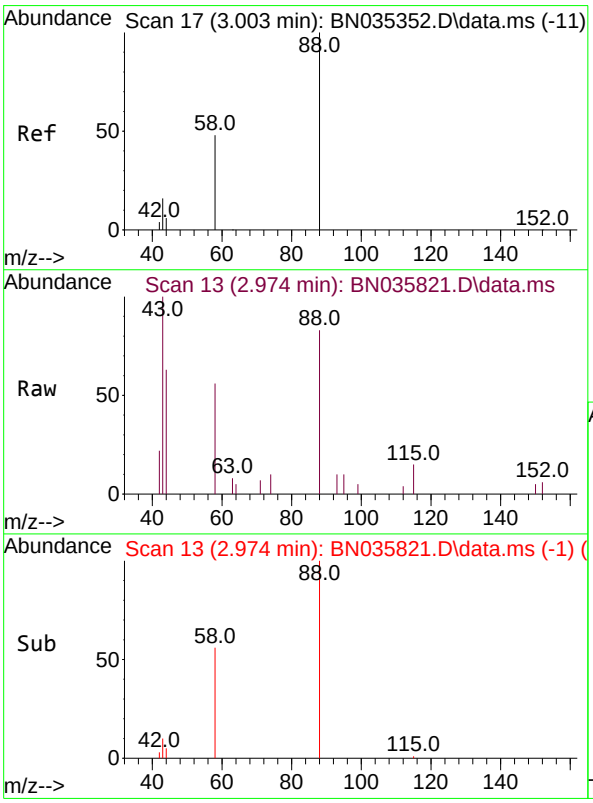
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 155.2 | 124.0 | 186.0 |
| 115 | 61.0 | 49.6 | 74.4 |




**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01S-20241218MS

**Manual Integrations**
**APPROVED**

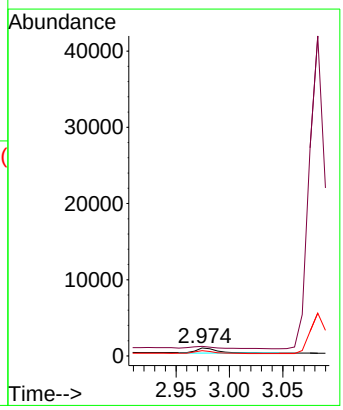
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

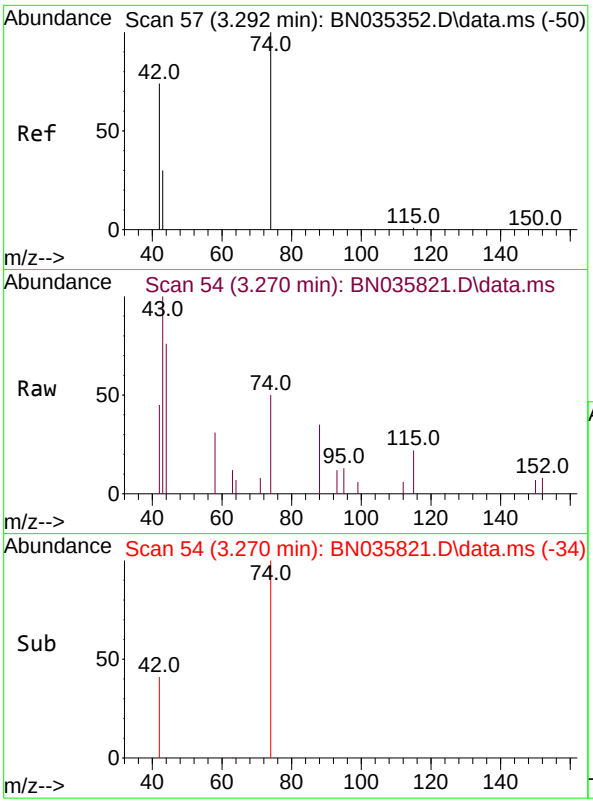



#2
1,4-Dioxane
Concen: 0.304 ng
RT: 2.974 min Scan# 13
Delta R.T. -0.007 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion: 88 Resp: 909

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 0.0 | 17.2 | 25.8# |
| 58 | 58.4 | 44.5 | 66.7 |

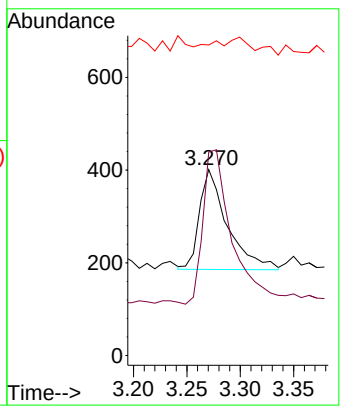





#3
n-Nitrosodimethylamine
Concen: 0.158 ng
RT: 3.270 min Scan# 54
Delta R.T. -0.007 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion: 42 Resp: 39

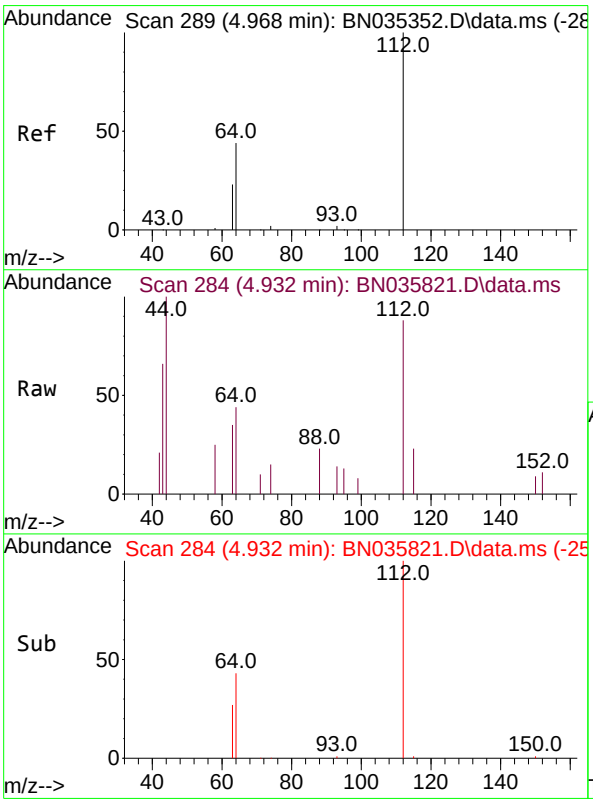
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 172.0 | 124.9 | 187.3 |
| 44 | 0.0 | 2.2 | 3.4 |




**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01S-20241218MS

**Manual Integrations APPROVED**

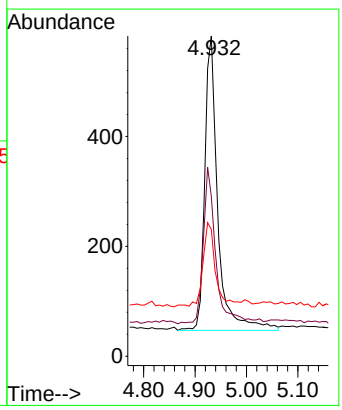
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

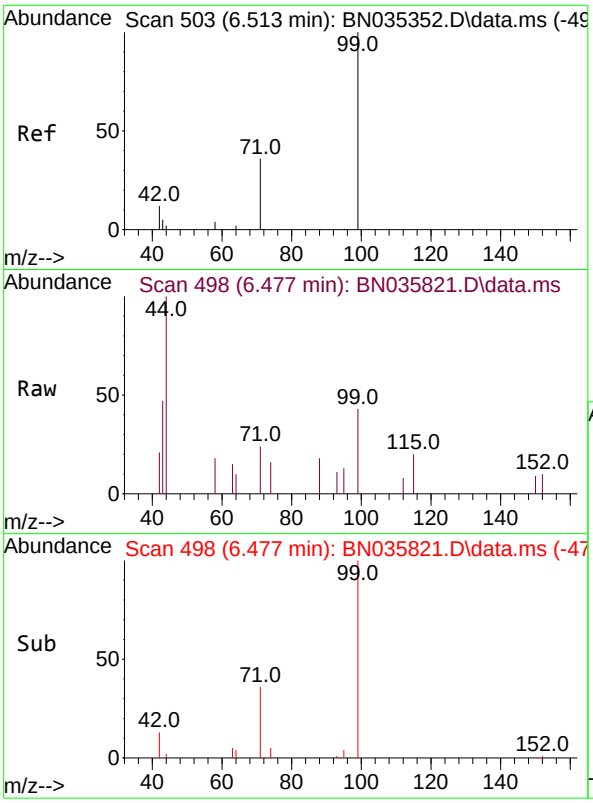



#4
2-Fluorophenol
Concen: 0.120 ng
RT: 4.932 min Scan# 284
Delta R.T. -0.007 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:112 Resp: 943

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 51.9 | 39.8 | 59.8 |
| 63 | 28.2 | 21.0 | 31.6 |

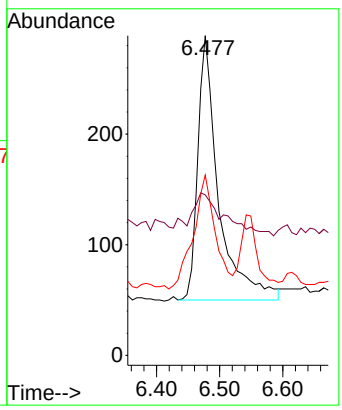





#5
Phenol-d6
Concen: 0.058 ng
RT: 6.477 min Scan# 4
Delta R.T. -0.015 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion: 99 Resp: 54

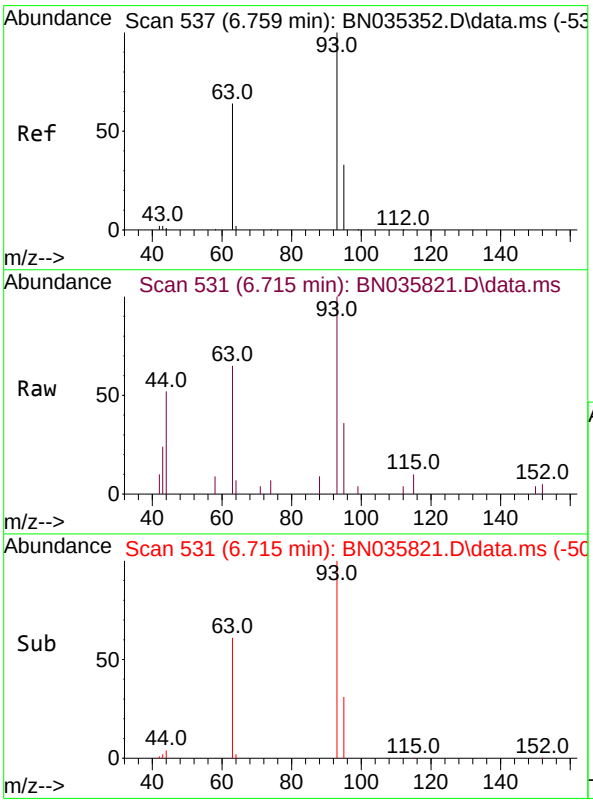
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 26.8 | 11.4 | 17.2# |
| 71 | 45.9 | 29.3 | 43.9# |




**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01S-20241218MS

**Manual Integrations**
**APPROVED**

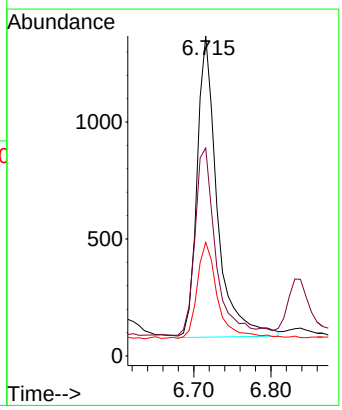
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

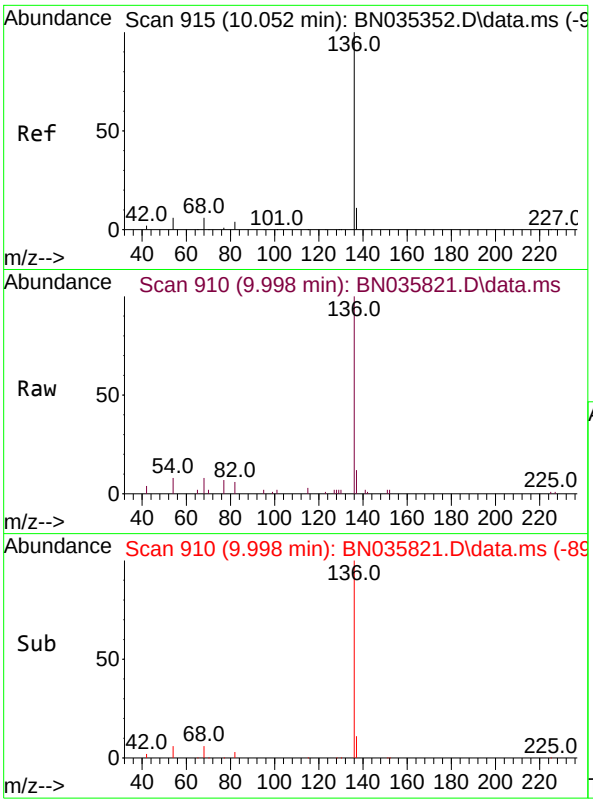



#6
bis(2-Chloroethyl)ether
Concen: 0.294 ng
RT: 6.715 min Scan# 531
Delta R.T. -0.015 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion: 93 Resp: 2329

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 65.2 | 50.4 | 75.6 |
| 95 | 32.6 | 25.7 | 38.5 |

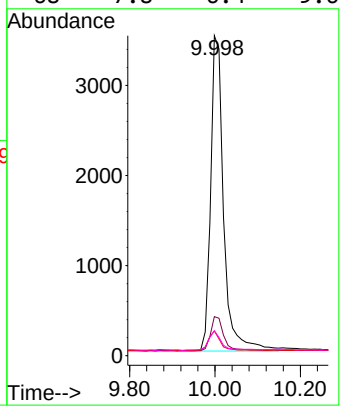





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 9.998 min Scan# 91
Delta R.T. -0.022 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:136 Resp: 740

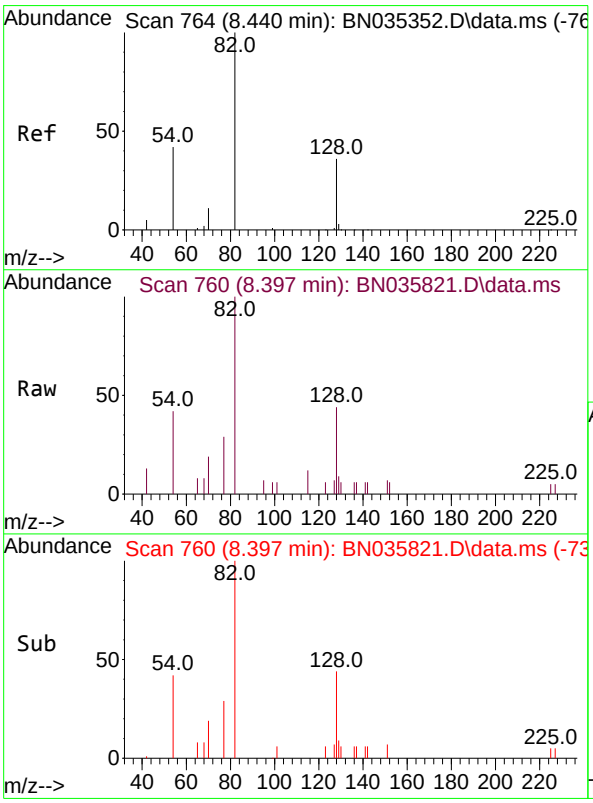
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 12.2 | 10.2 | 15.2 |
| 54 | 7.7 | 6.1 | 9.1 |
| 68 | 7.8 | 6.4 | 9.6 |




**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01S-20241218MS

**Manual Integrations**
**APPROVED**

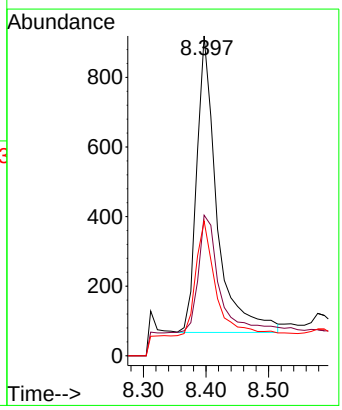
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

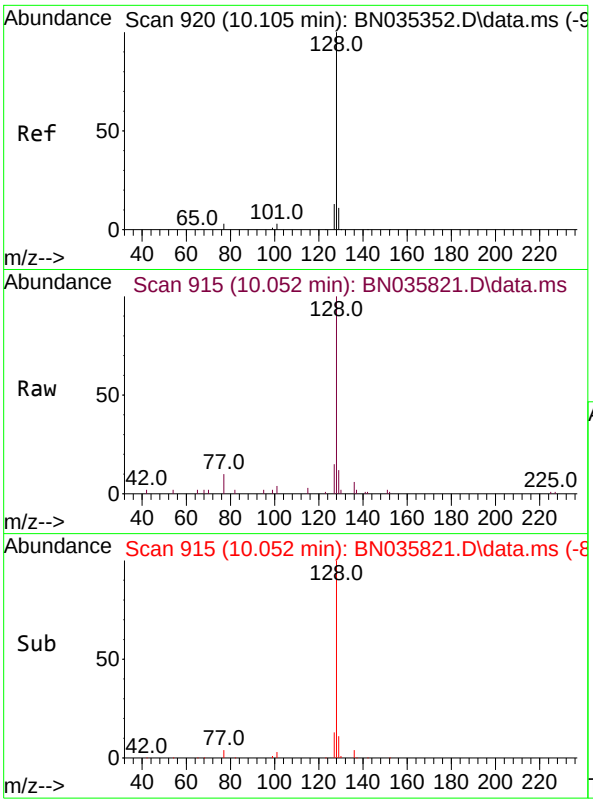



#8
Nitrobenzene-d5
Concen: 0.423 ng m
RT: 8.397 min Scan# 760
Delta R.T. -0.011 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion: 82 Resp: 1912

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 44.0 | 33.4 | 50.0 |
| 54 | 42.1 | 36.7 | 55.1 |

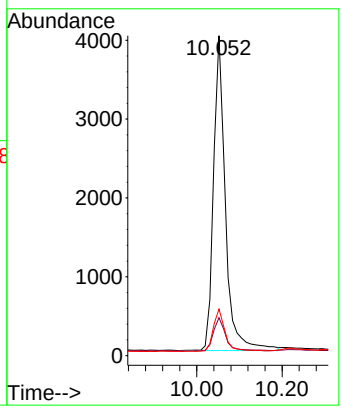





#9
Naphthalene
Concen: 0.396 ng
RT: 10.052 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:128 Resp: 773

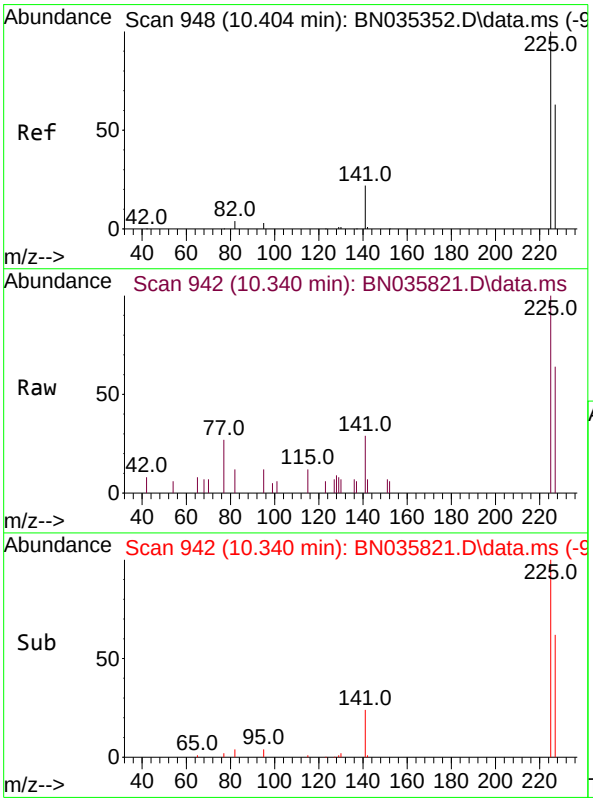
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 11.8 | 9.8 | 14.6 |
| 127 | 14.5 | 11.4 | 17.2 |




**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01S-20241218MS

**Manual Integrations**
**APPROVED**

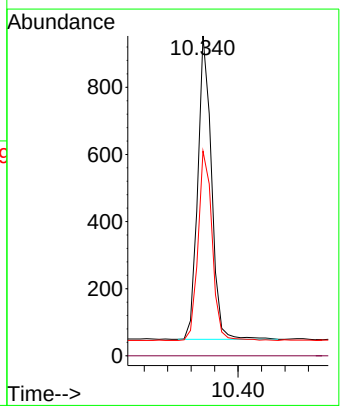
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

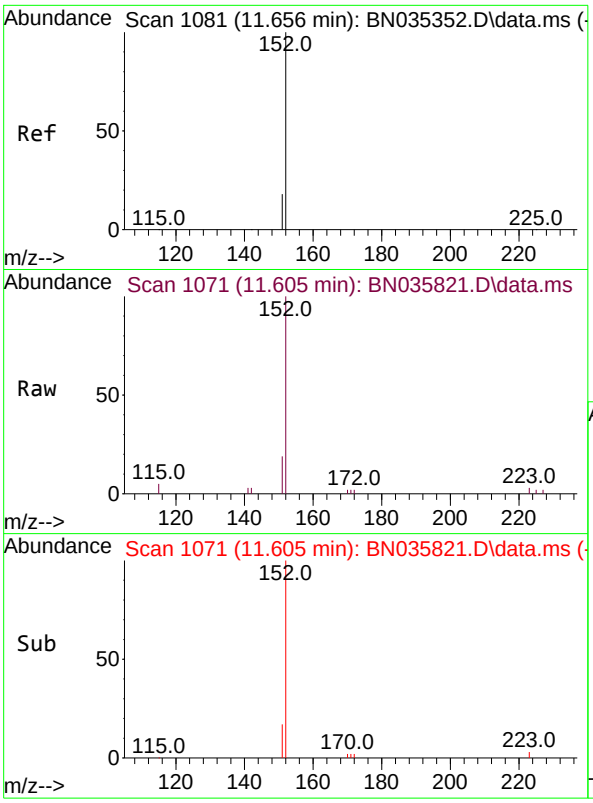



#10
Hexachlorobutadiene
Concen: 0.327 ng
RT: 10.340 min Scan# 942
Delta R.T. -0.022 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:225 Resp: 1471

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 0.0 | 0.0 | 0.0 |
| 227 | 64.0 | 51.3 | 76.9 |

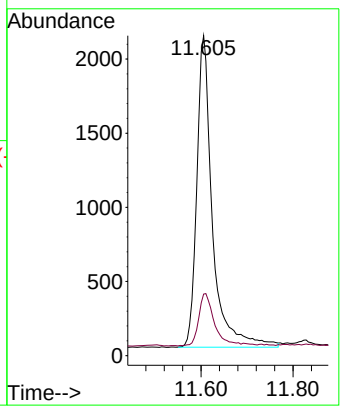





#11
2-Methylnaphthalene-d10
Concen: 0.427 ng
RT: 11.605 min Scan# 1(
Delta R.T. -0.015 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:152 Resp: 495(

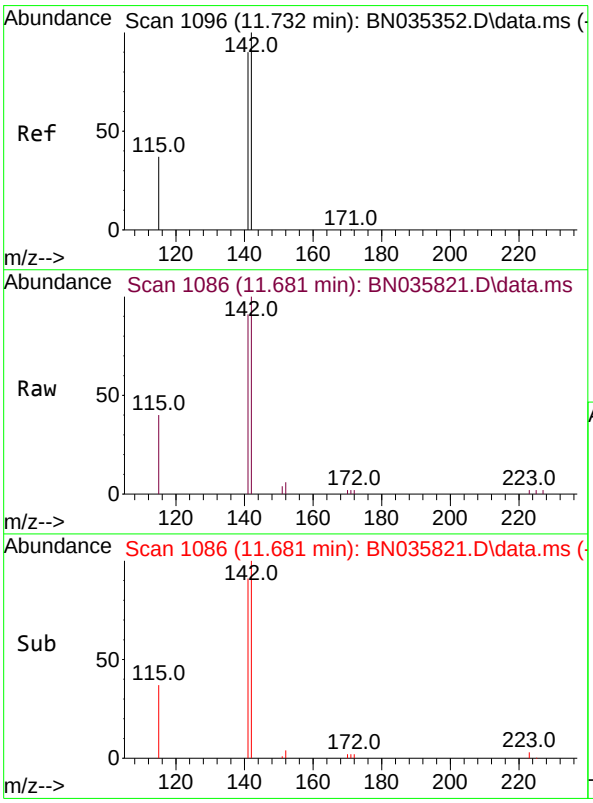
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 16.7 | 16.6 | 25.0 |




**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01S-20241218MS

**Manual Integrations**
**APPROVED**

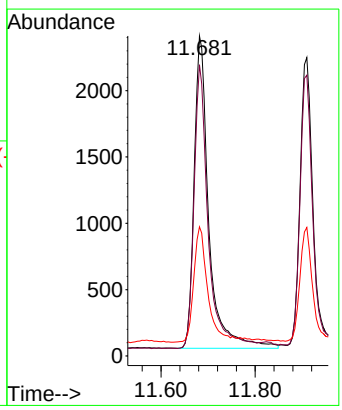
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

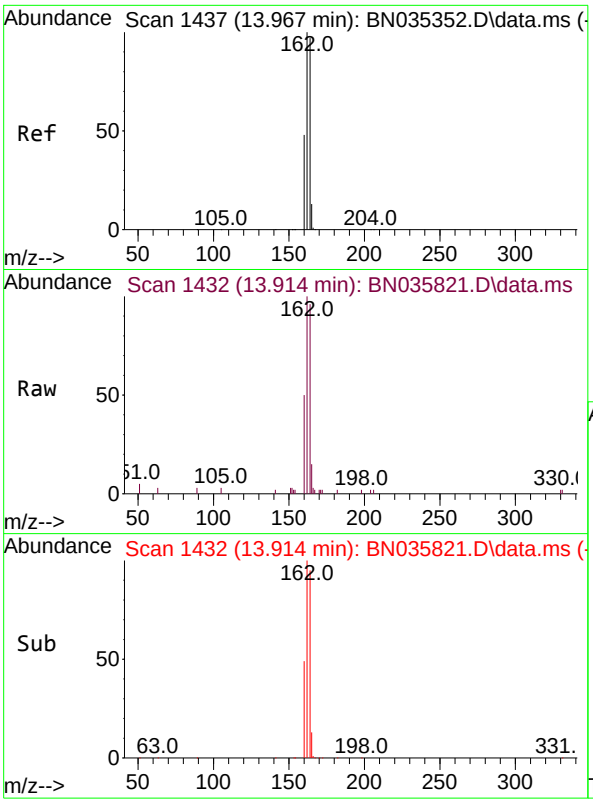



#12
2-Methylnaphthalene
Concen: 0.366 ng
RT: 11.681 min Scan# 1086
Delta R.T. -0.015 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:142 Resp: 5119

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 91.0 | 72.2 | 108.4 |
| 115 | 40.3 | 31.4 | 47.0 |

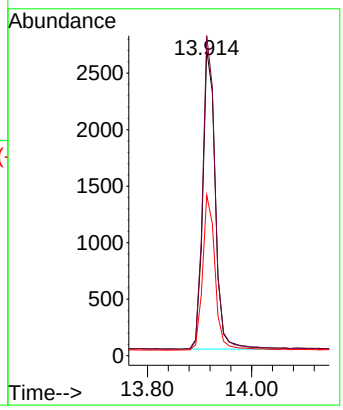





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.914 min Scan# 14
Delta R.T. -0.022 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:164 Resp: 443

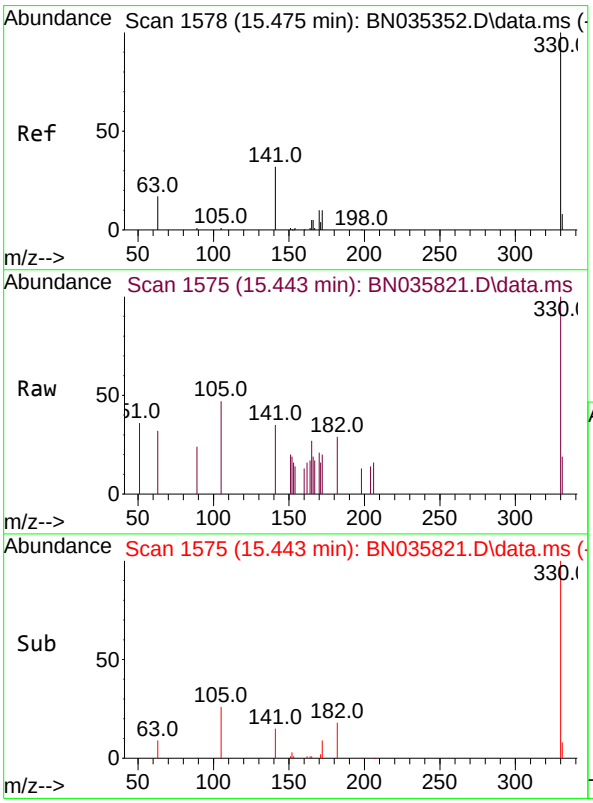
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 104.6 | 82.2 | 123.2 |
| 160 | 52.4 | 40.1 | 60.1 |




**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01S-20241218MS

**Manual Integrations**
**APPROVED**

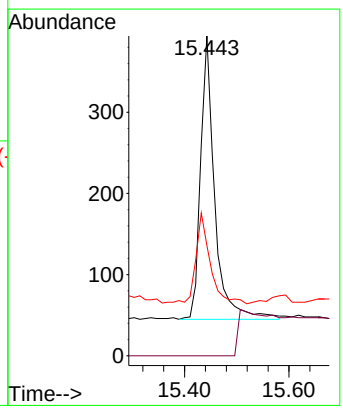
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

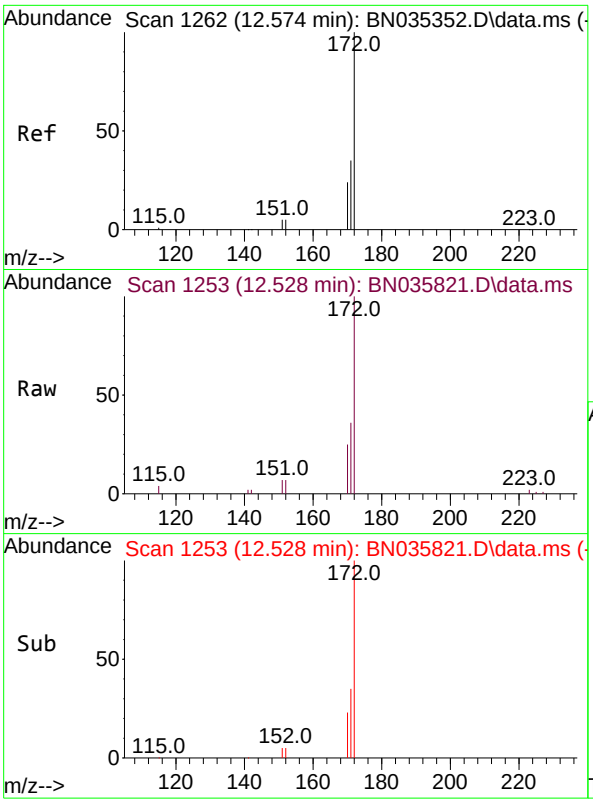



#14
2,4,6-Tribromophenol
Concen: 0.220 ng
RT: 15.443 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:330 Resp: 691

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 0.0 | 0.0 | 0.0 |
| 141 | 31.1 | 26.6 | 40.0 |

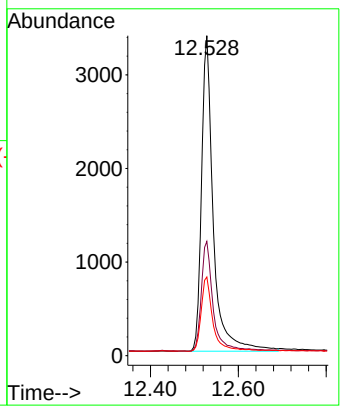





#15
2-Fluorobiphenyl
Concen: 0.375 ng
RT: 12.528 min Scan# 1
Delta R.T. -0.015 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:172 Resp: 628

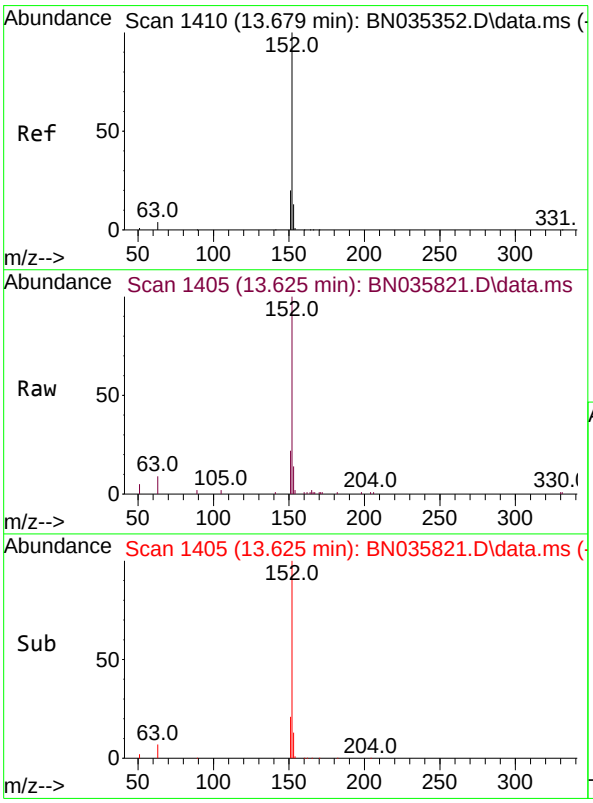
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 35.7 | 29.0 | 43.4 |
| 170 | 24.6 | 19.8 | 29.8 |




**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01S-20241218MS

**Manual Integrations**
**APPROVED**

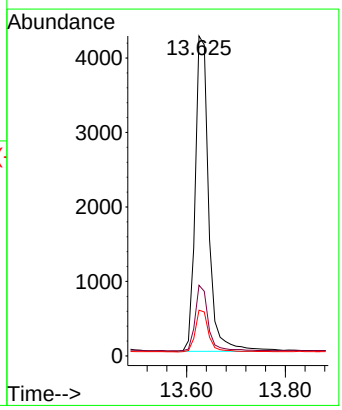
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

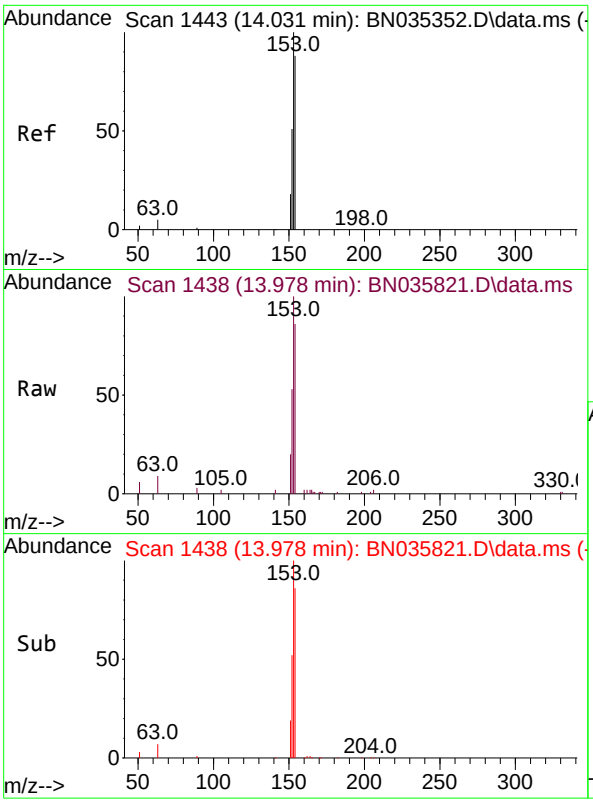



#16
Acenaphthylene
Concen: 0.433 ng
RT: 13.625 min Scan# 1405
Delta R.T. -0.022 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:152 Resp: 8059

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.3 | 16.2 | 24.2 |
| 153 | 13.4 | 10.4 | 15.6 |

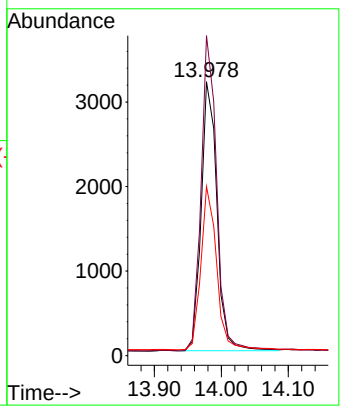





#17
Acenaphthene
Concen: 0.421 ng
RT: 13.978 min Scan# 14
Delta R.T. -0.022 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:154 Resp: 520

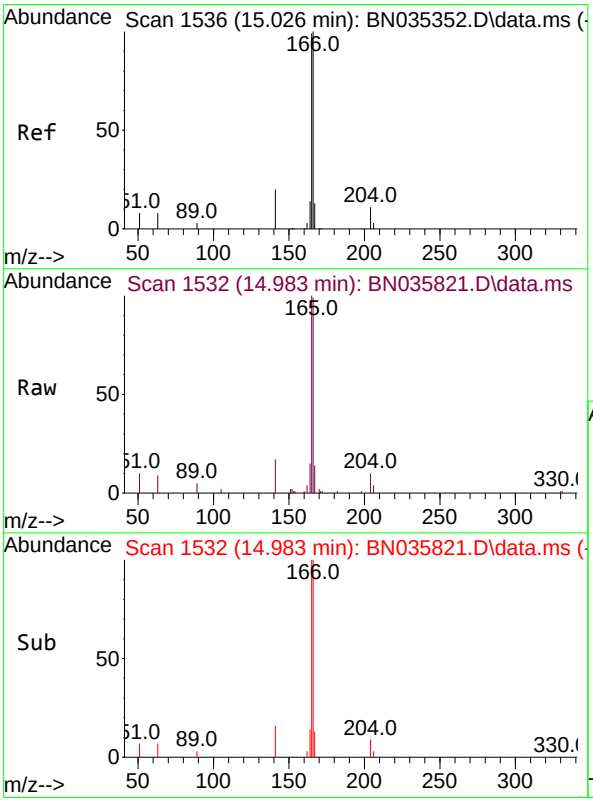
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 116.9 | 92.6 | 139.0 |
| 152 | 60.7 | 49.0 | 73.6 |




**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01S-20241218MS

**Manual Integrations**
**APPROVED**

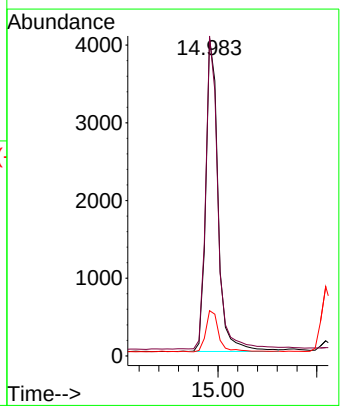
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

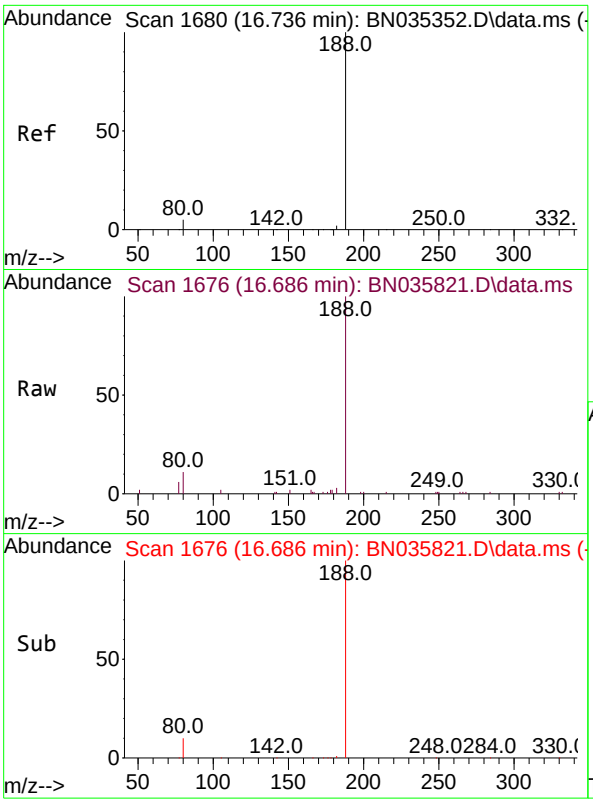



#18
Fluorene
Concen: 0.394 ng
RT: 14.983 min Scan# 1532
Delta R.T. -0.022 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:166 Resp: 6975

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 98.8 | 79.7 | 119.5 |
| 167 | 14.0 | 10.8 | 16.2 |






#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.686 min Scan# 1(
Delta R.T. -0.013 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

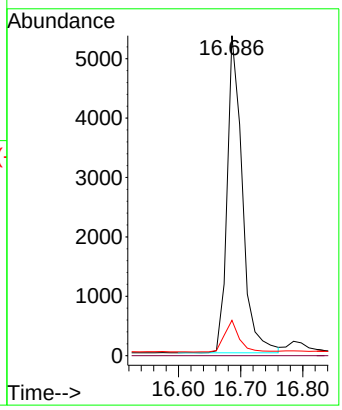
Tgt Ion:188 Resp: 904(

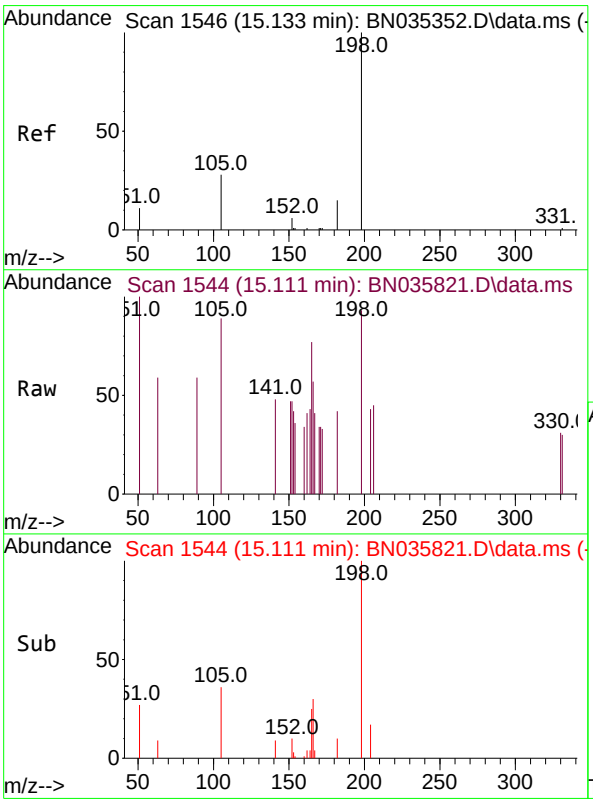
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 11.0 | 4.6 | 6.8# |

**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01S-20241218MS

**Manual Integrations**
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Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

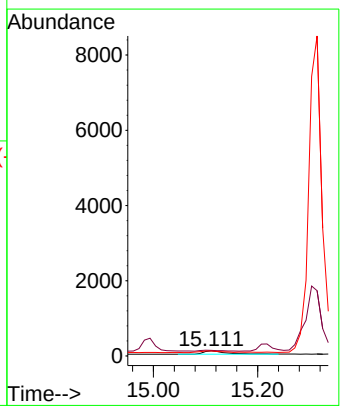


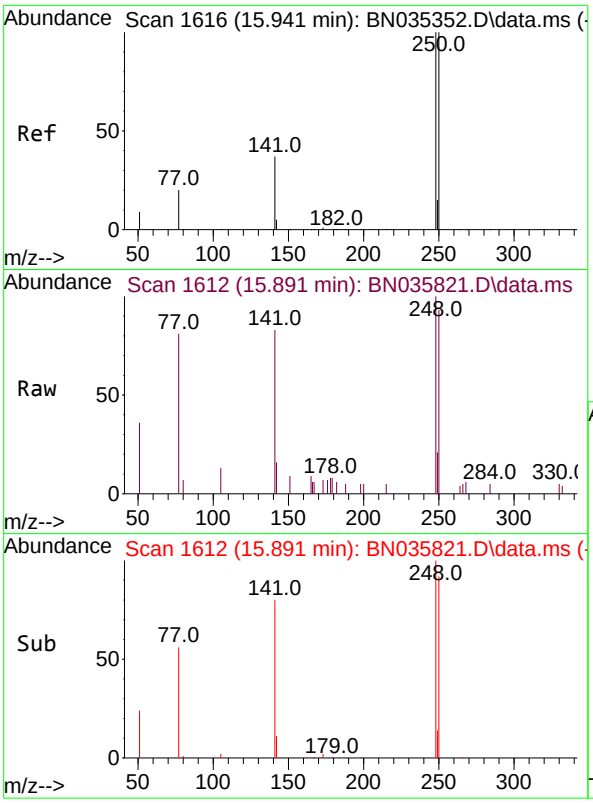




#20
4,6-Dinitro-2-methylphenol
Concen: 0.299 ng
RT: 15.111 min Scan# 1544
Delta R.T. -0.011 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:198 Resp: 266

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 198 | 100 | | |
| 51 | 108.0 | 46.5 | 69.7# |
| 105 | 96.4 | 45.3 | 67.9# |

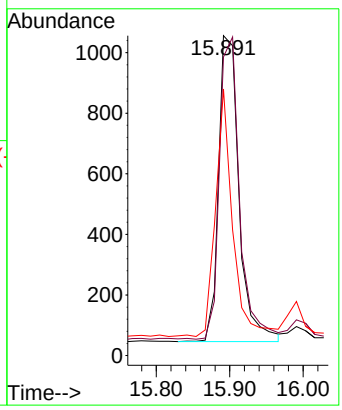





#21
4-Bromophenyl-phenylether
Concen: 0.370 ng
RT: 15.891 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:248 Resp: 195

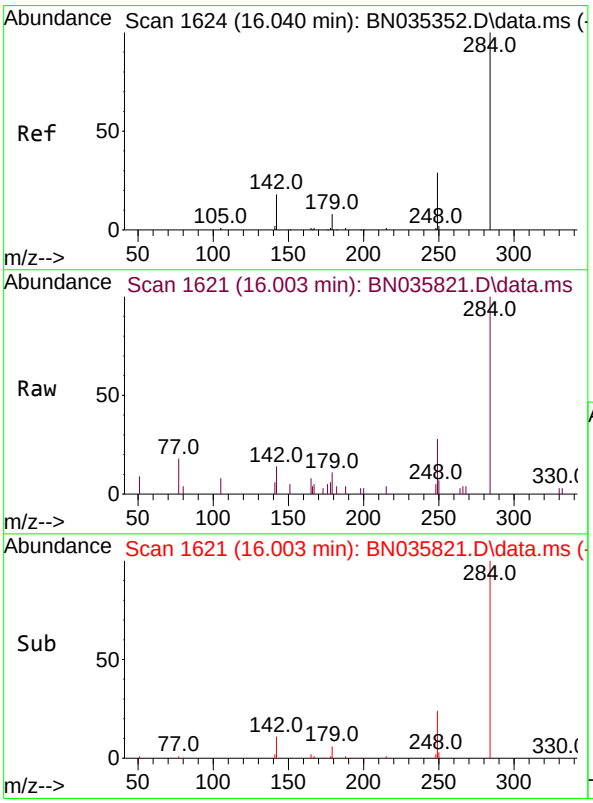
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 93.4 | 80.6 | 120.8 |
| 141 | 83.3 | 31.5 | 47.3# |




**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01S-20241218MS

**Manual Integrations**
**APPROVED**

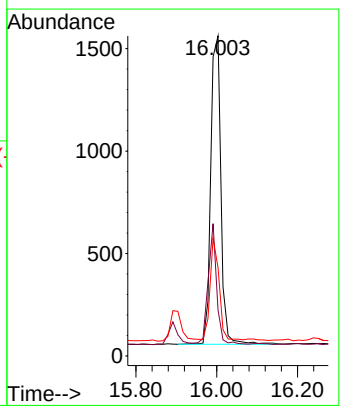
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

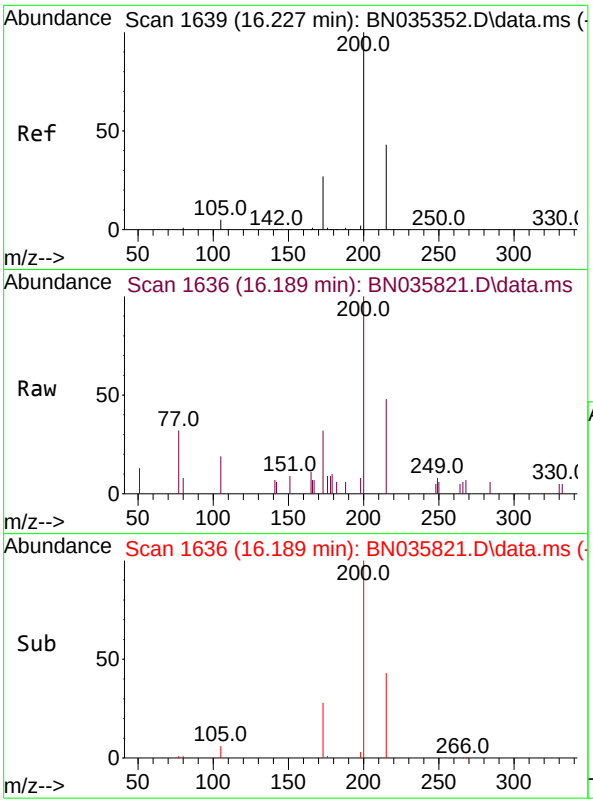



#22
Hexachlorobenzene
Concen: 0.424 ng
RT: 16.003 min Scan# 1621
Delta R.T. -0.013 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:284 Resp: 2633

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 32.3 | 26.7 | 40.1 |
| 249 | 29.1 | 24.6 | 36.8 |

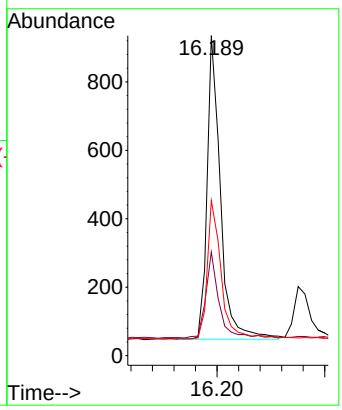





#23
Atrazine
Concen: 0.405 ng
RT: 16.189 min Scan# 1(
Delta R.T. -0.013 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:200 Resp: 152

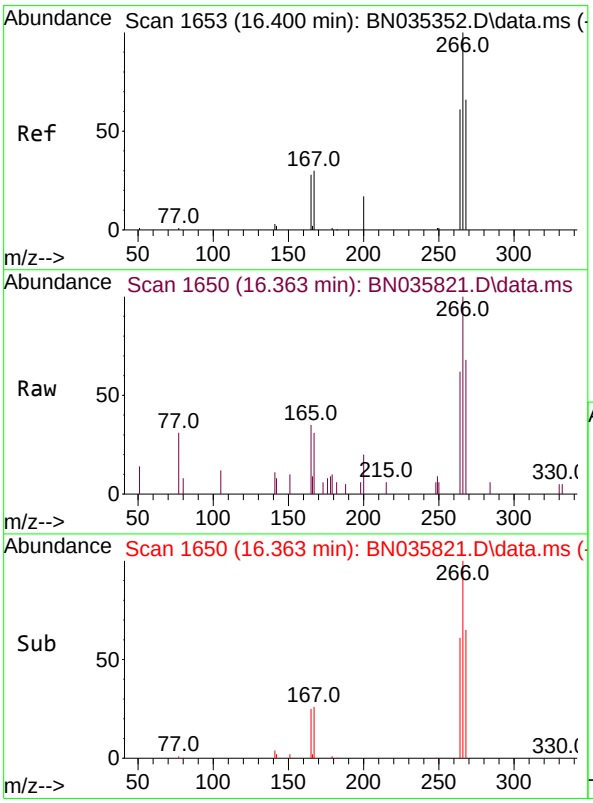
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 173 | 32.4 | 24.1 | 36.1 |
| 215 | 48.4 | 36.9 | 55.3 |




**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01S-20241218MS

**Manual Integrations**
**APPROVED**

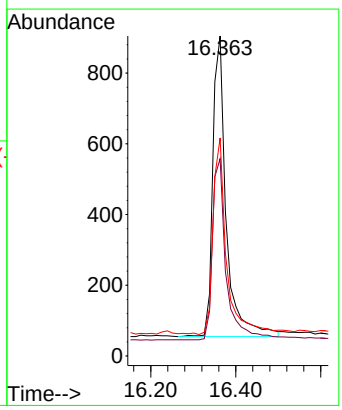
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

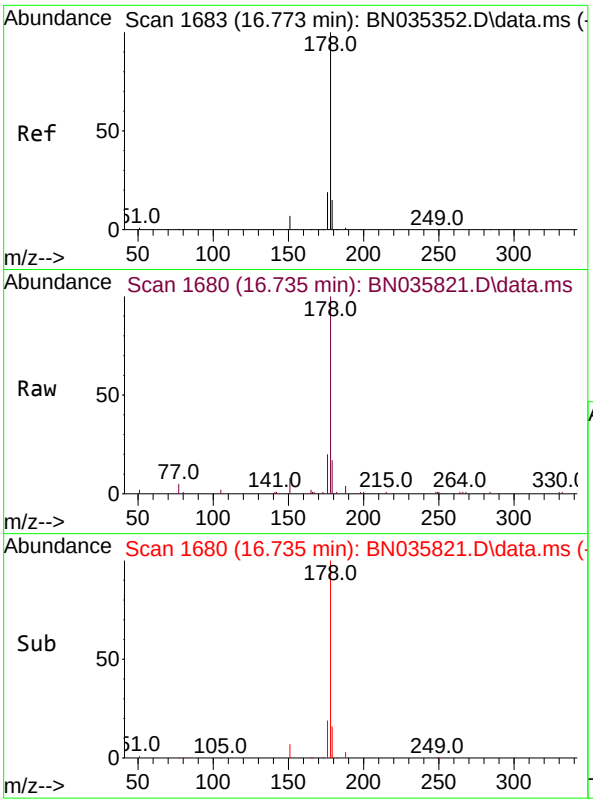



#24
Pentachlorophenol
Concen: 0.690 ng
RT: 16.363 min Scan# 1650
Delta R.T. -0.013 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:266 Resp: 1863

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 264 | 61.3 | 42.3 | 63.5 |
| 268 | 65.9 | 43.3 | 64.9# |

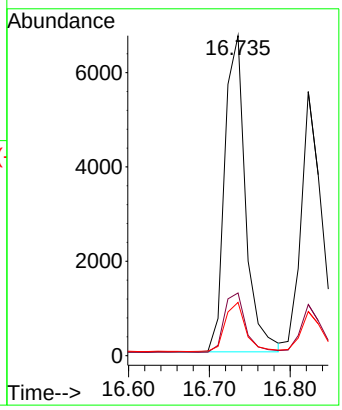





#25
Phenanthrene
Concen: 0.483 ng
RT: 16.735 min Scan# 1(
Delta R.T. -0.013 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:178 Resp: 1200

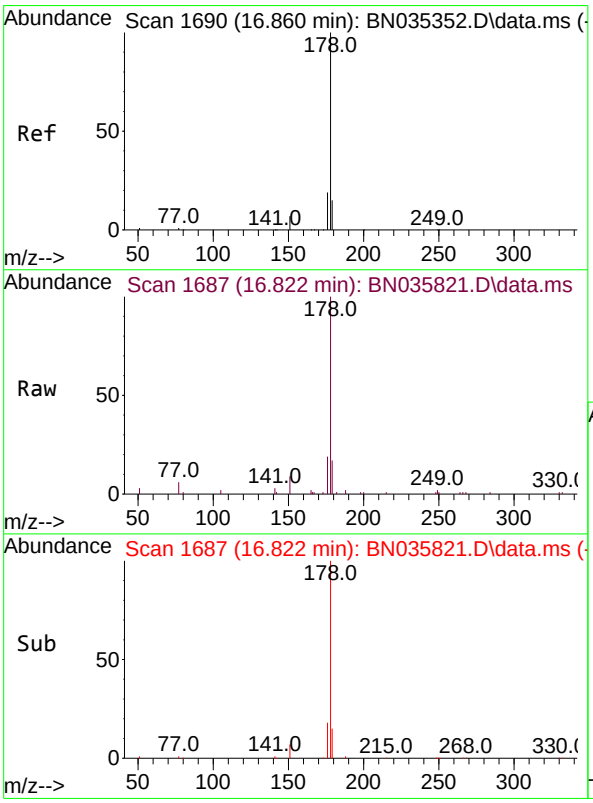
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.2 | 15.4 | 23.2 |
| 179 | 15.4 | 12.3 | 18.5 |




**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01S-20241218MS

**Manual Integrations**
**APPROVED**

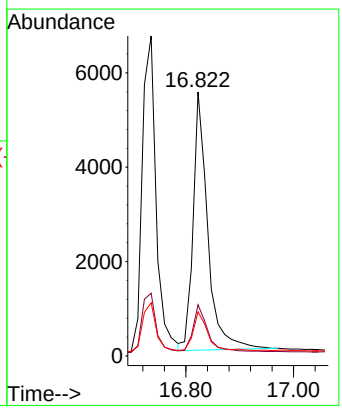
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

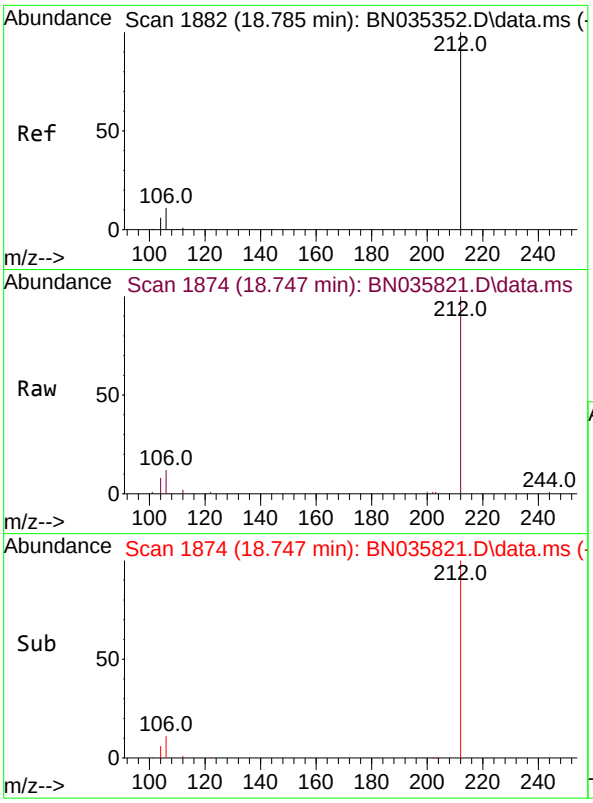



#26
Anthracene
Concen: 0.461 ng
RT: 16.822 min Scan# 1687
Delta R.T. -0.013 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:178 Resp: 10344

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.3 | 15.0 | 22.6 |
| 179 | 14.9 | 12.6 | 18.8 |

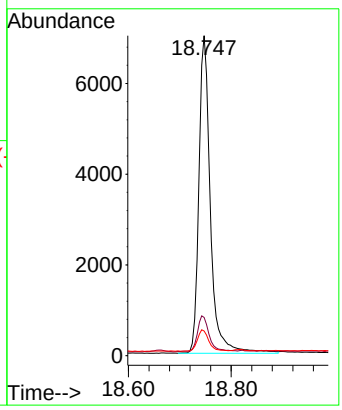





#27
Fluoranthene-d10
Concen: 0.425 ng
RT: 18.747 min Scan# 1
Delta R.T. -0.014 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:212 Resp: 1089

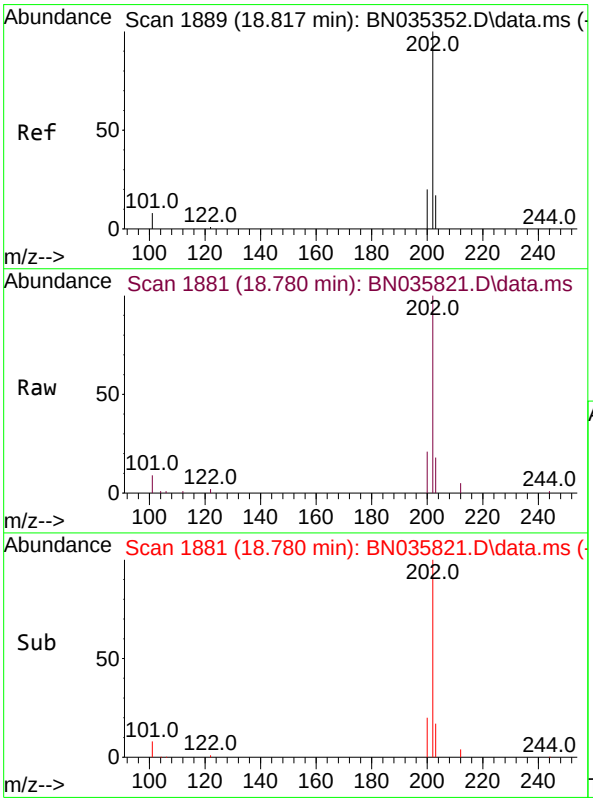
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 11.8 | 9.2 | 13.8 |
| 104 | 6.7 | 5.3 | 7.9 |




**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01S-20241218MS

**Manual Integrations**
**APPROVED**

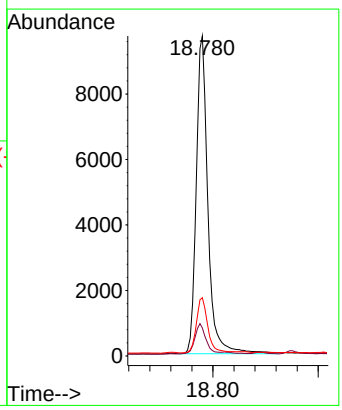
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

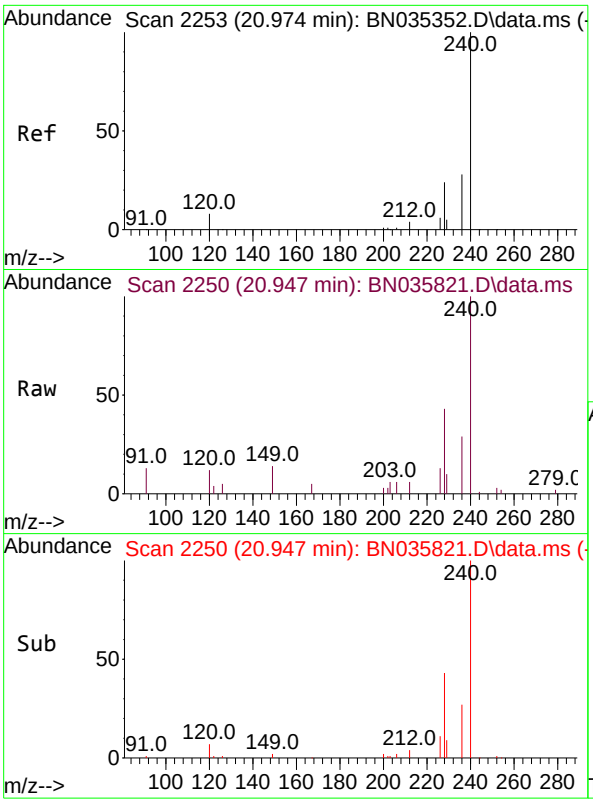



#28
Fluoranthene
Concen: 0.445 ng
RT: 18.780 min Scan# 1881
Delta R.T. -0.009 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:202 Resp: 14906

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 9.0 | 7.4 | 11.0 |
| 203 | 17.4 | 13.7 | 20.5 |

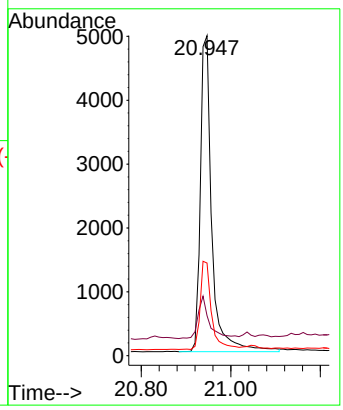





#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:240 Resp: 879

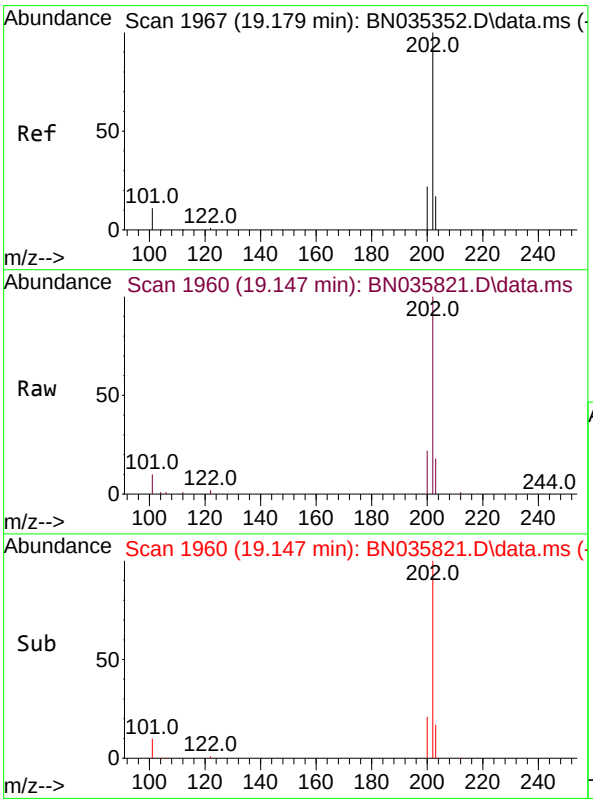
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 12.5 | 7.9 | 11.9 |
| 236 | 29.0 | 22.9 | 34.3 |




**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01S-20241218MS

**Manual Integrations**
**APPROVED**

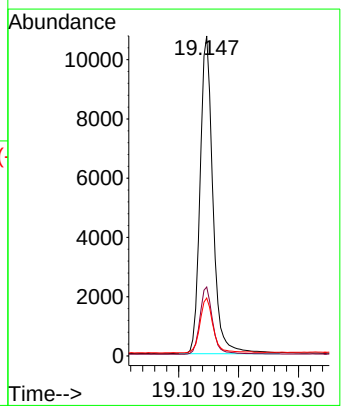
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

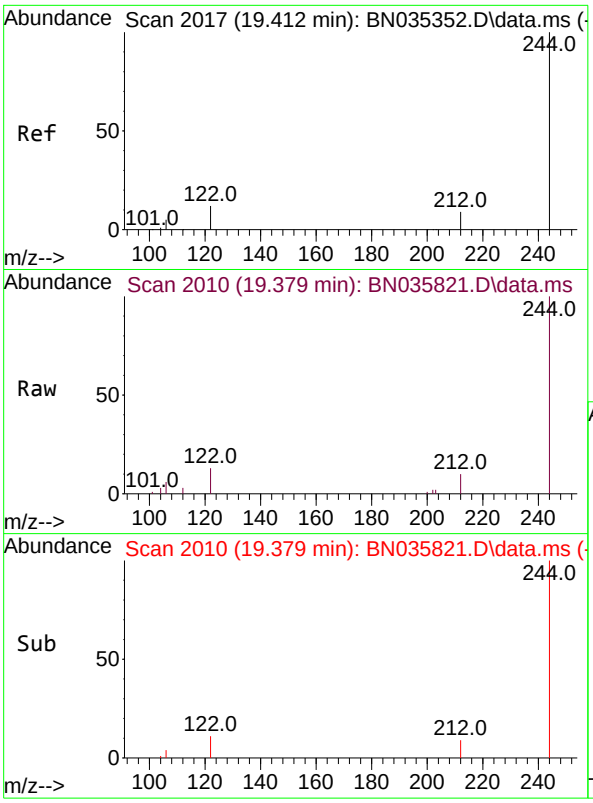



#30
Pyrene
Concen: 0.492 ng
RT: 19.147 min Scan# 1960
Delta R.T. -0.014 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:202 Resp: 15976

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 20.8 | 17.0 | 25.4 |
| 203 | 17.5 | 14.3 | 21.5 |

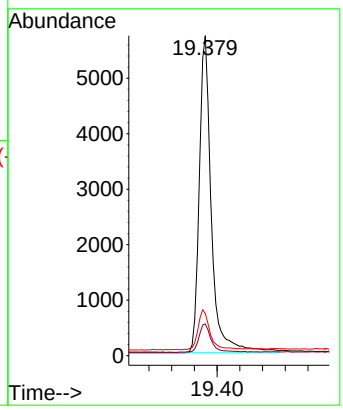





#31
Terphenyl-d14
Concen: 0.487 ng
RT: 19.379 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:244 Resp: 845

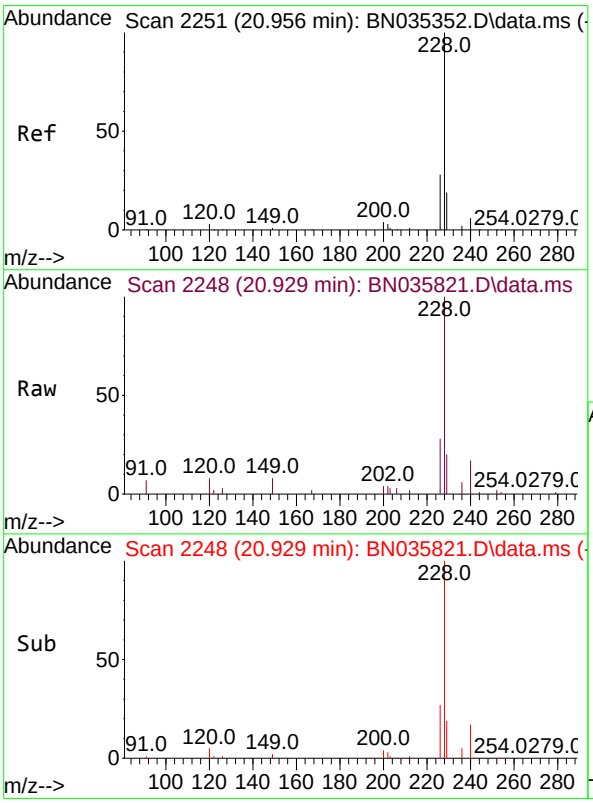
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 9.9 | 8.1 | 12.1 |
| 122 | 13.2 | 10.3 | 15.5 |




**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01S-20241218MS

**Manual Integrations**
**APPROVED**

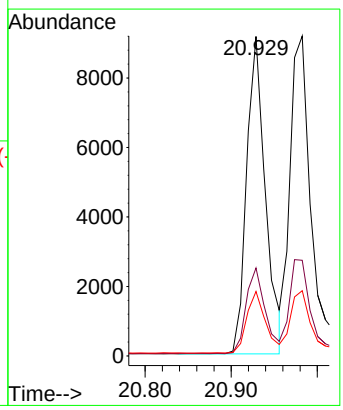
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

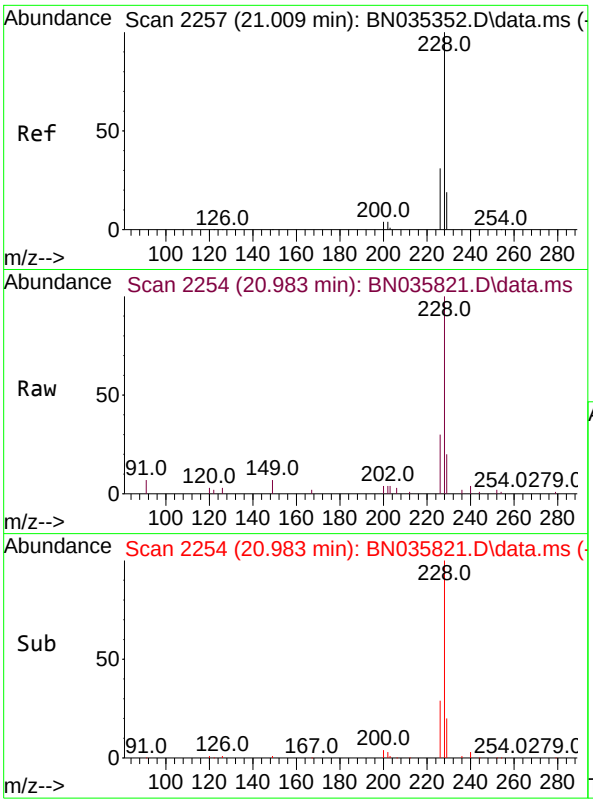



#32
Benzo(a)anthracene
Concen: 0.451 ng
RT: 20.929 min Scan# 2248
Delta R.T. -0.009 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:228 Resp: 13869

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 27.6 | 22.5 | 33.7 |
| 229 | 20.2 | 15.8 | 23.8 |

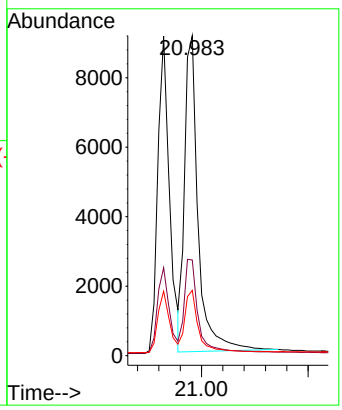





#33
Chrysene
Concen: 0.506 ng
RT: 20.983 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:228 Resp: 1604

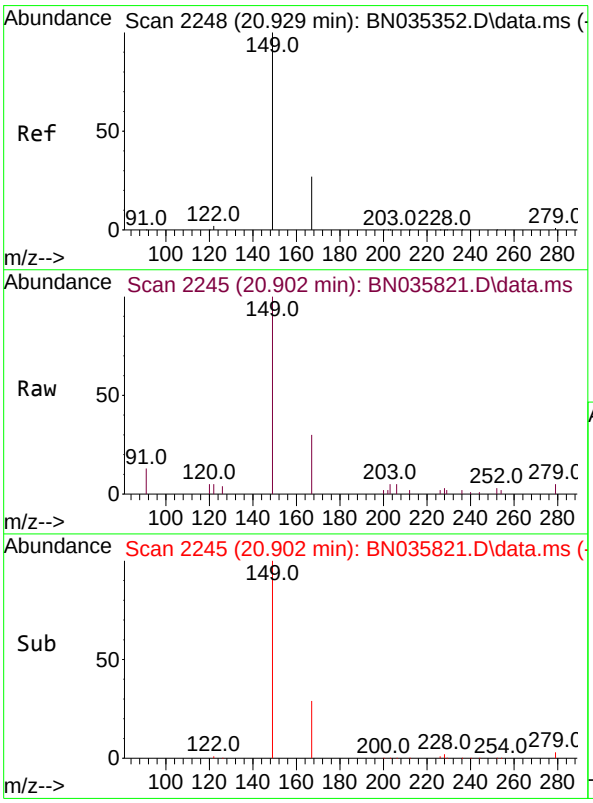
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 29.9 | 24.6 | 37.0 |
| 229 | 20.4 | 15.9 | 23.9 |




**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01S-20241218MS

**Manual Integrations**
**APPROVED**

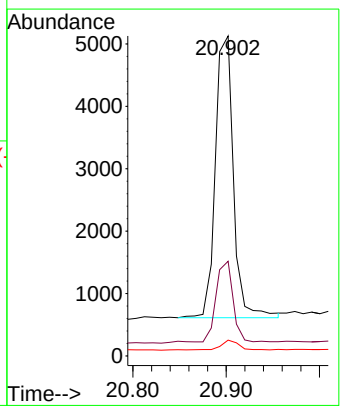
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

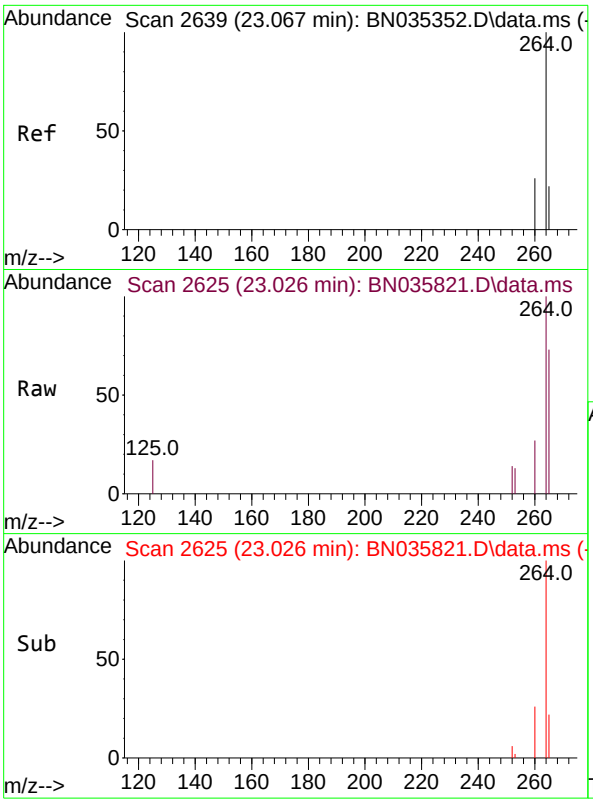



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.499 ng
RT: 20.902 min Scan# 2245
Delta R.T. -0.009 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:149 Resp: 6067

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 26.7 | 22.2 | 33.4 |
| 279 | 3.2 | 2.7 | 4.1 |

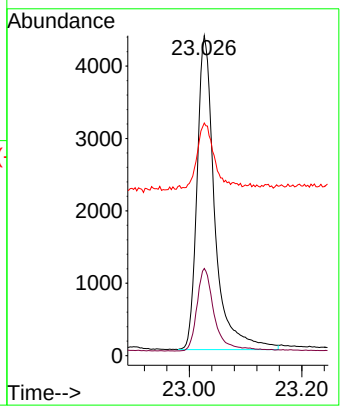





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.026 min Scan# 2
Delta R.T. -0.015 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:264 Resp: 947

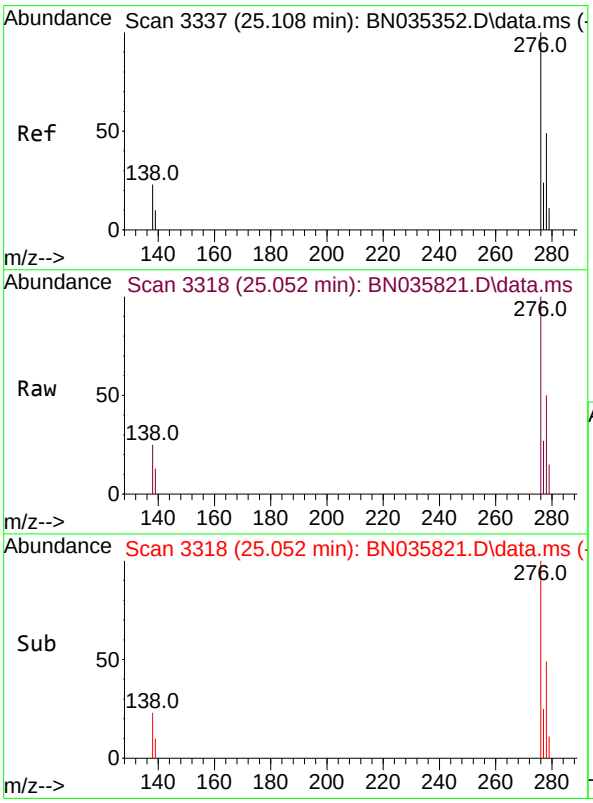
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 27.3 | 21.4 | 32.2 |
| 265 | 72.7 | 40.2 | 60.4 |




**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01S-20241218MS

**Manual Integrations**
**APPROVED**

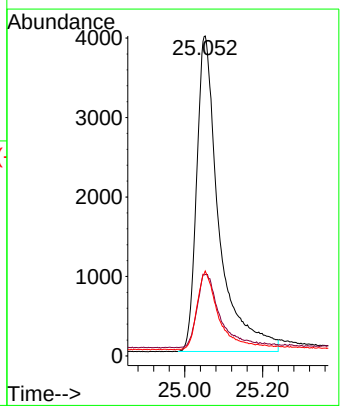
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

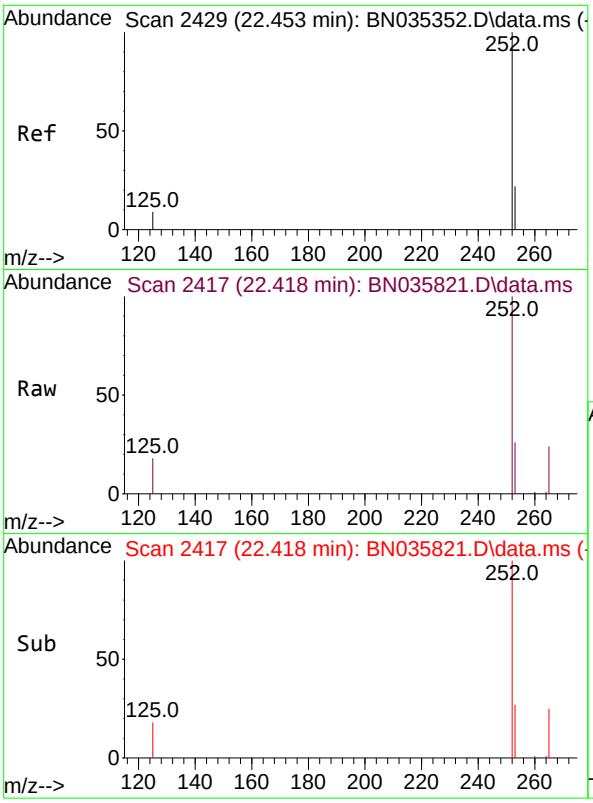



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.428 ng
RT: 25.052 min Scan# 3318
Delta R.T. -0.015 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:276 Resp: 15853

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 22.9 | 19.4 | 29.0 |
| 277 | 24.1 | 19.8 | 29.6 |

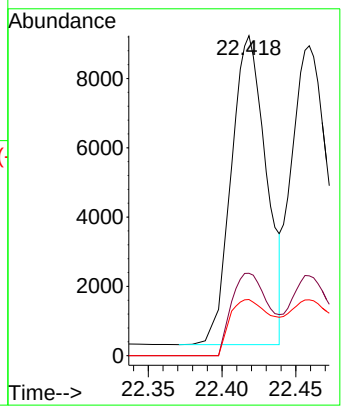





#37
Benzo(b)fluoranthene
Concen: 0.595 ng
RT: 22.418 min Scan# 24
Delta R.T. -0.012 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:252 Resp: 2064

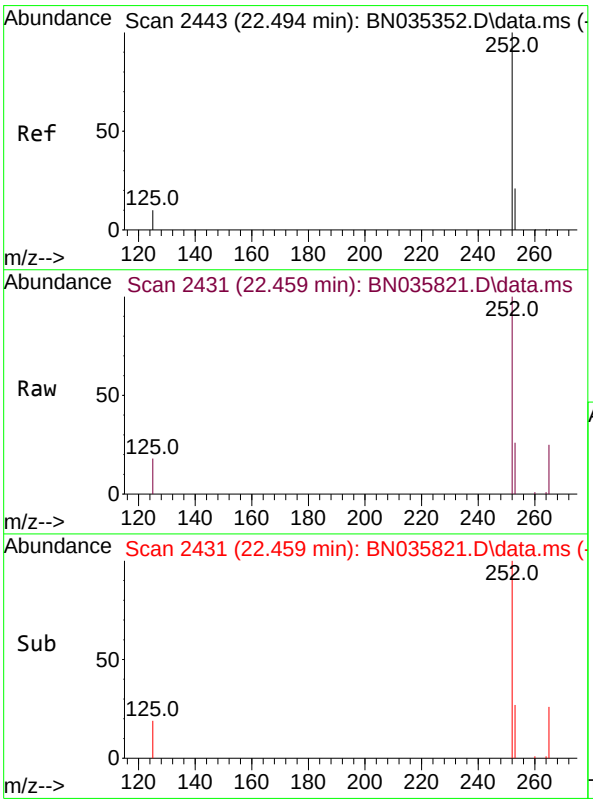
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 25.8 | 19.6 | 29.4 |
| 125 | 17.6 | 9.6 | 14.4# |




**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01S-20241218MS

**Manual Integrations**
**APPROVED**

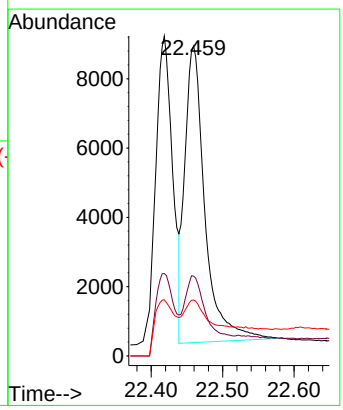
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

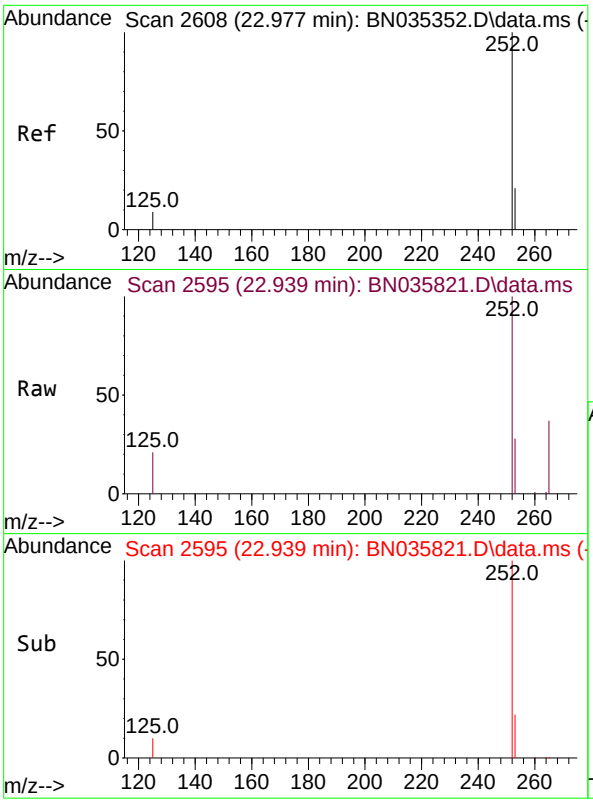



#38
Benzo(k)fluoranthene
Concen: 0.491 ng
RT: 22.459 min Scan# 2431
Delta R.T. -0.012 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:252 Resp: 16743

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 25.8 | 19.5 | 29.3 |
| 125 | 18.0 | 10.2 | 15.4# |

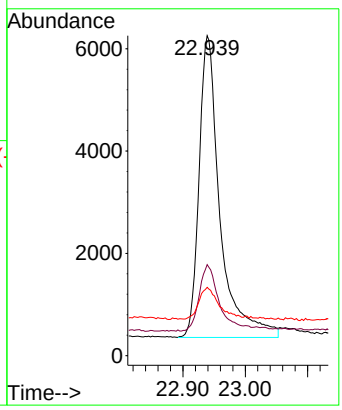





#39
Benzo(a)pyrene
Concen: 0.481 ng
RT: 22.939 min Scan# 2
Delta R.T. -0.012 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:252 Resp: 1374

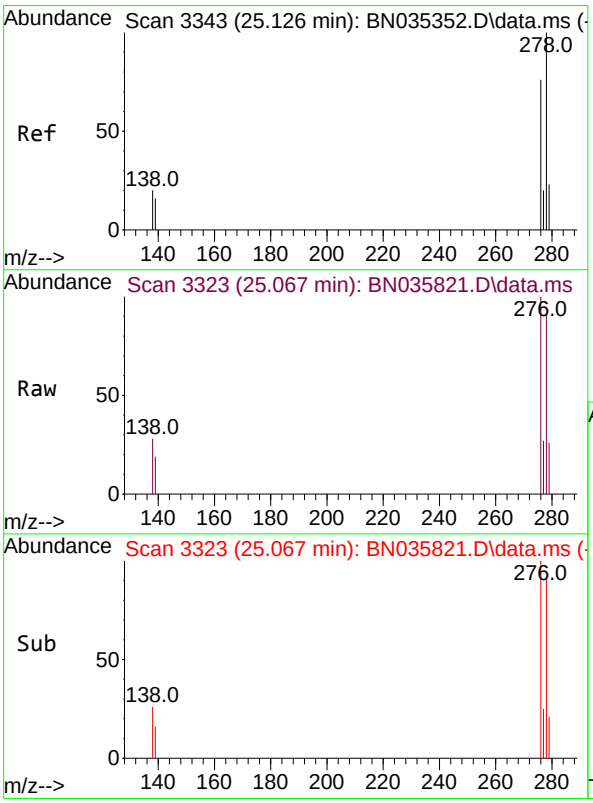
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 28.5 | 20.2 | 30.4 |
| 125 | 21.3 | 10.9 | 16.3 |




**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01S-20241218MS

**Manual Integrations**
**APPROVED**

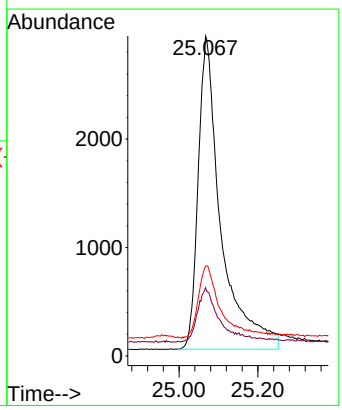
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

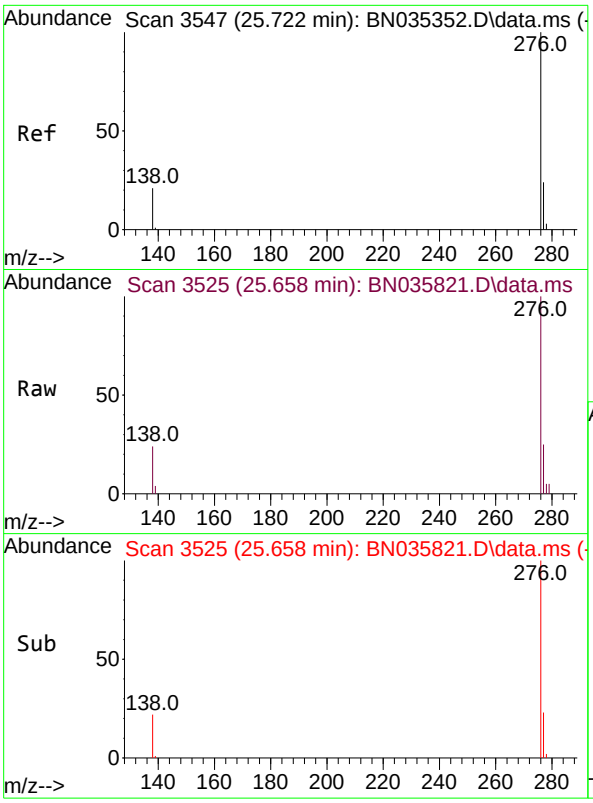



#40
Dibenzo(a,h)anthracene
Concen: 0.396 ng
RT: 25.067 min Scan# 3323
Delta R.T. -0.015 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:278 Resp: 11568

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 21.3 | 14.2 | 21.4 |
| 279 | 28.0 | 20.5 | 30.7 |

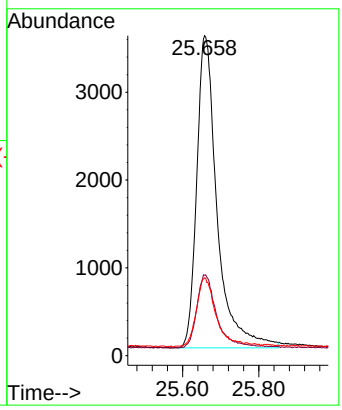





#41
Benzo(g,h,i)perylene
Concen: 0.433 ng
RT: 25.658 min Scan# 3
Delta R.T. -0.021 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:276 Resp: 1323

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 25.1 | 19.9 | 29.9 |
| 138 | 24.3 | 17.8 | 26.8 |




**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01S-20241218MS

**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | AECOM Technical Services, Inc. | Date Collected: | 12/18/24 |
| Project: | NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258 | Date Received: | 12/20/24 |
| Client Sample ID: | RW10-MW01S-20241218MSD | SDG No.: | P5376 |
| Lab Sample ID: | P5376-09MSD | Matrix: | Water |
| Analytical Method: | SW8270ESIM | % Solid: | 0 |
| Sample Wt/Vol: | 980 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-SIMGroup1 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BN035822.D | 1 | 12/23/24 13:29 | 12/24/24 15:31 | PB165828 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 123-91-1 | 1,4-Dioxane | 0.31 | | 0.070 | 0.20 | 0.20 | ug/L |
| **SURROGATES** | | | | | | | |
| 7297-45-2 | 2-Methylnaphthalene-d10 | 0.43 | | 30 - 150 | | 108% | SPK: 0.4 |
| 93951-69-0 | Fluoranthene-d10 | 0.43 | | 30 - 150 | | 108% | SPK: 0.4 |
| 4165-60-0 | Nitrobenzene-d5 | 0.42 | | 55 - 111 | | 104% | SPK: 0.4 |
| 321-60-8 | 2-Fluorobiphenyl | 0.37 | | 53 - 106 | | 93% | SPK: 0.4 |
| 1718-51-0 | Terphenyl-d14 | 0.51 | | 58 - 132 | | 128% | SPK: 0.4 |
| **INTERNAL STANDARDS** | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 3190 | 7.257 | | | | |
| 1146-65-2 | Naphthalene-d8 | 7950 | 9.998 | | | | |
| 15067-26-2 | Acenaphthene-d10 | 4890 | 13.914 | | | | |
| 1517-22-2 | Phenanthrene-d10 | 10100 | 16.686 | | | | |
| 1719-03-5 | Chrysene-d12 | 9500 | 20.938 | | | | |
| 1520-96-3 | Perylene-d12 | 9990 | 23.02 | | | | |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035822.D
Acq On : 24 Dec 2024 15:31
Operator : RC/JU
Sample : P5376-09MSD
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Dec 24 23:19:11 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01S-20241218MSD

**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.257 | 152 | 3187 | 0.400 | ng | -0.01 |
| 7) Naphthalene-d8 | 9.998 | 136 | 7953 | 0.400 | ng | -0.02 |
| 13) Acenaphthene-d10 | 13.914 | 164 | 4887 | 0.400 | ng | -0.02 |
| 19) Phenanthrene-d10 | 16.686 | 188 | 10068 | 0.400 | ng | #-0.01 |
| 29) Chrysene-d12 | 20.938 | 240 | 9501 | 0.400 | ng | #-0.02 |
| 35) Perylene-d12 | 23.020 | 264 | 9990 | 0.400 | ng | #-0.02 |
| **System Monitoring Compounds** | | | | | | |
| 4) 2-Fluorophenol | 4.932 | 112 | 967 | 0.121 | ng | 0.00 |
| 5) Phenol-d6 | 6.477 | 99 | 640 | 0.067 | ng | -0.01 |
| 8) Nitrobenzene-d5 | 8.397 | 82 | 2023m | 0.416 | ng | -0.01 |
| 11) 2-Methylnaphthalene-d10 | 11.605 | 152 | 5387 | 0.433 | ng | -0.02 |
| 14) 2,4,6-Tribromophenol | 15.442 | 330 | 787 | 0.227 | ng | -0.01 |
| 15) 2-Fluorobiphenyl | 12.528 | 172 | 6851 | 0.371 | ng | -0.02 |
| 27) Fluoranthene-d10 | 18.747 | 212 | 12293 | 0.431 | ng | -0.01 |
| 31) Terphenyl-d14 | 19.374 | 244 | 9610 | 0.513 | ng | -0.01 |
| **Target Compounds** | | | | | | Qvalue |
| 2) 1,4-Dioxane | 2.974 | 88 | 932 | 0.306 | ng | # 75 |
| 3) n-Nitrosodimethylamine | 3.270 | 42 | 376 | 0.148 | ng | # 81 |
| 6) bis(2-Chloroethyl)ether | 6.715 | 93 | 2448 | 0.304 | ng | 95 |
| 9) Naphthalene | 10.052 | 128 | 8332 | 0.397 | ng | 99 |
| 10) Hexachlorobutadiene | 10.340 | 225 | 1549 | 0.320 | ng | # 99 |
| 12) 2-Methylnaphthalene | 11.681 | 142 | 5571 | 0.371 | ng | 99 |
| 16) Acenaphthylene | 13.625 | 152 | 8940 | 0.436 | ng | 100 |
| 17) Acenaphthene | 13.978 | 154 | 5758 | 0.423 | ng | 99 |
| 18) Fluorene | 14.983 | 166 | 7782 | 0.399 | ng | 98 |
| 20) 4,6-Dinitro-2-methylph... | 15.100 | 198 | 341 | 0.344 | ng | # 31 |
| 21) 4-Bromophenyl-phenylether | 15.891 | 248 | 2147 | 0.365 | ng | # 78 |
| 22) Hexachlorobenzene | 16.003 | 284 | 2983 | 0.431 | ng | 95 |
| 23) Atrazine | 16.189 | 200 | 1738 | 0.415 | ng | 96 |
| 24) Pentachlorophenol | 16.351 | 266 | 2251 | 0.748 | ng | 87 |
| 25) Phenanthrene | 16.735 | 178 | 13447 | 0.486 | ng | 99 |
| 26) Anthracene | 16.822 | 178 | 11668 | 0.466 | ng | 98 |
| 28) Fluoranthene | 18.775 | 202 | 16762 | 0.450 | ng | 99 |
| 30) Pyrene | 19.142 | 202 | 17829 | 0.508 | ng | 99 |
| 32) Benzo(a)anthracene | 20.920 | 228 | 15744 | 0.474 | ng | 100 |
| 33) Chrysene | 20.974 | 228 | 16946 | 0.494 | ng | 100 |
| 34) Bis(2-ethylhexyl)phtha... | 20.893 | 149 | 6876 | 0.524 | ng | 99 |
| 36) Indeno(1,2,3-cd)pyrene | 25.044 | 276 | 16588 | 0.425 | ng | 98 |
| 37) Benzo(b)fluoranthene | 22.412 | 252 | 22222 | 0.608 | ng | # 93 |
| 38) Benzo(k)fluoranthene | 22.453 | 252 | 18080 | 0.503 | ng | # 93 |
| 39) Benzo(a)pyrene | 22.933 | 252 | 14639 | 0.486 | ng | # 90 |
| 40) Dibenzo(a,h)anthracene | 25.064 | 278 | 12290 | 0.399 | ng | 94 |
| 41) Benzo(g,h,i)perylene | 25.655 | 276 | 13609 | 0.423 | ng | 98 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

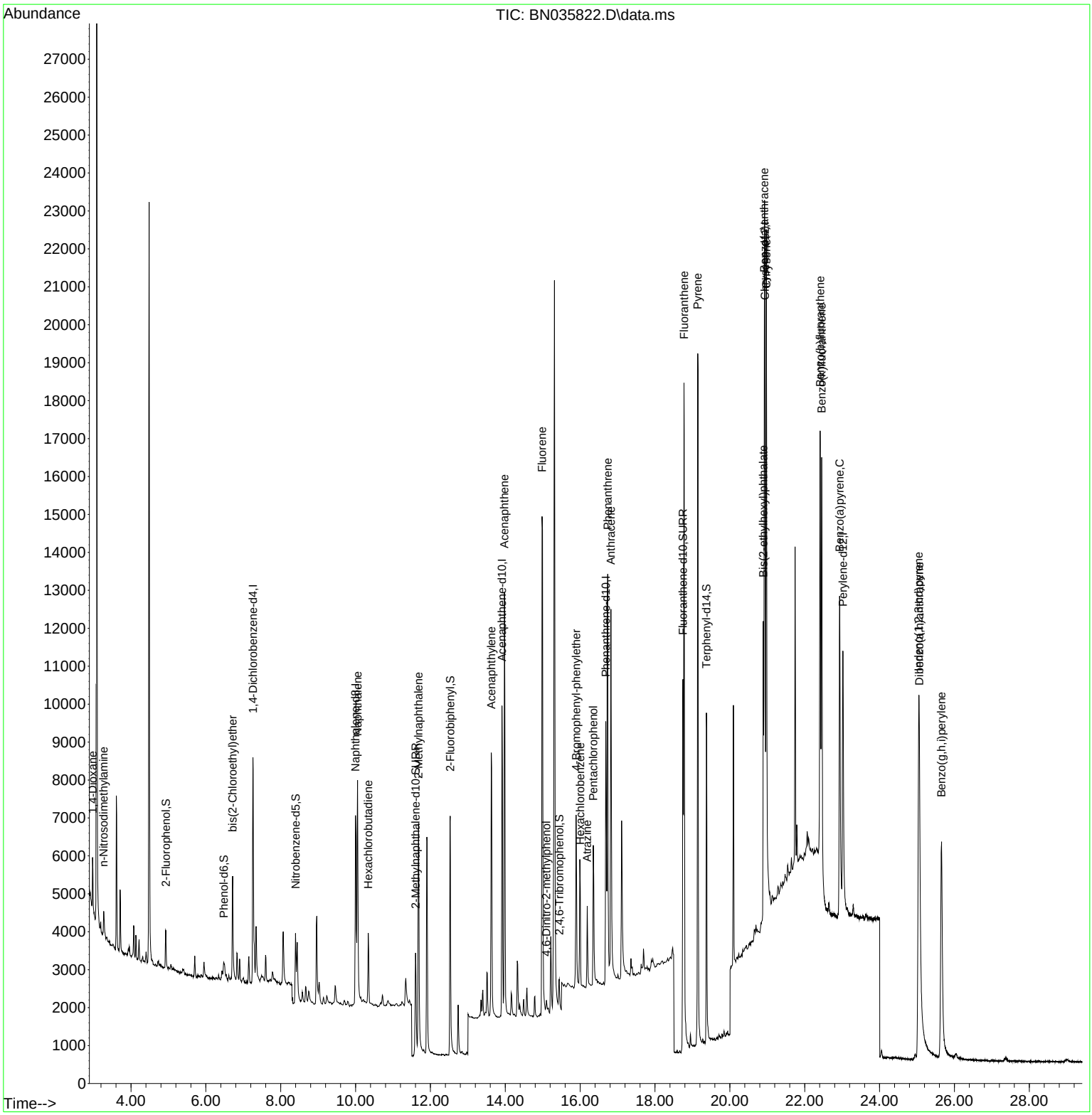
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035822.D
Acq On : 24 Dec 2024 15:31
Operator : RC/JU
Sample : P5376-09MSD
Misc :
ALS Vial : 13 Sample Multiplier: 1

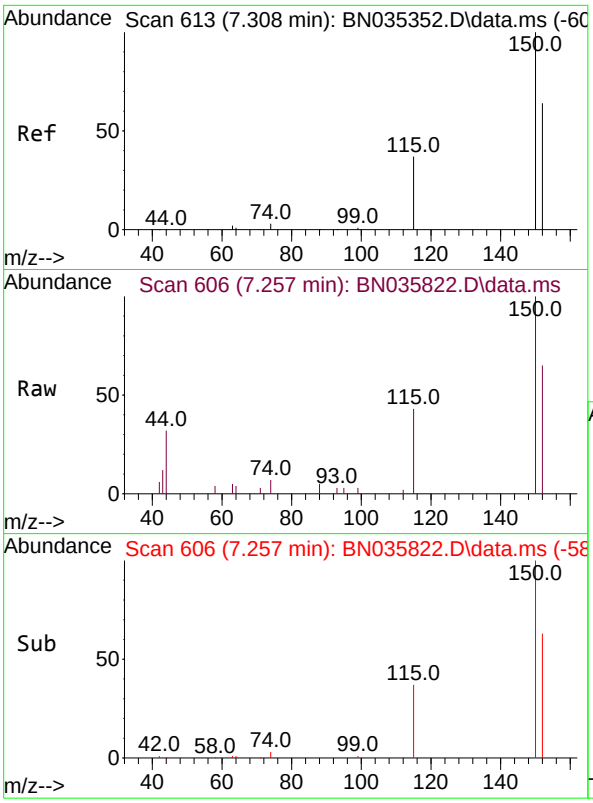
Quant Time: Dec 24 23:19:11 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01S-20241218MSD

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

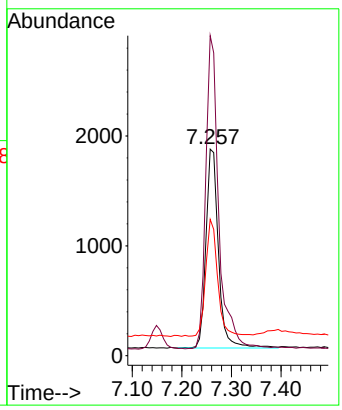





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 6
Delta R.T. -0.015 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:152 Resp: 318

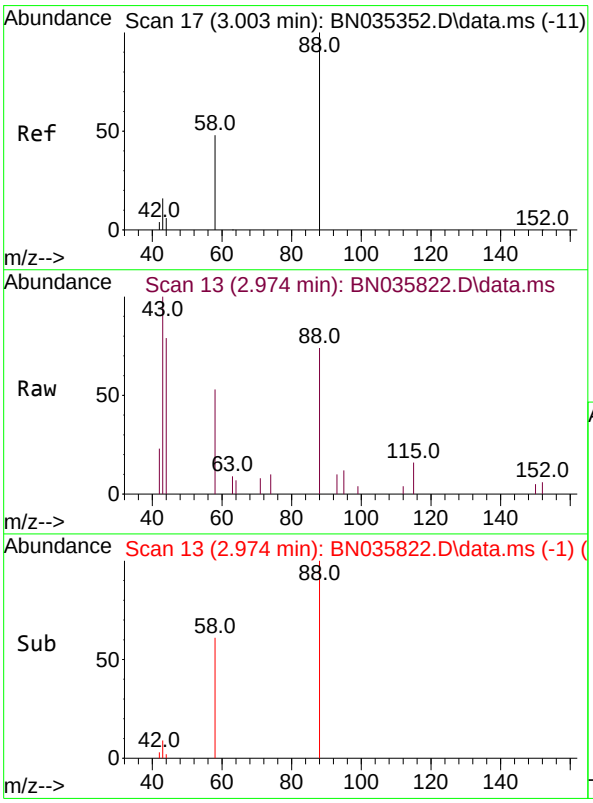
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 154.9 | 124.0 | 186.0 |
| 115 | 66.0 | 49.6 | 74.4 |




**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01S-20241218MSD

**Manual Integrations**
**APPROVED**

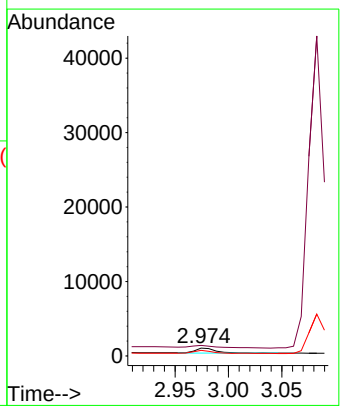
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

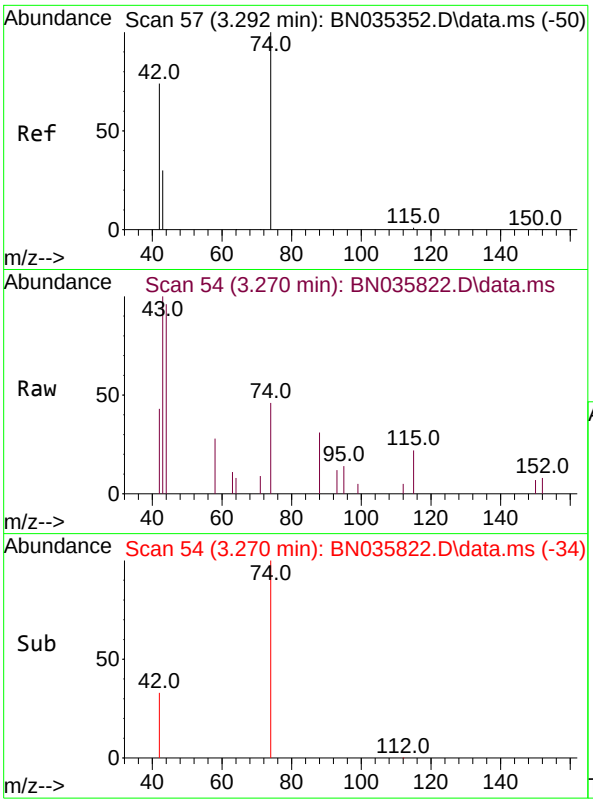



#2
1,4-Dioxane
Concen: 0.306 ng
RT: 2.974 min Scan# 13
Delta R.T. -0.007 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion: 88 Resp: 932

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 0.0 | 17.2 | 25.8# |
| 58 | 67.9 | 44.5 | 66.7# |

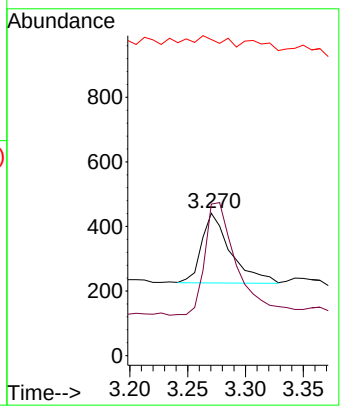





#3
n-Nitrosodimethylamine
Concen: 0.148 ng
RT: 3.270 min Scan# 54
Delta R.T. -0.007 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion: 42 Resp: 37

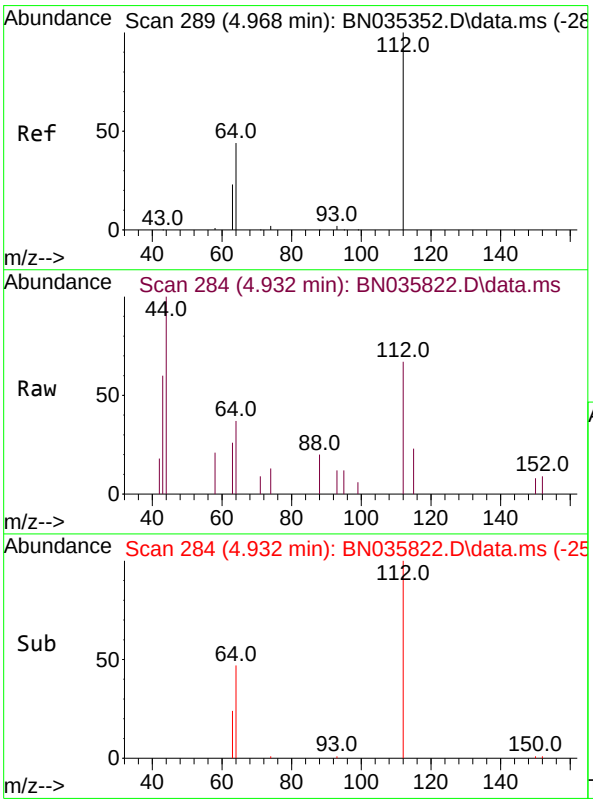
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 180.6 | 124.9 | 187.3 |
| 44 | 0.0 | 2.2 | 3.4 |




**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01S-20241218MSD

**Manual Integrations**
**APPROVED**

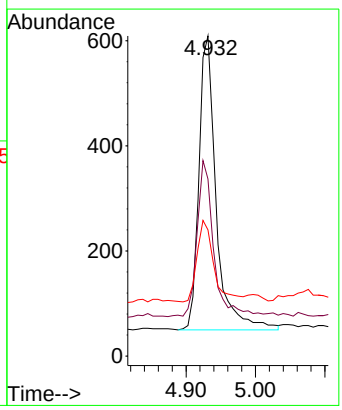
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

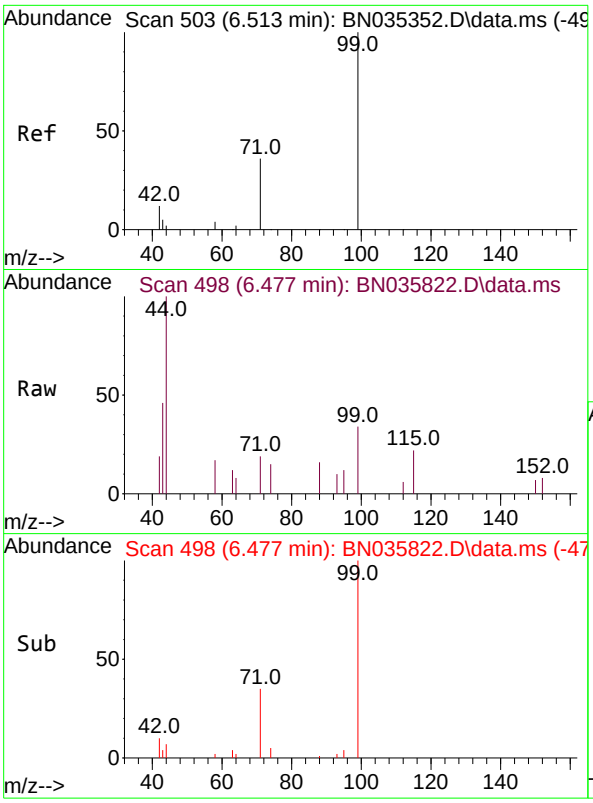



#4
2-Fluorophenol
Concen: 0.121 ng
RT: 4.932 min Scan# 284
Delta R.T. -0.007 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:112 Resp: 967

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 52.6 | 39.8 | 59.8 |
| 63 | 27.0 | 21.0 | 31.6 |

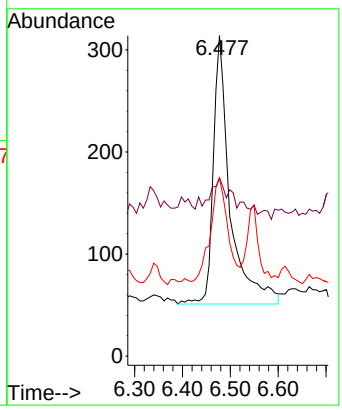





#5
Phenol-d6
Concen: 0.067 ng
RT: 6.477 min Scan# 4
Delta R.T. -0.015 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion: 99 Resp: 64

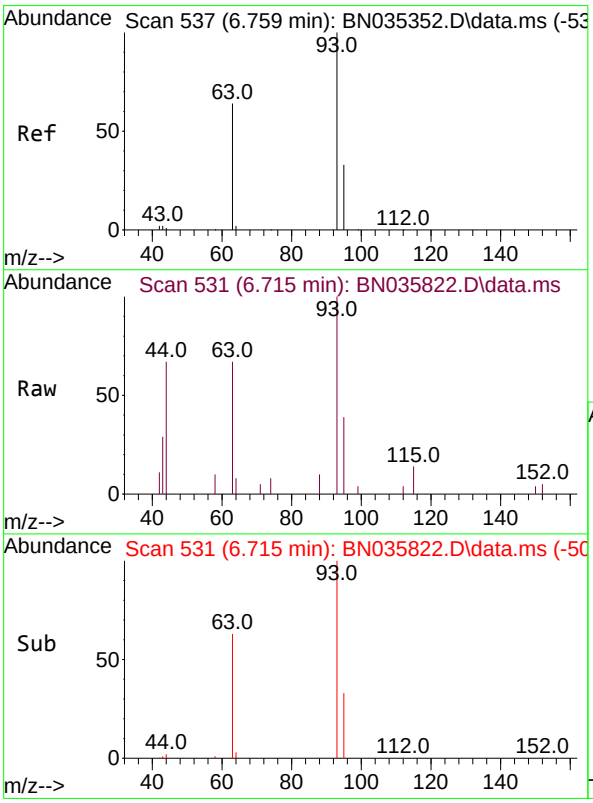
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 16.3 | 11.4 | 17.2 |
| 71 | 42.2 | 29.3 | 43.9 |




**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01S-20241218MSD

**Manual Integrations**
**APPROVED**

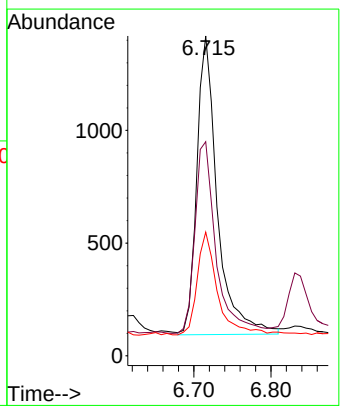
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

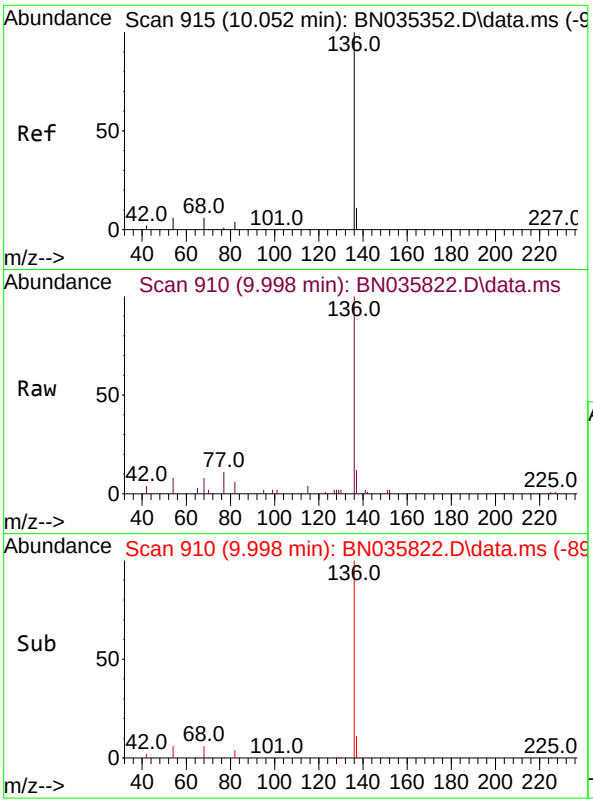



#6
bis(2-Chloroethyl)ether
Concen: 0.304 ng
RT: 6.715 min Scan# 531
Delta R.T. -0.015 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion: 93 Resp: 2448

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 66.0 | 50.4 | 75.6 |
| 95 | 35.5 | 25.7 | 38.5 |

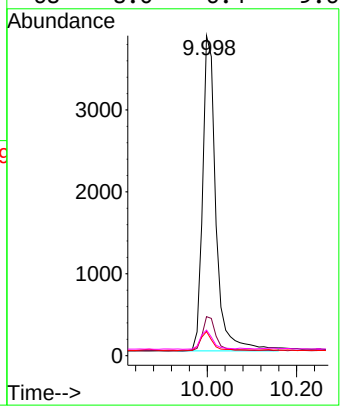





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 9.998 min Scan# 91
Delta R.T. -0.022 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

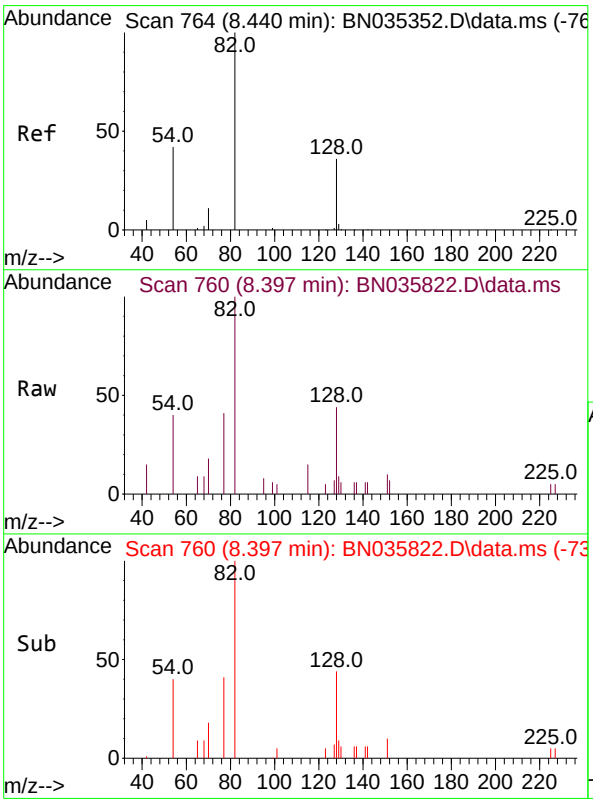
Tgt Ion:136 Resp: 795

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 12.2 | 10.2 | 15.2 |
| 54 | 7.6 | 6.1 | 9.1 |
| 68 | 8.0 | 6.4 | 9.6 |




**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01S-20241218MSD

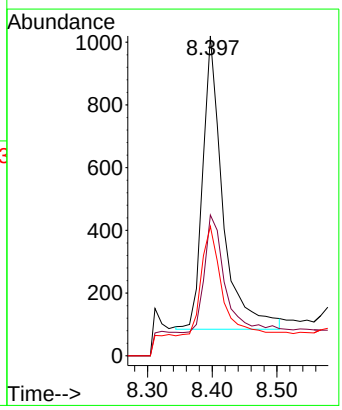
**Manual Integrations**
**APPROVED**
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

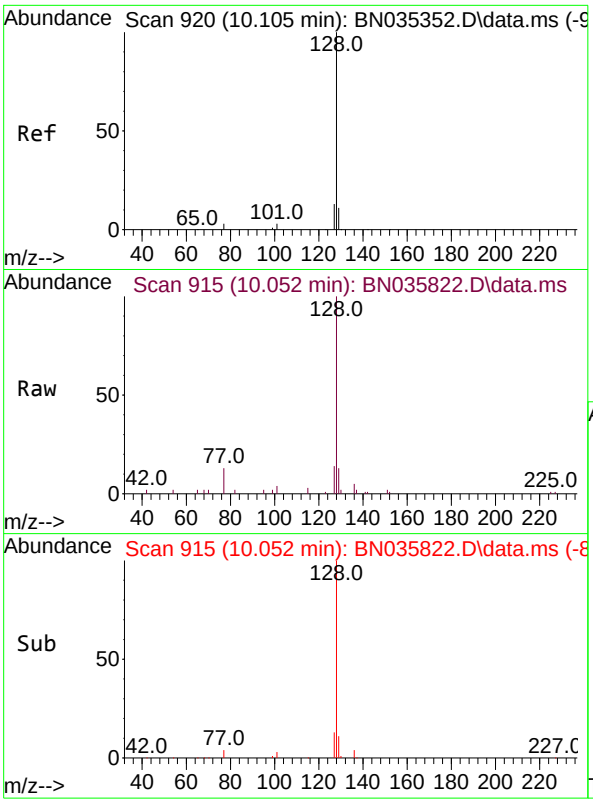



#8
Nitrobenzene-d5
Concen: 0.416 ng m
RT: 8.397 min Scan# 760
Delta R.T. -0.011 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion: 82 Resp: 2023

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 44.0 | 33.4 | 50.0 |
| 54 | 40.5 | 36.7 | 55.1 |

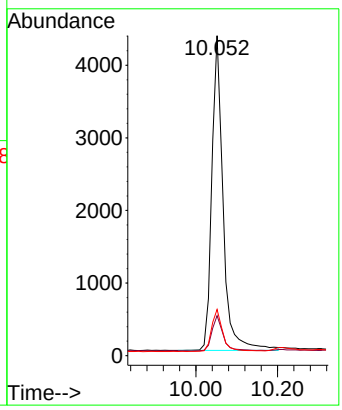





#9
Naphthalene
Concen: 0.397 ng
RT: 10.052 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:128 Resp: 833

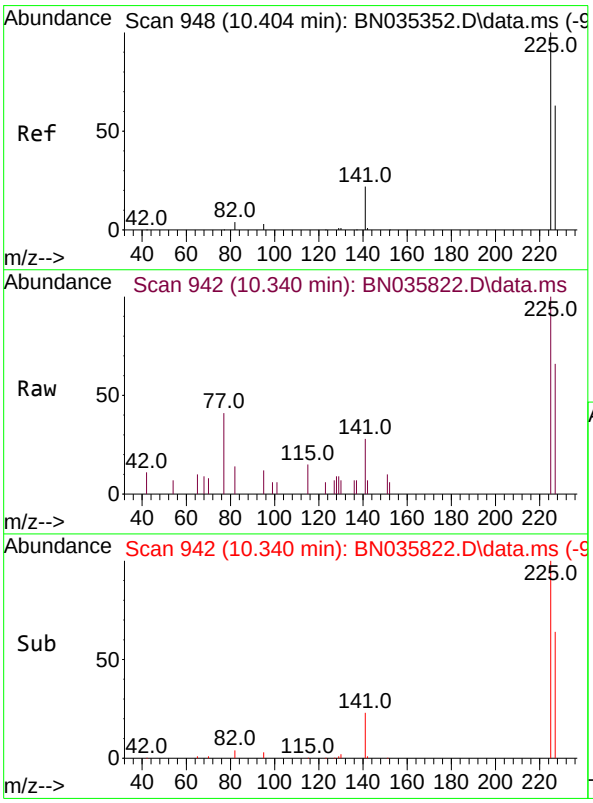
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 12.5 | 9.8 | 14.6 |
| 127 | 14.4 | 11.4 | 17.2 |




**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01S-20241218MSD

**Manual Integrations**
**APPROVED**

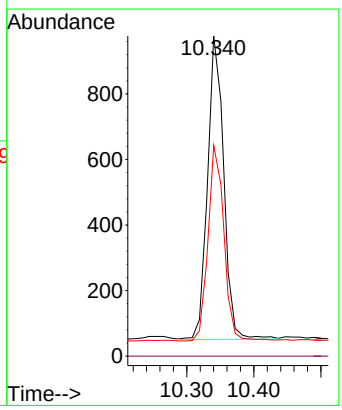
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

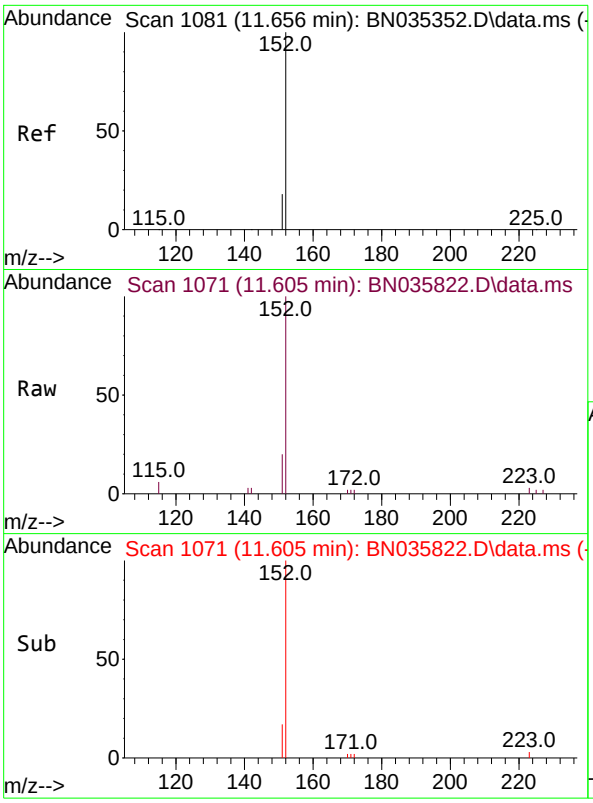



#10
Hexachlorobutadiene
Concen: 0.320 ng
RT: 10.340 min Scan# 942
Delta R.T. -0.022 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:225 Resp: 1549

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 0.0 | 0.0 | 0.0 |
| 227 | 63.5 | 51.3 | 76.9 |

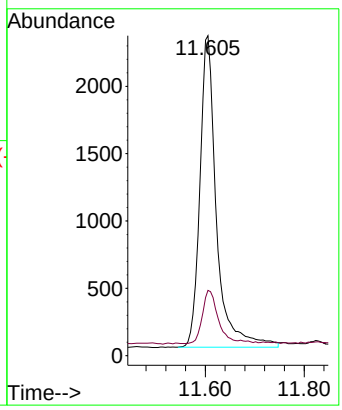





#11
2-Methylnaphthalene-d10
Concen: 0.433 ng
RT: 11.605 min Scan# 1
Delta R.T. -0.015 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:152 Resp: 538

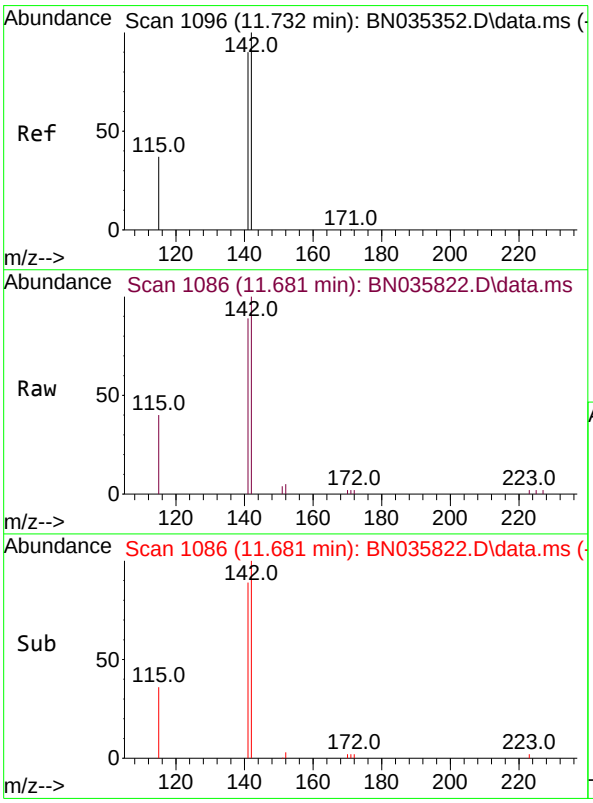
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 16.6 | 16.6 | 25.0 |




**Instrument :**
BNA_N
**ClientSampleId :**
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**Manual Integrations**
**APPROVED**

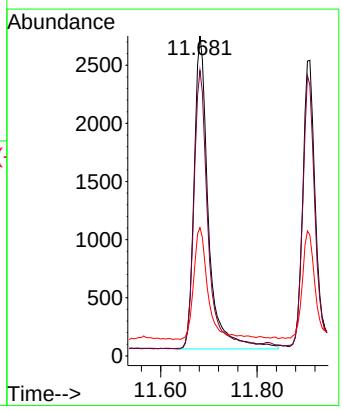
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

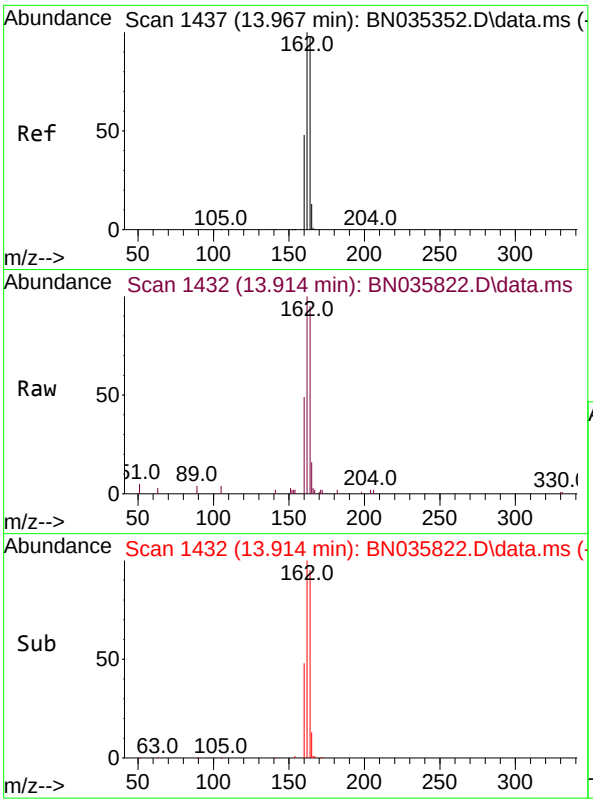



#12
2-Methylnaphthalene
Concen: 0.371 ng
RT: 11.681 min Scan# 1086
Delta R.T. -0.015 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:142 Resp: 5571

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 89.2 | 72.2 | 108.4 |
| 115 | 40.1 | 31.4 | 47.0 |

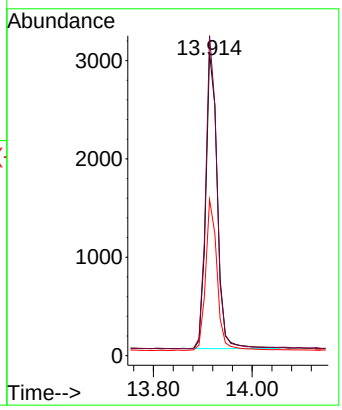





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.914 min Scan# 14
Delta R.T. -0.022 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:164 Resp: 488

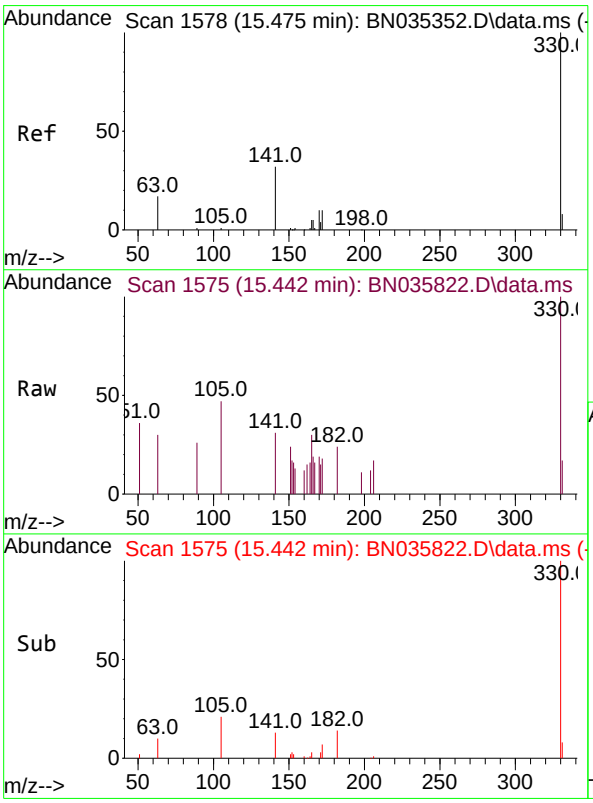
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 105.6 | 82.2 | 123.2 |
| 160 | 51.5 | 40.1 | 60.1 |




**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01S-20241218MSD

**Manual Integrations**
**APPROVED**

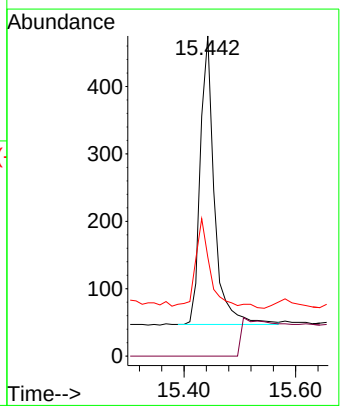
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

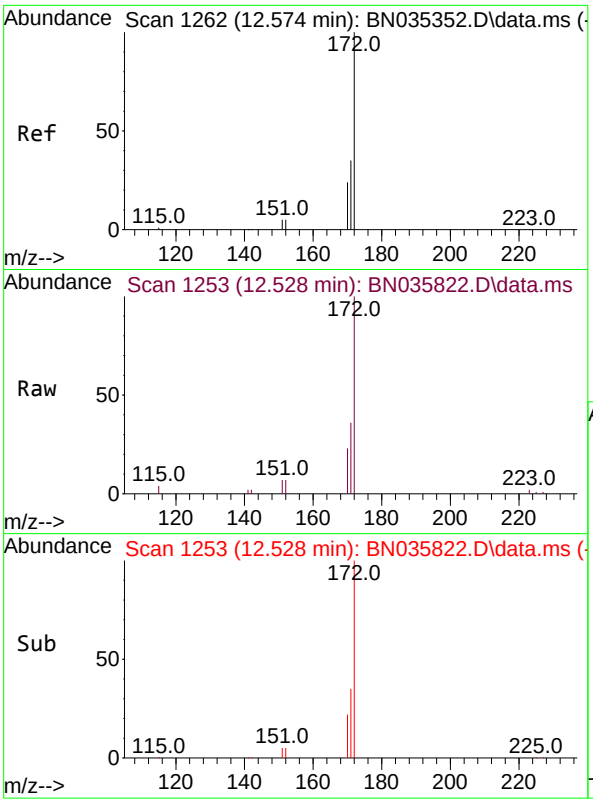



#14
2,4,6-Tribromophenol
Concen: 0.227 ng
RT: 15.442 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:330 Resp: 787

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 0.0 | 0.0 | 0.0 |
| 141 | 32.5 | 26.6 | 40.0 |

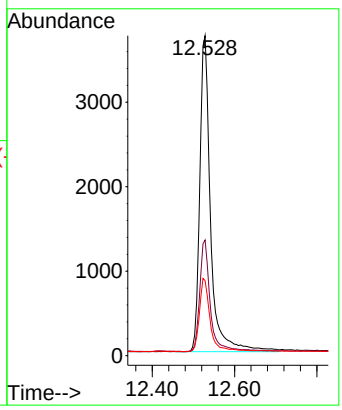





#15
2-Fluorobiphenyl
Concen: 0.371 ng
RT: 12.528 min Scan# 1
Delta R.T. -0.015 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:172 Resp: 685

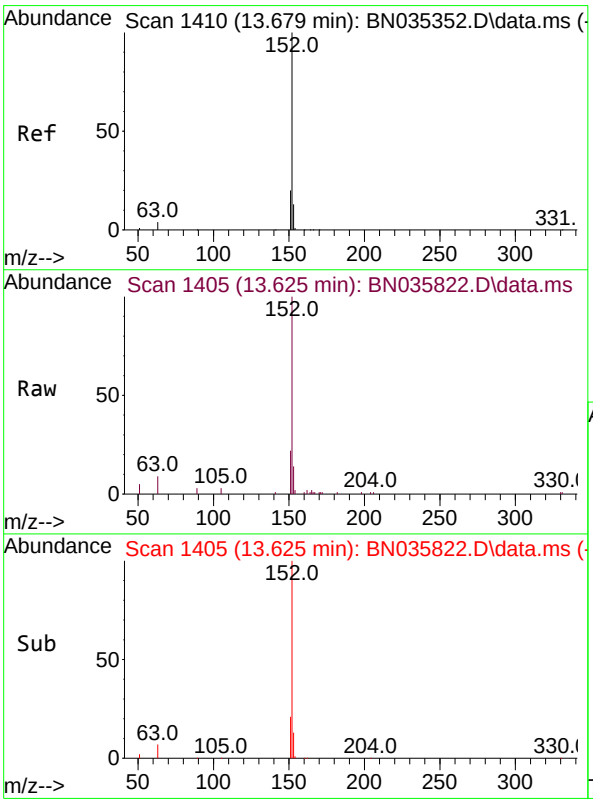
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 36.1 | 29.0 | 43.4 |
| 170 | 23.5 | 19.8 | 29.8 |




**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01S-20241218MSD

**Manual Integrations**
**APPROVED**

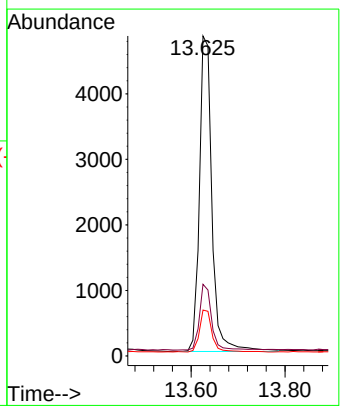
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

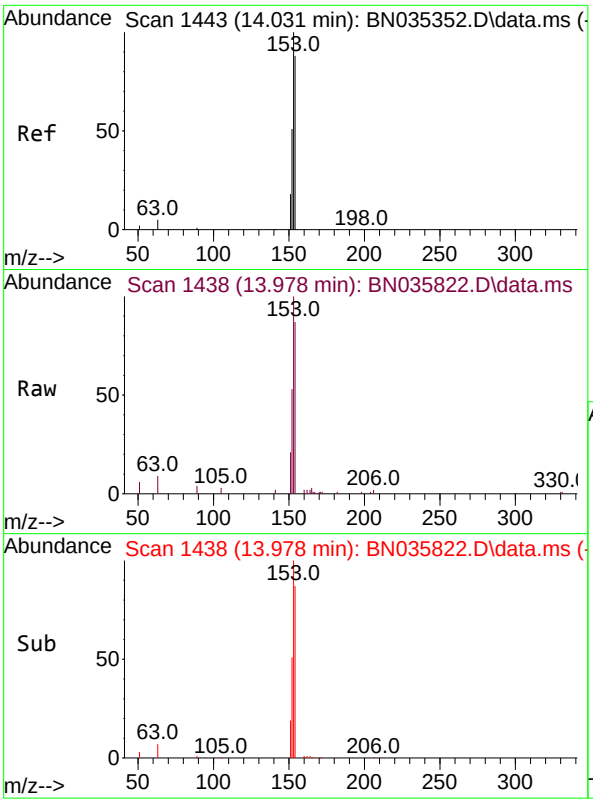



#16
Acenaphthylene
Concen: 0.436 ng
RT: 13.625 min Scan# 1405
Delta R.T. -0.022 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:152 Resp: 8940

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.2 | 16.2 | 24.2 |
| 153 | 13.4 | 10.4 | 15.6 |

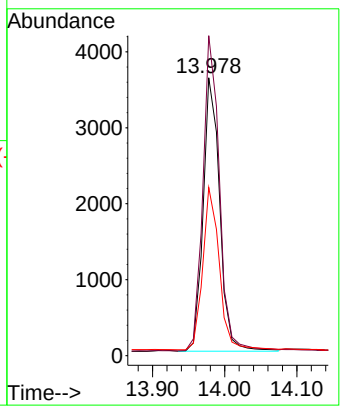





#17
Acenaphthene
Concen: 0.423 ng
RT: 13.978 min Scan# 14
Delta R.T. -0.022 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:154 Resp: 575

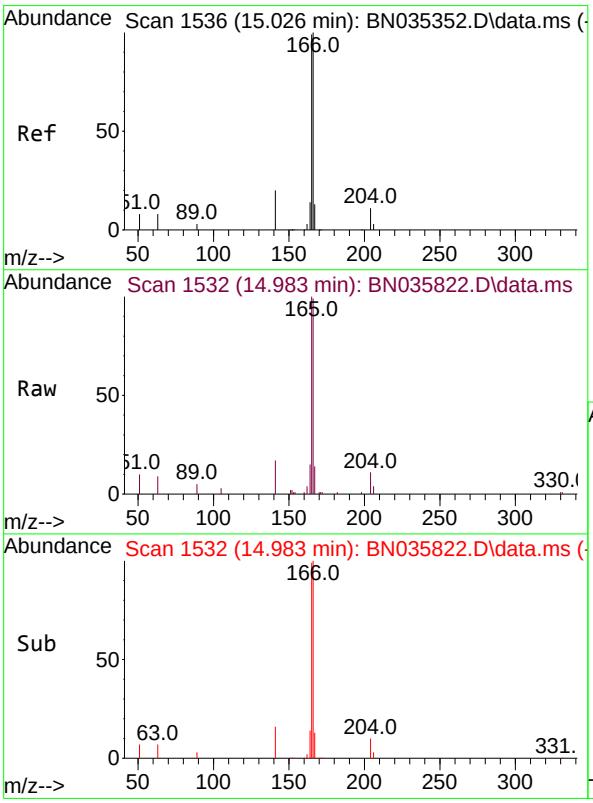
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 115.8 | 92.6 | 139.0 |
| 152 | 58.9 | 49.0 | 73.6 |




**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01S-20241218MSD

**Manual Integrations**
**APPROVED**

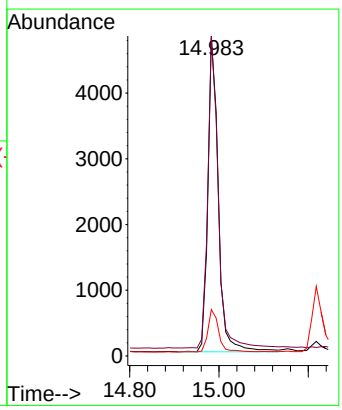
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

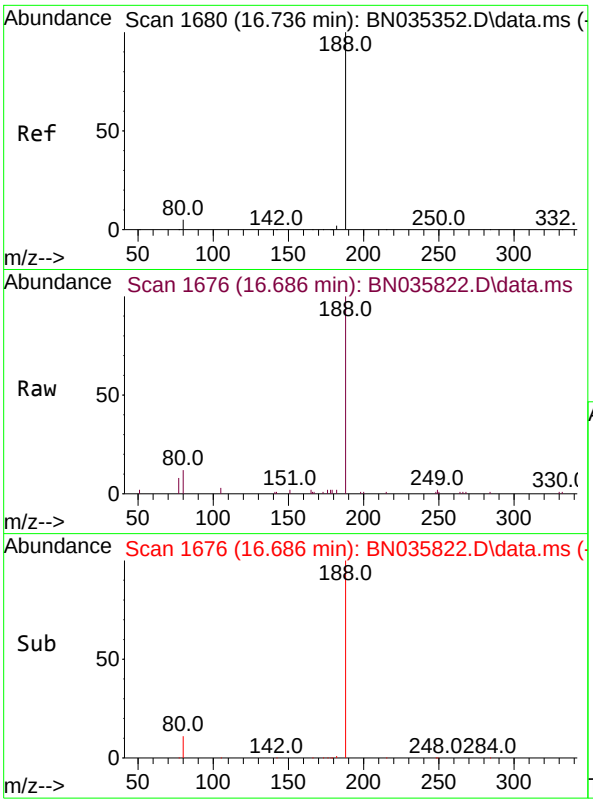



#18
Fluorene
Concen: 0.399 ng
RT: 14.983 min Scan# 1532
Delta R.T. -0.022 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:166 Resp: 7782

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 98.0 | 79.7 | 119.5 |
| 167 | 13.9 | 10.8 | 16.2 |

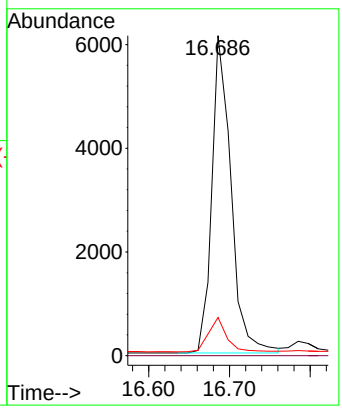





#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.686 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:188 Resp: 1006

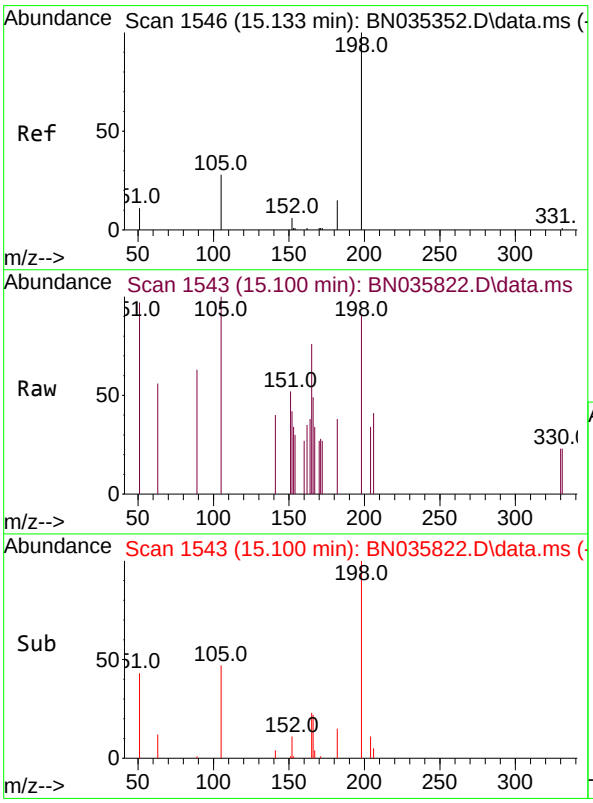
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 11.9 | 4.6 | 6.8# |




**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01S-20241218MSD

**Manual Integrations**
**APPROVED**

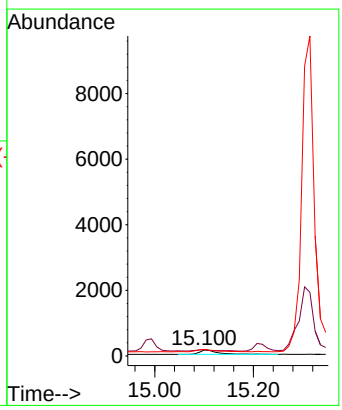
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

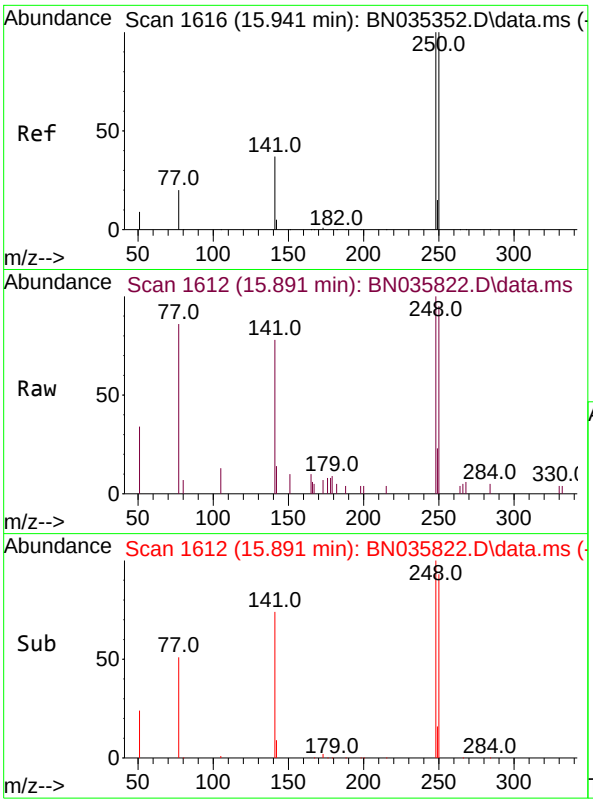



#20
4,6-Dinitro-2-methylphenol
Concen: 0.344 ng
RT: 15.100 min Scan# 1543
Delta R.T. -0.022 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:198 Resp: 341

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 198 | 100 | | |
| 51 | 106.6 | 46.5 | 69.7# |
| 105 | 109.9 | 45.3 | 67.9# |

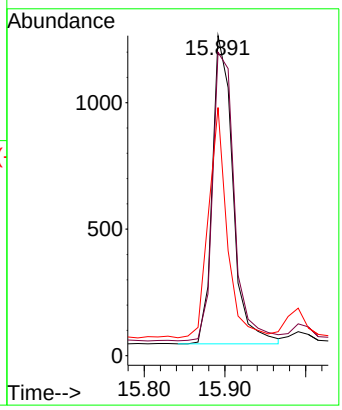





#21
4-Bromophenyl-phenylether
Concen: 0.365 ng
RT: 15.891 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:248 Resp: 214

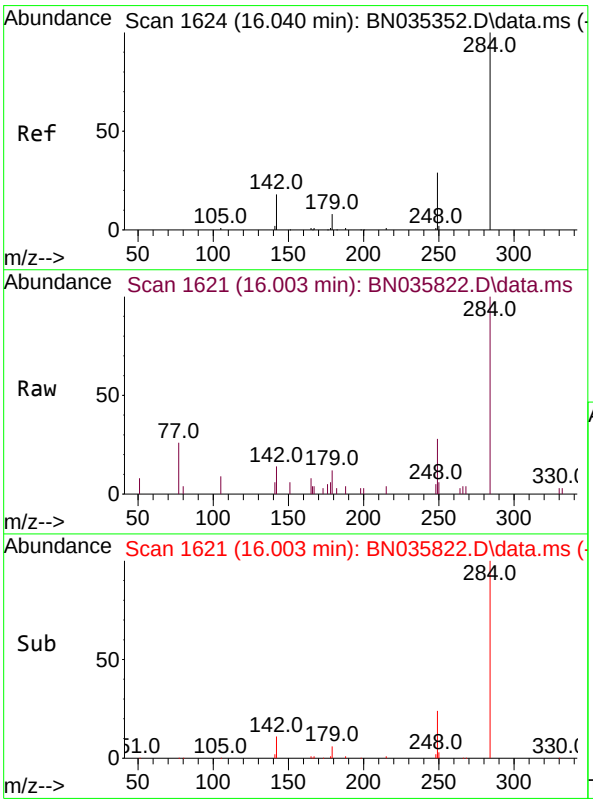
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 94.8 | 80.6 | 120.8 |
| 141 | 77.5 | 31.5 | 47.3# |




**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01S-20241218MSD

**Manual Integrations**
**APPROVED**

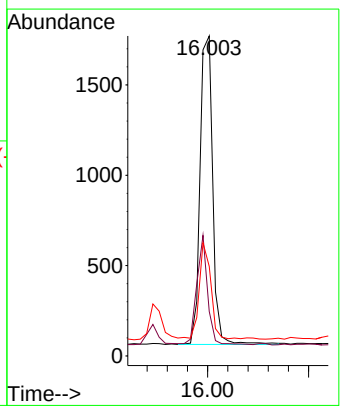
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

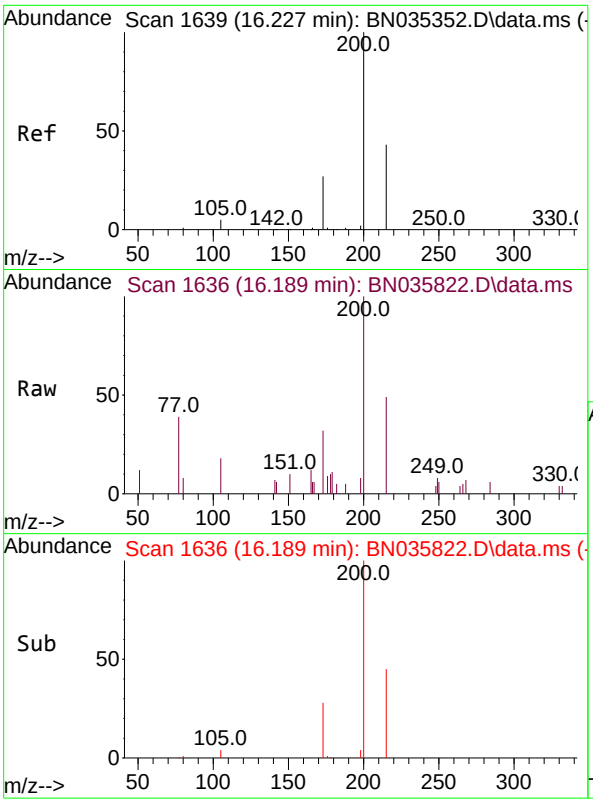



#22
Hexachlorobenzene
Concen: 0.431 ng
RT: 16.003 min Scan# 1621
Delta R.T. -0.013 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:284 Resp: 2983

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 30.0 | 26.7 | 40.1 |
| 249 | 28.6 | 24.6 | 36.8 |

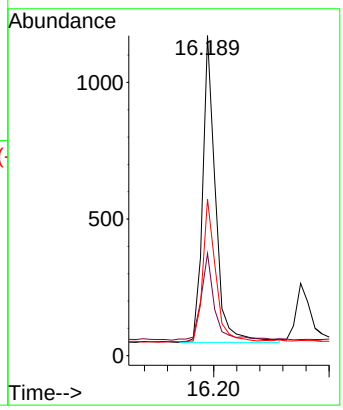





#23
Atrazine
Concen: 0.415 ng
RT: 16.189 min Scan# 1(
Delta R.T. -0.013 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:200 Resp: 173

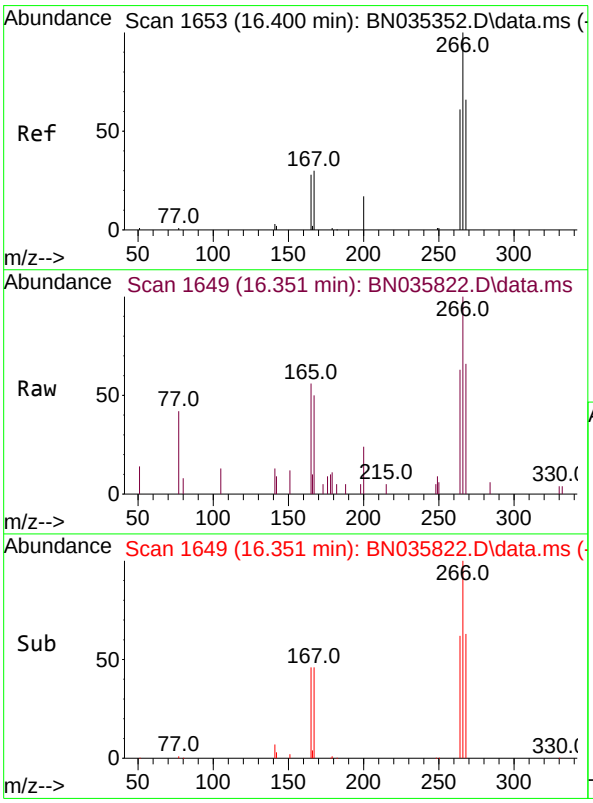
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 173 | 31.9 | 24.1 | 36.1 |
| 215 | 48.9 | 36.9 | 55.3 |




**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01S-20241218MSD

**Manual Integrations**
**APPROVED**

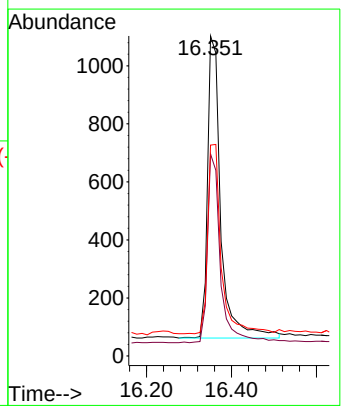
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

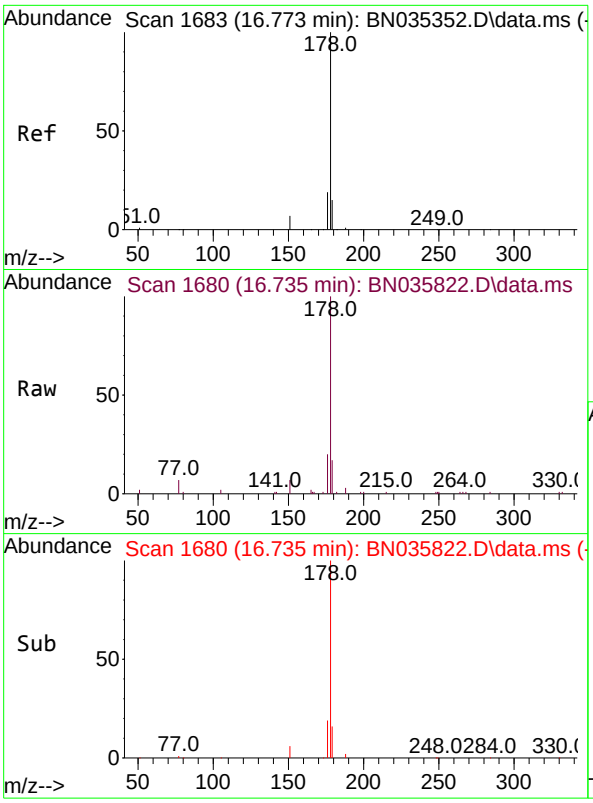



#24
Pentachlorophenol
Concen: 0.748 ng
RT: 16.351 min Scan# 1649
Delta R.T. -0.025 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:266 Resp: 2251

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 264 | 61.1 | 42.3 | 63.5 |
| 268 | 64.2 | 43.3 | 64.9 |

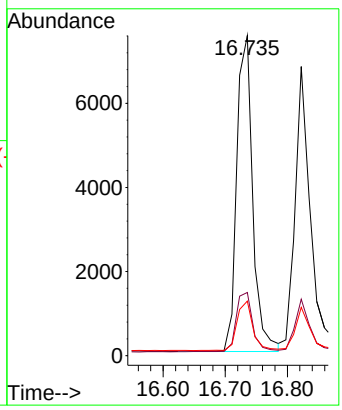





#25
Phenanthrene
Concen: 0.486 ng
RT: 16.735 min Scan# 1(
Delta R.T. -0.013 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:178 Resp: 1344

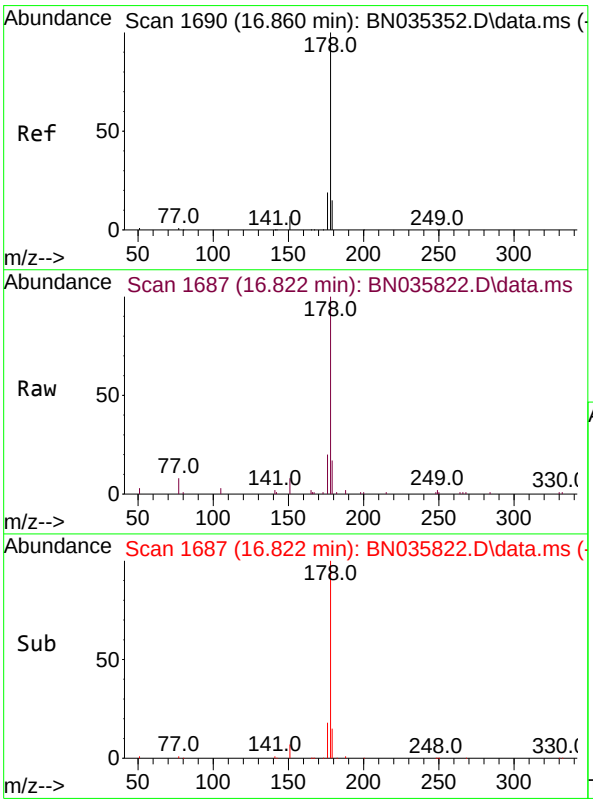
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.6 | 15.4 | 23.2 |
| 179 | 15.6 | 12.3 | 18.5 |




**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01S-20241218MSD

**Manual Integrations**
**APPROVED**

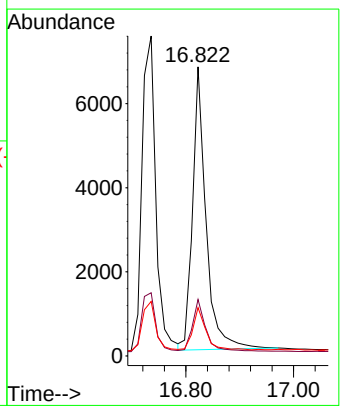
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

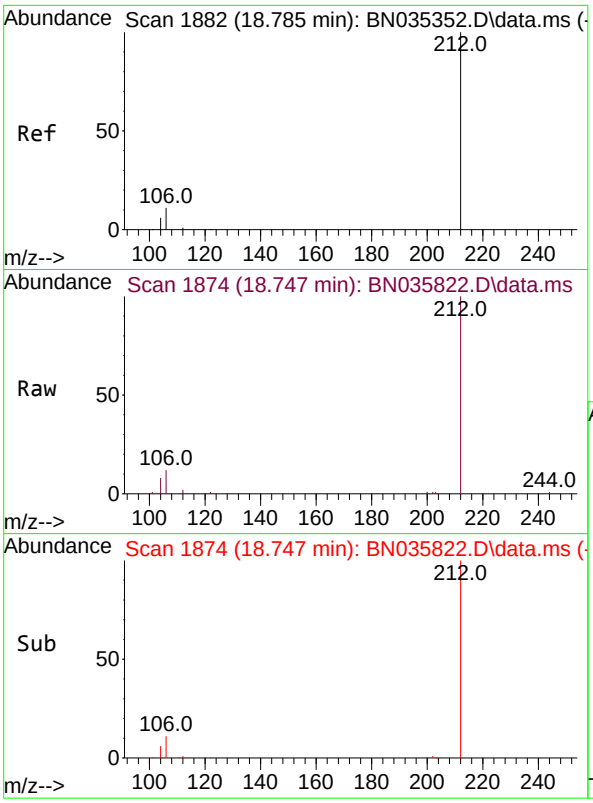



#26
Anthracene
Concen: 0.466 ng
RT: 16.822 min Scan# 1687
Delta R.T. -0.013 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:178 Resp: 11668

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.1 | 15.0 | 22.6 |
| 179 | 14.9 | 12.6 | 18.8 |

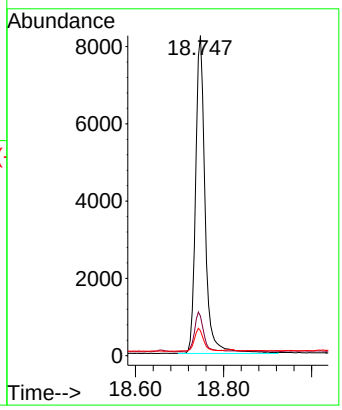





#27
Fluoranthene-d10
Concen: 0.431 ng
RT: 18.747 min Scan# 1
Delta R.T. -0.014 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:212 Resp: 1229

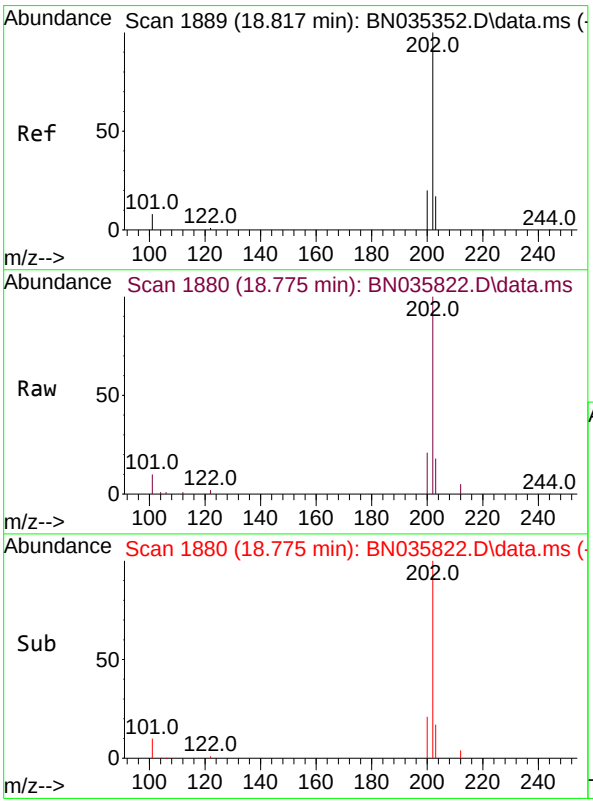
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 12.4 | 9.2 | 13.8 |
| 104 | 6.8 | 5.3 | 7.9 |




**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01S-20241218MSD

**Manual Integrations**
**APPROVED**

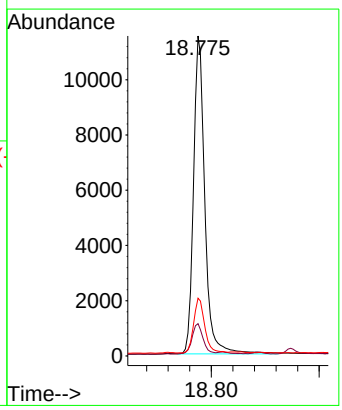
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

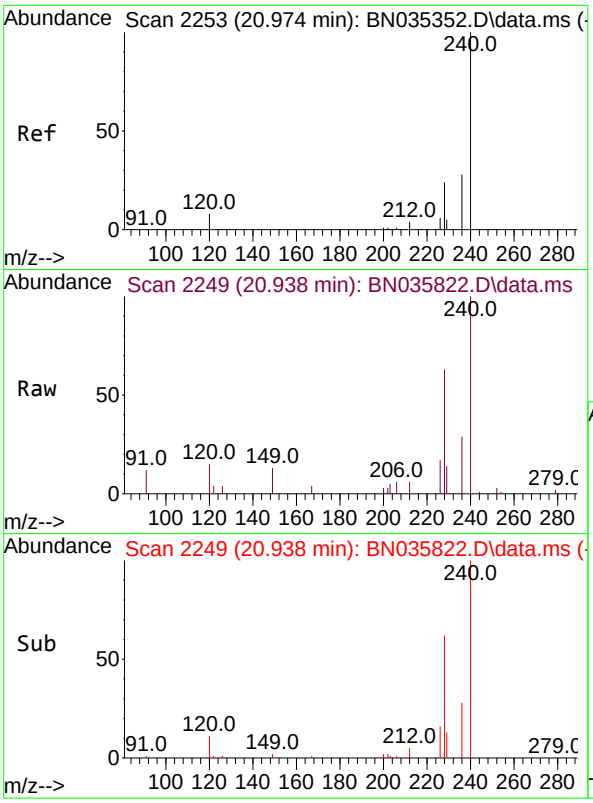



#28
Fluoranthene
Concen: 0.450 ng
RT: 18.775 min Scan# 1880
Delta R.T. -0.014 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:202 Resp: 16762

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 9.2 | 7.4 | 11.0 |
| 203 | 16.8 | 13.7 | 20.5 |

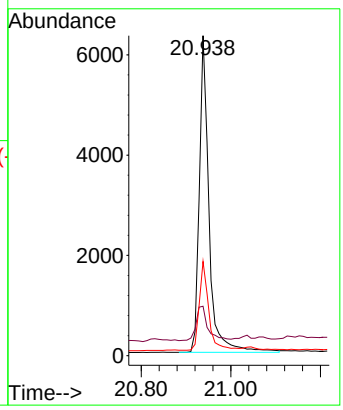





#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.938 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

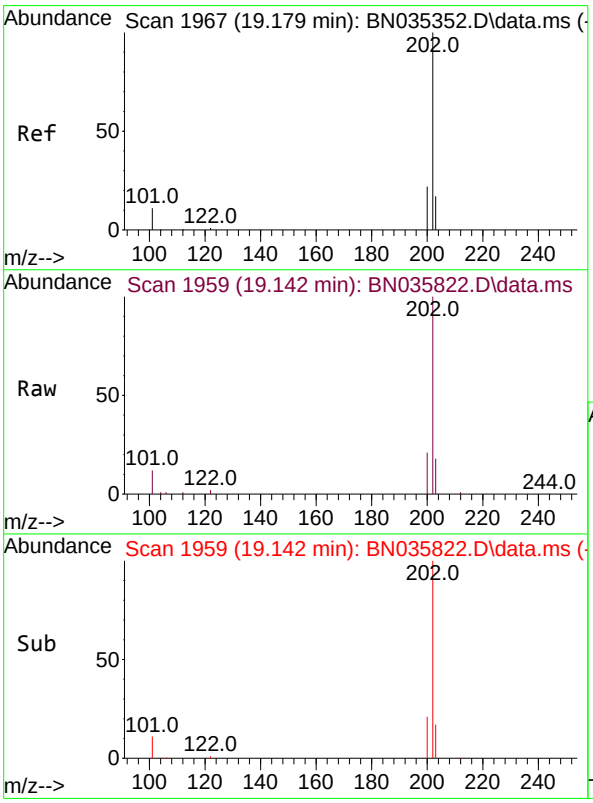
Tgt Ion:240 Resp: 950

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 15.4 | 7.9 | 11.9 |
| 236 | 29.5 | 22.9 | 34.3 |




**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01S-20241218MSD

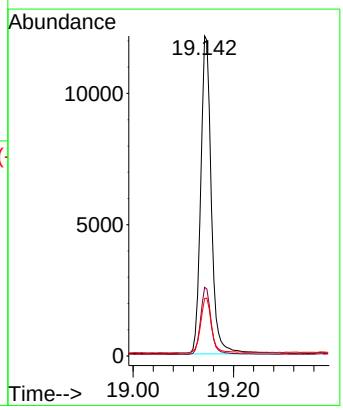
**Manual Integrations**
**APPROVED**
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

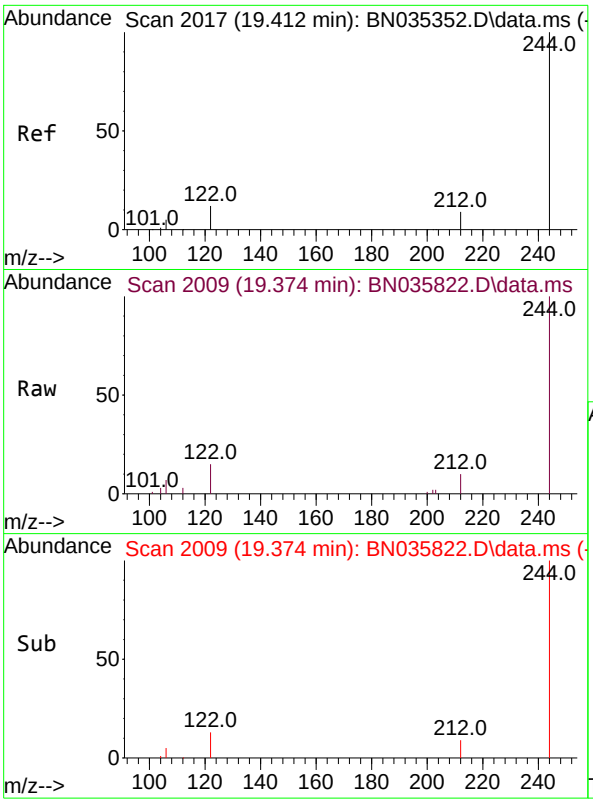



#30
Pyrene
Concen: 0.508 ng
RT: 19.142 min Scan# 1959
Delta R.T. -0.019 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:202 Resp: 17829

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 20.9 | 17.0 | 25.4 |
| 203 | 17.7 | 14.3 | 21.5 |

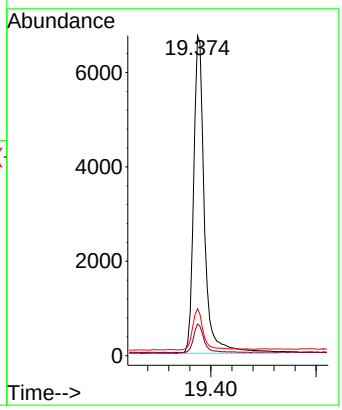





#31
Terphenyl-d14
Concen: 0.513 ng
RT: 19.374 min Scan# 2
Delta R.T. -0.014 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:244 Resp: 961

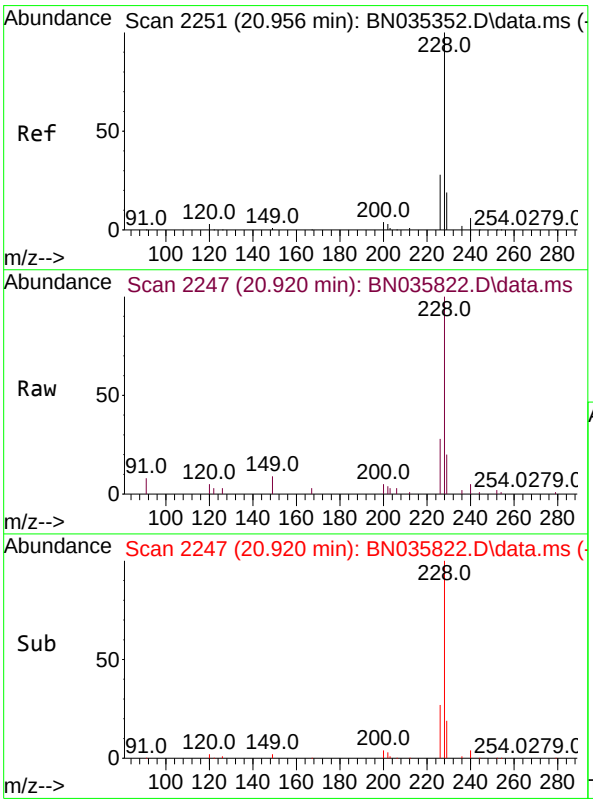
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 9.9 | 8.1 | 12.1 |
| 122 | 14.7 | 10.3 | 15.5 |




**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01S-20241218MSD

**Manual Integrations**
**APPROVED**

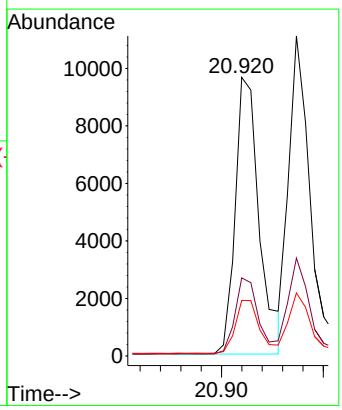
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

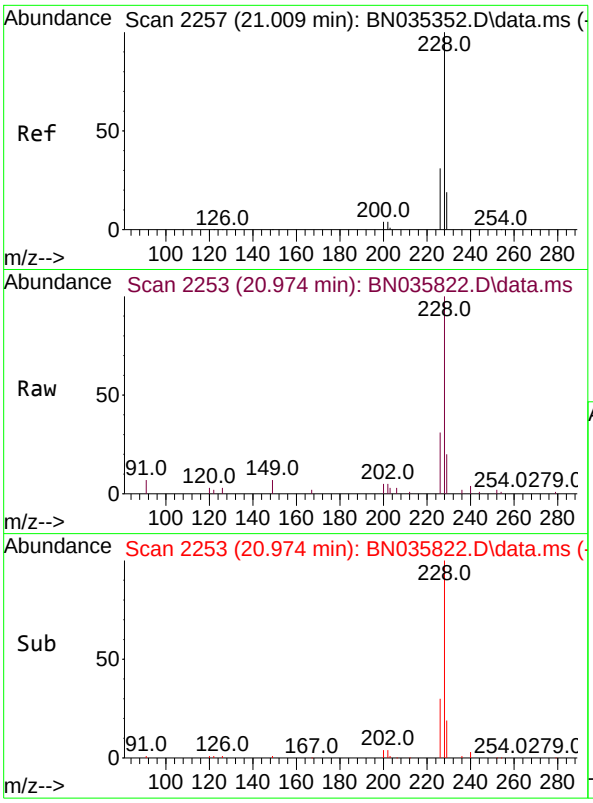



#32
Benzo(a)anthracene
Concen: 0.474 ng
RT: 20.920 min Scan# 2247
Delta R.T. -0.018 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:228 Resp: 15744

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 28.0 | 22.5 | 33.7 |
| 229 | 20.0 | 15.8 | 23.8 |

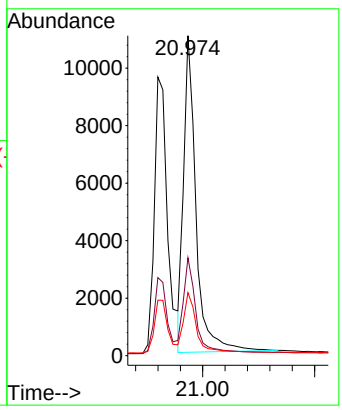





#33
Chrysene
Concen: 0.494 ng
RT: 20.974 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:228 Resp: 1694

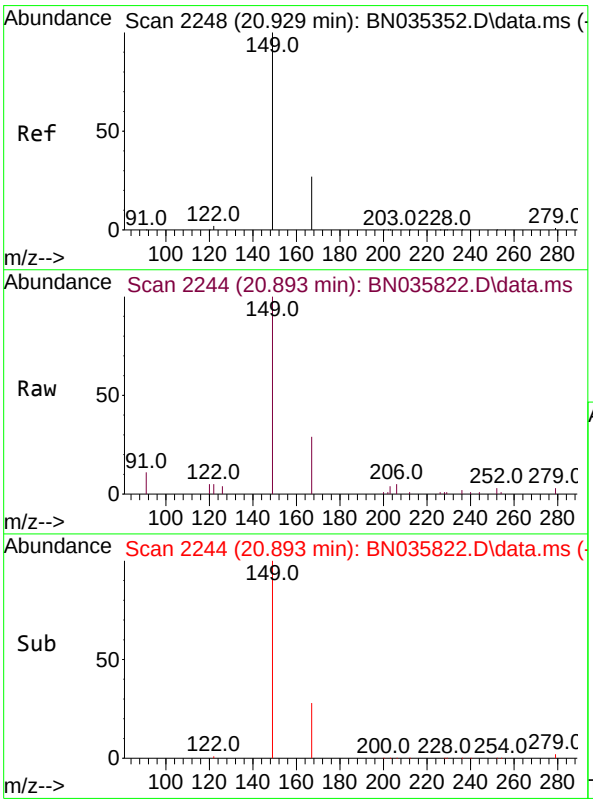
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 30.6 | 24.6 | 37.0 |
| 229 | 19.7 | 15.9 | 23.9 |




**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01S-20241218MSD

**Manual Integrations**
**APPROVED**

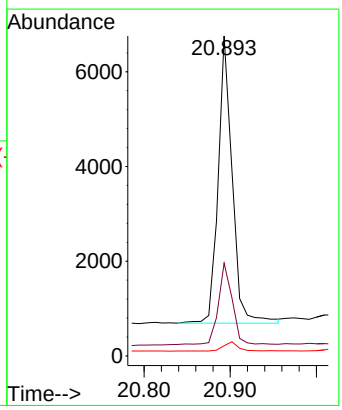
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

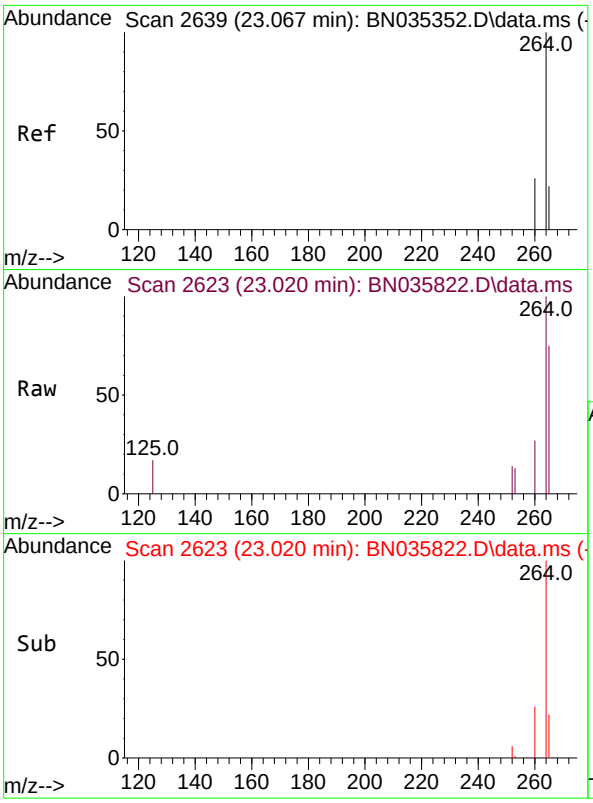



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.524 ng
RT: 20.893 min Scan# 2244
Delta R.T. -0.018 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:149 Resp: 6876

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 27.4 | 22.2 | 33.4 |
| 279 | 3.2 | 2.7 | 4.1 |

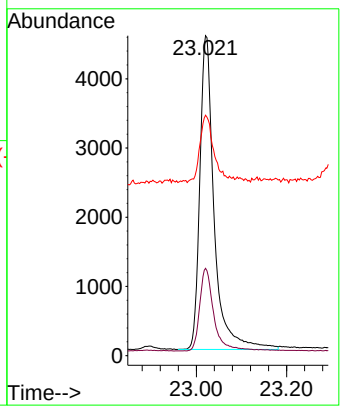





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.020 min Scan# 2
Delta R.T. -0.021 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:264 Resp: 999

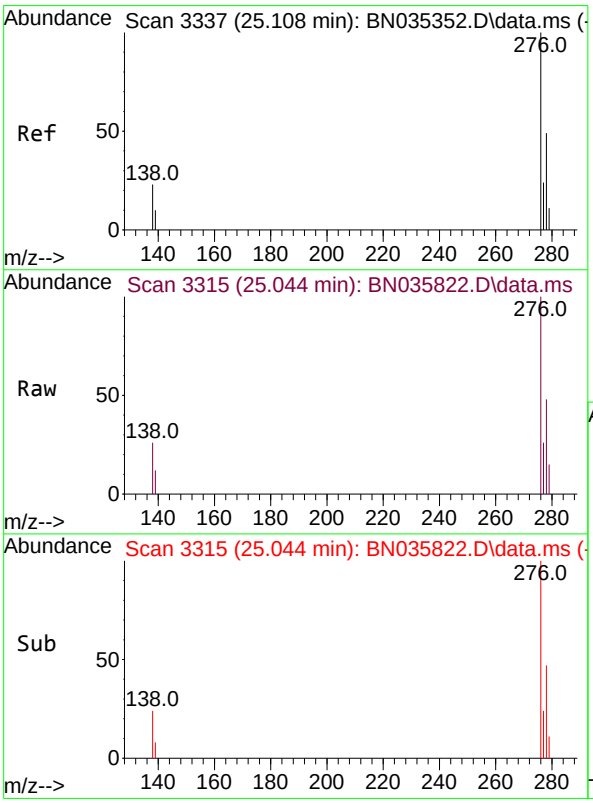
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 27.3 | 21.4 | 32.2 |
| 265 | 75.1 | 40.2 | 60.4 |




**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01S-20241218MSD

**Manual Integrations**
**APPROVED**

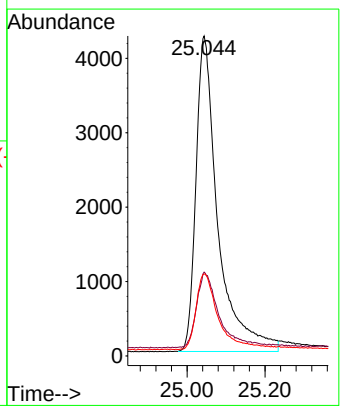
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

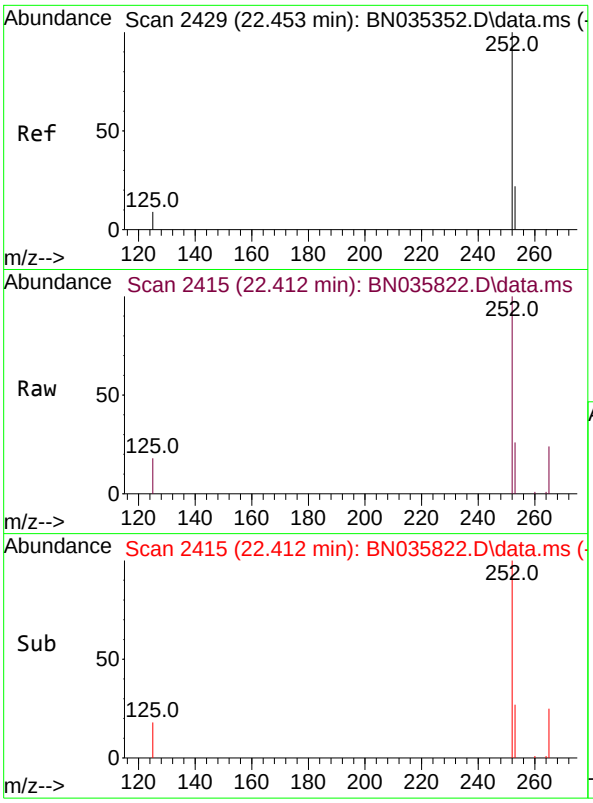



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.425 ng
RT: 25.044 min Scan# 3315
Delta R.T. -0.024 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:276 Resp: 16588

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 23.3 | 19.4 | 29.0 |
| 277 | 23.8 | 19.8 | 29.6 |

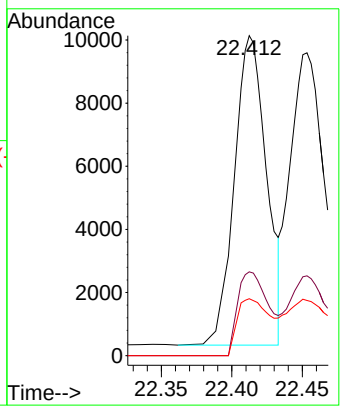





#37
Benzo(b)fluoranthene
Concen: 0.608 ng
RT: 22.412 min Scan# 24
Delta R.T. -0.018 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:252 Resp: 2222

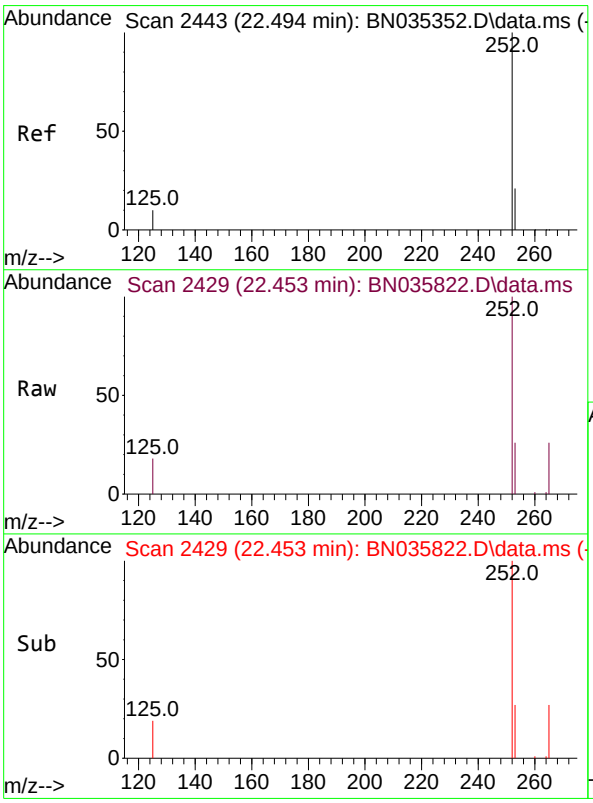
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 26.2 | 19.6 | 29.4 |
| 125 | 17.8 | 9.6 | 14.4# |




**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01S-20241218MSD

**Manual Integrations**
**APPROVED**

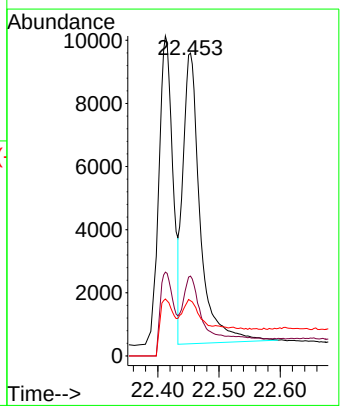
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

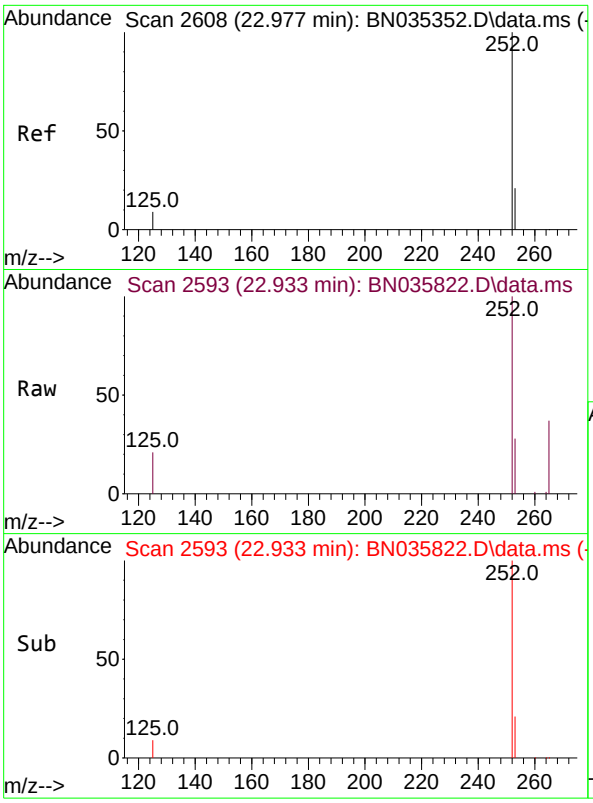



#38
Benzo(k)fluoranthene
Concen: 0.503 ng
RT: 22.453 min Scan# 2429
Delta R.T. -0.018 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:252 Resp: 18080

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 26.3 | 19.5 | 29.3 |
| 125 | 18.2 | 10.2 | 15.4# |

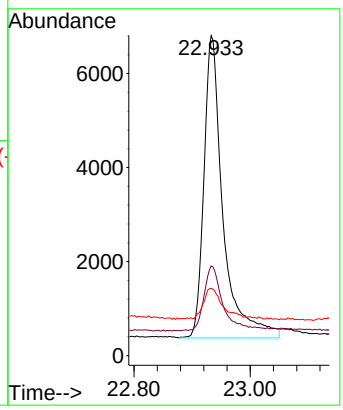





#39
Benzo(a)pyrene
Concen: 0.486 ng
RT: 22.933 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:252 Resp: 1463

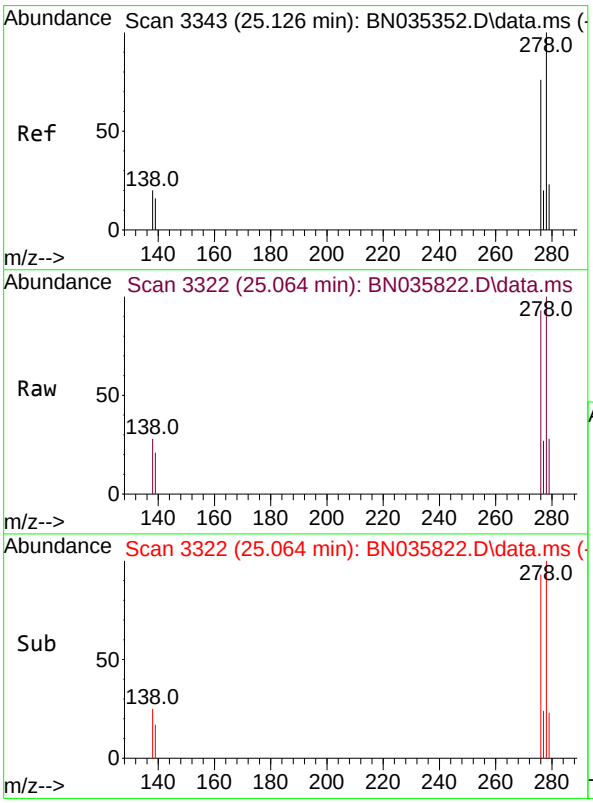
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 28.1 | 20.2 | 30.4 |
| 125 | 21.1 | 10.9 | 16.3 |




**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01S-20241218MSD

**Manual Integrations**
**APPROVED**

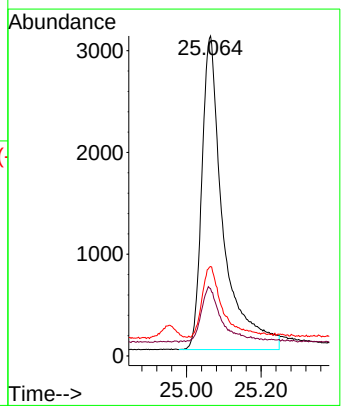
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

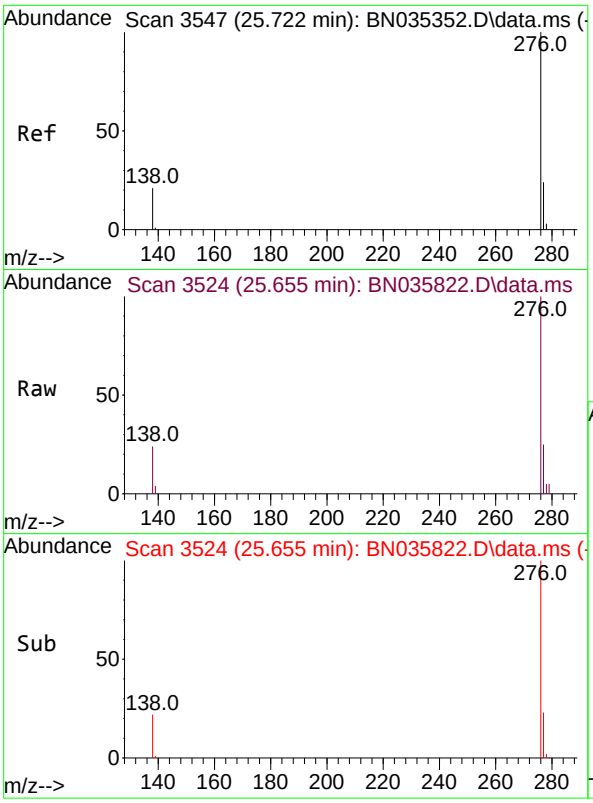



#40
Dibenzo(a,h)anthracene
Concen: 0.399 ng
RT: 25.064 min Scan# 3322
Delta R.T. -0.018 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:278 Resp: 12290

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 21.1 | 14.2 | 21.4 |
| 279 | 28.0 | 20.5 | 30.7 |

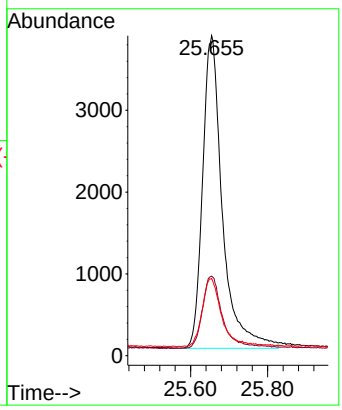





#41
Benzo(g,h,i)perylene
Concen: 0.423 ng
RT: 25.655 min Scan# 3
Delta R.T. -0.024 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:276 Resp: 1360

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 24.9 | 19.9 | 29.9 |
| 138 | 24.1 | 17.8 | 26.8 |




**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01S-20241218MSD

**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

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# Manual Integration Report

| Sequence: | BN112724 | Instrument | BNA_n |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| SSTDICC0.1 | BN035350.D | Benzo(k)fluoranthene | yogesh | 11/29/2024 12:47:08 AM | mohammad | 12/3/2024 12:32:57 AM | Peak Integrated by Software |
| SSTDICC0.1 | BN035350.D | Nitrobenzene-d5 | yogesh | 11/29/2024 12:47:08 AM | mohammad | 12/3/2024 12:32:57 AM | Peak Integrated by Software |
| SSTDICC0.2 | BN035351.D | Benzo(k)fluoranthene | yogesh | 11/29/2024 12:47:10 AM | mohammad | 12/3/2024 12:32:57 AM | Peak Integrated by Software |
| SSTDICC0.2 | BN035351.D | Nitrobenzene-d5 | yogesh | 11/29/2024 12:47:10 AM | mohammad | 12/3/2024 12:32:57 AM | Peak Integrated by Software |
| SSTDICCC0.4 | BN035352.D | Nitrobenzene-d5 | yogesh | 11/29/2024 12:47:11 AM | mohammad | 12/3/2024 12:32:57 AM | Peak Integrated by Software |
| SSTDICV0.4 | BN035357.D | Nitrobenzene-d5 | yogesh | 11/29/2024 12:47:22 AM | mohammad | 12/3/2024 12:32:57 AM | Peak Integrated by Software |
| SSTDCCC0.4 | BN035366.D | Nitrobenzene-d5 | yogesh | 11/29/2024 12:47:37 AM | mohammad | 12/3/2024 12:32:57 AM | Peak Integrated by Software |
| SSTDCCC0.4 | BN035368.D | Nitrobenzene-d5 | yogesh | 11/29/2024 12:48:03 AM | mohammad | 12/3/2024 12:32:57 AM | Peak Integrated by Software |
| SSTDCCC0.4 | BN035375.D | Nitrobenzene-d5 | yogesh | 11/29/2024 12:48:17 AM | mohammad | 12/3/2024 12:32:57 AM | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | BN122324 | Instrument | BNA_n |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| SSTDCCC0.4 | BN035776.D | Benzo(k)fluoranthene | Yogesh | 12/24/2024 8:43:17 AM | mohammad | 12/26/2024 1:14:41 AM | Peak Integrated by Software |
| SSTDCCC0.4 | BN035776.D | Nitrobenzene-d5 | Yogesh | 12/24/2024 8:43:17 AM | mohammad | 12/26/2024 1:14:41 AM | Peak Integrated by Software |
| SSTDCCC0.4 | BN035792.D | Benzo(k)fluoranthene | Yogesh | 12/24/2024 8:43:57 AM | mohammad | 12/26/2024 1:14:41 AM | Peak Integrated by Software |
| SSTDCCC0.4 | BN035792.D | Nitrobenzene-d5 | Yogesh | 12/24/2024 8:43:57 AM | mohammad | 12/26/2024 1:14:41 AM | Peak Integrated by Software |
| SSTDCCC0.4 | BN035794.D | Benzo(k)fluoranthene | Yogesh | 12/24/2024 8:44:11 AM | mohammad | 12/26/2024 1:14:41 AM | Peak Integrated by Software |
| SSTDCCC0.4 | BN035794.D | Nitrobenzene-d5 | Yogesh | 12/24/2024 8:44:11 AM | mohammad | 12/26/2024 1:14:41 AM | Peak Integrated by Software |
| SSTDCCC0.4 | BN035809.D | Nitrobenzene-d5 | Yogesh | 12/24/2024 8:45:00 AM | mohammad | 12/26/2024 1:14:41 AM | Peak Integrated by Software |
| SSTDCCC0.4 | BN035811.D | Benzo(k)fluoranthene | yogesh | 12/25/2024 12:18:56 AM | mohammad | 12/26/2024 1:14:41 AM | Peak Integrated by Software |
| SSTDCCC0.4 | BN035811.D | Nitrobenzene-d5 | yogesh | 12/25/2024 12:18:56 AM | mohammad | 12/26/2024 1:14:41 AM | Peak Integrated by Software |
| PB165828BL | BN035812.D | Nitrobenzene-d5 | yogesh | 12/25/2024 12:18:12 AM | mohammad | 12/26/2024 1:14:41 AM | Peak Integrated by Software |
| P5376-02 | BN035815.D | Nitrobenzene-d5 | yogesh | 12/25/2024 12:18:16 AM | mohammad | 12/26/2024 1:14:41 AM | Peak Integrated by Software |
| P5376-03 | BN035816.D | Nitrobenzene-d5 | yogesh | 12/25/2024 12:18:18 AM | mohammad | 12/26/2024 1:14:41 AM | Peak Integrated by Software |
| P5376-04 | BN035817.D | Nitrobenzene-d5 | yogesh | 12/25/2024 12:18:20 AM | mohammad | 12/26/2024 1:14:41 AM | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | BN122324 | Instrument | BNA_n |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| P5376-05 | BN035818.D | Benzo(k)fluoranthene | yogesh | 12/25/2024 12:18:21 AM | mohammad | 12/26/2024 1:14:41 AM | Peak Integrated by Software |
| P5376-05 | BN035818.D | Nitrobenzene-d5 | yogesh | 12/25/2024 12:18:21 AM | mohammad | 12/26/2024 1:14:41 AM | Peak Integrated by Software |
| P5376-06 | BN035819.D | Nitrobenzene-d5 | yogesh | 12/25/2024 12:18:22 AM | mohammad | 12/26/2024 1:14:41 AM | Peak Integrated by Software |
| P5376-07 | BN035820.D | Benzo(k)fluoranthene | yogesh | 12/25/2024 12:18:57 AM | mohammad | 12/26/2024 1:14:41 AM | Peak Integrated by Software |
| P5376-07 | BN035820.D | Nitrobenzene-d5 | yogesh | 12/25/2024 12:18:57 AM | mohammad | 12/26/2024 1:14:41 AM | Peak Integrated by Software |
| P5376-08MS | BN035821.D | Nitrobenzene-d5 | yogesh | 12/25/2024 12:18:59 AM | mohammad | 12/26/2024 1:14:41 AM | Peak Integrated by Software |
| P5376-09MSD | BN035822.D | Nitrobenzene-d5 | yogesh | 12/25/2024 12:19:00 AM | mohammad | 12/26/2024 1:14:41 AM | Peak Integrated by Software |
| P5376-10 | BN035823.D | Nitrobenzene-d5 | yogesh | 12/25/2024 12:19:02 AM | mohammad | 12/26/2024 1:14:41 AM | Peak Integrated by Software |
| P5376-11 | BN035824.D | Indeno(1,2,3-cd)pyrene | yogesh | 12/25/2024 12:19:03 AM | mohammad | 12/26/2024 1:14:41 AM | Peak Integrated by Software |
| P5376-11 | BN035824.D | Nitrobenzene-d5 | yogesh | 12/25/2024 12:19:03 AM | mohammad | 12/26/2024 1:14:41 AM | Peak Integrated by Software |
| P5376-12 | BN035825.D | Nitrobenzene-d5 | yogesh | 12/25/2024 12:19:05 AM | mohammad | 12/26/2024 1:14:41 AM | Peak Integrated by Software |
| P5376-13 | BN035826.D | Nitrobenzene-d5 | yogesh | 12/25/2024 12:20:26 AM | mohammad | 12/26/2024 1:14:41 AM | Peak Integrated by Software |
| P5376-14 | BN035827.D | Nitrobenzene-d5 | yogesh | 12/25/2024 12:20:28 AM | mohammad | 12/26/2024 1:14:41 AM | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | BN122324 | Instrument | BNA_n |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| SSTDCCC0.4 | BN035828.D | Benzo(k)fluoranthene | yogesh | 12/25/2024 12:20:29 AM | mohammad | 12/26/2024 1:14:41 AM | Peak Integrated by Software |
| SSTDCCC0.4 | BN035828.D | Nitrobenzene-d5 | yogesh | 12/25/2024 12:20:29 AM | mohammad | 12/26/2024 1:14:41 AM | Peak Integrated by Software |
| SSTDCCC0.4 | BN035830.D | 1,4-Dioxane | yogesh | 12/25/2024 12:20:30 AM | mohammad | 12/26/2024 1:14:41 AM | Peak Integrated by Software |
| SSTDCCC0.4 | BN035830.D | Benzo(k)fluoranthene | yogesh | 12/25/2024 12:20:30 AM | mohammad | 12/26/2024 1:14:41 AM | Peak Integrated by Software |
| SSTDCCC0.4 | BN035830.D | Fluoranthene-d10 | yogesh | 12/25/2024 12:20:30 AM | mohammad | 12/26/2024 1:14:41 AM | Peak Integrated by Software |
| SSTDCCC0.4 | BN035830.D | Nitrobenzene-d5 | yogesh | 12/25/2024 12:20:30 AM | mohammad | 12/26/2024 1:14:41 AM | Peak Integrated by Software |
| P5376-16 | BN035833.D | Nitrobenzene-d5 | yogesh | 12/26/2024 12:21:34 AM | mohammad | 12/26/2024 1:14:41 AM | Peak Integrated by Software |
| P5376-17 | BN035834.D | Nitrobenzene-d5 | yogesh | 12/26/2024 12:21:41 AM | mohammad | 12/26/2024 1:14:41 AM | Peak Integrated by Software |
| P5376-18 | BN035835.D | Nitrobenzene-d5 | yogesh | 12/26/2024 12:21:48 AM | mohammad | 12/26/2024 1:14:41 AM | Peak Integrated by Software |
| P5376-20 | BN035837.D | Nitrobenzene-d5 | yogesh | 12/26/2024 12:21:59 AM | mohammad | 12/26/2024 1:14:41 AM | Peak Integrated by Software |
| SSTDCCC0.4 | BN035843.D | Benzo(k)fluoranthene | yogesh | 12/26/2024 12:22:42 AM | mohammad | 12/26/2024 1:14:41 AM | Peak Integrated by Software |
| SSTDCCC0.4 | BN035843.D | Nitrobenzene-d5 | yogesh | 12/26/2024 12:22:42 AM | mohammad | 12/26/2024 1:14:41 AM | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | BN122324 | Instrument | BNA_n |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|

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# Manual Integration Report

| Sequence: | BN122624 | Instrument | BNA_n |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| SSTDCCC0.4 | BN035845.D | Benzo(k)fluoranthene | yogesh | 12/27/2024 3:53:06 AM | mohammad | 12/27/2024 4:13:15 AM | Peak Integrated by Software |
| SSTDCCC0.4 | BN035845.D | Nitrobenzene-d5 | yogesh | 12/27/2024 3:53:06 AM | mohammad | 12/27/2024 4:13:15 AM | Peak Integrated by Software |
| P5376-15 | BN035847.D | Nitrobenzene-d5 | yogesh | 12/27/2024 3:53:09 AM | mohammad | 12/27/2024 4:13:15 AM | Peak Integrated by Software |
| P5376-19 | BN035848.D | Nitrobenzene-d5 | yogesh | 12/27/2024 3:53:10 AM | mohammad | 12/27/2024 4:13:15 AM | Peak Integrated by Software |
| P5376-01 | BN035849.D | Nitrobenzene-d5 | yogesh | 12/27/2024 3:53:12 AM | mohammad | 12/27/2024 4:13:15 AM | Peak Integrated by Software |
| PB165828BS | BN035852.D | Nitrobenzene-d5 | yogesh | 12/27/2024 3:53:31 AM | mohammad | 12/27/2024 4:13:15 AM | Peak Integrated by Software |
| P5376-03DL | BN035854.D | Anthracene | yogesh | 12/27/2024 3:53:33 AM | mohammad | 12/27/2024 4:13:15 AM | Peak Integrated by Software |
| P5376-03DL | BN035854.D | Nitrobenzene-d5 | yogesh | 12/27/2024 3:53:33 AM | mohammad | 12/27/2024 4:13:15 AM | Peak Integrated by Software |
| P5376-03DL | BN035854.D | Phenanthrene | yogesh | 12/27/2024 3:53:33 AM | mohammad | 12/27/2024 4:13:15 AM | Peak Integrated by Software |
| SSTDCCC0.4 | BN035861.D | Nitrobenzene-d5 | yogesh | 12/27/2024 3:53:44 AM | mohammad | 12/27/2024 4:13:15 AM | Peak Integrated by Software |

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**Instrument ID: BNA_N**

## Daily Analysis Runlog For Sequence/QCBatch ID # BN112724

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 11/29/2024 12:48:33 AM | | |
| Supervise By | mohammad | Supervise On | 12/3/2024 12:32:57 AM | | |
| SubDirectory | BN112724 | HP Acquire Method | BNA_N, 8270_SIM | HP Processing Method | bn112724 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6573 |
| Initial Calibration Stds | SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657 |
| CCC | SP6661 |
| Internal Standard/PEM | SP6527,1ul/100ul sample |
| ICV/I.BLK | SP6684 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | DFTPP | BN035349.D | 27 Nov 2024 14:55 | RC/JU | Ok |
| 2 | SSTDICC0.1 | BN035350.D | 27 Nov 2024 15:34 | RC/JU | Ok,M |
| 3 | SSTDICC0.2 | BN035351.D | 27 Nov 2024 16:10 | RC/JU | Ok,M |
| 4 | SSTDICCC0.4 | BN035352.D | 27 Nov 2024 16:46 | RC/JU | Ok,M |
| 5 | SSTDICC0.8 | BN035353.D | 27 Nov 2024 17:21 | RC/JU | Ok |
| 6 | SSTDICC1.6 | BN035354.D | 27 Nov 2024 17:57 | RC/JU | Ok |
| 7 | SSTDICC3.2 | BN035355.D | 27 Nov 2024 18:33 | RC/JU | Ok |
| 8 | SSTDICC5.0 | BN035356.D | 27 Nov 2024 19:09 | RC/JU | Ok |
| 9 | SSTDICV0.4 | BN035357.D | 27 Nov 2024 20:21 | RC/JU | Ok,M |
| 10 | PB165224BL | BN035358.D | 27 Nov 2024 20:57 | RC/JU | Ok,M |
| 11 | PB165266BL | BN035359.D | 27 Nov 2024 21:32 | RC/JU | Ok,M |
| 12 | PB165224BS | BN035360.D | 27 Nov 2024 22:08 | RC/JU | Ok,M |
| 13 | PB165224BSD | BN035361.D | 27 Nov 2024 22:44 | RC/JU | Ok,M |
| 14 | P4969-02 | BN035362.D | 27 Nov 2024 23:20 | RC/JU | Ok,M |
| 15 | P4969-04 | BN035363.D | 27 Nov 2024 23:56 | RC/JU | Ok,M |
| 16 | P5003-02 | BN035364.D | 28 Nov 2024 00:32 | RC/JU | Ok,M |
| 17 | P5003-03 | BN035365.D | 28 Nov 2024 01:08 | RC/JU | Ok,M |
| 18 | SSTDCCC0.4 | BN035366.D | 28 Nov 2024 02:20 | RC/JU | Ok,M |
| 19 | DFTPP | BN035367.D | 28 Nov 2024 03:35 | RC/JU | Ok |
| 20 | SSTDCCC0.4 | BN035368.D | 28 Nov 2024 04:51 | RC/JU | Ok,M |
| 21 | PB165198BL | BN035369.D | 28 Nov 2024 05:27 | RC/JU | Ok,M |

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Fax : 908 789 8922

**Instrument ID: BNA_N**

## Daily Analysis Runlog For Sequence/QCBatch ID # BN112724

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 11/29/2024 12:48:33 AM | | |
| Supervise By | mohammad | Supervise On | 12/3/2024 12:32:57 AM | | |
| SubDirectory | BN112724 | HP Acquire Method | BNA_N, 8270_SIM | HP Processing Method | bn112724 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6573 |
| Initial Calibration Stds | SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657 |
| CCC | SP6661 |
| Internal Standard/PEM | SP6527,1ul/100ul sample |
| ICV/I.BLK | SP6684 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | |
|---|---|---|---|---|---|
| 22 | PB165198BS | BN035370.D | 28 Nov 2024 06:03 | RC/JU | Ok,M |
| 23 | PB165198BSD | BN035371.D | 28 Nov 2024 06:39 | RC/JU | Ok,M |
| 24 | PB165266BS | BN035372.D | 28 Nov 2024 07:15 | RC/JU | Ok,M |
| 25 | PB165266BSD | BN035373.D | 28 Nov 2024 07:50 | RC/JU | Ok,M |
| 26 | P4959-01 | BN035374.D | 28 Nov 2024 08:26 | RC/JU | Ok,M |
| 27 | SSTDCCC0.4 | BN035375.D | 28 Nov 2024 09:02 | RC/JU | Ok,M |

M : Manual Integration

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Fax : 908 789 8922

**Instrument ID: BNA_N**

## Daily Analysis Runlog For Sequence/QCBatch ID # BN122324

| | | | | | |
|---|---|---|---|---|---|
| Review By | Yogesh | Review On | 12/24/2024 8:45:14 AM | | |
| Supervise By | mohammad | Supervise On | 12/26/2024 1:14:41 AM | | |
| SubDirectory | BN122324 | HP Acquire Method | BNA_N, 8270_SIM | HP Processing Method | bn112724 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6573 |
| Initial Calibration Stds | SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657 |
| CCC | SP6661 |
| Internal Standard/PEM | SP6682,1ul/100ul sample |
| ICV/I.BLK | SP6684 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | DFTPP | BN035775.D | 23 Dec 2024 09:43 | RC/JU | Ok |
| 2 | SSTDCCC0.4 | BN035776.D | 23 Dec 2024 10:22 | RC/JU | Ok,M |
| 3 | PB165596BL | BN035777.D | 23 Dec 2024 10:57 | RC/JU | Not Ok |
| 4 | P5281-04 | BN035778.D | 23 Dec 2024 11:32 | RC/JU | Dilution |
| 5 | P5317-15 | BN035779.D | 23 Dec 2024 12:08 | RC/JU | Ok,M |
| 6 | P5317-16 | BN035780.D | 23 Dec 2024 12:43 | RC/JU | Ok,M |
| 7 | P5317-17 | BN035781.D | 23 Dec 2024 13:19 | RC/JU | Ok,M |
| 8 | P5317-18 | BN035782.D | 23 Dec 2024 13:54 | RC/JU | Ok,M |
| 9 | P5317-19MS | BN035783.D | 23 Dec 2024 14:30 | RC/JU | Ok,M |
| 10 | P5317-20MSD | BN035784.D | 23 Dec 2024 15:05 | RC/JU | Ok,M |
| 11 | P5314-02 | BN035785.D | 23 Dec 2024 15:41 | RC/JU | Ok,M |
| 12 | P5314-04 | BN035786.D | 23 Dec 2024 16:17 | RC/JU | Ok,M |
| 13 | P5317-21 | BN035787.D | 23 Dec 2024 16:52 | RC/JU | Dilution |
| 14 | P5317-22 | BN035788.D | 23 Dec 2024 17:28 | RC/JU | Ok,M |
| 15 | P5317-24 | BN035789.D | 23 Dec 2024 18:04 | RC/JU | Ok,M |
| 16 | P5317-25 | BN035790.D | 23 Dec 2024 18:39 | RC/JU | Ok,M |
| 17 | P5281-02 | BN035791.D | 23 Dec 2024 19:15 | RC/JU | Ok,M |
| 18 | SSTDCCC0.4 | BN035792.D | 23 Dec 2024 19:51 | RC/JU | Ok,M |
| 19 | DFTPP | BN035793.D | 23 Dec 2024 20:26 | RC/JU | Ok |
| 20 | SSTDCCC0.4 | BN035794.D | 23 Dec 2024 22:16 | RC/JU | Ok,M |
| 21 | PB165667BL | BN035795.D | 23 Dec 2024 22:52 | RC/JU | Ok,M |

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**Instrument ID: BNA_N**

## Daily Analysis Runlog For Sequence/QCBatch ID # BN122324

| | | | | | |
|---|---|---|---|---|---|
| Review By | Yogesh | Review On | 12/24/2024 8:45:14 AM | | |
| Supervise By | mohammad | Supervise On | 12/26/2024 1:14:41 AM | | |
| SubDirectory | BN122324 | HP Acquire Method | BNA_N, 8270_SIM | HP Processing Method | bn112724 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6573 |
| Initial Calibration Stds | SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657 |
| CCC | SP6661 |
| Internal Standard/PEM | SP6682,1ul/100ul sample |
| ICV/I.BLK | SP6684 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | |
|---|---|---|---|---|---|
| 22 | P5281-03 | BN035796.D | 23 Dec 2024 23:27 | RC/JU | Ok,M |
| 23 | P5281-05 | BN035797.D | 24 Dec 2024 00:03 | RC/JU | Ok,M |
| 24 | P5281-06 | BN035798.D | 24 Dec 2024 00:38 | RC/JU | Dilution |
| 25 | P5281-07 | BN035799.D | 24 Dec 2024 01:14 | RC/JU | Dilution |
| 26 | P5281-08 | BN035800.D | 24 Dec 2024 01:49 | RC/JU | Ok,M |
| 27 | P5282-01 | BN035801.D | 24 Dec 2024 02:25 | RC/JU | Dilution |
| 28 | P5282-02 | BN035802.D | 24 Dec 2024 03:00 | RC/JU | Ok,M |
| 29 | P5282-03 | BN035803.D | 24 Dec 2024 03:36 | RC/JU | Ok,M |
| 30 | P5282-04 | BN035804.D | 24 Dec 2024 04:12 | RC/JU | Ok,M |
| 31 | P5284-01 | BN035805.D | 24 Dec 2024 04:47 | RC/JU | Dilution |
| 32 | P5317-07 | BN035806.D | 24 Dec 2024 05:23 | RC/JU | Ok,M |
| 33 | P5317-06 | BN035807.D | 24 Dec 2024 05:58 | RC/JU | Ok,M |
| 34 | PB165667BS | BN035808.D | 24 Dec 2024 06:34 | RC/JU | Ok,M |
| 35 | SSTDCCC0.4 | BN035809.D | 24 Dec 2024 07:09 | RC/JU | Ok,M |
| 36 | DFTPP | BN035810.D | 24 Dec 2024 07:45 | RC/JU | Ok |
| 37 | SSTDCCC0.4 | BN035811.D | 24 Dec 2024 08:59 | RC/JU | Ok,M |
| 38 | PB165828BL | BN035812.D | 24 Dec 2024 09:35 | RC/JU | Ok,M |
| 39 | P5281-04DL | BN035813.D | 24 Dec 2024 10:10 | RC/JU | Ok,M |
| 40 | P5261-19DL | BN035814.D | 24 Dec 2024 10:46 | RC/JU | Not Ok |
| 41 | P5376-02 | BN035815.D | 24 Dec 2024 11:21 | RC/JU | Ok,M |
| 42 | P5376-03 | BN035816.D | 24 Dec 2024 11:57 | RC/JU | Dilution |
| 43 | P5376-04 | BN035817.D | 24 Dec 2024 12:33 | RC/JU | Ok,M |
| 44 | P5376-05 | BN035818.D | 24 Dec 2024 13:08 | RC/JU | Ok,M |

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**Instrument ID: BNA_N**

## Daily Analysis Runlog For Sequence/QCBatch ID # BN122324

| | | | | | |
|---|---|---|---|---|---|
| Review By | Yogesh | Review On | 12/24/2024 8:45:14 AM | | |
| Supervise By | mohammad | Supervise On | 12/26/2024 1:14:41 AM | | |
| SubDirectory | BN122324 | HP Acquire Method | BNA_N, 8270_SIM | HP Processing Method | bn112724 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6573 |
| Initial Calibration Stds | SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657 |
| CCC | SP6661 |
| Internal Standard/PEM | SP6682,1ul/100ul sample |
| ICV/I.BLK | SP6684 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | |
|---|---|---|---|---|---|
| 45 | P5376-06 | BN035819.D | 24 Dec 2024 13:44 | RC/JU | Ok,M |
| 46 | P5376-07 | BN035820.D | 24 Dec 2024 14:19 | RC/JU | Ok,M |
| 47 | P5376-08MS | BN035821.D | 24 Dec 2024 14:55 | RC/JU | Ok,M |
| 48 | P5376-09MSD | BN035822.D | 24 Dec 2024 15:31 | RC/JU | Ok,M |
| 49 | P5376-10 | BN035823.D | 24 Dec 2024 16:06 | RC/JU | Ok,M |
| 50 | P5376-11 | BN035824.D | 24 Dec 2024 16:42 | RC/JU | Ok,M |
| 51 | P5376-12 | BN035825.D | 24 Dec 2024 17:18 | RC/JU | Ok,M |
| 52 | P5376-13 | BN035826.D | 24 Dec 2024 17:53 | RC/JU | Ok,M |
| 53 | P5376-14 | BN035827.D | 24 Dec 2024 18:29 | RC/JU | Ok,M |
| 54 | SSTDCCC0.4 | BN035828.D | 24 Dec 2024 19:05 | RC/JU | Ok,M |
| 55 | DFTPP | BN035829.D | 24 Dec 2024 19:41 | RC/JU | Ok |
| 56 | SSTDCCC0.4 | BN035830.D | 24 Dec 2024 20:55 | RC/JU | Ok,M |
| 57 | PB165596BL | BN035831.D | 24 Dec 2024 22:07 | RC/JU | Not Ok |
| 58 | P5376-15 | BN035832.D | 24 Dec 2024 22:42 | RC/JU | ReRun |
| 59 | P5376-16 | BN035833.D | 24 Dec 2024 23:18 | RC/JU | Ok,M |
| 60 | P5376-17 | BN035834.D | 24 Dec 2024 23:53 | RC/JU | Ok,M |
| 61 | P5376-18 | BN035835.D | 25 Dec 2024 00:29 | RC/JU | Ok,M |
| 62 | P5376-19 | BN035836.D | 25 Dec 2024 01:05 | RC/JU | ReRun |
| 63 | P5376-20 | BN035837.D | 25 Dec 2024 01:40 | RC/JU | Ok,M |
| 64 | P5376-01 | BN035838.D | 25 Dec 2024 02:16 | RC/JU | ReRun |
| 65 | PB165723BS | BN035839.D | 25 Dec 2024 02:51 | RC/JU | Not Ok |
| 66 | PB165724BSD | BN035840.D | 25 Dec 2024 03:27 | RC/JU | Not Ok |
| 67 | PB165828BS | BN035841.D | 25 Dec 2024 04:03 | RC/JU | Not Ok |

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**Instrument ID: BNA_N**

## Daily Analysis Runlog For Sequence/QCBatch ID # BN122324

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Review By | Yogesh | Review On | 12/24/2024 8:45:14 AM | | | | |
| Supervise By | mohammad | Supervise On | 12/26/2024 1:14:41 AM | | | | |
| SubDirectory | BN122324 | HP Acquire Method | BNA_N, 8270_SIM | HP Processing Method | bn112724 | | |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6573 |
| Initial Calibration Stds | SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657 |
| CCC | SP6661 |
| Internal Standard/PEM | SP6682,1ul/100ul sample |
| ICV/I.BLK | SP6684 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | |
|---|---|---|---|---|---|
| 68 | P5374-03 | BN035842.D | 25 Dec 2024 04:38 | RC/JU | ReRun |
| 69 | SSTDCCC0.4 | BN035843.D | 25 Dec 2024 05:14 | RC/JU | Ok,M |

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**Instrument ID: BNA_N**

## Daily Analysis Runlog For Sequence/QCBatch ID # BN122624

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 12/27/2024 3:53:55 AM | | |
| Supervise By | mohammad | Supervise On | 12/27/2024 4:13:15 AM | | |
| SubDirectory | BN122624 | HP Acquire Method | BNA_N, 8270_SIM | HP Processing Method | bn112724 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6573 |
| Initial Calibration Stds | SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657 |
| CCC | SP6661 |
| Internal Standard/PEM | SP6682,1ul/100ul sample |
| ICV/I.BLK | SP6684 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | DFTPP | BN035844.D | 26 Dec 2024 09:19 | RC/JU | Ok |
| 2 | SSTDCCC0.4 | BN035845.D | 26 Dec 2024 09:58 | RC/JU | Ok,M |
| 3 | PB165724BL | BN035846.D | 26 Dec 2024 10:35 | RC/JU | Ok,NR |
| 4 | P5376-15 | BN035847.D | 26 Dec 2024 11:20 | RC/JU | Ok,M |
| 5 | P5376-19 | BN035848.D | 26 Dec 2024 11:56 | RC/JU | Ok,M |
| 6 | P5376-01 | BN035849.D | 26 Dec 2024 12:31 | RC/JU | Ok,M |
| 7 | P5374-03 | BN035850.D | 26 Dec 2024 13:07 | RC/JU | Ok,M |
| 8 | PB165723BS | BN035851.D | 26 Dec 2024 13:43 | RC/JU | Ok,M |
| 9 | PB165828BS | BN035852.D | 26 Dec 2024 14:19 | RC/JU | Ok,M |
| 10 | PB165724BSD | BN035853.D | 26 Dec 2024 14:54 | RC/JU | Ok,M |
| 11 | P5376-03DL | BN035854.D | 26 Dec 2024 15:30 | RC/JU | Ok,M |
| 12 | P5317-21DL | BN035855.D | 26 Dec 2024 16:06 | RC/JU | Ok,M |
| 13 | P5281-07DL | BN035856.D | 26 Dec 2024 16:42 | RC/JU | Ok,M |
| 14 | P5282-01DL | BN035857.D | 26 Dec 2024 17:18 | RC/JU | Ok,M |
| 15 | P5281-06DL | BN035858.D | 26 Dec 2024 17:53 | RC/JU | Ok,M |
| 16 | P5284-01DL | BN035859.D | 26 Dec 2024 18:29 | RC/JU | Ok,M |
| 17 | P5261-19DL | BN035860.D | 26 Dec 2024 19:05 | RC/JU | Ok,M |
| 18 | SSTDCCC0.4 | BN035861.D | 26 Dec 2024 19:41 | RC/JU | Ok,M |

M : Manual Integration

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**Instrument ID:** BNA_N

## Daily Analysis Runlog For Sequence/QCBatch ID # BN112724

| | | | | |
|---|---|---|---|---|
| Review By | yogesh | Review On | 11/29/2024 12:48:33 AM | |
| Supervise By | mohammad | Supervise On | 12/3/2024 12:32:57 AM | |
| SubDirectory | BN112724 | HP Acquire Method | BNA_N, 8270_HP Processing Method | bn112724 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6573 |
| Initial Calibration Stds | SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657 |
| CCC | SP6661 |
| Internal Standard/PEM | SP6527,1ul/100ul sample |
| ICV/I.BLK | SP6684 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | DFTPP | DFTPP | BN035349.D | 27 Nov 2024 14:55 | | RC/JU | Ok |
| 2 | SSTDICC0.1 | SSTDICC0.1 | BN035350.D | 27 Nov 2024 15:34 | | RC/JU | Ok,M |
| 3 | SSTDICC0.2 | SSTDICC0.2 | BN035351.D | 27 Nov 2024 16:10 | | RC/JU | Ok,M |
| 4 | SSTDICCC0.4 | SSTDICCC0.4 | BN035352.D | 27 Nov 2024 16:46 | This Calibration is Good For DOD | RC/JU | Ok,M |
| 5 | SSTDICC0.8 | SSTDICC0.8 | BN035353.D | 27 Nov 2024 17:21 | | RC/JU | Ok |
| 6 | SSTDICC1.6 | SSTDICC1.6 | BN035354.D | 27 Nov 2024 17:57 | | RC/JU | Ok |
| 7 | SSTDICC3.2 | SSTDICC3.2 | BN035355.D | 27 Nov 2024 18:33 | Compound #20 removed from 3.2ppm | RC/JU | Ok |
| 8 | SSTDICC5.0 | SSTDICC5.0 | BN035356.D | 27 Nov 2024 19:09 | Compound #20 removed from 5.0ppm | RC/JU | Ok |
| 9 | SSTDICV0.4 | ICVBN112724 | BN035357.D | 27 Nov 2024 20:21 | | RC/JU | Ok,M |
| 10 | PB165224BL | PB165224BL | BN035358.D | 27 Nov 2024 20:57 | | RC/JU | Ok,M |
| 11 | PB165266BL | PB165266BL | BN035359.D | 27 Nov 2024 21:32 | | RC/JU | Ok,M |
| 12 | PB165224BS | PB165224BS | BN035360.D | 27 Nov 2024 22:08 | | RC/JU | Ok,M |
| 13 | PB165224BSD | PB165224BSD | BN035361.D | 27 Nov 2024 22:44 | | RC/JU | Ok,M |
| 14 | P4969-02 | TOWER-1 | BN035362.D | 27 Nov 2024 23:20 | | RC/JU | Ok,M |
| 15 | P4969-04 | TOWER-2 | BN035363.D | 27 Nov 2024 23:56 | | RC/JU | Ok,M |
| 16 | P5003-02 | RW-10A-HYD-2024112 | BN035364.D | 28 Nov 2024 00:32 | | RC/JU | Ok,M |
| 17 | P5003-03 | RW-10A-HYD-2024112 | BN035365.D | 28 Nov 2024 01:08 | | RC/JU | Ok,M |

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**Instrument ID:** BNA_N

## Daily Analysis Runlog For Sequence/QCBatch ID # BN112724

| | | | | |
|---|---|---|---|---|
| Review By | yogesh | Review On | 11/29/2024 12:48:33 AM | |
| Supervise By | mohammad | Supervise On | 12/3/2024 12:32:57 AM | |
| SubDirectory | BN112724 | HP Acquire Method | BNA_N, 8270_HP Processing Method | bn112724 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6573 |
| Initial Calibration Stds | SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657 |
| CCC | SP6661 |
| Internal Standard/PEM | SP6527,1ul/100ul sample |
| ICV/I.BLK | SP6684 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 18 | SSTDCCC0.4 | SSTDCCC0.4EC | BN035366.D | 28 Nov 2024 02:20 | | RC/JU | Ok,M |
| 19 | DFTPP | DFTPP | BN035367.D | 28 Nov 2024 03:35 | | RC/JU | Ok |
| 20 | SSTDCCC0.4 | SSTDCCC0.4 | BN035368.D | 28 Nov 2024 04:51 | | RC/JU | Ok,M |
| 21 | PB165198BL | PB165198BL | BN035369.D | 28 Nov 2024 05:27 | | RC/JU | Ok,M |
| 22 | PB165198BS | PB165198BS | BN035370.D | 28 Nov 2024 06:03 | | RC/JU | Ok,M |
| 23 | PB165198BSD | PB165198BSD | BN035371.D | 28 Nov 2024 06:39 | | RC/JU | Ok,M |
| 24 | PB165266BS | PB165266BS | BN035372.D | 28 Nov 2024 07:15 | | RC/JU | Ok,M |
| 25 | PB165266BSD | PB165266BSD | BN035373.D | 28 Nov 2024 07:50 | | RC/JU | Ok,M |
| 26 | P4959-01 | RW5-SP100-20241121 | BN035374.D | 28 Nov 2024 08:26 | | RC/JU | Ok,M |
| 27 | SSTDCCC0.4 | SSTDCCC0.4EC | BN035375.D | 28 Nov 2024 09:02 | | RC/JU | Ok,M |

M : Manual Integration

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**Instrument ID:** BNA_N

## Daily Analysis Runlog For Sequence/QCBatch ID # BN122324

| | | | | |
|---|---|---|---|---|
| Review By | Yogesh | Review On | 12/24/2024 8:45:14 AM | |
| Supervise By | mohammad | Supervise On | 12/26/2024 1:14:41 AM | |
| SubDirectory | BN122324 | HP Acquire Method | BNA_N, 8270_HP Processing Method | bn112724 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6573 |
| Initial Calibration Stds | SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657 |
| CCC | SP6661 |
| Internal Standard/PEM | SP6682,1ul/100ul sample |
| ICV/I.BLK | SP6684 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | DFTPP | DFTPP | BN035775.D | 23 Dec 2024 09:43 | | RC/JU | Ok |
| 2 | SSTDCCC0.4 | SSTDCCC0.4 | BN035776.D | 23 Dec 2024 10:22 | | RC/JU | Ok,M |
| 3 | PB165596BL | PB165596BL | BN035777.D | 23 Dec 2024 10:57 | Analyzed for contamination check | RC/JU | Not Ok |
| 4 | P5281-04 | TT101D2-20241212 | BN035778.D | 23 Dec 2024 11:32 | Need 2X Dilution | RC/JU | Dilution |
| 5 | P5317-15 | RW9-MW01D2-202412 | BN035779.D | 23 Dec 2024 12:08 | | RC/JU | Ok,M |
| 6 | P5317-16 | RW9-MW01D3-202412 | BN035780.D | 23 Dec 2024 12:43 | | RC/JU | Ok,M |
| 7 | P5317-17 | DUP-06-20241217 | BN035781.D | 23 Dec 2024 13:19 | | RC/JU | Ok,M |
| 8 | P5317-18 | RE132D5-20241217 | BN035782.D | 23 Dec 2024 13:54 | | RC/JU | Ok,M |
| 9 | P5317-19MS | RE132D5-20241217MS | BN035783.D | 23 Dec 2024 14:30 | | RC/JU | Ok,M |
| 10 | P5317-20MSD | RE132D5-20241217MS | BN035784.D | 23 Dec 2024 15:05 | | RC/JU | Ok,M |
| 11 | P5314-02 | BP-VPB-190A-GW-678 | BN035785.D | 23 Dec 2024 15:41 | | RC/JU | Ok,M |
| 12 | P5314-04 | VPB190A-HYD-202412 | BN035786.D | 23 Dec 2024 16:17 | | RC/JU | Ok,M |
| 13 | P5317-21 | RE132D6-20241217 | BN035787.D | 23 Dec 2024 16:52 | Need 5X Dilution | RC/JU | Dilution |
| 14 | P5317-22 | RE132D7-20241217 | BN035788.D | 23 Dec 2024 17:28 | | RC/JU | Ok,M |
| 15 | P5317-24 | RW8-MW01D2-202412 | BN035789.D | 23 Dec 2024 18:04 | | RC/JU | Ok,M |
| 16 | P5317-25 | RW8-MW01D3-202412 | BN035790.D | 23 Dec 2024 18:39 | | RC/JU | Ok,M |
| 17 | P5281-02 | BPOW1-7-20241212 | BN035791.D | 23 Dec 2024 19:15 | | RC/JU | Ok,M |

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Fax : 908 789 8922

**Instrument ID:** BNA_N

## Daily Analysis Runlog For Sequence/QCBatch ID # BN122324

| | | | | |
|---|---|---|---|---|
| Review By | Yogesh | Review On | 12/24/2024 8:45:14 AM | |
| Supervise By | mohammad | Supervise On | 12/26/2024 1:14:41 AM | |
| SubDirectory | BN122324 | HP Acquire Method | BNA_N, 8270_HP Processing Method | bn112724 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6573 |
| Initial Calibration Stds | SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657 |
| CCC | SP6661 |
| Internal Standard/PEM | SP6682,1ul/100ul sample |
| ICV/I.BLK | SP6684 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 18 | SSTDCCC0.4 | SSTDCCC0.4EC | BN035792.D | 23 Dec 2024 19:51 | | RC/JU | Ok,M |
| 19 | DFTPP | DFTPP | BN035793.D | 23 Dec 2024 20:26 | | RC/JU | Ok |
| 20 | SSTDCCC0.4 | SSTDCCC0.4 | BN035794.D | 23 Dec 2024 22:16 | | RC/JU | Ok,M |
| 21 | PB165667BL | PB165667BL | BN035795.D | 23 Dec 2024 22:52 | | RC/JU | Ok,M |
| 22 | P5281-03 | BPOW1-8-20241212 | BN035796.D | 23 Dec 2024 23:27 | | RC/JU | Ok,M |
| 23 | P5281-05 | RE117D1-20241213 | BN035797.D | 24 Dec 2024 00:03 | | RC/JU | Ok,M |
| 24 | P5281-06 | RE115D1-20241213 | BN035798.D | 24 Dec 2024 00:38 | Need 2X Dilution | RC/JU | Dilution |
| 25 | P5281-07 | TT189D2-20241213 | BN035799.D | 24 Dec 2024 01:14 | Need 2X Dilution | RC/JU | Dilution |
| 26 | P5281-08 | FB02-20241213 | BN035800.D | 24 Dec 2024 01:49 | | RC/JU | Ok,M |
| 27 | P5282-01 | RW7-SP100-20241212 | BN035801.D | 24 Dec 2024 02:25 | Need 2X Dilution | RC/JU | Dilution |
| 28 | P5282-02 | RW7-SP201-20241212 | BN035802.D | 24 Dec 2024 03:00 | | RC/JU | Ok,M |
| 29 | P5282-03 | RW7-SP302-20241212 | BN035803.D | 24 Dec 2024 03:36 | | RC/JU | Ok,M |
| 30 | P5282-04 | RW7-SP303-20241212 | BN035804.D | 24 Dec 2024 04:12 | | RC/JU | Ok,M |
| 31 | P5284-01 | RW5-SP100-20241212 | BN035805.D | 24 Dec 2024 04:47 | Need 5X Dilution | RC/JU | Dilution |
| 32 | P5317-07 | RW8-MW01S-2024121 | BN035806.D | 24 Dec 2024 05:23 | | RC/JU | Ok,M |
| 33 | P5317-06 | DUP-04-20241216 | BN035807.D | 24 Dec 2024 05:58 | | RC/JU | Ok,M |
| 34 | PB165667BS | PB165667BS | BN035808.D | 24 Dec 2024 06:34 | | RC/JU | Ok,M |
| 35 | SSTDCCC0.4 | SSTDCCC0.4EC | BN035809.D | 24 Dec 2024 07:09 | | RC/JU | Ok,M |
| 36 | DFTPP | DFTPP | BN035810.D | 24 Dec 2024 07:45 | | RC/JU | Ok |

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**Instrument ID:** BNA_N

## Daily Analysis Runlog For Sequence/QCBatch ID # BN122324

| | | | | |
|---|---|---|---|---|
| Review By | Yogesh | Review On | 12/24/2024 8:45:14 AM | |
| Supervise By | mohammad | Supervise On | 12/26/2024 1:14:41 AM | |
| SubDirectory | BN122324 | HP Acquire Method | BNA_N, 8270_HP Processing Method | bn112724 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6573 |
| Initial Calibration Stds | SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657 |
| CCC | SP6661 |
| Internal Standard/PEM | SP6682,1ul/100ul sample |
| ICV/I.BLK | SP6684 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 37 | SSTDCCC0.4 | SSTDCCC0.4 | BN035811.D | 24 Dec 2024 08:59 | | RC/JU | Ok,M |
| 38 | PB165828BL | PB165828BL | BN035812.D | 24 Dec 2024 09:35 | | RC/JU | Ok,M |
| 39 | P5281-04DL | TT101D2-20241212DL | BN035813.D | 24 Dec 2024 10:10 | | RC/JU | Ok,M |
| 40 | P5261-19DL | RE120D3-20241210DL | BN035814.D | 24 Dec 2024 10:46 | Not Match Dilution | RC/JU | Not Ok |
| 41 | P5376-02 | TT150S1-20241218 | BN035815.D | 24 Dec 2024 11:21 | | RC/JU | Ok,M |
| 42 | P5376-03 | RE115D2-20241218 | BN035816.D | 24 Dec 2024 11:57 | Need 5X Dilution | RC/JU | Dilution |
| 43 | P5376-04 | TT149S1-20241218 | BN035817.D | 24 Dec 2024 12:33 | | RC/JU | Ok,M |
| 44 | P5376-05 | DUP-07-20241218 | BN035818.D | 24 Dec 2024 13:08 | | RC/JU | Ok,M |
| 45 | P5376-06 | TT174I1-20241218 | BN035819.D | 24 Dec 2024 13:44 | | RC/JU | Ok,M |
| 46 | P5376-07 | RW10-MW01S-202412 | BN035820.D | 24 Dec 2024 14:19 | | RC/JU | Ok,M |
| 47 | P5376-08MS | RW10-MW01S-202412 | BN035821.D | 24 Dec 2024 14:55 | | RC/JU | Ok,M |
| 48 | P5376-09MSD | RW10-MW01S-202412 | BN035822.D | 24 Dec 2024 15:31 | | RC/JU | Ok,M |
| 49 | P5376-10 | RW10-MW01D-202412 | BN035823.D | 24 Dec 2024 16:06 | | RC/JU | Ok,M |
| 50 | P5376-11 | RW10A-MW01S-20241 | BN035824.D | 24 Dec 2024 16:42 | | RC/JU | Ok,M |
| 51 | P5376-12 | RW10A-MW01I-202412 | BN035825.D | 24 Dec 2024 17:18 | | RC/JU | Ok,M |
| 52 | P5376-13 | RE117D2-20241218 | BN035826.D | 24 Dec 2024 17:53 | | RC/JU | Ok,M |
| 53 | P5376-14 | TT161S1-20241219 | BN035827.D | 24 Dec 2024 18:29 | | RC/JU | Ok,M |
| 54 | SSTDCCC0.4 | SSTDCCC0.4EC | BN035828.D | 24 Dec 2024 19:05 | | RC/JU | Ok,M |
| 55 | DFTPP | DFTPP | BN035829.D | 24 Dec 2024 19:41 | | RC/JU | Ok |

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**Instrument ID:** BNA_N

## Daily Analysis Runlog For Sequence/QCBatch ID # BN122324

| | | | | |
|---|---|---|---|---|
| Review By | Yogesh | Review On | 12/24/2024 8:45:14 AM | |
| Supervise By | mohammad | Supervise On | 12/26/2024 1:14:41 AM | |
| SubDirectory | BN122324 | HP Acquire Method | BNA_N, 8270_HP Processing Method | bn112724 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6573 |
| Initial Calibration Stds | SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657 |
| CCC | SP6661 |
| Internal Standard/PEM | SP6682,1ul/100ul sample |
| ICV/I.BLK | SP6684 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 56 | SSTDCCC0.4 | SSTDCCC0.4 | BN035830.D | 24 Dec 2024 20:55 | | RC/JU | Ok,M |
| 57 | PB165596BL | PB165596BL | BN035831.D | 24 Dec 2024 22:07 | | RC/JU | Not Ok |
| 58 | P5376-15 | TT162S1-20241219 | BN035832.D | 24 Dec 2024 22:42 | CCC Fail high for Com#2 | RC/JU | ReRun |
| 59 | P5376-16 | RW11-MW01S-202412 | BN035833.D | 24 Dec 2024 23:18 | | RC/JU | Ok,M |
| 60 | P5376-17 | RW11-MW01I-2024121 | BN035834.D | 24 Dec 2024 23:53 | | RC/JU | Ok,M |
| 61 | P5376-18 | TT119S1-20241219 | BN035835.D | 25 Dec 2024 00:29 | | RC/JU | Ok,M |
| 62 | P5376-19 | TT188S1-20241219 | BN035836.D | 25 Dec 2024 01:05 | CCC Fail high for Com#2 | RC/JU | ReRun |
| 63 | P5376-20 | FB03-20241219 | BN035837.D | 25 Dec 2024 01:40 | | RC/JU | Ok,M |
| 64 | P5376-01 | TT205S1-20241218 | BN035838.D | 25 Dec 2024 02:16 | CCC Fail high for Com#2 | RC/JU | ReRun |
| 65 | PB165723BS | PB165723BS | BN035839.D | 25 Dec 2024 02:51 | CCC Fail high for Com#2 | RC/JU | Not Ok |
| 66 | PB165724BSD | PB165724BSD | BN035840.D | 25 Dec 2024 03:27 | CCC Fail high for Com#2 | RC/JU | Not Ok |
| 67 | PB165828BS | PB165828BS | BN035841.D | 25 Dec 2024 04:03 | CCC Fail high for Com#2 | RC/JU | Not Ok |
| 68 | P5374-03 | BP-VPB-190A-GW-718 | BN035842.D | 25 Dec 2024 04:38 | CCC Fail high for Com#2 | RC/JU | ReRun |
| 69 | SSTDCCC0.4 | SSTDCCC0.4EC | BN035843.D | 25 Dec 2024 05:14 | | RC/JU | Ok,M |

M : Manual Integration

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**Instrument ID:** BNA_N

## Daily Analysis Runlog For Sequence/QCBatch ID # BN122624

| | | | | |
|---|---|---|---|---|
| Review By | yogesh | Review On | 12/27/2024 3:53:55 AM | |
| Supervise By | mohammad | Supervise On | 12/27/2024 4:13:15 AM | |
| SubDirectory | BN122624 | HP Acquire Method | BNA_N, 8270_HP Processing Method | bn112724 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6573 |
| Initial Calibration Stds | SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657 |
| CCC | SP6661 |
| Internal Standard/PEM | SP6682,1ul/100ul sample |
| ICV/I.BLK | SP6684 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | DFTPP | DFTPP | BN035844.D | 26 Dec 2024 09:19 | | RC/JU | Ok |
| 2 | SSTDCCC0.4 | SSTDCCC0.4 | BN035845.D | 26 Dec 2024 09:58 | | RC/JU | Ok,M |
| 3 | PB165724BL | PB165724BL | BN035846.D | 26 Dec 2024 10:35 | | RC/JU | Ok,NR |
| 4 | P5376-15 | TT162S1-20241219 | BN035847.D | 26 Dec 2024 11:20 | | RC/JU | Ok,M |
| 5 | P5376-19 | TT188S1-20241219 | BN035848.D | 26 Dec 2024 11:56 | | RC/JU | Ok,M |
| 6 | P5376-01 | TT205S1-20241218 | BN035849.D | 26 Dec 2024 12:31 | | RC/JU | Ok,M |
| 7 | P5374-03 | BP-VPB-190A-GW-718 | BN035850.D | 26 Dec 2024 13:07 | | RC/JU | Ok,M |
| 8 | PB165723BS | PB165723BS | BN035851.D | 26 Dec 2024 13:43 | | RC/JU | Ok,M |
| 9 | PB165828BS | PB165828BS | BN035852.D | 26 Dec 2024 14:19 | | RC/JU | Ok,M |
| 10 | PB165724BSD | PB165724BSD | BN035853.D | 26 Dec 2024 14:54 | | RC/JU | Ok,M |
| 11 | P5376-03DL | RE115D2-20241218DL | BN035854.D | 26 Dec 2024 15:30 | | RC/JU | Ok,M |
| 12 | P5317-21DL | RE132D6-20241217DL | BN035855.D | 26 Dec 2024 16:06 | | RC/JU | Ok,M |
| 13 | P5281-07DL | TT189D2-20241213DL | BN035856.D | 26 Dec 2024 16:42 | | RC/JU | Ok,M |
| 14 | P5282-01DL | RW7-SP100-20241212 | BN035857.D | 26 Dec 2024 17:18 | | RC/JU | Ok,M |
| 15 | P5281-06DL | RE115D1-20241213DL | BN035858.D | 26 Dec 2024 17:53 | | RC/JU | Ok,M |
| 16 | P5284-01DL | RW5-SP100-20241212 | BN035859.D | 26 Dec 2024 18:29 | | RC/JU | Ok,M |
| 17 | P5261-19DL | RE120D3-20241210DL | BN035860.D | 26 Dec 2024 19:05 | | RC/JU | Ok,M |
| 18 | SSTDCCC0.4 | SSTDCCC0.4EC | BN035861.D | 26 Dec 2024 19:41 | | RC/JU | Ok,M |

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Fax : 908 789 8922

**Instrument ID:** BNA_N

## Daily Analysis Runlog For Sequence/QCBatch ID # BN122624

| | | | | |
|---|---|---|---|---|
| Review By | yogesh | Review On | 12/27/2024 3:53:55 AM | |
| Supervise By | mohammad | Supervise On | 12/27/2024 4:13:15 AM | |
| SubDirectory | BN122624 | HP Acquire Method | BNA_N, 8270_HP Processing Method | bn112724 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6573 |
| Initial Calibration Stds | SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657 |
| CCC | SP6661 |
| Internal Standard/PEM | SP6682,1ul/100ul sample |
| ICV/I.BLK | SP6684 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

M : Manual Integration

Alliance TECHNICAL GROUP

**EXTRACTION LOGPAGE**

PB165828

**SOP ID:** M3510C,3580A-Extraction SVOC-20

**Clean Up SOP #:** N/A

**Matrix :** Water

**Weigh By:** N/A

**Balance check:** N/A

**Balance ID:** N/A

**pH Strip Lot#:** E3574

**Extraction By:** RS

**Filter By:** RS

**pH Meter ID:** N/A

**Hood ID:** 4,5,6,7

**Extraction Start Date :** 12/23/2024

**Extraction Start Time :** 13:29

**Extraction End Date :** 12/23/2024

**Extraction End Time :** 18:25

**Concentration By:** EH

**Supervisor By :** rajesh

**Extraction Method:** [✓] Seperatory Funnel [ ] Continious Liquid/Liquid [ ] Sonication [ ] Waste Dilution [ ] Soxhlet

| Standared Name | MLS USED | Concentration ug/mL | STD REF. # FROM LOG |
|---|---|---|---|
| Spike Sol 1 | 1.0ML | 0.4 PPM | SP6616 |
| Surrogate | 1.0ML | 0.4 PPM | SP6666 |
| N/A | N/A | N/A | N/A |
| N/A | N/A | N/A | N/A |
| N/A | N/A | N/A | N/A |

| Chemical Used | ML/SAMPLE USED | Lot Number |
|---|---|---|
| Methylene Chloride | N/A | E3845 |
| Baked Na2SO4 | N/A | EP2571 |
| 10N NaoH | N/A | EP2559 |
| H2SO4 1:1 | N/A | EP2565 |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |

**Extraction Conformance/Non-Conformance Comments:**

1.5 ML Vial lot# 2210673. pH Adjusted<2 with 1:1 H2SO4 &>11 with 10 N NaOH.

**KD Bath ID:** Water bath -01,02

**KD Bath Temperature:** 60 °C

**Envap ID:** NEVAP-02

**Envap Temperature:** 40 °C

| Date / Time | Prepped Sample Relinquished By/Location | Received By/Location |
|---|---|---|
| 12/23/24 | RP (Ext Lab) | RL/SVOC |
| 18:30 | **Preparation Group** | **Analysis Group** |

Alliance TECHNICAL GROUP

**EXTRACTION LOGPAGE**

**PrepBatch ID : PB165828**

**Analytical Method:** M3510C,3580A-Extraction SVOC-20

**Concentration Date:** 12/23/2024

| Sample ID | Client Sample ID | Test | g / mL | PH | Surr/Spike By: | | Final Vol. (mL) | JarID | Comments | Prep Pos |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | AddedBy | VerifiedBy | | | | |
| PB165828BL | SBLK828 | SVOC-SIMGroup1 | 1000 | 6 | RUPESH | rajesh | 1 | | | SEP-1 |
| PB165828BS | SLCS828 | SVOC-SIMGroup1 | 1000 | 6 | RUPESH | rajesh | 1 | | | 2 |
| P5374-03 | BP-VPB-190A-GW-718-720 | SVOC-SIMGroup1 | 970 | 6 | RUPESH | rajesh | 1 | C | | 3 |
| P5376-01 | TT205S1-20241218 | SVOC-SIMGroup1 | 1000 | 6 | RUPESH | rajesh | 1 | C | | 4 |
| P5376-02 | TT150S1-20241218 | SVOC-SIMGroup1 | 1000 | 6 | RUPESH | rajesh | 1 | C | | 5 |
| P5376-03 | RE115D2-20241218 | SVOC-SIMGroup1 | 970 | 6 | RUPESH | rajesh | 1 | C | | 6 |
| P5376-04 | TT149S1-20241218 | SVOC-SIMGroup1 | 970 | 6 | RUPESH | rajesh | 1 | C | | 7 |
| P5376-05 | DUP-07-20241218 | SVOC-SIMGroup1 | 980 | 6 | RUPESH | rajesh | 1 | C | | 8 |
| P5376-06 | TT174I1-20241218 | SVOC-SIMGroup1 | 1000 | 6 | RUPESH | rajesh | 1 | C | | 9 |
| P5376-07 | RW10-MW01S-20241218 | SVOC-SIMGroup1 | 1000 | 6 | RUPESH | rajesh | 1 | C | | 10 |
| P5376-08 | P5376-07MS | SVOC-SIMGroup1 | 990 | 6 | RUPESH | rajesh | 1 | C | | 11 |
| P5376-09 | P5376-07MSD | SVOC-SIMGroup1 | 980 | 6 | RUPESH | rajesh | 1 | C | | 12 |
| P5376-10 | RW10-MW01D-20241218 | SVOC-SIMGroup1 | 980 | 6 | RUPESH | rajesh | 1 | C | | 13 |
| P5376-11 | RW10A-MW01S-20241218 | SVOC-SIMGroup1 | 970 | 6 | RUPESH | rajesh | 1 | C | | 14 |
| P5376-12 | RW10A-MW01I-20241218 | SVOC-SIMGroup1 | 990 | 6 | RUPESH | rajesh | 1 | C | | 15 |
| P5376-13 | RE117D2-20241218 | SVOC-SIMGroup1 | 960 | 6 | RUPESH | rajesh | 1 | C | | 16 |
| P5376-14 | TT161S1-20241219 | SVOC-SIMGroup1 | 1000 | 6 | RUPESH | rajesh | 1 | C | | 17 |
| P5376-15 | TT162S1-20241219 | SVOC-SIMGroup1 | 1000 | 6 | RUPESH | rajesh | 1 | C | | 18 |
| P5376-16 | RW11-MW01S-20241219 | SVOC-SIMGroup1 | 990 | 6 | RUPESH | rajesh | 1 | C | | SEP-1 |
| P5376-17 | RW11-MW01I-20241219 | SVOC-SIMGroup1 | 980 | 6 | RUPESH | rajesh | 1 | C | | 2 |
| P5376-18 | TT119S1-20241219 | SVOC-SIMGroup1 | 1000 | 6 | RUPESH | rajesh | 1 | C | | 3 |
| P5376-19 | TT188S1-20241219 | SVOC-SIMGroup1 | 990 | 6 | RUPESH | rajesh | 1 | C | | 4 |
| P5376-20 | FB03-20241219 | SVOC-SIMGroup1 | 1000 | 6 | RUPESH | rajesh | 1 | C | | 5 |

*** Extracts relinquished on the same date as received.**

12/23/24

P5376-SVOC-SIMGroup1

# WORKLIST(Hardcopy Internal Chain)

**WorkList Name :** p5376 **WorkList ID :** 186576 **Department :** Extraction **Date :** 12-23-2024 13:27:33

| Sample | Customer Sample | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method |
|---|---|---|---|---|---|---|---|---|
| P5374-03 | BP-VPB-190A-GW-718-720 | Water | SVOC-SIMGroup1 | Cool 4 deg C | TETR06 | N31 | 12/18/2024 | 8270-Modified |
| P5376-01 | TT205S1-20241218 | Water | SVOC-SIMGroup1 | Cool 4 deg C | AECO15 | N23 | 12/18/2024 | 8270-Modified |
| P5376-02 | TT150S1-20241218 | Water | SVOC-SIMGroup1 | Cool 4 deg C | AECO15 | N23 | 12/18/2024 | 8270-Modified |
| P5376-03 | RE115D2-20241218 | Water | SVOC-SIMGroup1 | Cool 4 deg C | AECO15 | N23 | 12/18/2024 | 8270-Modified |
| P5376-04 | TT149S1-20241218 | Water | SVOC-SIMGroup1 | Cool 4 deg C | AECO15 | N23 | 12/18/2024 | 8270-Modified |
| P5376-05 | DUP-07-20241218 | Water | SVOC-SIMGroup1 | Cool 4 deg C | AECO15 | N23 | 12/18/2024 | 8270-Modified |
| P5376-06 | TT174I1-20241218 | Water | SVOC-SIMGroup1 | Cool 4 deg C | AECO15 | N23 | 12/18/2024 | 8270-Modified |
| P5376-07 | RW10-MW01S-20241218 | Water | SVOC-SIMGroup1 | Cool 4 deg C | AECO15 | N23 | 12/18/2024 | 8270-Modified |
| P5376-08 | P5376-07MS | Water | SVOC-SIMGroup1 | Cool 4 deg C | AECO15 | N23 | 12/18/2024 | 8270-Modified |
| P5376-09 | P5376-07MSD | Water | SVOC-SIMGroup1 | Cool 4 deg C | AECO15 | N23 | 12/18/2024 | 8270-Modified |
| P5376-10 | RW10-MW01D-20241218 | Water | SVOC-SIMGroup1 | Cool 4 deg C | AECO15 | N23 | 12/18/2024 | 8270-Modified |
| P5376-11 | RW10A-MW01S-20241218 | Water | SVOC-SIMGroup1 | Cool 4 deg C | AECO15 | N23 | 12/18/2024 | 8270-Modified |
| P5376-12 | RW10A-MW01I-20241218 | Water | SVOC-SIMGroup1 | Cool 4 deg C | AECO15 | N23 | 12/18/2024 | 8270-Modified |
| P5376-13 | RE117D2-20241218 | Water | SVOC-SIMGroup1 | Cool 4 deg C | AECO15 | N23 | 12/18/2024 | 8270-Modified |
| P5376-14 | TT161S1-20241219 | Water | SVOC-SIMGroup1 | Cool 4 deg C | AECO15 | N23 | 12/19/2024 | 8270-Modified |
| P5376-15 | TT162S1-20241219 | Water | SVOC-SIMGroup1 | Cool 4 deg C | AECO15 | N23 | 12/19/2024 | 8270-Modified |
| P5376-16 | RW11-MW01S-20241219 | Water | SVOC-SIMGroup1 | Cool 4 deg C | AECO15 | N23 | 12/19/2024 | 8270-Modified |
| P5376-17 | RW11-MW01I-20241219 | Water | SVOC-SIMGroup1 | Cool 4 deg C | AECO15 | N23 | 12/19/2024 | 8270-Modified |
| P5376-18 | TT119S1-20241219 | Water | SVOC-SIMGroup1 | Cool 4 deg C | AECO15 | N23 | 12/19/2024 | 8270-Modified |
| P5376-19 | TT188S1-20241219 | Water | SVOC-SIMGroup1 | Cool 4 deg C | AECO15 | N23 | 12/19/2024 | 8270-Modified |
| P5376-20 | FB03-20241219 | Water | SVOC-SIMGroup1 | Cool 4 deg C | AECO15 | N23 | 12/19/2024 | 8270-Modified |

**Date/Time** 12/23/24 13:26

**Raw Sample Received by:** RJ (Ext Tech)

**Raw Sample Relinquished by:** JD CSM

**Date/Time** 12/23/24 16:00

**Raw Sample Received by:** JD CSM

**Raw Sample Relinquished by:** RJ (Ext Tech)

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

# Prep Standard - Chemical Standard Summary

**Order ID :** P5376

**Test :** SVOC-SIMGroup1

**Prepbatch ID :** PB165828,

**Sequence ID/Qc Batch ID:** BN122324,bn122624,

**Standard ID :**
EP2559,EP2565,EP2571,SP6573,SP6616,SP6629,SP6656,SP6657,SP6658,SP6659,SP6660,SP6661,SP6662,SP6663,SP6666,SP6682,SP6683,SP6684,

**Chemical ID :**
1ul/100ul sample,E3551,E3657,E3768,E3788,E3791,E3817,E3818,E3828,E3845,M5173,S10103,S10247,S 11011,S11074,S11097,S11494,S11792,S11831,S12077,S12079,S12105,S12113,S12126,S12142,S12189,S12207,S12208,S12314,S12328,S12453,S12469,S12517,W3112,

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Extractions STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1874 | 10 N SODIUM HYDROXIDE SOLN | EP2559 | 11/14/2024 | 05/14/2025 | Rajesh Parikh | Extraction_SCALE_2 (EX-SC-2) | None | RUPESHKUMAR SHAH 11/14/2024 |

**FROM** 1000.00000ml of W3112 + 400.00000gram of E3657 = Final Quantity: 1000.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 314 | 1.1 H2SO4 SOLN | EP2565 | 11/20/2024 | 05/20/2025 | Rajesh Parikh | None | None | RUPESHKUMAR SHAH 11/20/2024 |

**FROM** 1000.00000ml of M5173 + 1000.00000ml of W3112 = Final Quantity: 2000.000 ml

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# Extractions STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3923 | Baked Sodium Sulfate | EP2571 | 12/11/2024 | 01/03/2025 | Rajesh Parikh | Extraction_SCALE_2 (EX-SC-2) | None | Yogesh Patel 12/16/2024 |

**FROM** 4000.00000gram of E3551 = Final Quantity: 4000.000 gram

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3895 | 50 ug/ml DFTPP 8270E | SP6573 | 07/15/2024 | 01/08/2025 | Rahul Chavli | None | None | Yogesh Patel 07/17/2024 |

**FROM** 1.00000ml of S10247 + 19.00000ml of E3768 = Final Quantity: 20.000 ml

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# SVOC STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3492 | 8270-SIM-Spike 0.4 PPM | SP6616 | 09/06/2024 | 02/12/2025 | Rahul Chavli | None | None | mohammad ahmed 09/11/2024 |

**FROM** 0.00160ml of S11011 + 0.02000ml of S11792 + 0.04000ml of S12105 + 0.04000ml of S12126 + 0.04000ml of S12453 + 99.85840ml of E3788 = Final Quantity: 100.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3493 | Internal Standard 0.4 PPM | SP6629 | 09/12/2024 | 03/04/2025 | Jagrut Upadhyay | None | None | Yogesh Patel 10/14/2024 |

**FROM** 0.10000ml of S12314 + 4.90000ml of E3791 = Final Quantity: 5.000 ml

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# SVOC STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3339 | 8270 sim calibration stock 10ppm (CPI) | SP6656 | 10/24/2024 | 02/08/2025 | Jagrut Upadhyay | None | None | Yogesh Patel 11/28/2024 |

**FROM** 0.03350ml of S10103 + 0.05000ml of S11494 + 0.05000ml of S12079 + 0.12500ml of S11831 + 0.12500ml of S12113 + 0.20000ml of S12077 + 0.25000ml of S11097 + 24.16650ml of E3817 = Final Quantity: 25.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3361 | 8270-SIM MDL-5PPM CALIBRATION SOLUTION | SP6657 | 10/24/2024 | 02/08/2025 | Jagrut Upadhyay | None | None | Yogesh Patel 11/28/2024 |

**FROM** 0.50000ml of E3817 + 0.01000ml of SP6629 + 0.50000ml of SP6656 = Final Quantity: 1.010 ml

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# SVOC STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3341 | 8270-SIM MDL-3.2PPM CALIBRATION SOLUTION | SP6658 | 10/24/2024 | 02/08/2025 | Jagrut Upadhyay | None | None | Yogesh Patel 11/28/2024 |

**FROM** 0.68000ml of E3817 + 0.01000ml of SP6629 + 0.32000ml of SP6656 = Final Quantity: 1.010 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3344 | 8270-SIM MDL-1.6PPM CALIBRATION SOLUTION | SP6659 | 10/24/2024 | 02/08/2025 | Jagrut Upadhyay | None | None | Yogesh Patel 11/28/2024 |

**FROM** 0.84000ml of E3817 + 0.01000ml of SP6629 + 0.16000ml of SP6656 = Final Quantity: 1.010 ml

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# SVOC STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3342 | 8270-SIM MDL-0.8PPM CALIBRATION SOLUTION | SP6660 | 10/24/2024 | 02/08/2025 | Jagrut Upadhyay | None | None | Yogesh Patel 11/28/2024 |

**FROM** 0.92000ml of E3817 + 0.01000ml of SP6629 + 0.08000ml of SP6656 = Final Quantity: 1.010 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3343 | 8270-SIM MDL-0.4PPM CALIBRATION SOLUTION | SP6661 | 10/24/2024 | 02/08/2025 | Jagrut Upadhyay | None | None | Yogesh Patel 11/28/2024 |

**FROM** 0.96000ml of E3817 + 0.01000ml of SP6629 + 0.04000ml of SP6656 = Final Quantity: 1.010 ml

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# SVOC STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3345 | 8270-SIM MDL-0.2PPM CALIBRATION SOLUTION | SP6662 | 10/24/2024 | 02/08/2025 | Jagrut Upadhyay | None | None | Yogesh Patel 11/28/2024 |

**FROM** 0.50000ml of E3817 + 0.01000ml of SP6629 + 0.50000ml of SP6661 = Final Quantity: 1.010 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3346 | 8270-SIM MDL-0.1PPM CALIBRATION SOLUTION | SP6663 | 10/24/2024 | 02/08/2025 | Jagrut Upadhyay | None | None | Yogesh Patel 11/28/2024 |

**FROM** 0.75000ml of E3817 + 0.01000ml of SP6629 + 0.25000ml of SP6661 = Final Quantity: 1.010 ml

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# SVOC STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3491 | 8270-SIM-Surrogate 0.4 PPM | SP6666 | 10/29/2024 | 04/10/2025 | Jagrut Upadhyay | None | None | Yogesh Patel 11/28/2024 |

**FROM** 0.00800ml of S12189 + 0.01600ml of S12207 + 0.04000ml of S11831 + 199.93600ml of E3818 = Final Quantity: 200.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3493 | Internal Standard 0.4 PPM | SP6682 | 11/15/2024 | 05/09/2025 | Jagrut Upadhyay | None | None | Yogesh Patel 12/03/2024 |

**FROM** 0.10000ml of S12328 + 4.90000ml of E3828 = Final Quantity: 5.000 ml

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# SVOC STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3355 | 8270-SIM MDL-3.2PPM CALIBRATION STOCK SOL- 2ND SOURCE | SP6683 | 11/15/2024 | 04/10/2025 | Jagrut Upadhyay | None | None | Yogesh Patel 12/03/2024 |

**FROM** 0.00630ml of S12189 + 0.01280ml of S12208 + 0.03200ml of S11074 + 0.03200ml of S11831 + 0.06400ml of S12142 + 0.06400ml of S12469 + 0.06400ml of S12517 + 19.72490ml of E3828 = Final Quantity: 20.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3356 | 8270-SIM MDL-0.4PPM CALIBRATION SOL ICV-2ND SOURCE | SP6684 | 11/15/2024 | 04/10/2025 | Jagrut Upadhyay | None | None | Yogesh Patel 12/03/2024 |

**FROM** 0.87500ml of E3828 + 0.01000ml of SP6682 + 0.12500ml of SP6683 = Final Quantity: 1.010 ml

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# CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| PCI Scientific Supply, Inc. | PC19631-100 / SODIUM SULFATE, ANHYDROUS, PEST GRADE, 1 | 313201 | 07/01/2025 | 01/03/2024 / Rajesh | 07/20/2023 / Rajesh | E3551 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| PCI Scientific Supply, Inc. | PC19510-5 / Sodium Hydroxide Pellets 2.5 Kg, Pk of 4 | 23B1556310 | 12/31/2025 | 12/04/2023 / Rajesh | 12/01/2023 / Rajesh | E3657 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Seidler Chemical | BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L) | 24E2462004 | 01/08/2025 | 07/08/2024 / Rajesh | 06/21/2024 / Rajesh | E3768 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Seidler Chemical | BA-9254-03 / Acetone, Ultra Resi (cs/4x4L) | 23H1462005 | 04/23/2025 | 08/13/2024 / Rajesh | 08/13/2024 / Rajesh | E3788 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Seidler Chemical | BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L) | 24G2362009 | 03/09/2025 | 09/09/2024 / Rajesh | 09/03/2024 / Rajesh | E3791 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Seidler Chemical | BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L) | 24H2762011 | 04/09/2025 | 10/09/2024 / Rajesh | 10/09/2024 / Rajesh | E3817 |

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# CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Seidler Chemical | BA-9254-03 / Acetone, Ultra Resi (cs/4x4L) | 24H1462005 | 04/23/2025 | 10/23/2024 / Rajesh | 10/09/2024 / Rajesh | E3818 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Seidler Chemical | BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L) | 24G0862003 | 05/09/2025 | 11/09/2024 / Rajesh | 11/04/2024 / Rajesh | E3828 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Seidler Chemical | BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L) | 24H2762011 | 06/06/2025 | 12/06/2024 / Rajesh | 11/11/2024 / Rajesh | E3845 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Seidler Chemical | BA-9673-33 / Sulfuric Acid, Instra-Analyzed (cs/6c2.5L) | 0000281827 | 06/02/2025 | 06/01/2022 / | 04/05/2022 / william | M5173 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| CPI International | Z-112090-04 / CLP Acid Surrogate Solution, 7500 mg/L, 1ml | 440246 | 02/08/2025 | 08/08/2024 / Jagrut | 12/09/2021 / Christian | S10103 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 31615 / SV Mixture, GC/MS Tuning Mixture, CH2Cl2, 1mL, | A0182667 | 01/15/2025 | 07/15/2024 / Rahul | 03/18/2022 / Christian | S10247 |

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# CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 555872 / Custom Standard, pentachlorophenol Std [CS 5328-5] | A0193449 | 02/20/2025 | 08/20/2024 / yogesh | 01/13/2023 / Christian | S11011 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride | A0187043 | 05/15/2025 | 11/15/2024 / Jagrut | 02/06/2023 / Christian | S11074 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| CPI International | z-110381-01 / 8270 Calibration Solution, 76-1, 500 & 1,000 mg/L, 1ml | 495831 | 02/08/2025 | 08/08/2024 / Jagrut | 02/07/2023 / Christian | S11097 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| CPI International | Z-110094-02 / CLP Base/Neutral Surrogate Solution, 5000 mg/L, 1ml | 506889 | 02/08/2025 | 08/08/2024 / Jagrut | 08/11/2023 / Yogesh | S11494 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride | A0196453 | 02/21/2025 | 08/21/2024 / Jagrut | 11/21/2023 / Rahul | S11792 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 33913 / SOM01.0 SIM Analysis Standard (Surrogate), 2000 PPM | A0201976 | 04/11/2025 | 10/11/2024 / Jagrut | 11/21/2023 / rahul | S11831 |

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# CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| CPI International | Z-110816-01 / Custom 8270 Mix, 4-79, 1000 mg/L, 1 mL, (Maximum Expiration: 180 Days) | 414127 | 02/08/2025 | 08/08/2024 / Jagrut | 01/31/2024 / Rahul | S12077 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| CPI International | Z-110816-01 / Custom 8270 Mix, 4-79, 1000 mg/L, 1 mL, (Maximum Expiration: 180 Days) | 414127 | 04/24/2025 | 10/24/2024 / Jagrut | 01/31/2024 / Rahul | S12079 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 555224 / Custom 8270 Plus Std #2 [2nd lot at $85 per ampul if requested - contact ARM with Request] [CS 4978-2] | A0207706 | 02/12/2025 | 08/12/2024 / Rahul | 02/05/2024 / Rahul | S12105 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| CPI International | z-010223-01 / 1,4-Dioxane Solution, 2,000mg/L, 1ml | 454157 | 02/09/2025 | 08/09/2024 / Jagrut | 03/08/2024 / Rahul | S12113 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH2Cl2 [New Solvent 100% CH2Cl2] | A0203726 | 02/12/2025 | 08/12/2024 / Rahul | 03/15/2024 / Rahul | S12126 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH2Cl2 [New Solvent 100% CH2Cl2] | A0203726 | 04/30/2025 | 11/14/2024 / anahy | 03/15/2024 / Rahul | S12142 |

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# CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 31087 / Acid Surrogate 10,000ug/ml,methanol,5ml/ ampul | A0206206 | 04/10/2025 | 10/10/2024 / anahy | 03/15/2024 / Rahul | S12189 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 31086 / Base Neutral Surrogate 5000ug/ml,CH2Cl2,5ml | A0206381 | 04/10/2025 | 10/10/2024 / anahy | 03/15/2024 / Rahul | S12207 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 31086 / Base Neutral Surrogate 5000ug/ml,CH2Cl2,5ml | A0206381 | 05/15/2025 | 11/15/2024 / Jagrut | 03/15/2024 / Rahul | S12208 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 31206 / SV Mix, CLP method, Internal Std, 2000ug/mL, CH2Cl2, 1mL | A0206540 | 03/04/2025 | 09/04/2024 / anahy | 05/30/2024 / Rahul | S12314 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 31206 / SV Mix, CLP method, Internal Std, 2000ug/mL, CH2Cl2, 1mL | A0206540 | 05/13/2025 | 11/13/2024 / anahy | 05/30/2024 / Rahul | S12328 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 555223 / Custom 8270 Plus Std #1 [2nd lot at $100 per ampul if requested - contact ARM with Request] [CS 4978-1] | A0214021 | 02/12/2025 | 08/12/2024 / Rahul | 07/23/2024 / RAHUL | S12453 |

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# CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 555223 / Custom 8270 Plus Std #1 [2nd lot at $100 per ampul if requested - contact ARM with Request] [CS 4978-1] | A0214021 | 05/14/2025 | 11/14/2024 / anahy | 07/23/2024 / RAHUL | S12469 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 555224 / Custom 8270 Plus Std #2 [2nd lot at $85 per ampul if requested - contact ARM with Request] [CS 4978-2] | A0214017 | 05/14/2025 | 11/14/2024 / anahy | 07/23/2024 / RAHUL | S12517 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Seidler Chemical | DIW / DI Water | Daily Lab-Certified | 07/03/2029 | 07/03/2024 / Iwona | 07/03/2024 / Iwona | W3112 |

CPI INTERNATIONAL

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Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

# Certificate of Analysis

Rev 0 

| Catalog No.: | Lot No.: | Storage: | Solvent: | Exp. Date: | Description: |
|---|---|---|---|---|---|
| Z-112090-04 | 440246 | ≤ -10 °C | Methylene Chloride | 2/16/2026 | CLP Acid Surrogate Solution, 7,500 mg/L, 1 mL |

| Compound | CAS No. | Purity (%) | Compound Lot No. | Concentration, mg/L |
|---|---|---|---|---|
| 2-chlorophenol-$d_4$ | 93951-73-6 | 99.3 | 248.12.7P | 7487 ± 17.2 |
| 2-fluorophenol | 367-12-4 | 99.8 | 10.7.3.3P | 7513 ± 17.26 |
| phenol-d6 | 13127-88-3 | 99.9 | 949.120.8P | 7481 ± 17.19 |
| 2,4,6-tribromophenol | 118-79-6 | 99.8 | 12.1.6P | 7469 ± 17.17 |

Received on
02/25/21
by
CG

S9236
to
S9240

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Certified By: Erica Castiglione
Erica Castiglione
**Chemist**

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

CPI INTERNATIONAL

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~~S11097~~ ~~S11098~~ S11096 to S11099

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received:_____

# Certificate of Analysis

Rev 0



| Catalog No.: | Lot No.: | Storage: | Solvent: | Exp. Date: | Description: |
|---|---|---|---|---|---|
| Z-110381-01 | 495831 | ≤ -10 °C | Methylene Chloride | 10/30/2027 | Method 8270 Calibration Solution, 76-1, 500 & 1,000 mg/L, 1 mL |

| Compound | CAS No. | Purity (%) | Compound Lot No. | Concentration, mg/L |
|---|---|---|---|---|
| acenaphthene | 83-32-9 | 99.9 | 13.1.5P | 1003 ± 17.27 |
| acenaphthylene | 208-96-8 | 97.6 | 14.290.1P | 999.8 ± 17.22 |
| aniline | 62-53-3 | 99.9 | 64.7.1P | 995 ± 17.13 |
| anthracene | 120-12-7 | 99.5 | 15.7.1P | 1001 ± 17.24 |
| azobenzene | 103-33-3 | 98.1 | 252.7.2P | 999.1 ± 17.21 |
| benzo[a]anthracene | 56-55-3 | 100 | 16.7.3P | 1001 ± 17.24 |
| benzo[b]fluoranthene | 205-99-2 | 99.8 | 17.421.3P | 1001 ± 19.91 |
| benzo[k]fluoranthene | 207-08-9 | 98.9 | 18.421.4P | 1001 ± 17.92 |
| benzo[ghi]perylene | 191-24-2 | 93 | 19.286.4P | 999.6 ± 19.88 |
| benzo[a]pyrene | 50-32-8 | 97 | 20.286.2P | 999.1 ± 26.35 |
| benzyl alcohol | 100-51-6 | 99.9 | 65.18.1P | 1001 ± 17.24 |
| bis(2-chloroethoxy)methane | 111-91-1 | 99.1 | 31.3.15P | 999.7 ± 17.89 |
| bis(2-chloroethyl)ether | 111-44-4 | 99.8 | 32.7.1P | 1001 ± 17.23 |
| bis(2-chloro-1-methylethyl) ether | 108-60-1 | 99.5 | 34.3.13P | 999.5 ± 17.89 |
| bis(2-ethylhexyl)adipate | 103-23-1 | 99.5 | 874.7.1P | 999.5 ± 17.21 |
| bis(2-ethylhexyl)phthalate | 117-81-7 | 99.4 | 33.29.1P | 998.8 ± 19.86 |
| 4-bromophenyl phenyl ether | 101-55-3 | 99.4 | 35.7.1P | 999.1 ± 17.2 |
| butyl benzyl phthalate | 85-68-7 | 98.4 | 36.1.6P | 984.7 ± 19.58 |
| carbazole | 86-74-8 | 99.4 | 239.7.2P | 1000 ± 17.22 |

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Certified By: Briana Smith

Briana Smith
**Chemist**

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

# Certificate of Analysis



**Catalog No.:** Z-110381-01 **Lot No.:** 495831 **Expiration Date:** 10/30/2027

| Compound | CAS No. | Purity (%) | Compound Lot No. | Concentration, mg/L |
|---|---|---|---|---|
| 1,2,4-trichlorobenzene | 120-82-1 | 99.6 | 54.29.1P | 1000 ± 17.22 |
| 2,4,5-trichlorophenol | 95-95-4 | 96.5 | 121.7.1.1P | 1000 ± 17.22 |
| 2,4,6-trichlorophenol | 88-06-2 | 99.6 | 113.7.1P | 1002 ± 17.25 |

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Certified By: Briana Smith

Briana Smith
**Chemist**

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

RESTEK®
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

# CERTIFIED REFERENCE MATERIAL

## Certificate of Analysis

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

Received on 03/18/22 by CG S10242 to S10247

**Catalog No. :** 31615 **Lot No.:** A0182667

**Description :** GC/MS Tuning Mixture

GC/MS Tuning Mixture 1,000µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** March 31, 2025 **Storage:** 10°C or colder

**Handling:** Contains carcinogen/reproductive toxin. **Ship:** Ambient

### CERTIFIED VALUES

| Elution Order | Compound | | Grav. Conc. (weight/volume) | Expanded Uncertainty (95% C.L.; K=2) | | |
|---|---|---|---|---|---|---|
| 1 | Pentachlorophenol | | 1,003.6 µg/mL | +/- 5.8897 | µg/mL | Gravimetric |
| | **CAS #** 87-86-5 | (Lot 211229RSR) | | +/- 45.7132 | µg/mL | Unstressed |
| | **Purity** 99% | | | +/- 66.0037 | µg/mL | Stressed |
| 2 | DFTPP (Decafluorotriphenylphosphine) | | 1,006.6 µg/mL | +/- 5.9074 | µg/mL | Gravimetric |
| | **CAS #** 5074-71-5 | (Lot Q117-147) | | +/- 45.8508 | µg/mL | Unstressed |
| | **Purity** 95% | | | +/- 66.2023 | µg/mL | Stressed |
| 3 | Benzidine | | 1,008.4 µg/mL | +/- 5.9179 | µg/mL | Gravimetric |
| | **CAS #** 92-87-5 | (Lot 211228JLM) | | +/- 45.9318 | µg/mL | Unstressed |
| | **Purity** 99% | | | +/- 66.3193 | µg/mL | Stressed |
| 4 | 4,4'-DDT | | 1,007.6 µg/mL | +/- 5.9132 | µg/mL | Gravimetric |
| | **CAS #** 50-29-3 | (Lot 210916JLM) | | +/- 45.8954 | µg/mL | Unstressed |
| | **Purity** 99% | | | +/- 66.2667 | µg/mL | Stressed |

**Solvent:** Methylene chloride
**CAS #** 75-09-2
**Purity** 99%

**Column:**
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

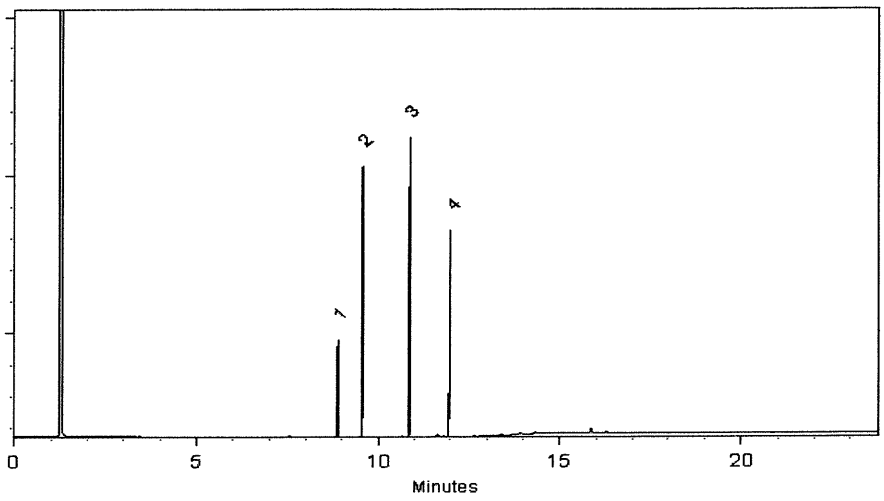
**Carrier Gas:**
hydrogen-constant pressure 10 psi.

**Temp. Program:**
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

**Inj. Temp:**
250°C

**Det. Temp:**
330°C

**Det. Type:**
FID




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Morgan Craighead - Mix Technician

**Date Mixed:** 08-Mar-2022 **Balance:** B345965662

Merlina Cowan - Operations Tech I

**Date Passed:** 10-Mar-2022

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

RESTEK®
110 Benner Circle
Bellefonte, PA 16823-8812
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www.restek.com

# CERTIFIED REFERENCE MATERIAL

## Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

Received on 02/06/23 by CG

S11071 to S11075

**Catalog No. :** 31853 **Lot No.:** A0187043

**Description :** 1,4-dioxane

1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** July 31, 2027 **Storage:** 0°C or colder

**Ship:** Ambient

### CERTIFIED VALUES

| Elution Order | Compound | Grav. Conc. (weight/volume) | Expanded Uncertainty (95% C.L.; K=2) | | |
|---|---|---|---|---|---|
| 1 | 1,4-Dioxane | 2,019.0 µg/mL | +/- 11.8486 | µg/mL | Gravimetric |
| | **CAS #** 123-91-1 (Lot SHBN5929) | | +/- 43.2570 | µg/mL | Unstressed |
| | **Purity** 99% | | +/- 44.5129 | µg/mL | Stressed |

**Solvent:** Methylene chloride
**CAS #** 75-09-2
**Purity** 99%

**Column:**
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

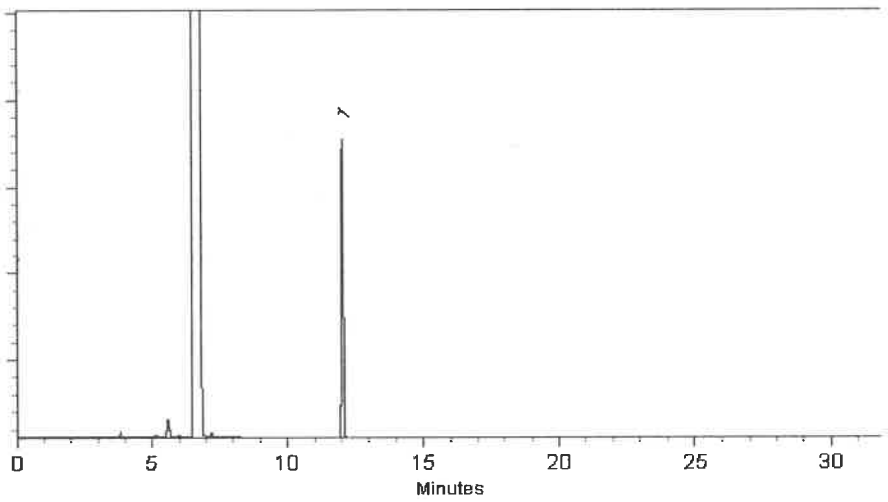
**Carrier Gas:**
hydrogen-constant pressure 11.0 psi.

**Temp. Program:**
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

**Inj. Temp:**
200°C

**Det. Temp:**
250°C

**Det. Type:**
FID




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Brittany Federinko - Operations Tech I

**Date Mixed:** 07-Jul-2022 **Balance:** 1128360905

Marlina Cowan – Operations Tech II ARM QC

**Date Passed:** 12-Jul-2022

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

RESTEK
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Bellefonte, PA 16823-8812
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# CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

*gravimetric*

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

Received on 01/13/23 by CG S11011 to S11015

**Catalog No. :** 555872 **Lot No.:** A0193449

**Description :** Custom Pentachlorophenol Standard

Custom Pentachlorophenol Standard 25,000µg/mL, Methanol, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** January 31, 2026 **Storage:** 10°C or colder

**Ship:** Ambient

**CERTIFIED VALUES**

| Component # | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | Pentachlorophenol | 87-86-5 | RP221012 | 99% | 25,050.0 µg/mL | +/- 778.6378 |

**Solvent:** Methanol
**CAS #** 67-56-1
**Purity** 99%

Russ Bookhamer - Operations Technician I

**Date Mixed:** 11-Jan-2023 **Balance:** B442140311

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  $k$ is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

PRODUCTOS QUIMICOS MONTERREY, S.A. DE C.V.

MIRADOR 201, COL. MIRADOR
MONTERREY, N.L. MEXICO
CP 64070
TEL +52 81 13 52 57 57
www.pqm.com.mx

# CERTIFICATE OF ANALYSIS

| | | | |
|---|---|---|---|
| PRODUCT : | SODIUM SULFATE CRYSTALS ANHYDROUS | | |
| QUALITY : | ACS (CODE RMB3375) | FORMULA : | $Na_2SO_4$ |
| SPECIFICATION NUMBER : | 6399 | RELEASE DATE: | ABR/21/2023 |
| LOT NUMBER : | 313201 | | |

| TEST | SPECIFICATIONS | LOT VALUES |
|---|---|---|
| Assay ($Na_2SO_4$) | Min. 99.0% | 99.7 % |
| pH of a 5% solution at 25°C | 5.2 - 9.2 | 6.1 |
| Insoluble matter | Max. 0.01% | 0.005 % |
| Loss on ignition | Max. 0.5% | 0.1 % |
| Chloride (Cl) | Max. 0.001% | <0.001 % |
| Nitrogen compounds (as N) | Max. 5 ppm | <5 ppm |
| Phosphate ($PO_4$) | Max. 0.001% | <0.001 % |
| Heavy metals (as Pb) | Max. 5 ppm | <5 ppm |
| Iron (Fe) | Max. 0.001% | <0.001 % |
| Calcium (Ca) | Max. 0.01% | 0.002 % |
| Magnesium (Mg) | Max. 0.005% | 0.001 % |
| Potassium (K) | Max. 0.008% | 0.003 % |
| Extraction-concentration suitability | Passes test | Passes test |
| Appearance | Passes test | Passes test |
| Identification | Passes test | Passes test |
| Solubility and foreing matter | Passes test | Passes test |
| Retained on US Standard No. 10 sieve | Max. 1% | 0.1 % |
| Retained on US Standard No. 60 sieve | Min. 94% | 97.3 % |
| Through US Standard No. 60 sieve | Max. 5% | 2.5 % |
| Through US Standard No. 100 sieve | Max. 10% | 0.1 % |

COMMENTS

QC: PhC Irma Belmares

If you need further details, please call our factory or contact our local distributor.

RG-02-01, Ed. 3

Recd. by RP on 7/24/23 E3551

VWR®

# Certificate of Analysis

## Sodium Hydroxide (Pellets)

**Material:** 0583
**Grade:** ACS GRADE
**Batch Number:** 23B1556310

Chemical Formula: NaOH
Molecular Weight: 40
CAS #: 1310-73-2
Appearance:

Pellets

Manufacture Date: 12/14/2022
Expiration Date: 12/31/2025

Storage: Room Temperature

| TEST | SPECIFICATION | ANALYSIS | DISPOSITION |
|---|---|---|---|
| Calcium | <= 0.005 % | <0.005 % | PASS |
| Chloride | <= 0.005 % | 0.002 % | PASS |
| Heavy Metals | <= 0.002 % | <0.002 % | PASS |
| Iron | <= 0.001 % | <0.001 % | PASS |
| Magnesium | <= 0.002 % | <0.002 % | PASS |
| Mercury | <= 0.1 ppm | <0.1 ppm | PASS |
| Nickel | <= 0.001 % | <0.001 % | PASS |
| Nitrogen Compounds | <= 0.001 % | <0.001 % | PASS |
| Phosphate | <= 0.001 % | <0.001 % | PASS |
| Potassium | <= 0.02 % | <0.02 % | PASS |
| Purity | >= 97.0 % | 99.2 % | PASS |
| Sodium Carbonate | <= 1.0 % | 0.5 % | PASS |
| Sulfate | <= 0.003 % | <0.003 % | PASS |

Internal ID #: 710

### Signature

We certify that this batch conforms to the specifications listed.

This document has been electronically produced and is valid without a signature.

Leona Edwardson, Quality Control Sr. Manager - Solon
VWR Chemicals, LLC.
28600 Fountain Parkway, Solon OH 44139 USA

### Additional Information

Analysis may have been rounded to significant digits in specification limits.

Product meets analytical specifications of the grades listed.

| | |
|---|---|
| E 3657 | E 3659 |
| E 3654 | E 3660 |

PO: PO1-8886 PRODUCT CODE: SHIP DATE: 6/21/2024

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor™ | J.T.Baker

Material No.: 9266-A4
Batch No.: 24E2462004
Manufactured Date: 2024-04-10
Expiration Date: 2025-07-10
Revision No.: 0

# Certificate of Analysis

| Test | Specification | Result |
|---|---|---|
| FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL) | ≤ 5 | 3 |
| ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL) | ≤ 10 | 3 |
| Assay ($CH_2Cl_2$) (by GC, exclusive of preservative, corrected for water) | ≥ 99.8 % | 100.0 % |
| Color (APHA) | ≤ 10 | 5 |
| Residue after Evaporation | ≤ 1.0 ppm | 0.1 ppm |
| Titrable Acid (µeq/g) | ≤ 0.3 | < 0.1 |
| Chloride (Cl) | ≤ 10 ppm | 5 ppm |
| Water (by KF, coulometric) | ≤ 0.02 % | < 0.01 % |

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC
Manufacturer source batch: MG24D10725

E 3768

JCroak
Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor™ | J.T.Baker®

Material No.: 9254-03
Batch No.: 23H1462005
Manufactured Date: 2023-07-26
Expiration Date: 2026-07-25
Revision No.: 0

# Certificate of Analysis

| Test | Specification | Result |
|---|---|---|
| Assay ($(CH_3)_2CO$) (by GC, corrected for water) | ≥ 99.4 % | 99.7 % |
| Color (APHA) | ≤ 10 | 5 |
| Residue after Evaporation | ≤ 1.0 ppm | 0.3 ppm |
| Substances Reducing Permanganate | Passes Test | Passes Test |
| Titrable Acid (µeq/g) | ≤ 0.3 | 0.1 |
| Titrable Base (µeq/g) | ≤ 0.6 | < 0.1 |
| Water ($H_2O$) | ≤ 0.5 % | 0.3 % |
| FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL) | ≤ 5 | < 1 |
| ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL) | ≤ 10 | 1 |

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Recd. by RP on 8/13/24

E 3788

Ken Koehnlein
Sr. Manager, Quality Assurance

PO: PO2-76 PRODUCT CODE: SHIP DATE: 9/3/2024

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor™ | J.T.Baker®

Material No.: 9266-A4
Batch No.: 24G2362009
Manufactured Date: 2024-06-10
Expiration Date: 2025-09-09
Revision No.: 0

# Certificate of Analysis

| Test | Specification | Result |
|---|---|---|
| FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL) | ≤ 5 | 2 |
| ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL) | ≤ 10 | 1 |
| Assay ($CH_2Cl_2$) (by GC, exclusive of preservative, corrected for water) | ≥ 99.8 % | 100.0 % |
| Color (APHA) | ≤ 10 | 5 |
| Residue after Evaporation | ≤ 1.0 ppm | 0.3 ppm |
| Titrable Acid (µeq/g) | ≤ 0.3 | < 0.1 |
| Chloride (Cl) | ≤ 10 ppm | < 5 ppm |
| Water (by KF, coulometric) | ≤ 0.02 % | < 0.01 % |

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC
Manufacturer source batch: MG24F10024

E 3791

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor™ | J.T.Baker®

Material No.: 9266-A4
Batch No.: 24H2762011
Manufactured Date: 2024-06-05
Expiration Date:2025-09-04
Revision No.: 0

# Certificate of Analysis

| Test | Specification | Result |
|---|---|---|
| FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL) | <= 5 | 2 |
| ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL) | <= 10 | 5 |
| Assay ($CH_2Cl_2$) (by GC, exclusive of preservative, corrected for water) | >= 99.8 % | 100.0 % |
| Color (APHA) | <= 10 | 5 |
| Residue after Evaporation | <= 1.0 ppm | 0.3 ppm |
| Titrable Acid (µeq/g) | <= 0.3 | <0.1 |
| Chloride (Cl) | <= 10 ppm | <5 ppm |
| Water (by KF, coulometric) | <= 0.02 % | <0.01 % |

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E 3817

JCroak
Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

PO: PO2-329 PRODUCT CODE: SHIP DATE: 9/30/2024

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor™ | J.T.Baker

Material No.: 9254-03
Batch No.: 24H1462005
Manufactured Date: 2024-05-24
Expiration Date:2027-05-24
Revision No.: 0

# Certificate of Analysis

| Test | Specification | Result |
|---|---|---|
| Assay ($(CH_3)_2CO$) (by GC, corrected forwater) | >= 99.4 % | 99.8 % |
| Color (APHA) | <= 10 | 5 |
| Residue after Evaporation | <= 1.0 ppm | 0.2 ppm |
| Substances Reducing Permanganate | Passes Test | Passes Test |
| Titrable Acid (µeq/g) | <= 0.3 | 0.2 |
| Titrable Base (µeq/g) | <= 0.6 | <0.1 |
| Water ($H_2O$) | <= 0.5 % | 0.2 % |
| FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL) | <= 5 | <1 |
| ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL) | <= 10 | 1 |

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

Recd. by RP on 10/9/24

E 3818

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials,LLC
100 Matsonford Rd, Suite 200,Radnor,PA,19087.U.S.A.Phone 610.386.1700

Page 1 of 1

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor™ | J.T.Baker

Material No.: 9266-A4
Batch No.: 24J0862003
Manufactured Date: 2024-09-12
Expiration Date:2025-12-12
Revision No.: 0

# Certificate of Analysis

| Test | Specification | Result |
|---|---|---|
| FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL) | <= 5 | 2 |
| ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL) | <= 10 | 1 |
| Assay ($CH_2Cl_2$) (by GC, exclusive of preservative, corrected for water) | >= 99.8 % | 100.0 % |
| Color (APHA) | <= 10 | 5 |
| Residue after Evaporation | <= 1.0 ppm | 0.2 ppm |
| Titrable Acid (µeq/g) | <= 0.3 | <0.1 |
| Chloride (Cl) | <= 10 ppm | <5 ppm |
| Water (by KF, coulometric) | <= 0.02 % | <0.01 % |

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E 3828

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor™ | J.T.Baker

Material No.: 9266-A4
Batch No.: 24H2762011
Manufactured Date: 2024-06-05
Expiration Date:2025-09-04
Revision No.: 0

# Certificate of Analysis

| Test | Specification | Result |
|---|---|---|
| FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL) | <= 5 | 2 |
| ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL) | <= 10 | 5 |
| Assay ($CH_2Cl_2$) (by GC, exclusive of preservative, corrected for water) | >= 99.8 % | 100.0 % |
| Color (APHA) | <= 10 | 5 |
| Residue after Evaporation | <= 1.0 ppm | 0.3 ppm |
| Titrable Acid (µeq/g) | <= 0.3 | <0.1 |
| Chloride (Cl) | <= 10 ppm | <5 ppm |
| Water (by KF, coulometric) | <= 0.02 % | <0.01 % |

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E 3845

JCroak
Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™ | J.T.Baker®

Material No.: 9530-33
Batch No.: 0000281827
Manufactured Date: 2021/03/30
Retest Date: 2026/03/29
Revision No: 1

# Certificate of Analysis

| Test | Specification | Result |
|---|---|---|
| ACS - Assay (as HCl) (by acid-base titrn) | 36.5 - 38.0 % | 37.6 |
| ACS - Color (APHA) | <= 10 | 5 |
| ACS - Residue after Ignition | <= 3 ppm | 1 |
| ACS - Specific Gravity at 60°/60°F | 1.185 - 1.192 | 1.189 |
| ACS - Bromide (Br) | <= 0.005 % | < 0.005 |
| ACS - Extractable Organic Substances | <= 5 ppm | < 1 |
| ACS - Free Chlorine (as $Cl_2$) | <= 0.5 ppm | < 0.5 |
| Phosphate ($PO_4$) | <= 0.05 ppm | < 0.03 |
| Sulfate ($SO_4$) | <= 0.5 ppm | < 0.3 |
| Sulfite ($SO_3$) | <= 0.8 ppm | 0.3 |
| Ammonium ($NH_4$) | <= 3 ppm | < 1 |
| Trace Impurities - Arsenic (As) | <= 0.010 ppm | < 0.003 |
| Trace Impurities - Aluminum (Al) | <= 10.0 ppb | 0.5 |
| Arsenic and Antimony (as As) | <= 5 ppb | < 3 |
| Trace Impurities - Barium (Ba) | <= 1.0 ppb | < 0.2 |
| Trace Impurities - Beryllium (Be) | <= 1.0 ppb | < 0.2 |
| Trace Impurities - Bismuth (Bi) | <= 10.0 ppb | < 1.0 |
| Trace Impurities - Boron (B) | <= 20.0 ppb | < 5.0 |
| Trace Impurities - Cadmium (Cd) | <= 1.0 ppb | < 0.3 |
| Trace Impurities - Calcium (Ca) | <= 50.0 ppb | 15.0 |
| Trace Impurities - Chromium (Cr) | <= 1.0 ppb | < 0.4 |
| Trace Impurities - Cobalt (Co) | <= 1.0 ppb | < 0.3 |
| Trace Impurities - Copper (Cu) | <= 1.0 ppb | < 0.1 |
| Trace Impurities - Gallium (Ga) | <= 1.0 ppb | < 0.2 |

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

Material No.: 9530-33
Batch No.: 0000281827

| Test | Specification | Result |
|---|---|---|
| Trace Impurities - Germanium (Ge) | <= 3.0 ppb | < 2.0 |
| Trace Impurities - Gold (Au) | <= 4.0 ppb | 3.0 |
| Heavy Metals (as Pb) | <= 100 ppb | < 50 |
| Trace Impurities - Iron (Fe) | <= 15.0 ppb | 1.0 |
| Trace Impurities - Lead (Pb) | <= 1.0 ppb | < 0.5 |
| Trace Impurities - Lithium (Li) | <= 1.0 ppb | < 0.2 |
| Trace Impurities - Magnesium (Mg) | <= 10.0 ppb | < 0.4 |
| Trace Impurities - Manganese (Mn) | <= 1.0 ppb | < 0.4 |
| Trace Impurities - Mercury (Hg) | <= 0.5 ppb | 0.2 |
| Trace Impurities - Molybdenum (Mo) | <= 10.0 ppb | < 5.0 |
| Trace Impurities - Nickel (Ni) | <= 4.0 ppb | < 0.3 |
| Trace Impurities - Niobium (Nb) | <= 1.0 ppb | < 0.2 |
| Trace Impurities - Potassium (K) | <= 9.0 ppb | < 2.0 |
| Trace Impurities - Selenium (Se), For Information Only | ppb | 1.0 |
| Trace Impurities - Silicon (Si) | <= 100.0 ppb | 18.0 |
| Trace Impurities - Silver (Ag) | <= 1.0 ppb | < 0.3 |
| Trace Impurities - Sodium (Na) | <= 100.0 ppb | < 5.0 |
| Trace Impurities - Strontium (Sr) | <= 1.0 ppb | < 0.2 |
| Trace Impurities - Tantalum (Ta) | <= 1.0 ppb | < 0.9 |
| Trace Impurities - Thallium (Tl) | <= 5.0 ppb | < 2.0 |
| Trace Impurities - Tin (Sn) | <= 5.0 ppb | < 0.8 |
| Trace Impurities - Titanium (Ti) | <= 1.0 ppb | < 0.2 |
| Trace Impurities - Vanadium (V) | <= 1.0 ppb | < 0.2 |
| Trace Impurities - Zinc (Zn) | <= 5.0 ppb | 0.4 |
| Trace Impurities - Zirconium (Zr) | <= 1.0 ppb | < 0.1 |

For Laboratory, Research or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications

Country of Origin: US
Packaging Site: Phillipsburg Mfg Ctr & DC

James Ethier
Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

CPI INTERNATIONAL

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(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received:_____

# Certificate of Analysis

Rev 0



| Catalog No.: | Lot No.: | Storage: | Solvent: | Exp. Date: | Description: |
|---|---|---|---|---|---|
| Z-110094-02 | 506889 | ≤ -10 °C | Methylene Chloride | 7/25/2028 | CLP Base/Neutral Surrogate Solution, 5,000 mg/L, 1 ml |

| Compound | CAS No. | Purity (%) | Compound Lot No. | Concentration, mg/L |
|---|---|---|---|---|
| 1,2-dichlorobenzene-$d_4$ | 2199-69-1 | 99.7 | 247.29.3P | 5035 ± 28.02 |
| 2-fluorobiphenyl | 321-60-8 | 99.69 | 8.286.1.1P | 4999 ± 103.66 |
| nitrobenzene-d5 | 4165-60-0 | 99.67 | 7.9.3P | 4988 ± 27.32 |
| p-terphenyl-d14 | 1718-51-0 | 99.3 | 9.120.8P | 5005 ± 27.85 |

511494 to 511498 } Y.P. 08/11/2023

*Not a certified value

Certified By: Thomas C Tipton

Clint Tipton
**Chemist**

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

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Fax: 1-814-353-1309

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## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

***chromatographic plus***

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 31853 **Lot No.:** A0196453

**Description :** 1,4-dioxane

1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** March 31, 2028 **Storage:** 0°C or colder

**Ship:** Ambient

S11749 ↓ S11794 RC 11/30/23

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | 1,4-Dioxane | 123-91-1 | SHBN3770 | 99% | 2,013.0 µg/mL | +/- 25.0521 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methylene chloride
**CAS #** 75-09-2
**Purity** 99%

# Quality Confirmation Test

**Column:**
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

**Carrier Gas:**
hydrogen-constant flow 1.8 mL/min.

**Temp. Program:**
80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

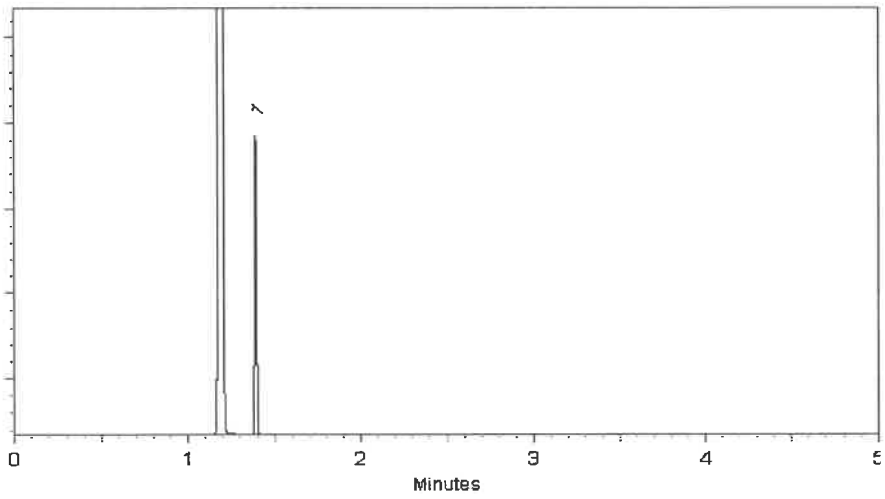
**Inj. Temp:**
250°C

**Det. Temp:**
340°C

**Det. Type:**
FID

**Split Vent:**
100 ml/min.

**Inj. Vol**
1µl




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler - Operations Tech I

**Date Mixed:** 30-Mar-2023 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

**Date Passed:** 31-Mar-2023

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  $k$ is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

*chromatographic plus*

ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 33913 **Lot No.:** A0201976

**Description :** SOM01.0 SIM Analysis Standard

SOM01.0 SIM Analysis Standard 2000µg/mL, Methylene chloride, 1mL /ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** August 31, 2029 **Storage:** 10°C or colder

**Handling:** Sonication required. Mix is photosensitive. **Ship:** Ambient

S11828 ↓ S11832 RC/ 11/30/23

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | 2-Methylnaphthalene-d10 | 7297-45-2 | EF-135 | 98% | 2,015.9 µg/mL | +/- 90.8098 |
| 2 | Fluoranthene-d10 | 93951-69-0 | PR-32557 | 99% | 2,020.0 µg/mL | +/- 90.9963 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methylene chloride
**CAS #** 75-09-2
**Purity** 99%

# Quality Confirmation Test

**Column:**
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

**Carrier Gas:**
hydrogen-constant pressure 10 psi.

**Temp. Program:**
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

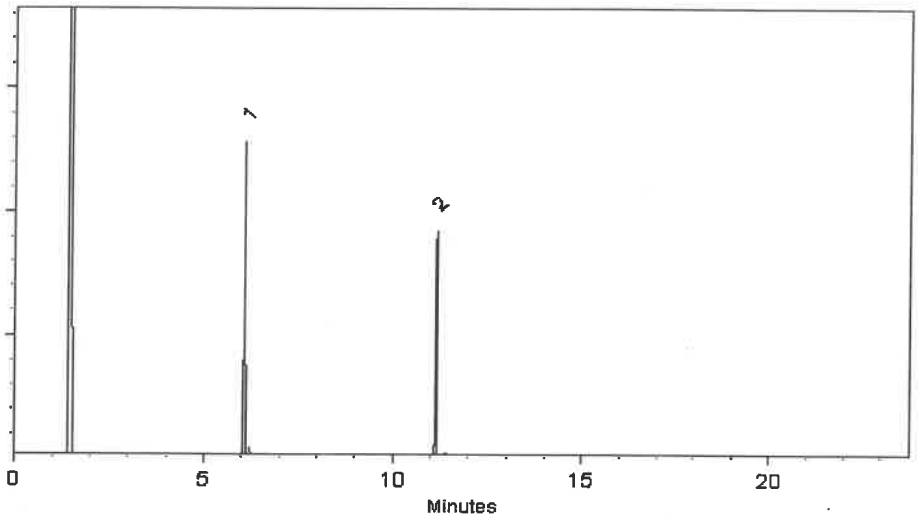
**Inj. Temp:**
250°C

**Det. Temp:**
330°C

**Det. Type:**
FID

**Split Vent:**
10 ml/min.

**Inj. Vol**
1µl




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Dakota Parson - Operations Technician I  **Date Mixed:** 13-Sep-2023  **Balance Serial #** B442140311

Jennifer Pollino - Operations Tech III - ARM QC  **Date Passed:** 28-Sep-2023

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  $k$ is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

# Certificate of Analysis

Rev 0 

| Catalog No.: | Lot No.: | Storage: | Solvent: | Exp. Date: | Description: |
|---|---|---|---|---|---|
| Z-110816-01 | 414127 | ≤ -10 °C | Methylene Chloride | 6/21/2025 | Custom 8270 Mix, 4-79, 1000 mg/L, 1 mL |

| Compound | CAS No. | Purity (%) | Compound Lot No. | Concentration, mg/L |
|---|---|---|---|---|
| atrazine | 1912-24-9 | 99.5 | 337.7.3P | 997 ± 5.81 |
| benzidine | 92-87-5 | 99.9 | 124.18.6.2P | 991.8 ± 5.77 |
| caprolactam | 105-60-2 | 99.9 | 271.1.6P | 999 ± 5.82 |

S12075
↓
S12079
RC
02/01/24

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Certified By: _____
Shane Overcash
**Chemist**

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

CPI INTERNATIONAL

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(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

# Certificate of Analysis

Rev 0 

| Catalog No.: | Lot No.: | Storage: | Solvent: | Exp. Date: | Description: |
|---|---|---|---|---|---|
| Z-110816-01 | 414127 | ≤ -10 °C | Methylene Chloride | 6/21/2025 | Custom 8270 Mix, 4-79, 1000 mg/L, 1 mL |

| Compound | CAS No. | Purity (%) | Compound Lot No. | Concentration, mg/L |
|---|---|---|---|---|
| atrazine | 1912-24-9 | 99.5 | 337.7.3P | 997 ± 5.81 |
| benzidine | 92-87-5 | 99.9 | 124.18.6.2P | 991.8 ± 5.77 |
| caprolactam | 105-60-2 | 99.9 | 271.1.6P | 999 ± 5.82 |

S12075
↓
S12079
RC
02/01/24

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Certified By: _____
Shane Overcash
**Chemist**

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

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# CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

*gravimetric*

ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 555224 **Lot No.:** A0207706

**Description :** Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

S12082 ↓ S12111 RC/ 02/22/24

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** February 28, 2026 **Storage:** 10°C or colder

**Ship:** Ambient

CERTIFIED VALUES

| Component # | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | 1,2,4,5-Tetrachlorobenzene | 95-94-3 | MKCT9480 | 99% | 1,001.0 µg/mL | +/- 29.424320 |
| 2 | Acetophenone | 98-86-2 | STBH8205 | 99% | 1,004.0 µg/mL | +/- 29.512504 |
| 3 | Benzaldehyde | 100-52-7 | RD231129RSRA | 99% | 1,005.0 µg/mL | +/- 29.541899 |
| 4 | Benzoic acid | 65-85-0 | MKCR2694 | 99% | 1,003.0 µg/mL | +/- 29.483110 |
| 5 | Biphenyl | 92-52-4 | MKCL6515 | 99% | 1,006.0 µg/mL | +/- 29.571294 |

**Solvent:** Methylene chloride
**CAS #** 75-09-2
**Purity** 99%

John Friedline - Operations Technician I

**Date Mixed:** 12-Feb-2024 **Balance:** B345965662

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

CPI INTERNATIONAL

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Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received:_____

# Certificate of Analysis

Rev 0



| Catalog No.: | Lot No.: | Storage: | Solvent: | Exp. Date: | Description: |
|---|---|---|---|---|---|
| Z-020223-01 | 454157 | ≤ -10 °C | P/T Methanol | 6/10/2026 | 1,4-Dioxane Solution, 2000 mg/L, 1 mL |

| Compound | CAS No. | Purity (%) | Compound Lot No. | Concentration, mg/L |
|---|---|---|---|---|
| 1,4-dioxane | 123-91-1 | 100 | 223.1.3P | 1997 ±57.08 |

S12112 ↓ S12116 } RC/ 03/08/24

*Not a certified value

Certified By: Melissa Workoff

Melissa Workoff
**Chemist**

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

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Bellefonte, PA 16823-8812
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CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

*chromatographic plus*

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 31850 **Lot No.:** A0203726

**Description :** 8270 MegaMix®

8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

S12117 ↓ S12146 RC/ 03/18/24

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** April 30, 2025 **Storage:** 0°C or colder

**Handling:** Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | Pyridine | 110-86-1 | SHBP6240 | 99% | 1,001.6 µg/mL | +/- 36.4412 |
| 2 | N-Nitrosodimethylamine | 62-75-9 | 230209JLM | 99% | 1,005.9 µg/mL | +/- 36.5968 |
| 3 | Phenol | 108-95-2 | MKCK1120 | 99% | 1,003.3 µg/mL | +/- 36.5038 |
| 4 | Aniline | 62-53-3 | X22F726 | 99% | 1,005.8 µg/mL | +/- 36.5928 |
| 5 | Bis(2-chloroethyl)ether | 111-44-4 | SHBL6942 | 99% | 1,008.1 µg/mL | +/- 36.6776 |
| 6 | 2-Chlorophenol | 95-57-8 | STBJ3909 | 99% | 1,001.8 µg/mL | +/- 36.4492 |
| 7 | 1,3-Dichlorobenzene | 541-73-1 | BCCD5315 | 99% | 1,002.3 µg/mL | +/- 36.4654 |
| 8 | 1,4-Dichlorobenzene | 106-46-7 | MKBS7929V | 99% | 1,003.7 µg/mL | +/- 36.5159 |
| 9 | Benzyl alcohol | 100-51-6 | SHBK5469 | 99% | 1,008.7 µg/mL | +/- 36.6979 |
| 10 | 1,2-Dichlorobenzene | 95-50-1 | SHBN3835 | 99% | 1,000.3 µg/mL | +/- 36.3926 |
| 11 | 2-Methylphenol (o-cresol) | 95-48-7 | SHBN7598 | 99% | 1,003.5 µg/mL | +/- 36.5099 |
| 12 | 2,2'-oxybis(1-chloropropane) | 108-60-1 | 29-MAR-45-5 | 99% | 1,007.3 µg/mL | +/- 36.6493 |
| 13 | 3-Methylphenol (m-cresol) | 108-39-4 | STBJ0710 | 99% | 504.3 µg/mL | +/- 18.3500 |
| 14 | 4-Methylphenol (p-cresol) | 106-44-5 | SHBN3411 | 99% | 503.6 µg/mL | +/- 18.3237 |
| 15 | N-Nitroso-di-n-propylamine | 621-64-7 | N63MG | 99% | 1,008.3 µg/mL | +/- 36.6857 |
| 16 | Hexachloroethane | 67-72-1 | QTORH | 99% | 1,007.5 µg/mL | +/- 36.6554 |
| 17 | Nitrobenzene | 98-95-3 | 10224044 | 99% | 1,008.6 µg/mL | +/- 36.6938 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 18 | Isophorone | 78-59-1 | MKCC9506 | 99% | 1,005.9 | µg/mL | +/- | 36.5988 |
| 19 | 2-Nitrophenol | 88-75-5 | RP230710 | 99% | 1,003.2 | µg/mL | +/- | 36.4998 |
| 20 | 2,4-Dimethylphenol | 105-67-9 | XW5GK | 99% | 1,003.8 | µg/mL | +/- | 36.5200 |
| 21 | Bis(2-chloroethoxy)methane | 111-91-1 | 13670200 | 99% | 1,002.1 | µg/mL | +/- | 36.4573 |
| 22 | 2,4-Dichlorophenol | 120-83-2 | BCBZ6787 | 99% | 1,003.7 | µg/mL | +/- | 36.5180 |
| 23 | 1,2,4-Trichlorobenzene | 120-82-1 | SHBP5900 | 99% | 1,007.6 | µg/mL | +/- | 36.6574 |
| 24 | Naphthalene | 91-20-3 | STBL1057 | 99% | 1,008.3 | µg/mL | +/- | 36.6837 |
| 25 | 4-Chloroaniline | 106-47-8 | BCCJ3217 | 99% | 1,001.3 | µg/mL | +/- | 36.4290 |
| 26 | Hexachlorobutadiene | 87-68-3 | RP230823RSR | 98% | 1,008.3 | µg/mL | +/- | 36.6829 |
| 27 | 4-Chloro-3-methylphenol | 59-50-7 | BCCD4461 | 99% | 1,003.1 | µg/mL | +/- | 36.4937 |
| 28 | 2-Methylnaphthalene | 91-57-6 | STBK0259 | 96% | 1,001.9 | µg/mL | +/- | 36.4505 |
| 29 | 1-Methylnaphthalene | 90-12-0 | 5234.00-8 | 98% | 1,000.0 | µg/mL | +/- | 36.3838 |
| 30 | Hexachlorocyclopentadiene | 77-47-4 | 099063I14L | 98% | 1,008.5 | µg/mL | +/- | 36.6909 |
| 31 | 2,4,6-Trichlorophenol | 88-06-2 | STBJ5914 | 99% | 1,004.4 | µg/mL | +/- | 36.5442 |
| 32 | 2,4,5-Trichlorophenol | 95-95-4 | FHN01 | 98% | 1,001.9 | µg/mL | +/- | 36.4512 |
| 33 | 2-Chloronaphthalene | 91-58-7 | RPN7O | 99% | 1,001.1 | µg/mL | +/- | 36.4230 |
| 34 | 2-Nitroaniline | 88-74-4 | RP230531 | 99% | 1,002.9 | µg/mL | +/- | 36.4876 |
| 35 | 1,4-Dinitrobenzene | 100-25-4 | RP230816 | 99% | 1,005.7 | µg/mL | +/- | 36.5887 |
| 36 | Acenaphthylene | 208-96-8 | p06V | 98% | 1,009.5 | µg/mL | +/- | 36.7265 |
| 37 | 1,3-Dinitrobenzene | 99-65-0 | 1-DXX-24-1 | 99% | 1,004.4 | µg/mL | +/- | 36.5422 |
| 38 | Dimethylphthalate | 131-11-3 | 358221L17K | 99% | 1,005.9 | µg/mL | +/- | 36.5968 |
| 39 | 2,6-Dinitrotoluene | 606-20-2 | BCCG1833 | 99% | 1,003.2 | µg/mL | +/- | 36.4998 |
| 40 | 1,2-Dinitrobenzene | 528-29-0 | RP230428 | 99% | 1,002.2 | µg/mL | +/- | 36.4634 |
| 41 | Acenaphthene | 83-32-9 | MKCR7169 | 99% | 1,009.3 | µg/mL | +/- | 36.7221 |
| 42 | 3-Nitroaniline | 99-09-2 | RP230822RSR | 99% | 1,003.9 | µg/mL | +/- | 36.5240 |
| 43 | 2,4-Dinitrophenol | 51-28-5 | DR230417RSR | 99% | 1,002.0 | µg/mL | +/- | 36.4553 |
| 44 | Dibenzofuran | 132-64-9 | MKCD9952 | 99% | 1,006.7 | µg/mL | +/- | 36.6251 |
| 45 | 2,4-Dinitrotoluene | 121-14-2 | MKAA0690V | 99% | 1,003.8 | µg/mL | +/- | 36.5220 |
| 46 | 4-Nitrophenol | 100-02-7 | RP230627 | 99% | 1,002.3 | µg/mL | +/- | 36.4674 |
| 47 | 2,3,4,6-Tetrachlorophenol | 58-90-2 | PR-30126 | 99% | 1,008.7 | µg/mL | +/- | 36.6979 |
| 48 | 2,3,5,6-Tetrachlorophenol | 935-95-5 | RP230919 | 99% | 1,006.3 | µg/mL | +/- | 36.6130 |
| 49 | Fluorene | 86-73-7 | 10241100 | 99% | 1,008.3 | µg/mL | +/- | 36.6857 |
| 50 | 4-Chlorophenyl phenyl ether | 7005-72-3 | MKCT7248 | 99% | 1,003.8 | µg/mL | +/- | 36.5220 |
| 51 | Diethylphthalate | 84-66-2 | MKCD2547 | 99% | 1,008.6 | µg/mL | +/- | 36.6958 |
| 52 | 4-Nitroaniline | 100-01-6 | RP230111 | 99% | 1,001.1 | µg/mL | +/- | 36.4230 |
| 53 | 4,6-Dinitro-2-methylphenol (Dinitro-o-cresol) | 534-52-1 | 230718JLM | 99% | 1,002.0 | µg/mL | +/- | 36.4553 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 54 | Diphenylamine | 122-39-4 | MKCH1042 | 99% | 1,002.3 | µg/mL | +/- 36.4674 |
| 55 | Azobenzene | 103-33-3 | BCCK0887 | 99% | 1,005.8 | µg/mL | +/- 36.5928 |
| 56 | 4-Bromophenyl phenyl ether | 101-55-3 | STBH6361 | 99% | 1,003.0 | µg/mL | +/- 36.4917 |
| 57 | Hexachlorobenzene | 118-74-1 | 14821700 | 99% | 1,007.5 | µg/mL | +/- 36.6554 |
| 58 | Pentachlorophenol | 87-86-5 | RP230530RSR | 99% | 1,008.8 | µg/mL | +/- 36.7019 |
| 59 | Phenanthrene | 85-01-8 | MKCQ8876 | 99% | 1,008.4 | µg/mL | +/- 36.6877 |
| 60 | Anthracene | 120-12-7 | MKCR0570 | 99% | 1,009.0 | µg/mL | +/- 36.7100 |
| 61 | Carbazole | 86-74-8 | 14351100 | 99% | 1,000.9 | µg/mL | +/- 36.4149 |
| 62 | Di-n-butylphthalate | 84-74-2 | MKCN4337 | 99% | 1,007.6 | µg/mL | +/- 36.6595 |
| 63 | Fluoranthene | 206-44-0 | MKCQ4728 | 99% | 1,009.6 | µg/mL | +/- 36.7302 |
| 64 | Pyrene | 129-00-0 | BCCG8479 | 98% | 1,007.2 | µg/mL | +/- 36.6453 |
| 65 | Benzyl butyl phthalate | 85-68-7 | X12I018 | 99% | 1,002.1 | µg/mL | +/- 36.4573 |
| 66 | Bis(2-ethylhexyl)adipate | 103-23-1 | MKCM1988 | 99% | 1,005.2 | µg/mL | +/- 36.5705 |
| 67 | Benz(a)anthracene | 56-55-3 | I220012022BAA | 99% | 1,002.2 | µg/mL | +/- 36.4614 |
| 68 | Chrysene | 218-01-9 | RP230601 | 99% | 1,008.3 | µg/mL | +/- 36.6837 |
| 69 | Bis(2-ethylhexyl)phthalate | 117-81-7 | MKCQ3468 | 99% | 1,001.8 | µg/mL | +/- 36.4472 |
| 70 | Di-n-octyl phthalate | 117-84-0 | 14382700 | 99% | 1,006.0 | µg/mL | +/- 36.6008 |
| 71 | Benzo(b)fluoranthene | 205-99-2 | 012013B | 99% | 1,002.8 | µg/mL | +/- 36.4836 |
| 72 | Benzo(k)fluoranthene | 207-08-9 | 012022K | 99% | 1,003.0 | µg/mL | +/- 36.4917 |
| 73 | Benzo(a)pyrene | 50-32-8 | P54915-0703 | 99% | 1,002.3 | µg/mL | +/- 36.4674 |
| 74 | Indeno(1,2,3-cd)pyrene | 193-39-5 | 12-JKL-118-9 | 97% | 1,009.4 | µg/mL | +/- 36.7243 |
| 75 | Dibenz(a,h)anthracene | 53-70-3 | 2-ASA-59-1 | 99% | 1,007.6 | µg/mL | +/- 36.6595 |
| 76 | Benzo(g,h,i)perylene | 191-24-2 | RP231003RSR | 99% | 1,002.9 | µg/mL | +/- 36.4876 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methylene chloride
**CAS #** 75-09-2
**Purity** 99%

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

*chromatographic plus*

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 31850 **Lot No.:** A0203726

**Description :** 8270 MegaMix®

8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

S12117 ↓ S12146 RC/ 03/18/24

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** April 30, 2025 **Storage:** 0°C or colder

**Handling:** Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | Pyridine | 110-86-1 | SHBP6240 | 99% | 1,001.6 µg/mL | +/- 36.4412 |
| 2 | N-Nitrosodimethylamine | 62-75-9 | 230209JLM | 99% | 1,005.9 µg/mL | +/- 36.5968 |
| 3 | Phenol | 108-95-2 | MKCK1120 | 99% | 1,003.3 µg/mL | +/- 36.5038 |
| 4 | Aniline | 62-53-3 | X22F726 | 99% | 1,005.8 µg/mL | +/- 36.5928 |
| 5 | Bis(2-chloroethyl)ether | 111-44-4 | SHBL6942 | 99% | 1,008.1 µg/mL | +/- 36.6776 |
| 6 | 2-Chlorophenol | 95-57-8 | STBJ3909 | 99% | 1,001.8 µg/mL | +/- 36.4492 |
| 7 | 1,3-Dichlorobenzene | 541-73-1 | BCCD5315 | 99% | 1,002.3 µg/mL | +/- 36.4654 |
| 8 | 1,4-Dichlorobenzene | 106-46-7 | MKBS7929V | 99% | 1,003.7 µg/mL | +/- 36.5159 |
| 9 | Benzyl alcohol | 100-51-6 | SHBK5469 | 99% | 1,008.7 µg/mL | +/- 36.6979 |
| 10 | 1,2-Dichlorobenzene | 95-50-1 | SHBN3835 | 99% | 1,000.3 µg/mL | +/- 36.3926 |
| 11 | 2-Methylphenol (o-cresol) | 95-48-7 | SHBN7598 | 99% | 1,003.5 µg/mL | +/- 36.5099 |
| 12 | 2,2'-oxybis(1-chloropropane) | 108-60-1 | 29-MAR-45-5 | 99% | 1,007.3 µg/mL | +/- 36.6493 |
| 13 | 3-Methylphenol (m-cresol) | 108-39-4 | STBJ0710 | 99% | 504.3 µg/mL | +/- 18.3500 |
| 14 | 4-Methylphenol (p-cresol) | 106-44-5 | SHBN3411 | 99% | 503.6 µg/mL | +/- 18.3237 |
| 15 | N-Nitroso-di-n-propylamine | 621-64-7 | N63MG | 99% | 1,008.3 µg/mL | +/- 36.6857 |
| 16 | Hexachloroethane | 67-72-1 | QTORH | 99% | 1,007.5 µg/mL | +/- 36.6554 |
| 17 | Nitrobenzene | 98-95-3 | 10224044 | 99% | 1,008.6 µg/mL | +/- 36.6938 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 18 | Isophorone | 78-59-1 | MKCC9506 | 99% | 1,005.9 | µg/mL | +/- | 36.5988 |
| 19 | 2-Nitrophenol | 88-75-5 | RP230710 | 99% | 1,003.2 | µg/mL | +/- | 36.4998 |
| 20 | 2,4-Dimethylphenol | 105-67-9 | XW5GK | 99% | 1,003.8 | µg/mL | +/- | 36.5200 |
| 21 | Bis(2-chloroethoxy)methane | 111-91-1 | 13670200 | 99% | 1,002.1 | µg/mL | +/- | 36.4573 |
| 22 | 2,4-Dichlorophenol | 120-83-2 | BCBZ6787 | 99% | 1,003.7 | µg/mL | +/- | 36.5180 |
| 23 | 1,2,4-Trichlorobenzene | 120-82-1 | SHBP5900 | 99% | 1,007.6 | µg/mL | +/- | 36.6574 |
| 24 | Naphthalene | 91-20-3 | STBL1057 | 99% | 1,008.3 | µg/mL | +/- | 36.6837 |
| 25 | 4-Chloroaniline | 106-47-8 | BCCJ3217 | 99% | 1,001.3 | µg/mL | +/- | 36.4290 |
| 26 | Hexachlorobutadiene | 87-68-3 | RP230823RSR | 98% | 1,008.3 | µg/mL | +/- | 36.6829 |
| 27 | 4-Chloro-3-methylphenol | 59-50-7 | BCCD4461 | 99% | 1,003.1 | µg/mL | +/- | 36.4937 |
| 28 | 2-Methylnaphthalene | 91-57-6 | STBK0259 | 96% | 1,001.9 | µg/mL | +/- | 36.4505 |
| 29 | 1-Methylnaphthalene | 90-12-0 | 5234.00-8 | 98% | 1,000.0 | µg/mL | +/- | 36.3838 |
| 30 | Hexachlorocyclopentadiene | 77-47-4 | 099063I14L | 98% | 1,008.5 | µg/mL | +/- | 36.6909 |
| 31 | 2,4,6-Trichlorophenol | 88-06-2 | STBJ5914 | 99% | 1,004.4 | µg/mL | +/- | 36.5442 |
| 32 | 2,4,5-Trichlorophenol | 95-95-4 | FHN01 | 98% | 1,001.9 | µg/mL | +/- | 36.4512 |
| 33 | 2-Chloronaphthalene | 91-58-7 | RPN7O | 99% | 1,001.1 | µg/mL | +/- | 36.4230 |
| 34 | 2-Nitroaniline | 88-74-4 | RP230531 | 99% | 1,002.9 | µg/mL | +/- | 36.4876 |
| 35 | 1,4-Dinitrobenzene | 100-25-4 | RP230816 | 99% | 1,005.7 | µg/mL | +/- | 36.5887 |
| 36 | Acenaphthylene | 208-96-8 | p06V | 98% | 1,009.5 | µg/mL | +/- | 36.7265 |
| 37 | 1,3-Dinitrobenzene | 99-65-0 | 1-DXX-24-1 | 99% | 1,004.4 | µg/mL | +/- | 36.5422 |
| 38 | Dimethylphthalate | 131-11-3 | 358221L17K | 99% | 1,005.9 | µg/mL | +/- | 36.5968 |
| 39 | 2,6-Dinitrotoluene | 606-20-2 | BCCG1833 | 99% | 1,003.2 | µg/mL | +/- | 36.4998 |
| 40 | 1,2-Dinitrobenzene | 528-29-0 | RP230428 | 99% | 1,002.2 | µg/mL | +/- | 36.4634 |
| 41 | Acenaphthene | 83-32-9 | MKCR7169 | 99% | 1,009.3 | µg/mL | +/- | 36.7221 |
| 42 | 3-Nitroaniline | 99-09-2 | RP230822RSR | 99% | 1,003.9 | µg/mL | +/- | 36.5240 |
| 43 | 2,4-Dinitrophenol | 51-28-5 | DR230417RSR | 99% | 1,002.0 | µg/mL | +/- | 36.4553 |
| 44 | Dibenzofuran | 132-64-9 | MKCD9952 | 99% | 1,006.7 | µg/mL | +/- | 36.6251 |
| 45 | 2,4-Dinitrotoluene | 121-14-2 | MKAA0690V | 99% | 1,003.8 | µg/mL | +/- | 36.5220 |
| 46 | 4-Nitrophenol | 100-02-7 | RP230627 | 99% | 1,002.3 | µg/mL | +/- | 36.4674 |
| 47 | 2,3,4,6-Tetrachlorophenol | 58-90-2 | PR-30126 | 99% | 1,008.7 | µg/mL | +/- | 36.6979 |
| 48 | 2,3,5,6-Tetrachlorophenol | 935-95-5 | RP230919 | 99% | 1,006.3 | µg/mL | +/- | 36.6130 |
| 49 | Fluorene | 86-73-7 | 10241100 | 99% | 1,008.3 | µg/mL | +/- | 36.6857 |
| 50 | 4-Chlorophenyl phenyl ether | 7005-72-3 | MKCT7248 | 99% | 1,003.8 | µg/mL | +/- | 36.5220 |
| 51 | Diethylphthalate | 84-66-2 | MKCD2547 | 99% | 1,008.6 | µg/mL | +/- | 36.6958 |
| 52 | 4-Nitroaniline | 100-01-6 | RP230111 | 99% | 1,001.1 | µg/mL | +/- | 36.4230 |
| 53 | 4,6-Dinitro-2-methylphenol (Dinitro-o-cresol) | 534-52-1 | 230718JLM | 99% | 1,002.0 | µg/mL | +/- | 36.4553 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 54 | Diphenylamine | 122-39-4 | MKCH1042 | 99% | 1,002.3 | µg/mL | +/- 36.4674 |
| 55 | Azobenzene | 103-33-3 | BCCK0887 | 99% | 1,005.8 | µg/mL | +/- 36.5928 |
| 56 | 4-Bromophenyl phenyl ether | 101-55-3 | STBH6361 | 99% | 1,003.0 | µg/mL | +/- 36.4917 |
| 57 | Hexachlorobenzene | 118-74-1 | 14821700 | 99% | 1,007.5 | µg/mL | +/- 36.6554 |
| 58 | Pentachlorophenol | 87-86-5 | RP230530RSR | 99% | 1,008.8 | µg/mL | +/- 36.7019 |
| 59 | Phenanthrene | 85-01-8 | MKCQ8876 | 99% | 1,008.4 | µg/mL | +/- 36.6877 |
| 60 | Anthracene | 120-12-7 | MKCR0570 | 99% | 1,009.0 | µg/mL | +/- 36.7100 |
| 61 | Carbazole | 86-74-8 | 14351100 | 99% | 1,000.9 | µg/mL | +/- 36.4149 |
| 62 | Di-n-butylphthalate | 84-74-2 | MKCN4337 | 99% | 1,007.6 | µg/mL | +/- 36.6595 |
| 63 | Fluoranthene | 206-44-0 | MKCQ4728 | 99% | 1,009.6 | µg/mL | +/- 36.7302 |
| 64 | Pyrene | 129-00-0 | BCCG8479 | 98% | 1,007.2 | µg/mL | +/- 36.6453 |
| 65 | Benzyl butyl phthalate | 85-68-7 | X12I018 | 99% | 1,002.1 | µg/mL | +/- 36.4573 |
| 66 | Bis(2-ethylhexyl)adipate | 103-23-1 | MKCM1988 | 99% | 1,005.2 | µg/mL | +/- 36.5705 |
| 67 | Benz(a)anthracene | 56-55-3 | I220012022BAA | 99% | 1,002.2 | µg/mL | +/- 36.4614 |
| 68 | Chrysene | 218-01-9 | RP230601 | 99% | 1,008.3 | µg/mL | +/- 36.6837 |
| 69 | Bis(2-ethylhexyl)phthalate | 117-81-7 | MKCQ3468 | 99% | 1,001.8 | µg/mL | +/- 36.4472 |
| 70 | Di-n-octyl phthalate | 117-84-0 | 14382700 | 99% | 1,006.0 | µg/mL | +/- 36.6008 |
| 71 | Benzo(b)fluoranthene | 205-99-2 | 012013B | 99% | 1,002.8 | µg/mL | +/- 36.4836 |
| 72 | Benzo(k)fluoranthene | 207-08-9 | 012022K | 99% | 1,003.0 | µg/mL | +/- 36.4917 |
| 73 | Benzo(a)pyrene | 50-32-8 | P54915-0703 | 99% | 1,002.3 | µg/mL | +/- 36.4674 |
| 74 | Indeno(1,2,3-cd)pyrene | 193-39-5 | 12-JKL-118-9 | 97% | 1,009.4 | µg/mL | +/- 36.7243 |
| 75 | Dibenz(a,h)anthracene | 53-70-3 | 2-ASA-59-1 | 99% | 1,007.6 | µg/mL | +/- 36.6595 |
| 76 | Benzo(g,h,i)perylene | 191-24-2 | RP231003RSR | 99% | 1,002.9 | µg/mL | +/- 36.4876 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methylene chloride
**CAS #** 75-09-2
**Purity** 99%

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

*chromatographic plus*

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 31087 **Lot No.:** A0206206

**Description :** Acid Surrogate Mix (4/89 SOW)

Acid Surrogate 10, 000µg/mL, Methanol, 5mL/ampul

**Container Size :** 5 mL **Pkg Amt:** > 5 mL

**Expiration Date :** January 31, 2032 **Storage:** 10°C or colder

**Ship:** Ambient

S12187 ↓ S12206 } RC/ 03/18/24

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | 2-Fluorophenol | 367-12-4 | STBK1705 | 99% | 10,005.3 µg/mL | +/- 302.5390 |
| 2 | Phenol-d6 | 13127-88-3 | PR-33287A | 99% | 10,005.5 µg/mL | +/- 302.5475 |
| 3 | 2,4,6-Tribromophenol | 118-79-6 | RP230831RSR | 99% | 10,006.6 µg/mL | +/- 302.5783 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methanol
**CAS #** 67-56-1
**Purity** 99%

# Quality Confirmation Test

**Column:**
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

**Carrier Gas:**
hydrogen-constant pressure 10 psi.

**Temp. Program:**
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

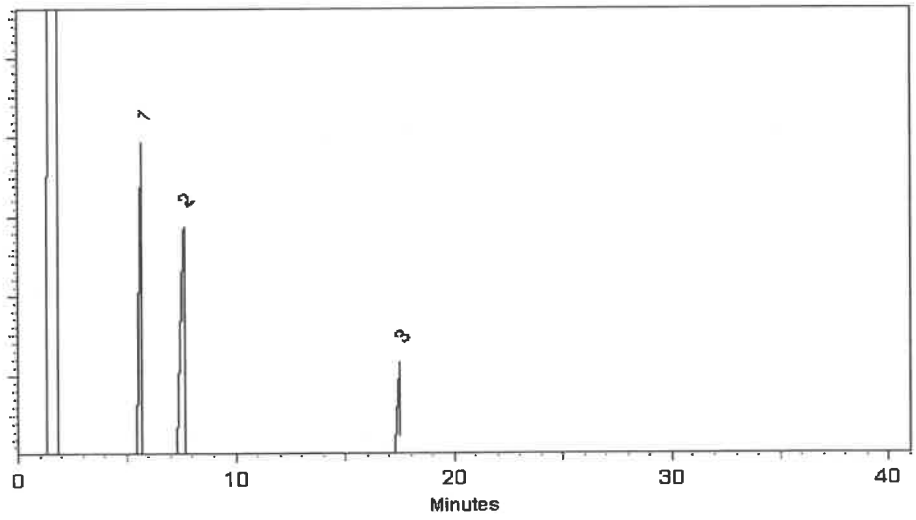
**Inj. Temp:**
250°C

**Det. Temp:**
330°C

**Det. Type:**
FID

**Split Vent:**
2 ml/min.

**Inj. Vol**
1µl




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Penelope Riglin - Operations Tech I

**Date Mixed:** 04-Jan-2024 **Balance Serial #** 1128360905

Christie Mills - Operations Lead Tech - ARM QC

**Date Passed:** 08-Jan-2024

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

*chromatographic plus*

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 31086 **Lot No.:** A0206381

**Description :** B/N Surrogate Mix (4/89 SOW)

Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul

S12207 ↓ S12221 RC/ 03/18/24

**Container Size :** 5 mL **Pkg Amt:** > 5 mL

**Expiration Date :** December 31, 2029 **Storage:** 10°C or colder

**Handling:** Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | Nitrobenzene-d5 | 4165-60-0 | I-25158 | 99% | 5,029.3 µg/mL | +/- 226.5204 |
| 2 | 2-Fluorobiphenyl | 321-60-8 | 00021384 | 99% | 5,030.9 µg/mL | +/- 226.5936 |
| 3 | p-Terphenyl-d14 | 1718-51-0 | PR-32599 | 99% | 5,026.4 µg/mL | +/- 226.3909 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methylene chloride
**CAS #** 75-09-2
**Purity** 99%

**Tech Tips:**
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

# Quality Confirmation Test

**Column:**
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

**Carrier Gas:**
hydrogen-constant pressure 10 psi.

**Temp. Program:**
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

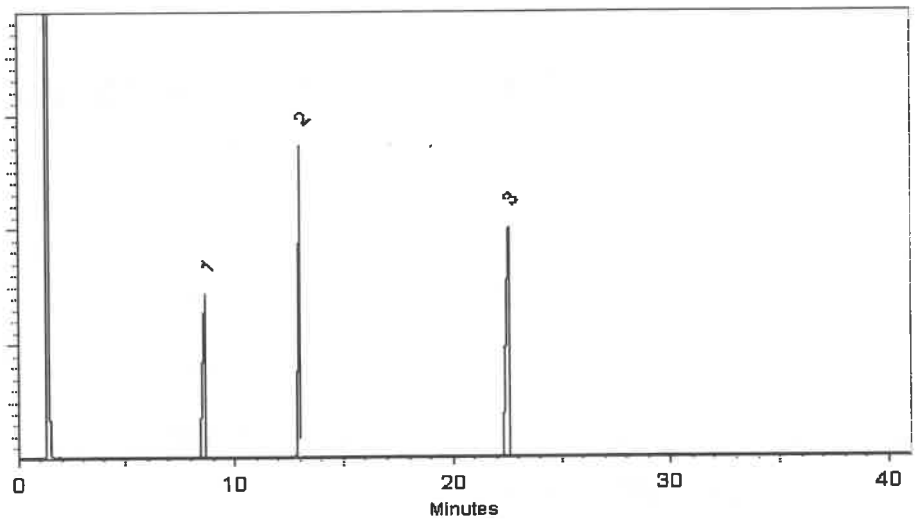
**Inj. Temp:**
250°C

**Det. Temp:**
330°C

**Det. Type:**
FID

**Split Vent:**
2 ml/min.

**Inj. Vol**
1µl




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Jess Hoy - Operations Tech I

**Date Mixed:** 09-Jan-2024 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

**Date Passed:** 11-Jan-2024

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

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CERTIFIED REFERENCE MATERIAL

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ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

# Certificate of Analysis

***chromatographic plus***

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 31086 **Lot No.:** A0206381

**Description :** B/N Surrogate Mix (4/89 SOW)

Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul

S12207 ↓ S12221 RC/ 03/18/24

**Container Size :** 5 mL **Pkg Amt:** > 5 mL

**Expiration Date :** December 31, 2029 **Storage:** 10°C or colder

**Handling:** Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | Nitrobenzene-d5 | 4165-60-0 | I-25158 | 99% | 5,029.3 µg/mL | +/- 226.5204 |
| 2 | 2-Fluorobiphenyl | 321-60-8 | 00021384 | 99% | 5,030.9 µg/mL | +/- 226.5936 |
| 3 | p-Terphenyl-d14 | 1718-51-0 | PR-32599 | 99% | 5,026.4 µg/mL | +/- 226.3909 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methylene chloride
**CAS #** 75-09-2
**Purity** 99%

**Tech Tips:**
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

# Quality Confirmation Test

**Column:**
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

**Carrier Gas:**
hydrogen-constant pressure 10 psi.

**Temp. Program:**
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

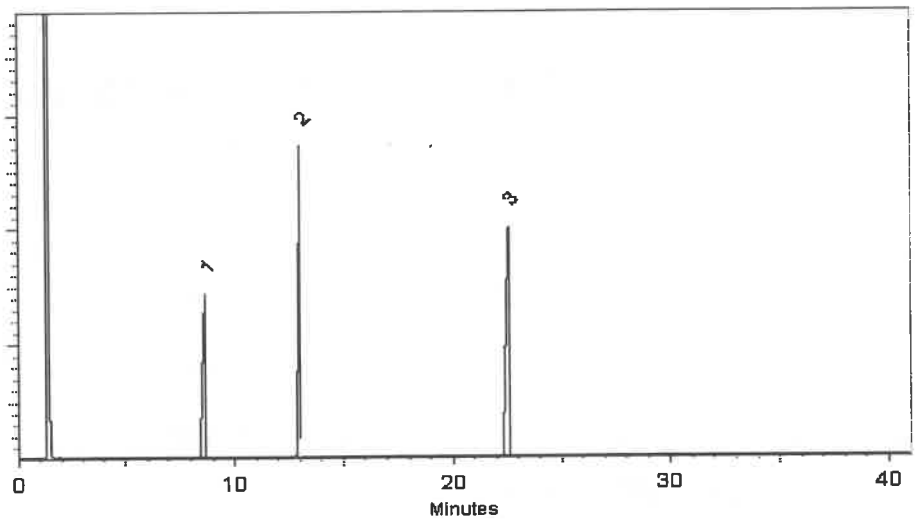
**Inj. Temp:**
250°C

**Det. Temp:**
330°C

**Det. Type:**
FID

**Split Vent:**
2 ml/min.

**Inj. Vol**
1µl




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Jess Hoy - Operations Tech I

**Date Mixed:** 09-Jan-2024 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

**Date Passed:** 11-Jan-2024

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

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# Certificate of Analysis

***chromatographic plus***

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

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S12312 ↓ S12331 } RC/ 05/30/24

**Catalog No. :** 31206 **Lot No.:** A0206540

**Description :** SV Internal Standard Mix 2mg/ml

SV Internal Standard Mix 2mg/ml 2000 µg/ml, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** December 31, 2029 **Storage:** 10°C or colder

**Handling:** Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | 1,4-Dichlorobenzene-d4 | 3855-82-1 | PR-30447 | 99% | 2,007.1 µg/mL | +/- 90.4025 |
| 2 | Naphthalene-d8 | 1146-65-2 | M-2180 | 99% | 2,005.9 µg/mL | +/- 90.3454 |
| 3 | Acenaphthene-d10 | 15067-26-2 | PR-33507 | 99% | 2,007.9 µg/mL | +/- 90.4385 |
| 4 | Phenanthrene-d10 | 1517-22-2 | PR-32303 | 99% | 2,006.7 µg/mL | +/- 90.3845 |
| 5 | Chrysene-d12 | 1719-03-5 | PR-32210 | 99% | 2,015.5 µg/mL | +/- 90.7778 |
| 6 | Perylene-d12 | 1520-96-3 | PR-33205 | 99% | 2,014.7 µg/mL | +/- 90.7448 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methylene chloride
**CAS #** 75-09-2
**Purity** 99%

# Quality Confirmation Test

**Column:**
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

**Carrier Gas:**
hydrogen-constant pressure 10 psi.

**Temp. Program:**
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

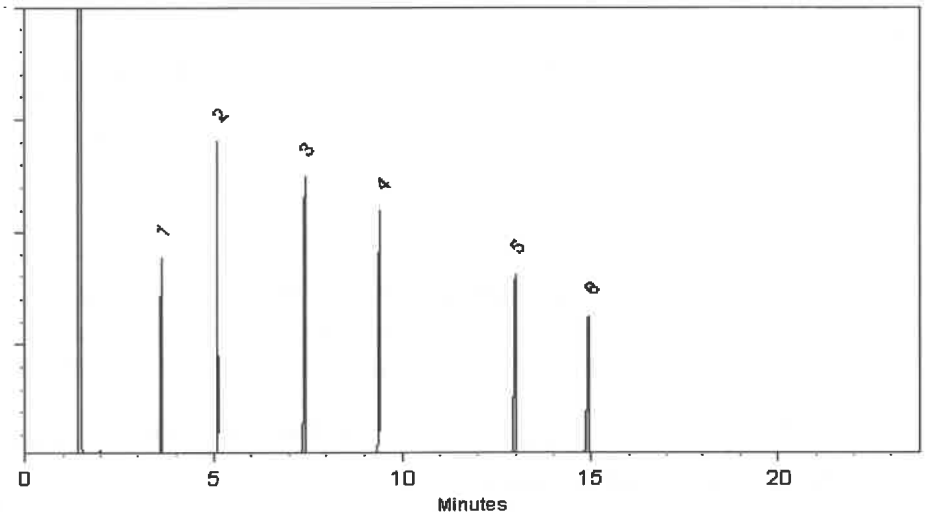
**Inj. Temp:**
250°C

**Det. Temp:**
330°C

**Det. Type:**
FID

**Split Vent:**
10 ml/min.

**Inj. Vol**
1µl




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Malina Homan - Operations Technician I

**Date Mixed:** 12-Jan-2024 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

**Date Passed:** 16-Jan-2024

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

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CERTIFIED REFERENCE MATERIAL

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# Certificate of Analysis

***chromatographic plus***

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*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

S12312 ↓ S12331 } RC/ 05/30/24

**Catalog No. :** 31206 **Lot No.:** A0206540

**Description :** SV Internal Standard Mix 2mg/ml

SV Internal Standard Mix 2mg/ml 2000 µg/ml, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** December 31, 2029 **Storage:** 10°C or colder

**Handling:** Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | 1,4-Dichlorobenzene-d4 | 3855-82-1 | PR-30447 | 99% | 2,007.1 µg/mL | +/- 90.4025 |
| 2 | Naphthalene-d8 | 1146-65-2 | M-2180 | 99% | 2,005.9 µg/mL | +/- 90.3454 |
| 3 | Acenaphthene-d10 | 15067-26-2 | PR-33507 | 99% | 2,007.9 µg/mL | +/- 90.4385 |
| 4 | Phenanthrene-d10 | 1517-22-2 | PR-32303 | 99% | 2,006.7 µg/mL | +/- 90.3845 |
| 5 | Chrysene-d12 | 1719-03-5 | PR-32210 | 99% | 2,015.5 µg/mL | +/- 90.7778 |
| 6 | Perylene-d12 | 1520-96-3 | PR-33205 | 99% | 2,014.7 µg/mL | +/- 90.7448 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methylene chloride
**CAS #** 75-09-2
**Purity** 99%

# Quality Confirmation Test

**Column:**
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

**Carrier Gas:**
hydrogen-constant pressure 10 psi.

**Temp. Program:**
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

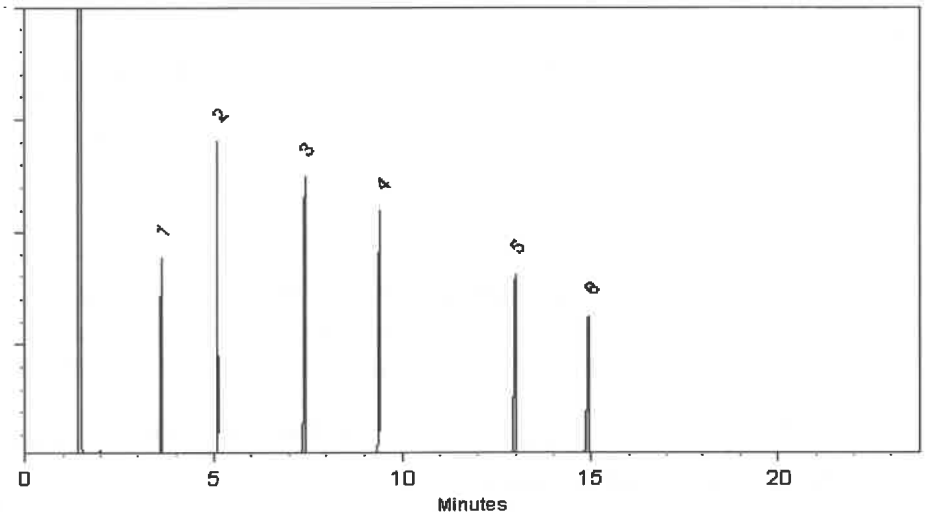
**Inj. Temp:**
250°C

**Det. Temp:**
330°C

**Det. Type:**
FID

**Split Vent:**
10 ml/min.

**Inj. Vol**
1µl




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Malina Homan - Operations Technician I

**Date Mixed:** 12-Jan-2024 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

**Date Passed:** 16-Jan-2024

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

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# CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

*gravimetric*

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 555223 **Lot No.:** A0214021

**Description :** Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** July 31, 2026 **Storage:** 10°C or colder

**Handling:** This product is photosensitive. **Ship:** Ambient

**CERTIFIED VALUES**

| Component # | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | 3,3'-Dichlorobenzidine | 91-94-1 | S240326RSR | 99% | 1,004.0 µg/mL | +/- 23.0487 |
| 2 | Atrazine | 1912-24-9 | 5FYWL | 99% | 1,005.0 µg/mL | +/- 23.0717 |
| 3 | Benzidine | 92-87-5 | S240430RSR | 99% | 1,006.0 µg/mL | +/- 23.0947 |
| 4 | epsilon-Caprolactam | 105-60-2 | Y16H012 | 99% | 1,000.0 µg/mL | +/- 22.9569 |

**Solvent:** Methylene chloride
**CAS #** 75-09-2
**Purity** 99%

S12449 ↓ S12508 RC 7/24/24

Rebecca Gingerich - Operations Tech II

**Date Mixed:** 18-Jul-2024 **Balance:** 1128353505

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  $k$ is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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# CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

*gravimetric*

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ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 555223 **Lot No.:** A0214021

**Description :** Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** July 31, 2026 **Storage:** 10°C or colder

**Handling:** This product is photosensitive. **Ship:** Ambient

**CERTIFIED VALUES**

| Component # | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | 3,3'-Dichlorobenzidine | 91-94-1 | S240326RSR | 99% | 1,004.0 µg/mL | +/- 23.0487 |
| 2 | Atrazine | 1912-24-9 | 5FYWL | 99% | 1,005.0 µg/mL | +/- 23.0717 |
| 3 | Benzidine | 92-87-5 | S240430RSR | 99% | 1,006.0 µg/mL | +/- 23.0947 |
| 4 | epsilon-Caprolactam | 105-60-2 | Y16H012 | 99% | 1,000.0 µg/mL | +/- 22.9569 |

**Solvent:** Methylene chloride
**CAS #** 75-09-2
**Purity** 99%

S12449 ↓ S12508 RC 7/24/24

Rebecca Gingerich - Operations Tech II

**Date Mixed:** 18-Jul-2024 **Balance:** 1128353505

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  $k$ is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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# Certificate of Analysis

*gravimetric*

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 555224 **Lot No.:** A0214017

**Description :** Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** July 31, 2026 **Storage:** 10°C or colder

**Ship:** Ambient

CERTIFIED VALUES

| Component # | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | 1,2,4,5-Tetrachlorobenzene | 95-94-3 | MKCT9480 | 99% | 1,005.0 µg/mL | +/- 29.541899 |
| 2 | Acetophenone | 98-86-2 | STBH8205 | 99% | 1,005.0 µg/mL | +/- 29.541899 |
| 3 | Benzaldehyde | 100-52-7 | RD231129RSRA | 99% | 1,008.0 µg/mL | +/- 29.630084 |
| 4 | Benzoic acid | 65-85-0 | MKCR2694 | 99% | 1,010.0 µg/mL | +/- 29.688874 |
| 5 | Biphenyl | 92-52-4 | MKCS5928 | 99% | 1,008.0 µg/mL | +/- 29.630084 |

**Solvent:** Methylene chloride
**CAS #** 75-09-2
**Purity** 99%

S12509 ↓ S12568 } RC/ 7/24/24

Jess Hoy - Operations Tech I

**Date Mixed:** 18-Jul-2024 **Balance:** 1128360905

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  $k$ is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

# SHIPPING DOCUMENTS

# CHEMTECH
## CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO. P5376
QUOTE NO.
COC Number 2041990

### CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: RESOLUTION
ADDRESS:
CITY STATE: ZIP:
ATTENTION: ELEANOR VIVAUDOU
PHONE: FAX:

### CLIENT PROJECT INFORMATION

PROJECT NAME: RESOLUTION NWIRP BETHPAGE
PROJECT NO.: 60731872 LOCATION: BETHPAGE
PROJECT MANAGER: E. VIVAUDOU
e-mail: ELEANOR.VIVAUDOU@AECOM.COM
PHONE: FAX:

### CLIENT BILLING INFORMATION

BILL TO: E. VIVAUDOU PO#:
ADDRESS: 27 ELLIS PLACE
CITY OSSINING STATE: NY ZIP: 10563
ATTENTION: E. VIVAUDOU PHONE:

### DATA TURNAROUND INFORMATION

FAX (RUSH) DAYS*
HARDCOPY (DATA PACKAGE): DAYS*
EDD: STANDARD DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS

### DATA DELIVERABLE INFORMATION

- ☐ Level 1 (Results Only)
- ☐ Level 2 (Results + QC)
- ☐ Level 3 (Results + QC + Raw Data)
- ☐ Level 4 (QC + Full Raw Data)
- ☐ NJ Reduced
- ☐ NYS ASP A
- ☐ NYS ASP B
- ☐ US EPA CLP
- ☐ Other
- ☒ EDD FORMAT: NJSDEC EDD CAT B

### ANALYSIS

VOCs 8260
1,4 DIOXANE SIM 8270

### PRESERVATIVES

A/E | E

### COMMENTS

← Specify Preservatives
A-HCl D-NaOH
B-HNO3 E-ICE
C-H2SO4 F-OTHER

| | CHEMTECH SAMPLE ID | PROJECT SAMPLE IDENTIFICATION | SAMPLE MATRIX | SAMPLE TYPE COMP | SAMPLE TYPE GRAB | SAMPLE COLLECTION DATE | SAMPLE COLLECTION TIME | # OF BOTTLES | A/E 1 | E 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. | | TT205SI-20241218 | GW | | X | 12/18/24 | 0920 | 3 | 2 | 1 | | | | | | | | |
| 2. | | TT150SI-20241218 | GW | | X | | 1000 | 3 | 2 | 1 | | | | | | | | |
| 3. | | RE115D2-20241218 | GW | | X | | 1010 | 3 | 2 | 1 | | | | | | | | |
| 4. | | TT149SI-20241218 | GW | | X | | 0955 | 3 | 2 | 1 | | | | | | | | |
| 5. | | DUP-07-20241218 | GW | | X | | — | 3 | 2 | 1 | | | | | | | | |
| 6. | | TT174II-20241218 | GW | | X | | 1215 | 3 | 2 | 1 | | | | | | | | |
| 7. | | RW10-MW01S-20241218 | GW | | X | | 0920 | 9 | 6 | 3 | | | | | | | | MS/MSD |
| 8. | | RW10-MW01D-20241218 | GW | | X | | 0925 | 3 | 2 | 1 | | | | | | | | |
| 9. | | RW10A-MW01S-20241218 | GW | | X | | 1105 | 3 | 2 | 1 | | | | | | | | |
| 10. | | RW10A-MW01I-20241218 | GW | | X | | 1045 | 3 | 2 | 1 | | | | | | | | |

### SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

| RELINQUISHED BY SAMPLER: | DATE/TIME: | RECEIVED BY: |
|---|---|---|
| 1. | 12/20/24 | 1. 12-20-24 1450 |
| 2. | DATE/TIME: | 2. |
| 3. | DATE/TIME: 1810 12-20-2024 | RECEIVED BY: |

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☒ COOLER TEMP 3.0 °C
Comments:

Page 1 of 2

CLIENT: ☐ Hand Delivered ☐ Other
CHEMTECH: ☐ Picked Up ☐ Field Sampling

Shipment Complete ☐ YES ☐ NO

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WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY

# CHEMTECH
## CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO. P5376
QUOTE NO.
COC Number 2041991

### CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: RESOLUTION
ADDRESS:
CITY STATE: ZIP:
ATTENTION: ELEANOR VIVAUDOU
PHONE: FAX:

### CLIENT PROJECT INFORMATION

PROJECT NAME: NWIRP BETHPAGE
PROJECT NO.: 60731872 LOCATION:
PROJECT MANAGER: E. VIVAUDOU
e-mail: ELEANOR.VIVAUDOU@AECOM.COM
PHONE: FAX:

### CLIENT BILLING INFORMATION

BILL TO: E. VIVAUDOU PO#:
ADDRESS: 27 ELLIS PLACE
CITY OSSINING STATE: NY ZIP: 10562
ATTENTION: E. VIVAUDOU PHONE:

### DATA TURNAROUND INFORMATION

FAX (RUSH) DAYS*
HARDCOPY (DATA PACKAGE): DAYS*
EDD: STANDARD DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS

### DATA DELIVERABLE INFORMATION

❑ Level 1 (Results Only) ❑ Level 4 (QC + Full Raw Data)
❑ Level 2 (Results + QC) ❑ NJ Reduced ❑ US EPA CLP
❑ Level 3 (Results + QC + Raw Data) ❑ NYS ASP A ❑ NYS ASP B
❑ Other
✓ EDD FORMAT NYSDEC EDD CAT B

### ANALYSIS

1 VOCs 8260
2 1,4-DIOXANE SIM 8270
3
4
5
6
7
8
9

| CHEMTECH SAMPLE ID | PROJECT SAMPLE IDENTIFICATION | SAMPLE MATRIX | SAMPLE TYPE COMP | SAMPLE TYPE GRAB | SAMPLE COLLECTION DATE | SAMPLE COLLECTION TIME | # OF BOTTLES | PRESERVATIVES 1 | PRESERVATIVES 2 | PRESERVATIVES 3 | PRESERVATIVES 4 | PRESERVATIVES 5 | PRESERVATIVES 6 | PRESERVATIVES 7 | PRESERVATIVES 8 | PRESERVATIVES 9 | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | A/K | K | | | | | | | | ← Specify Preservatives |
| | | | | | | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A-HCl D-NaOH B-HN03 E-ICE C-H2SO4 F-OTHER |
| 1. | RE117D2-20241218 | GW | | X | 12/18/24 | 1220 | 3 | 2 | 1 | | | | | | | | |
| 2. | TT161SI-20241219 | GW | | X | 12/19/24 | 0850 | 3 | 2 | 1 | | | | | | | | |
| 3. | TT162SI-20241219 | GW | | X | | 1015 | 3 | 2 | 1 | | | | | | | | |
| 4. | RW11-MW01S-20241219 | GW | | X | | 0880 | 3 | 2 | 1 | | | | | | | | |
| 5. | RW11-MW01I-20241219 | GW | | X | | 0847 | 3 | 2 | 1 | | | | | | | | |
| 6. | TT119SI-20241219 | GW | | X | | 0835 | 3 | 2 | 1 | | | | | | | | |
| 7. | TT188SI-20241219 | GW | | X | | 0850 | 3 | 2 | 1 | | | | | | | | |
| 8. | FB03-20241219 | DW | | X | | 1100 | 3 | 2 | 1 | | | | | | | | |
| 9. | TB | DW | | X | 10-5-24 | — | 2 | 2 | | | | | | | | | |
| 10. | | | | | | | | | | | | | | | | | |

### SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

| RELINQUISHED BY SAMPLER: | DATE/TIME: | RECEIVED BY: |
|---|---|---|
| 1. | 12-2024 | 1. 12.20.20 1450 |
| RELINQUISHED BY SAMPLER: | DATE/TIME: | RECEIVED BY: |
| 2. | | 2. |
| RELINQUISHED BY SAMPLER: | DATE/TIME: 1810 | RECEIVED BY: |
| 3. | 12-20-2024 | |

Conditions of bottles or coolers at receipt: ❑ COMPLIANT ❑ NON COMPLIANT ✓ COOLER TEMP 3.8 °C
Comments:

Page 1 of 2

CLIENT: ❑ Hand Delivered ❑ Other
CHEMTECH: ❑ Picked Up ❑ Field Sampling

Shipment Complete ❑ YES ❑ NO

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY

# Laboratory Certification

| Certified By | License No. |
|---|---|
| CAS EPA CLP Contract | 68HERH20D0011 |
| Connecticut | PH-0830 |
| DOD ELAP (ANAB) | L2219 |
| Maine | 2024021 |
| Maryland | 296 |
| New Hampshire | 255424 Rev 1 |
| New Jersey | 20012 |
| New York | 11376 |
| Pennsylvania | 68-00548 |
| Soil Permit | 525-24-234-08441 |
| Texas | T104704488 |

Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035350.D
Acq On : 27 Nov 2024 15:34
Operator : RC/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.1

Quant Time: Nov 27 22:52:09 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration

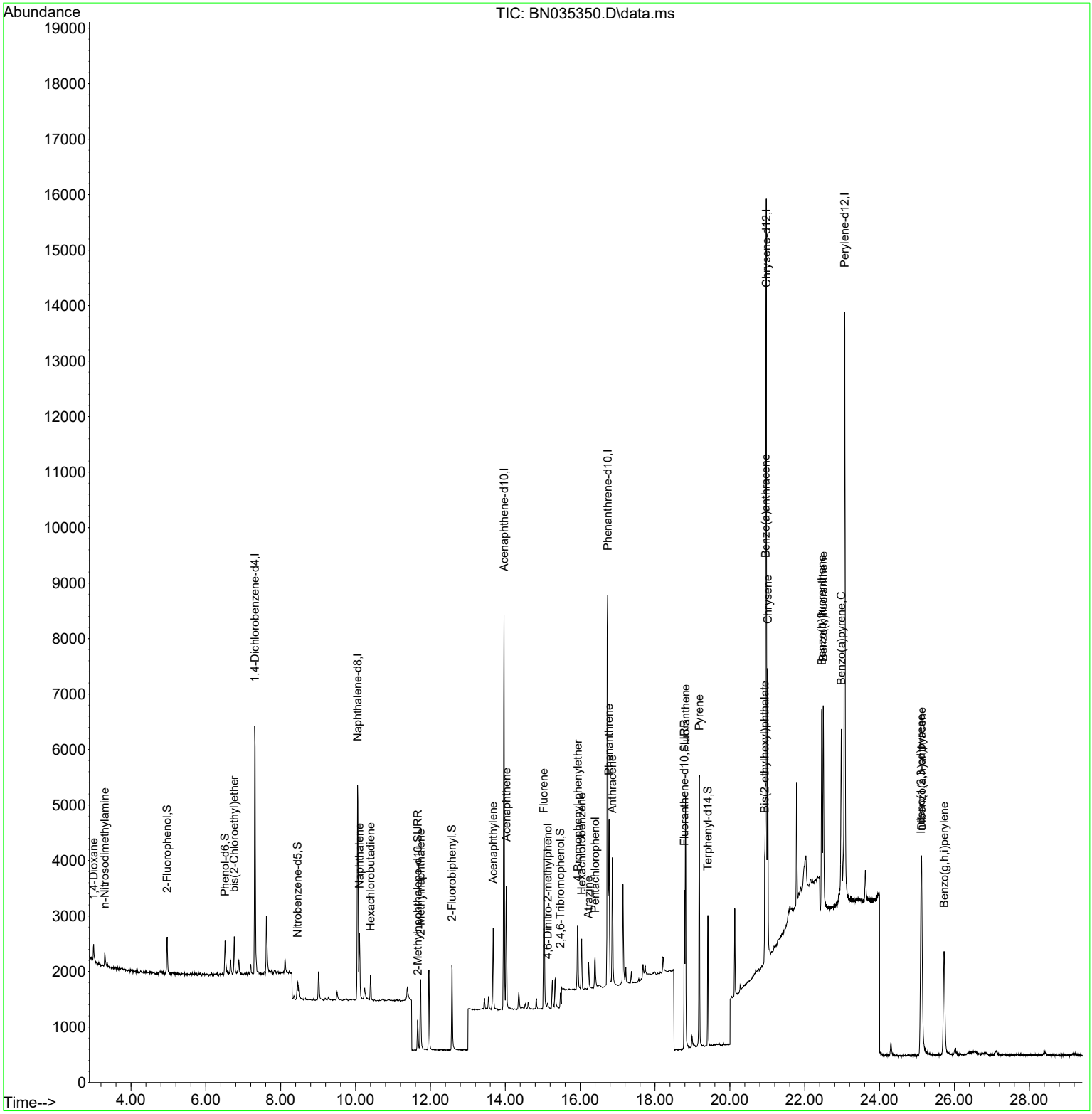
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.308 | 152 | 2237 | 0.400 | ng | | 0.00 |
| 7) Naphthalene-d8 | 10.052 | 136 | 5753 | 0.400 | ng | | 0.00 |
| 13) Acenaphthene-d10 | 13.967 | 164 | 4077 | 0.400 | ng | | 0.00 |
| 19) Phenanthrene-d10 | 16.736 | 188 | 10855 | 0.400 | ng | | 0.00 |
| 29) Chrysene-d12 | 20.974 | 240 | 11269 | 0.400 | ng | | 0.00 |
| 35) Perylene-d12 | 23.067 | 264 | 13004 | 0.400 | ng | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 4) 2-Fluorophenol | 4.968 | 112 | 573 | 0.101 | ng | | 0.00 |
| 5) Phenol-d6 | 6.513 | 99 | 686 | 0.096 | ng | | 0.00 |
| 8) Nitrobenzene-d5 | 8.450 | 82 | 492 | 0.098 | ng | | 0.01 |
| 11) 2-Methylnaphthalene-d10 | 11.661 | 152 | 850 | 0.083 | ng | | 0.00 |
| 14) 2,4,6-Tribromophenol | 15.475 | 330 | 278 | 0.095 | ng | | 0.00 |
| 15) 2-Fluorobiphenyl | 12.574 | 172 | 1518 | 0.092 | ng | | 0.00 |
| 27) Fluoranthene-d10 | 18.785 | 212 | 3265 | 0.098 | ng | | 0.00 |
| 31) Terphenyl-d14 | 19.412 | 244 | 2344 | 0.099 | ng | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.003 | 88 | 227 | 0.112 | ng | # | 87 |
| 3) n-Nitrosodimethylamine | 3.299 | 42 | 187 | 0.099 | ng | # | 90 |
| 6) bis(2-Chloroethyl)ether | 6.759 | 93 | 579 | 0.108 | ng | | 98 |
| 9) Naphthalene | 10.105 | 128 | 1527 | 0.102 | ng | # | 91 |
| 10) Hexachlorobutadiene | 10.404 | 225 | 352 | 0.080 | ng | # | 97 |
| 12) 2-Methylnaphthalene | 11.737 | 142 | 1042 | 0.094 | ng | | 96 |
| 16) Acenaphthylene | 13.679 | 152 | 1675 | 0.096 | ng | | 100 |
| 17) Acenaphthene | 14.031 | 154 | 1143 | 0.100 | ng | | 99 |
| 18) Fluorene | 15.026 | 166 | 1620 | 0.096 | ng | | 98 |
| 20) 4,6-Dinitro-2-methylph... | 15.133 | 198 | 103 | 0.046 | ng | # | 29 |
| 21) 4-Bromophenyl-phenylether | 15.941 | 248 | 612 | 0.088 | ng | # | 94 |
| 22) Hexachlorobenzene | 16.041 | 284 | 720 | 0.100 | ng | | 97 |
| 23) Atrazine | 16.227 | 200 | 421 | 0.068 | ng | # | 86 |
| 24) Pentachlorophenol | 16.401 | 266 | 381 | 0.114 | ng | | 90 |
| 25) Phenanthrene | 16.773 | 178 | 2963 | 0.104 | ng | | 99 |
| 26) Anthracene | 16.860 | 178 | 2617 | 0.100 | ng | | 98 |
| 28) Fluoranthene | 18.817 | 202 | 4173 | 0.106 | ng | | 99 |
| 30) Pyrene | 19.184 | 202 | 4461 | 0.119 | ng | | 100 |
| 32) Benzo(a)anthracene | 20.956 | 228 | 4031 | 0.103 | ng | | 99 |
| 33) Chrysene | 21.010 | 228 | 4123 | 0.106 | ng | | 97 |
| 34) Bis(2-ethylhexyl)phtha... | 20.929 | 149 | 1999 | 0.097 | ng | | 99 |
| 36) Indeno(1,2,3-cd)pyrene | 25.105 | 276 | 4586 | 0.088 | ng | | 97 |
| 37) Benzo(b)fluoranthene | 22.456 | 252 | 4243 | 0.097 | ng | # | 82 |
| 38) Benzo(k)fluoranthene | 22.494 | 252 | 4378 | 0.100 | ng | # | 80 |
| 39) Benzo(a)pyrene | 22.977 | 252 | 3913 | 0.102 | ng | # | 69 |
| 40) Dibenzo(a,h)anthracene | 25.126 | 278 | 3588 | 0.087 | ng | # | 86 |
| 41) Benzo(g,h,i)perylene | 25.725 | 276 | 3863 | 0.088 | ng | # | 93 |

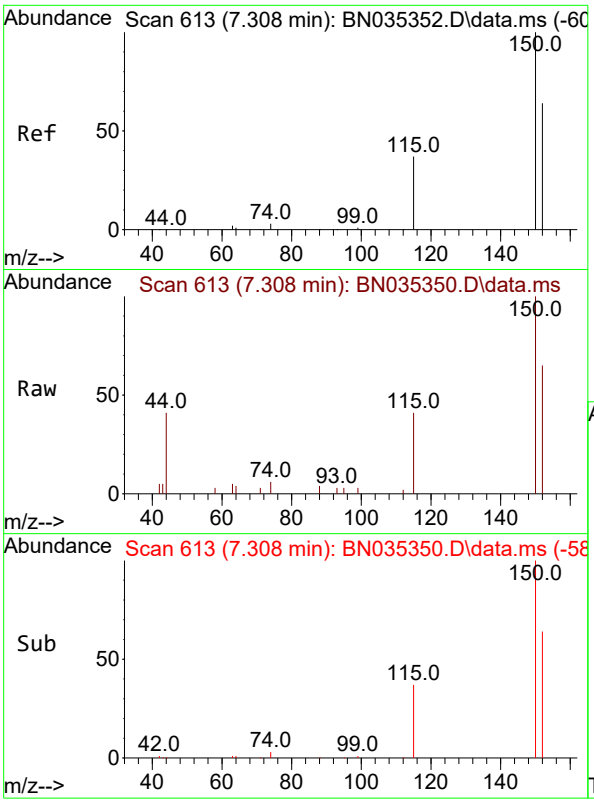
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035350.D
Acq On : 27 Nov 2024 15:34
Operator : RC/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.1

Quant Time: Nov 27 22:52:09 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration



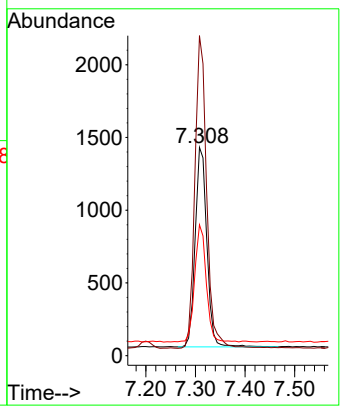


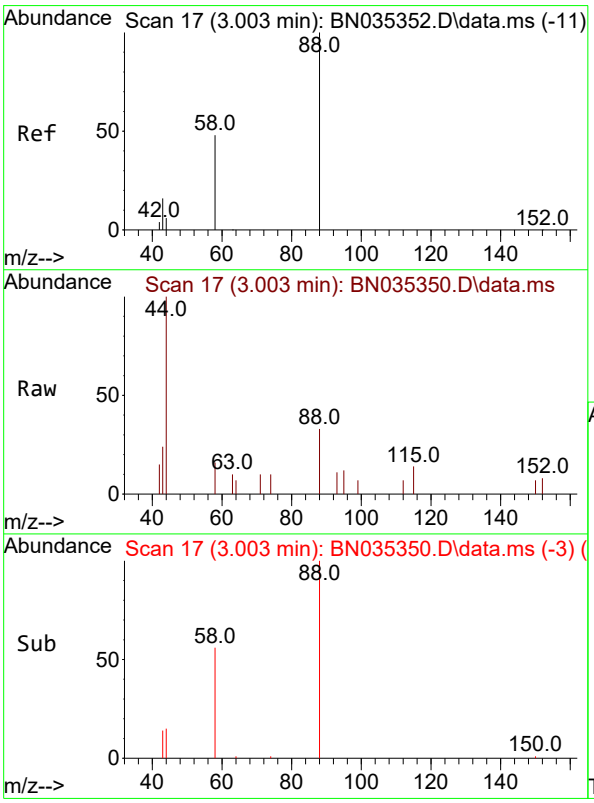

#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.1

Tgt Ion:152 Resp: 2237

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 153.6 | 124.0 | 186.0 |
| 115 | 62.8 | 49.6 | 74.4 |

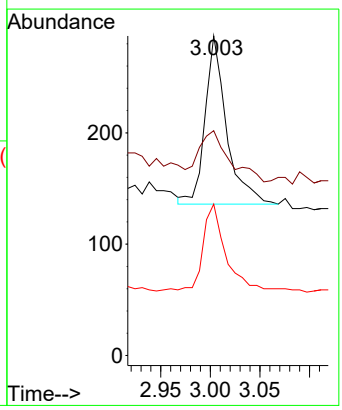


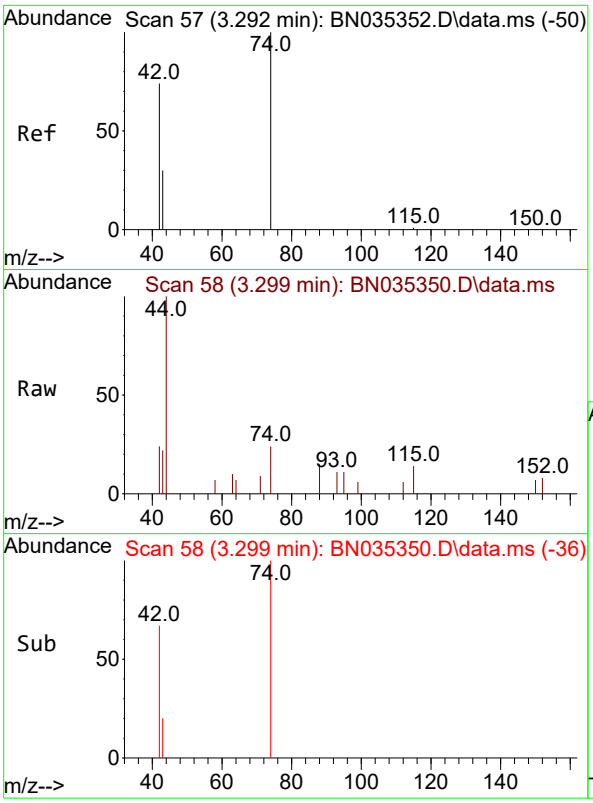




#2
1,4-Dioxane
Concen: 0.112 ng
RT: 3.003 min Scan# 17
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion: 88 Resp: 227

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 41.4 | 17.2 | 25.8# |
| 58 | 54.6 | 44.5 | 66.7 |



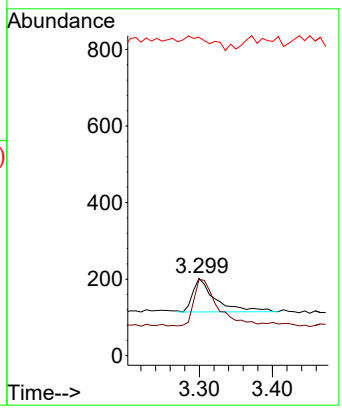


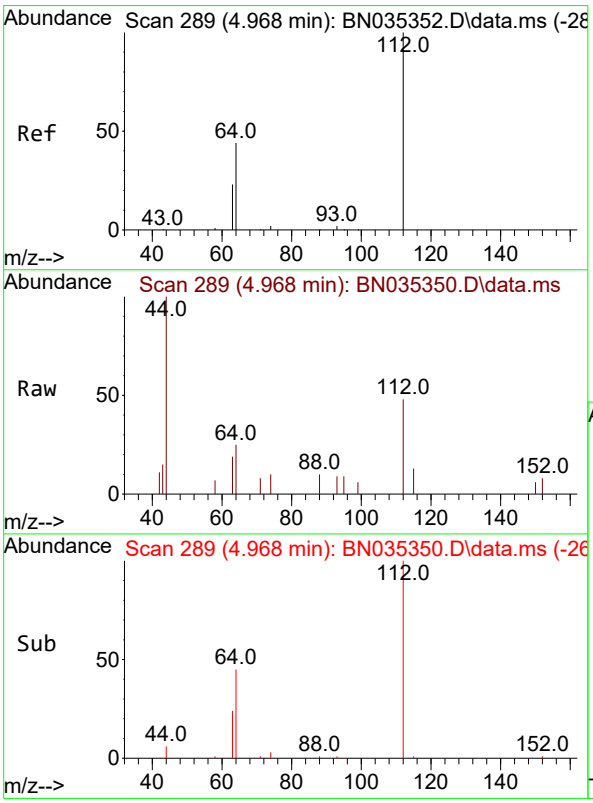

#3
n-Nitrosodimethylamine
Concen: 0.099 ng
RT: 3.299 min Scan# 5
Delta R.T. 0.007 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.1

Tgt Ion: 42 Resp: 187

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 146.5 | 124.9 | 187.3 |
| 44 | 51.9 | 2.2 | 3.4# |

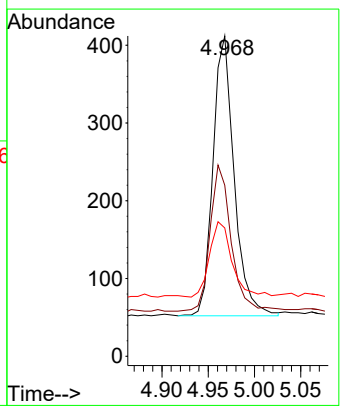


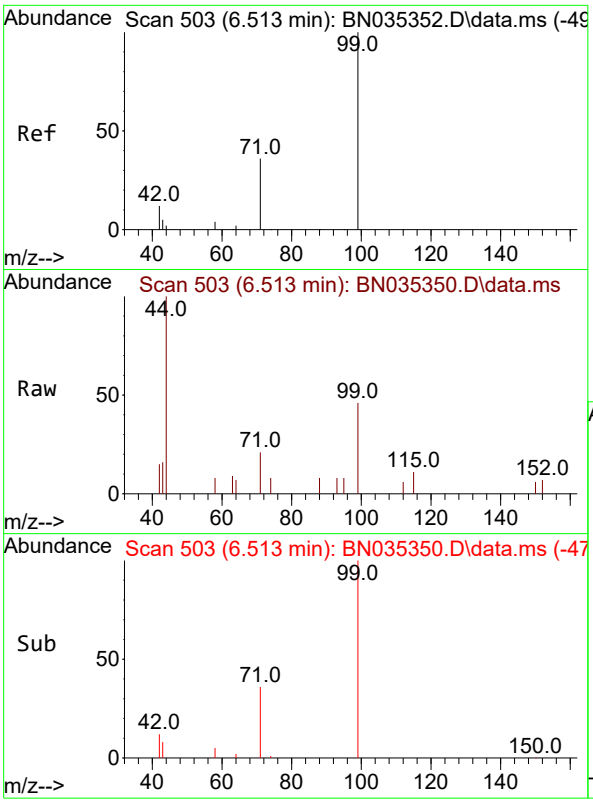




#4
2-Fluorophenol
Concen: 0.101 ng
RT: 4.968 min Scan# 289
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:112 Resp: 573

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 52.0 | 39.8 | 59.8 |
| 63 | 28.8 | 21.0 | 31.6 |



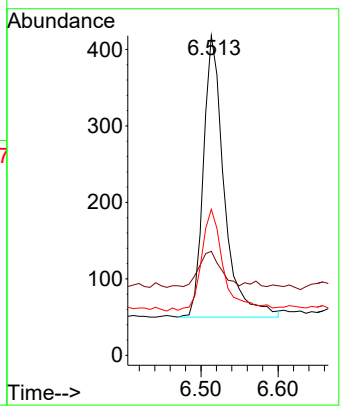


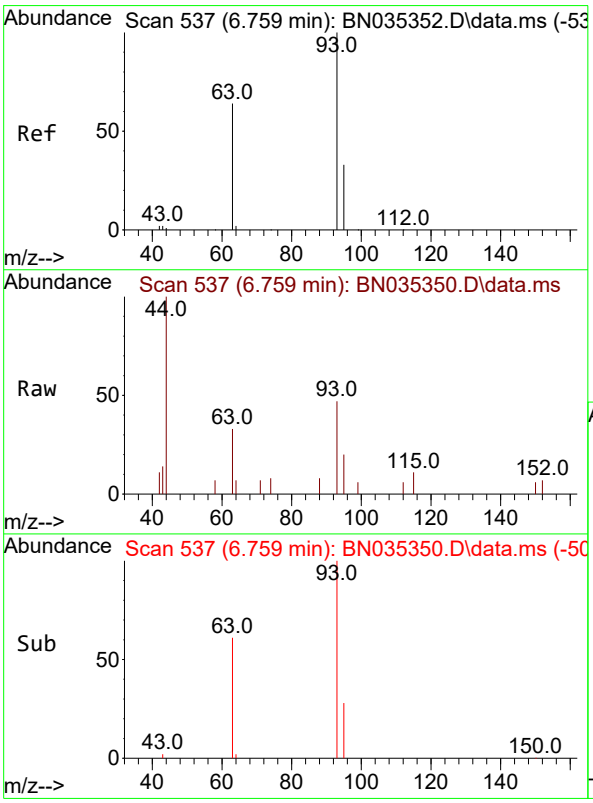

#5
Phenol-d6
Concen: 0.096 ng
RT: 6.513 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.1

Tgt Ion: 99 Resp: 686

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 13.7 | 11.4 | 17.2 |
| 71 | 38.9 | 29.3 | 43.9 |

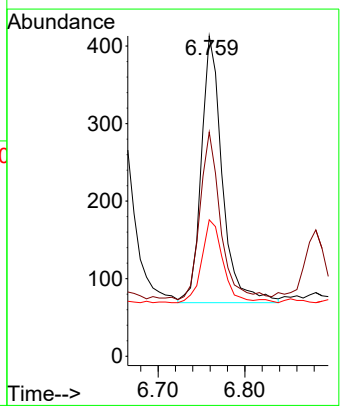


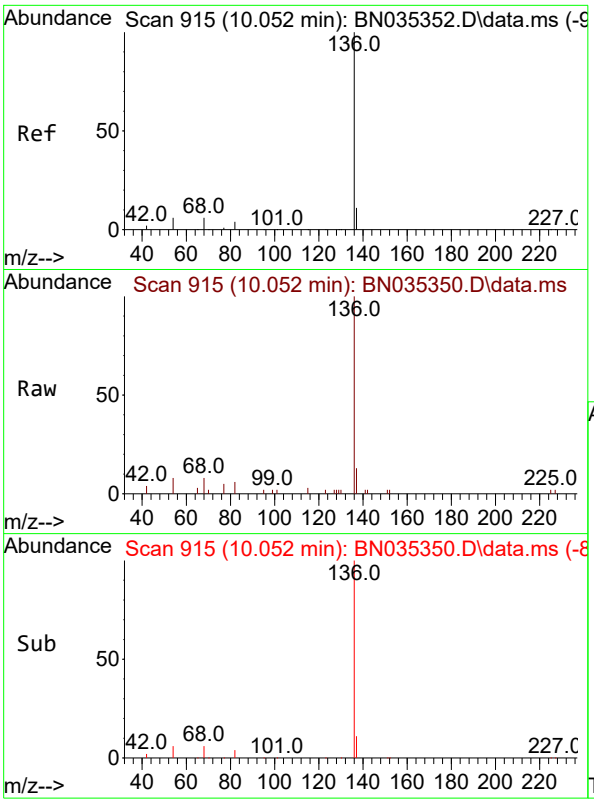




#6
bis(2-Chloroethyl)ether
Concen: 0.108 ng
RT: 6.759 min Scan# 537
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion: 93 Resp: 579

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 61.7 | 50.4 | 75.6 |
| 95 | 31.3 | 25.7 | 38.5 |



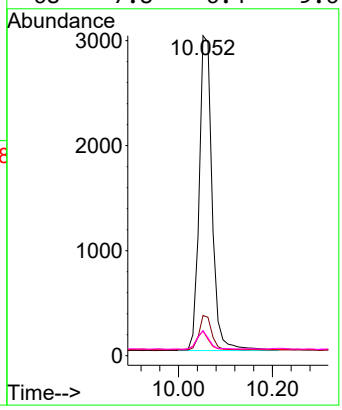


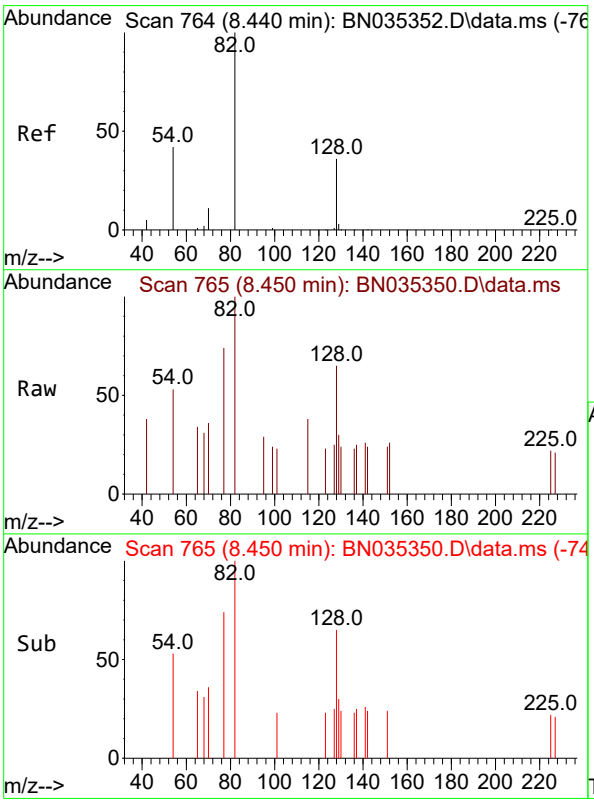

#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.1

Tgt Ion:136 Resp: 5753

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 12.6 | 10.2 | 15.2 |
| 54 | 7.7 | 6.1 | 9.1 |
| 68 | 7.8 | 6.4 | 9.6 |

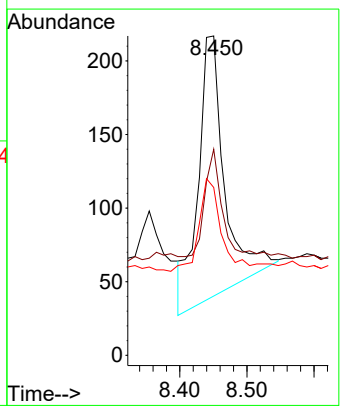


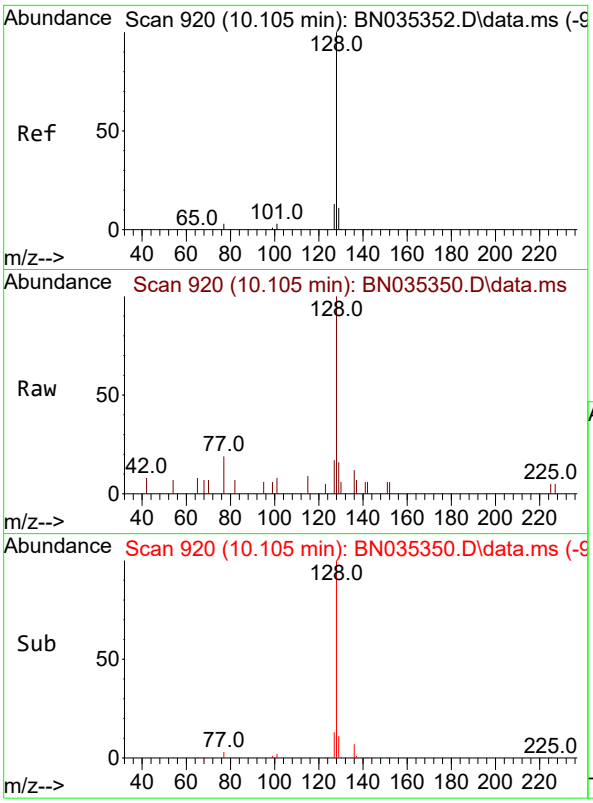




#8
Nitrobenzene-d5
Concen: 0.098 ng
RT: 8.450 min Scan# 765
Delta R.T. 0.011 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion: 82 Resp: 492

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 64.5 | 33.4 | 50.0# |
| 54 | 52.5 | 36.7 | 55.1 |



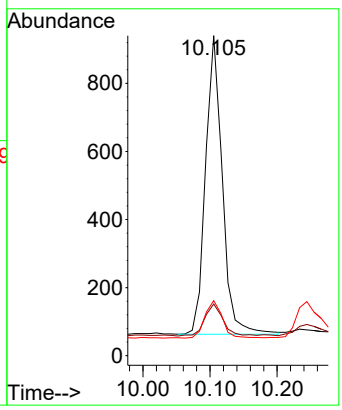


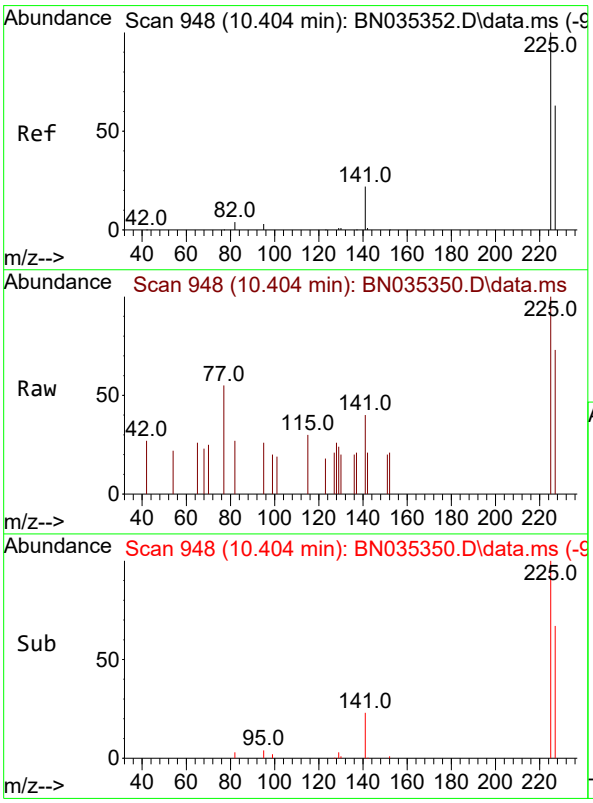

#9
Naphthalene
Concen: 0.102 ng
RT: 10.105 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.1

Tgt Ion:128 Resp: 1527

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 16.2 | 9.8 | 14.6# |
| 127 | 17.2 | 11.4 | 17.2# |

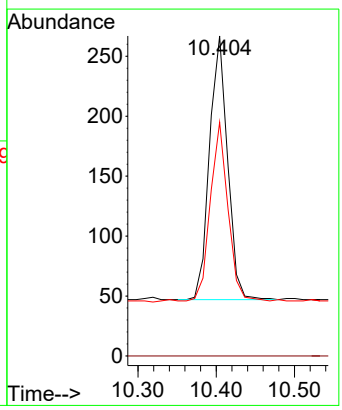


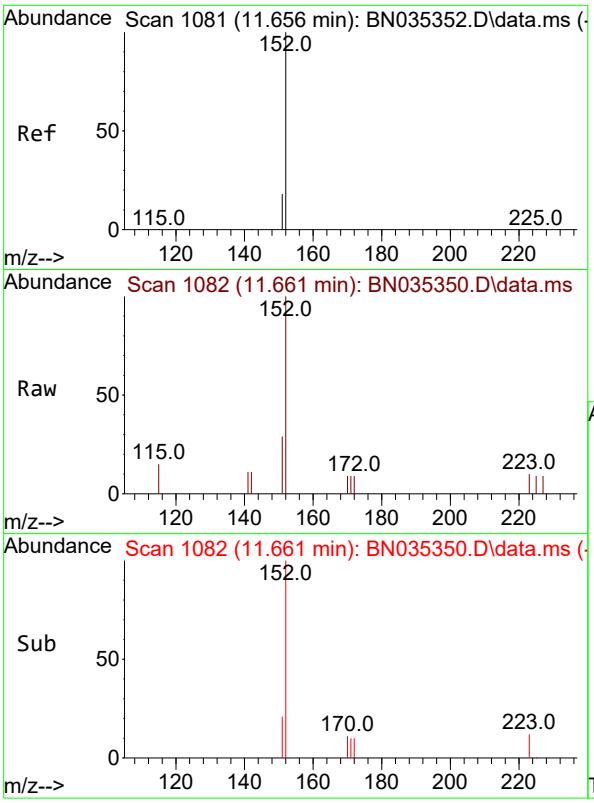




#10
Hexachlorobutadiene
Concen: 0.080 ng
RT: 10.404 min Scan# 948
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:225 Resp: 352

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 0.0 | 0.0 | 0.0 |
| 227 | 66.2 | 51.3 | 76.9 |



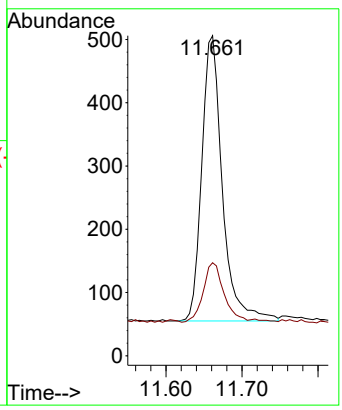


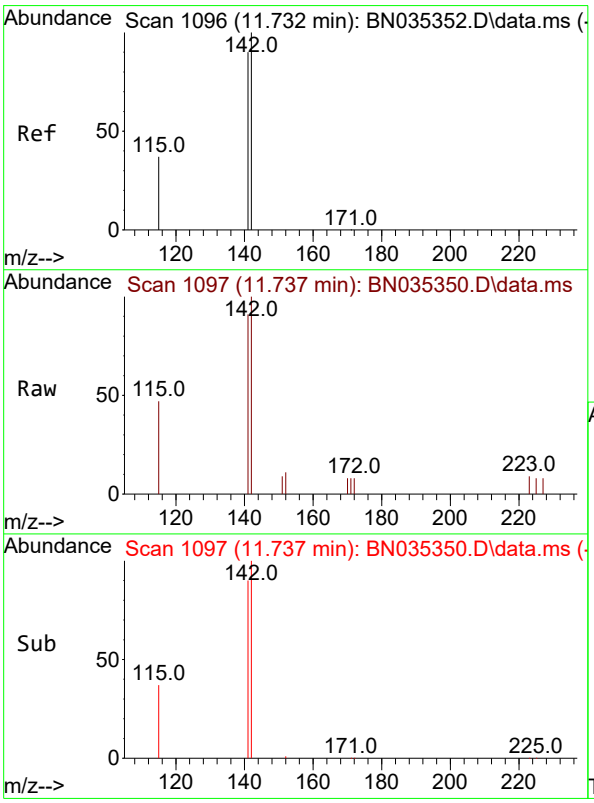

#11
2-Methylnaphthalene-d10
Concen: 0.083 ng
RT: 11.661 min Scan# 1
Delta R.T. 0.005 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.1

Tgt Ion:152 Resp: 850

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 21.1 | 16.6 | 25.0 |

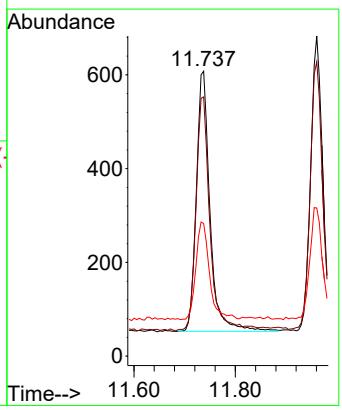


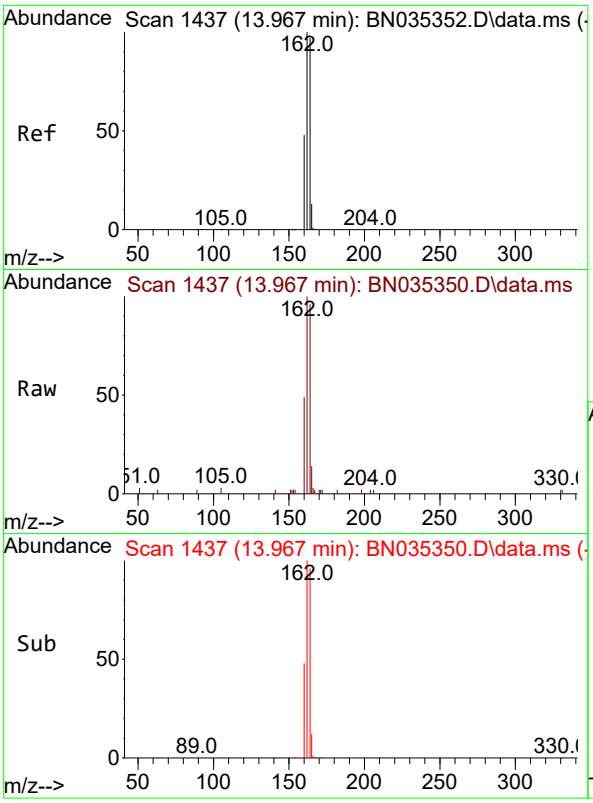




#12
2-Methylnaphthalene
Concen: 0.094 ng
RT: 11.737 min Scan# 1097
Delta R.T. 0.005 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:142 Resp: 1042

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 91.0 | 72.2 | 108.4 |
| 115 | 46.5 | 31.4 | 47.0 |



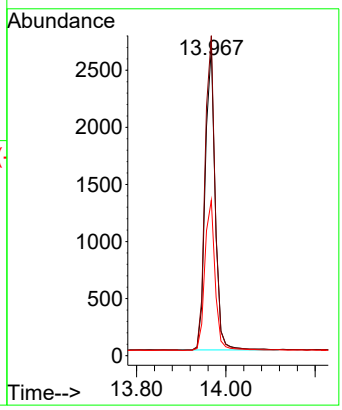


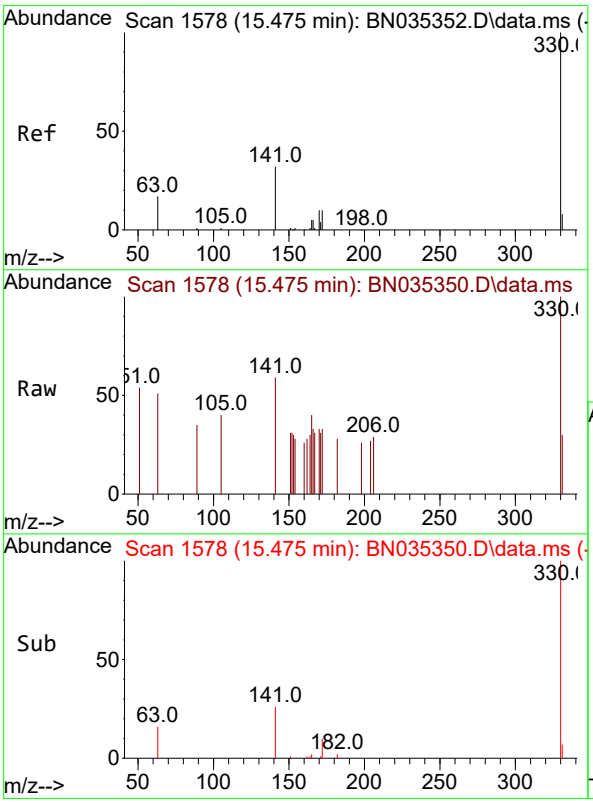

#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.1

Tgt Ion:164 Resp: 4077

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 103.9 | 82.2 | 123.2 |
| 160 | 50.4 | 40.1 | 60.1 |

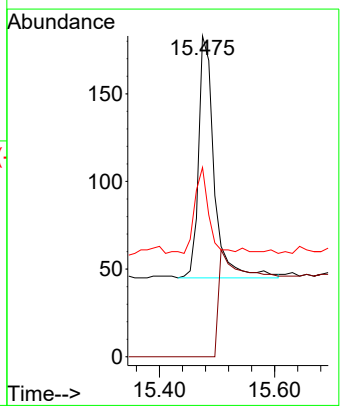


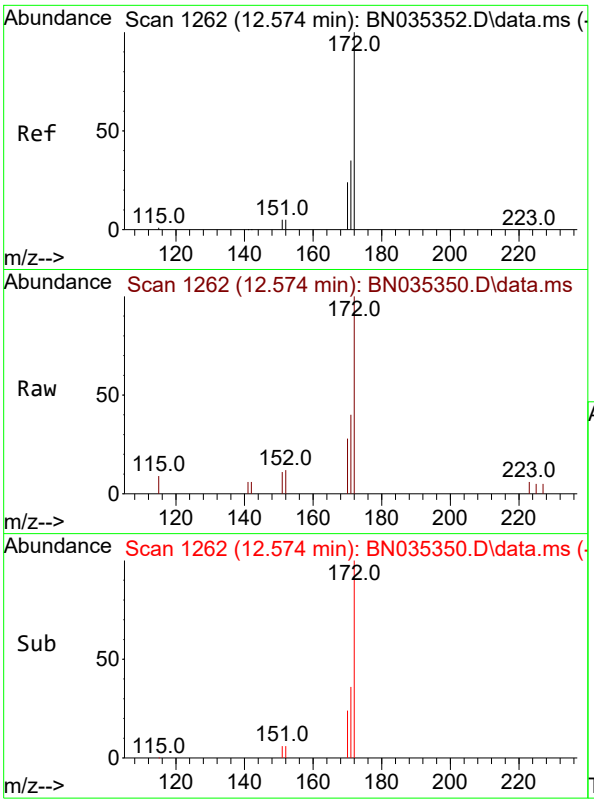




#14
2,4,6-Tribromophenol
Concen: 0.095 ng
RT: 15.475 min Scan# 1578
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:330 Resp: 278

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 0.0 | 0.0 | 0.0 |
| 141 | 29.1 | 26.6 | 40.0 |



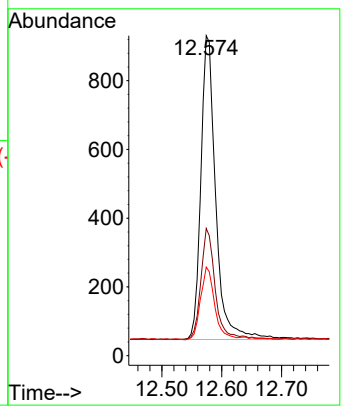


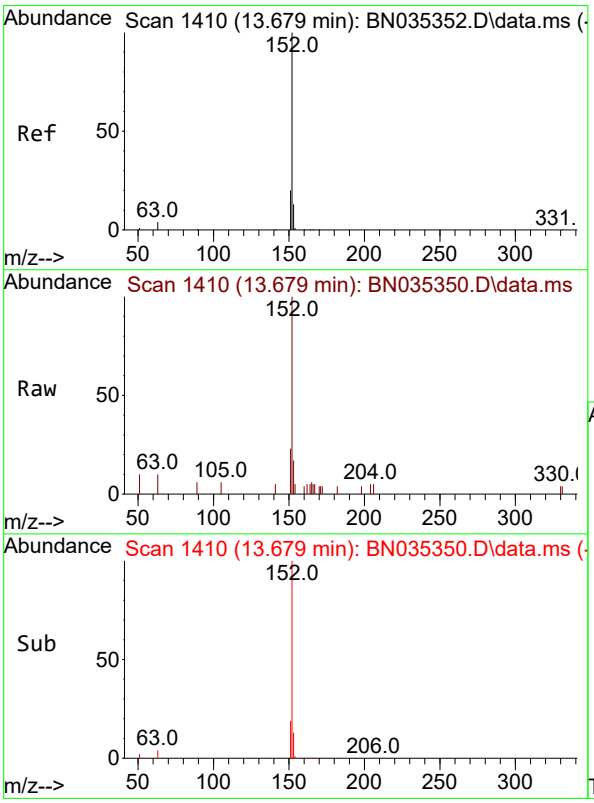

#15
2-Fluorobiphenyl
Concen: 0.092 ng
RT: 12.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.1

Tgt Ion:172 Resp: 1518

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 39.7 | 29.0 | 43.4 |
| 170 | 27.7 | 19.8 | 29.8 |

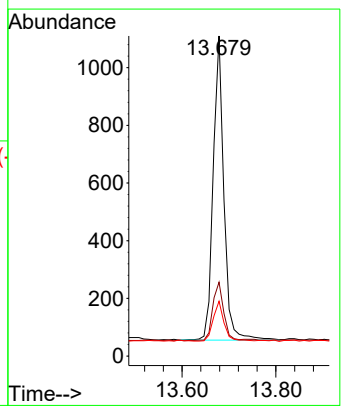


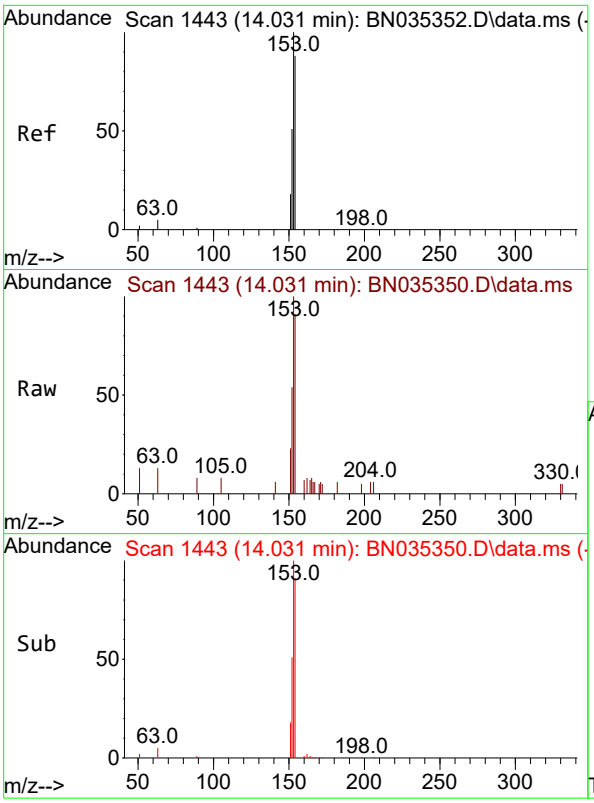




#16
Acenaphthylene
Concen: 0.096 ng
RT: 13.679 min Scan# 1410
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:152 Resp: 1675

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.4 | 16.2 | 24.2 |
| 153 | 13.1 | 10.4 | 15.6 |



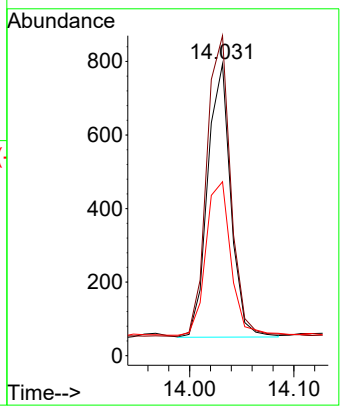


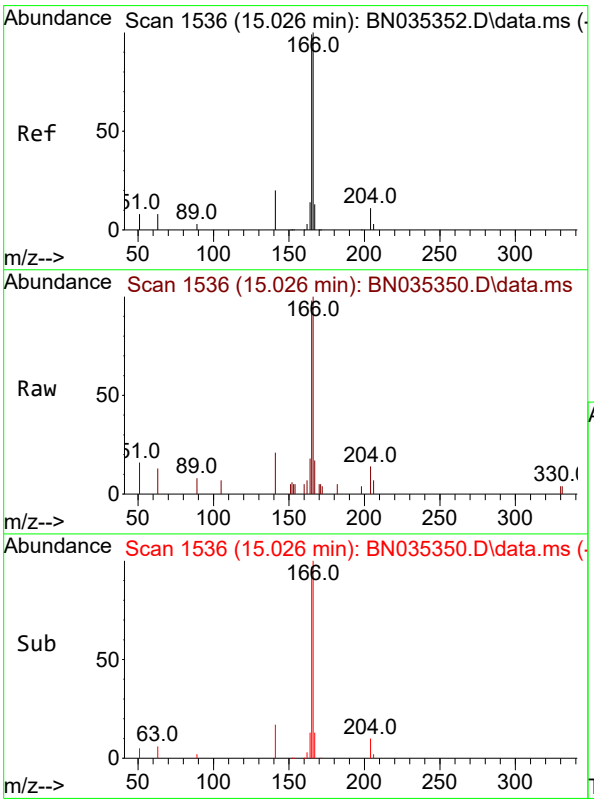

#17
Acenaphthene
Concen: 0.100 ng
RT: 14.031 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.1

Tgt Ion:154 Resp: 1143

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 115.0 | 92.6 | 139.0 |
| 152 | 60.9 | 49.0 | 73.6 |

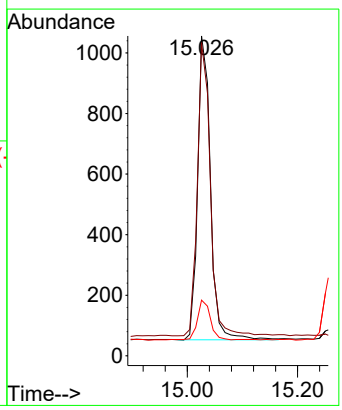


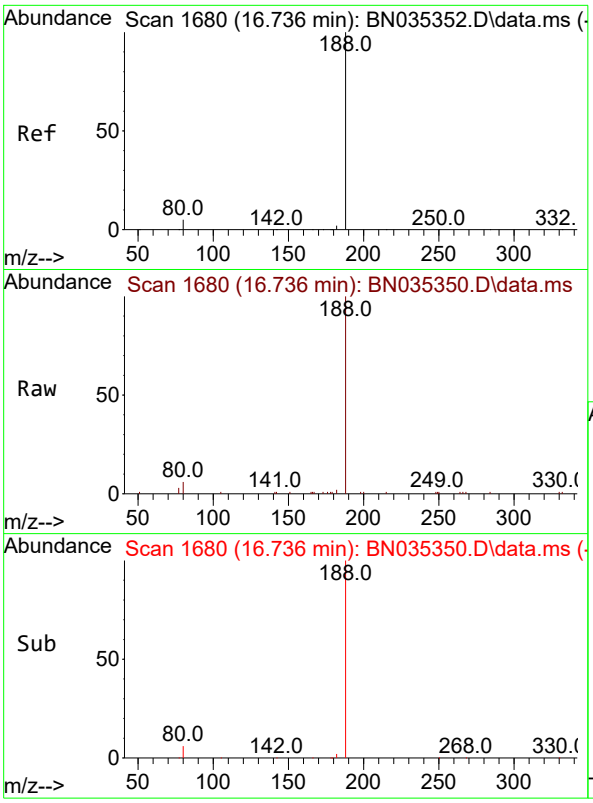




#18
Fluorene
Concen: 0.096 ng
RT: 15.026 min Scan# 1536
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:166 Resp: 1620

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 97.7 | 79.7 | 119.5 |
| 167 | 13.1 | 10.8 | 16.2 |



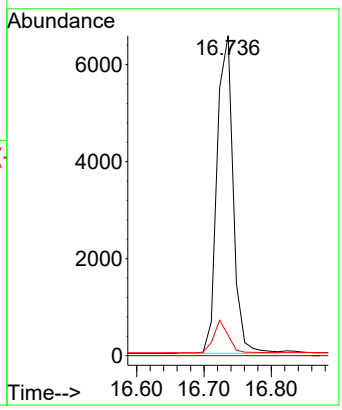


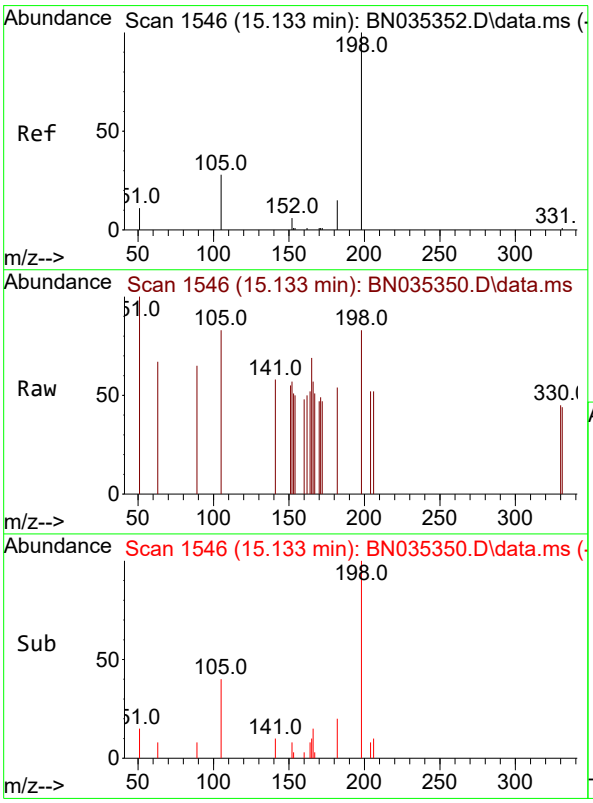

#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.736 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.1

Tgt Ion:188 Resp: 10855

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 6.4 | 4.6 | 6.8 |

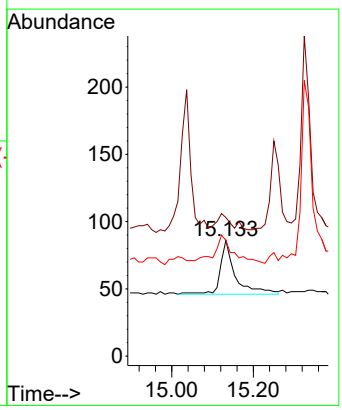


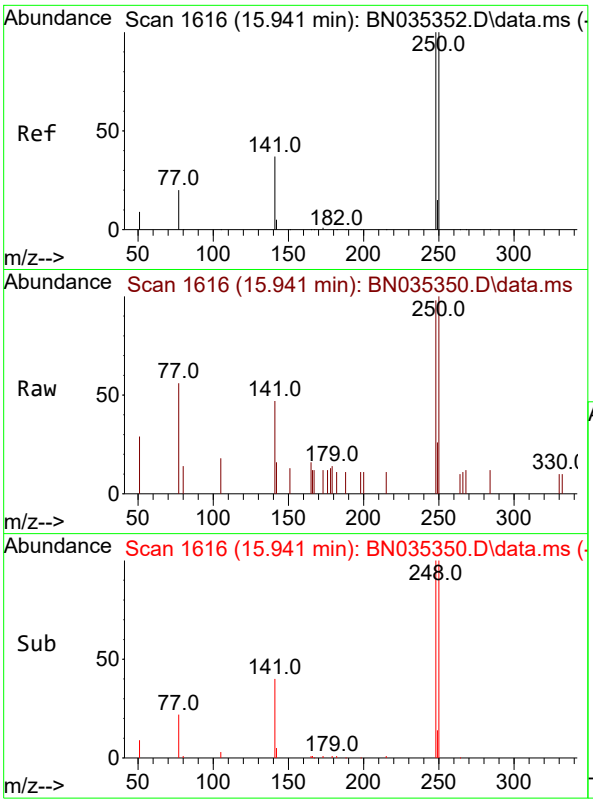




#20
4,6-Dinitro-2-methylphenol
Concen: 0.046 ng
RT: 15.133 min Scan# 1546
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:198 Resp: 103

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 198 | 100 | | |
| 51 | 119.8 | 46.5 | 69.7# |
| 105 | 100.0 | 45.3 | 67.9# |



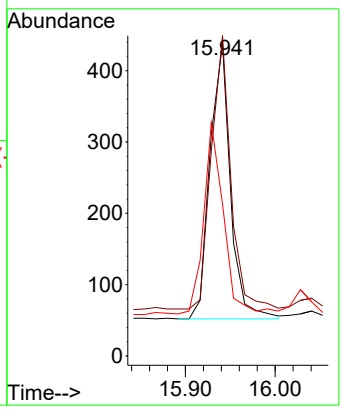


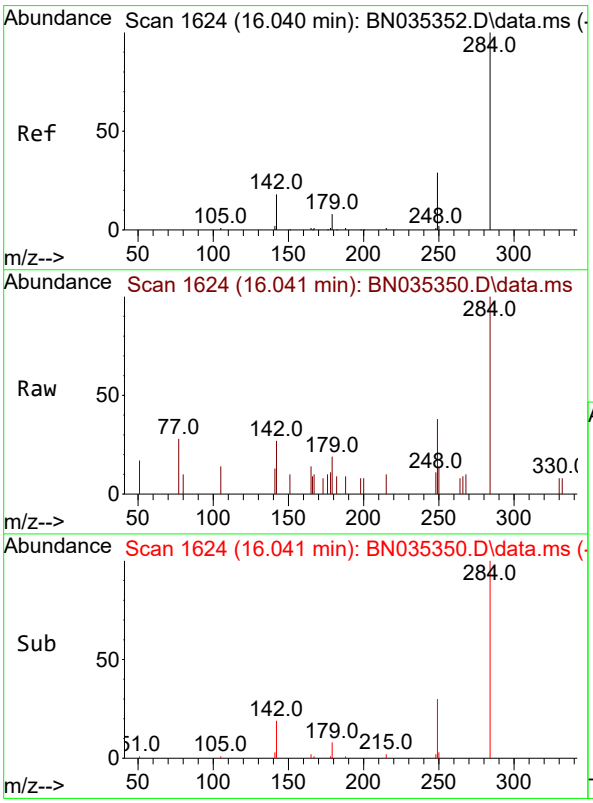

#21
4-Bromophenyl-phenylether
Concen: 0.088 ng
RT: 15.941 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.1

Tgt Ion:248 Resp: 612

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 102.5 | 80.6 | 120.8 |
| 141 | 48.6 | 31.5 | 47.3# |

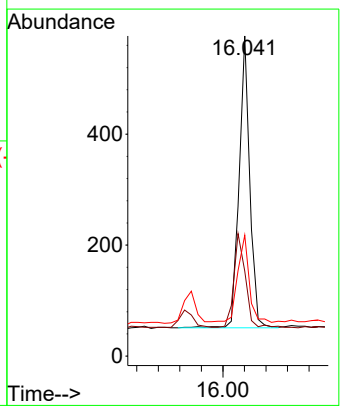


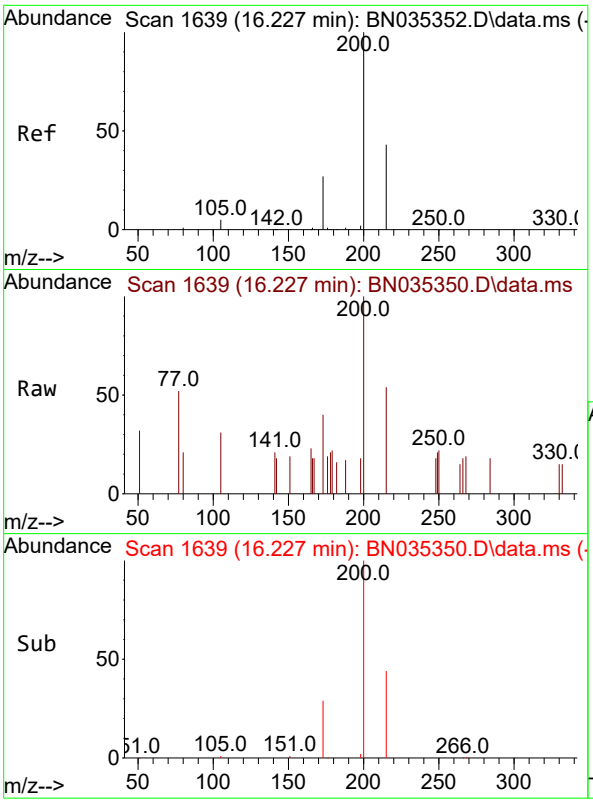




#22
Hexachlorobenzene
Concen: 0.100 ng
RT: 16.041 min Scan# 1624
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:284 Resp: 720

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 35.4 | 26.7 | 40.1 |
| 249 | 32.2 | 24.6 | 36.8 |



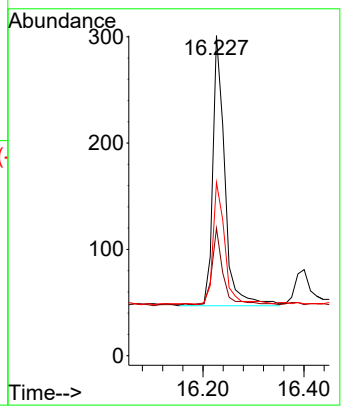


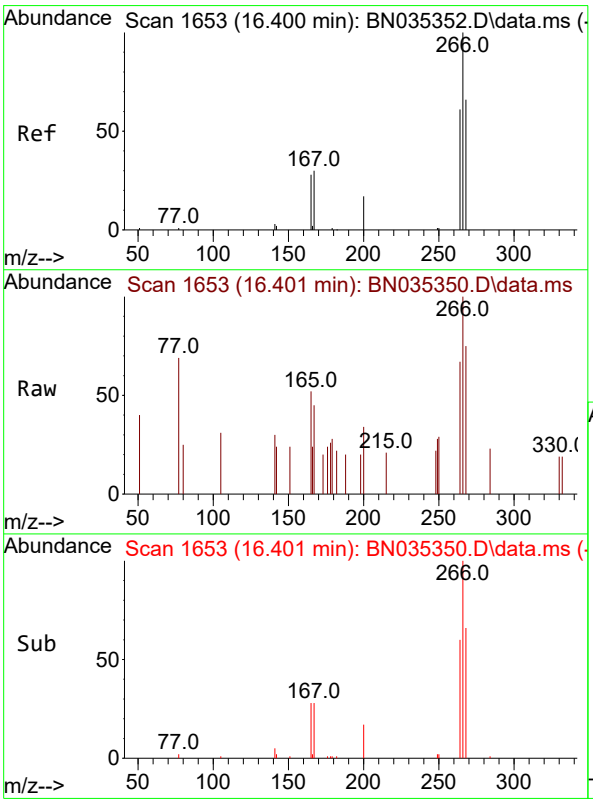

#23
Atrazine
Concen: 0.068 ng
RT: 16.227 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.1

Tgt Ion:200 Resp: 421

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 173 | 39.9 | 24.1 | 36.1# |
| 215 | 54.2 | 36.9 | 55.3 |

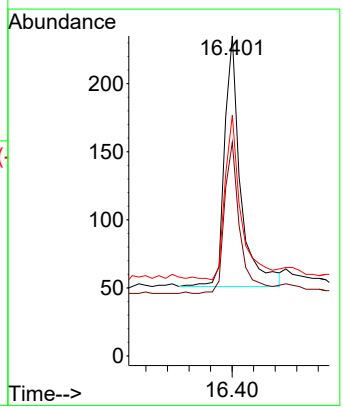


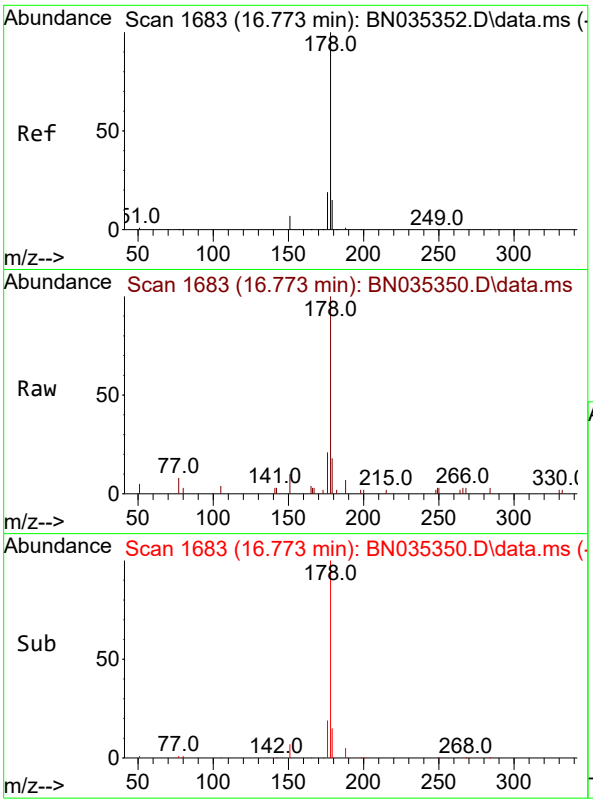




#24
Pentachlorophenol
Concen: 0.114 ng
RT: 16.401 min Scan# 1653
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:266 Resp: 381

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 264 | 58.3 | 42.3 | 63.5 |
| 268 | 63.3 | 43.3 | 64.9 |



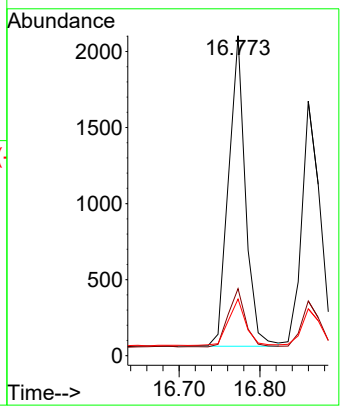


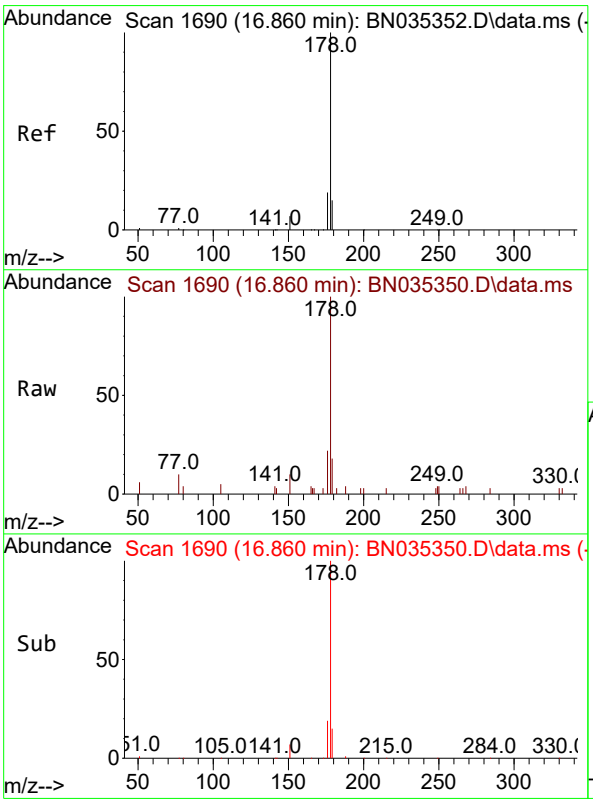

#25
Phenanthrene
Concen: 0.104 ng
RT: 16.773 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.1

Tgt Ion:178 Resp: 2963

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.8 | 15.4 | 23.2 |
| 179 | 15.6 | 12.3 | 18.5 |

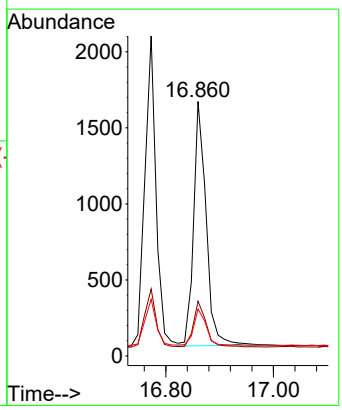


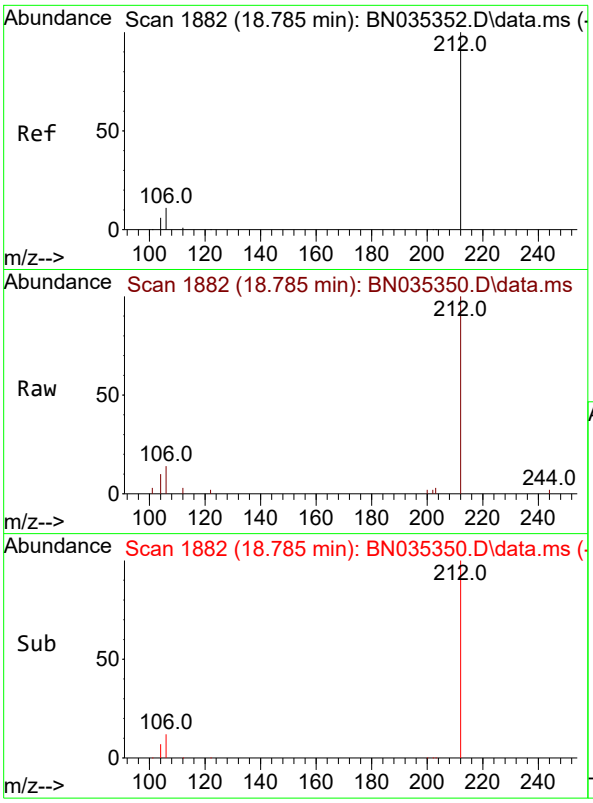




#26
Anthracene
Concen: 0.100 ng
RT: 16.860 min Scan# 1690
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:178 Resp: 2617

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.8 | 15.0 | 22.6 |
| 179 | 14.3 | 12.6 | 18.8 |



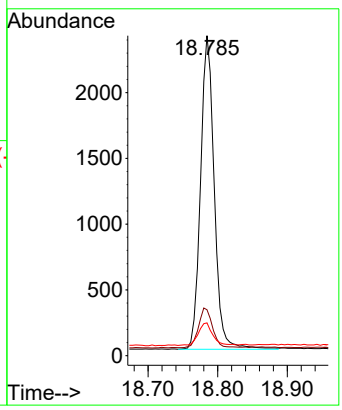


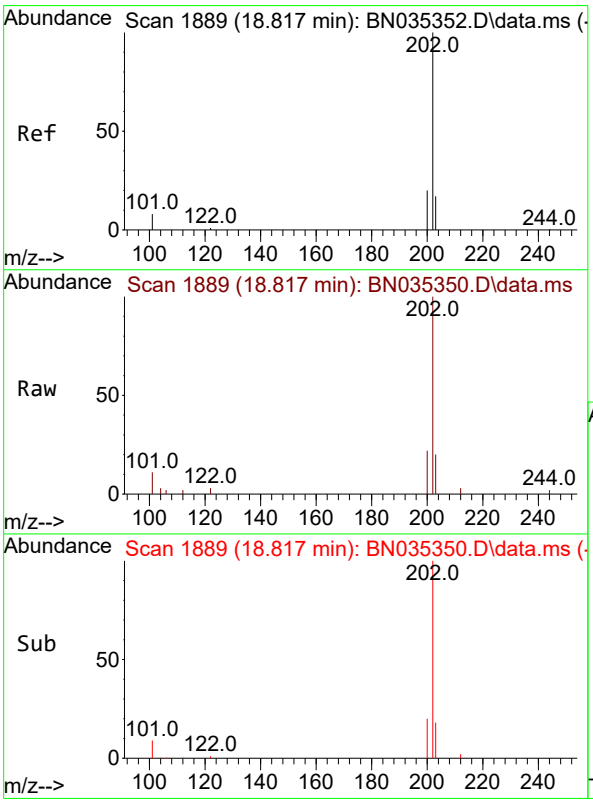

#27
Fluoranthene-d10
Concen: 0.098 ng
RT: 18.785 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.1

Tgt Ion:212 Resp: 3265

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 12.8 | 9.2 | 13.8 |
| 104 | 7.6 | 5.3 | 7.9 |

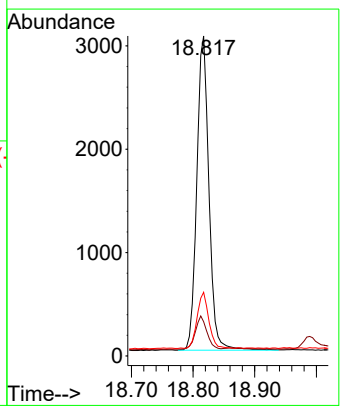


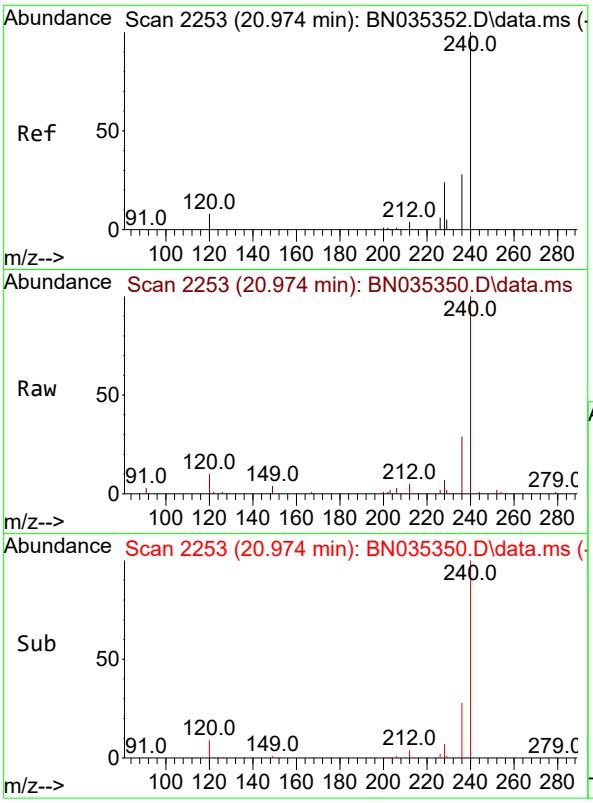




#28
Fluoranthene
Concen: 0.106 ng
RT: 18.817 min Scan# 1889
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:202 Resp: 4173

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 10.2 | 7.4 | 11.0 |
| 203 | 17.3 | 13.7 | 20.5 |



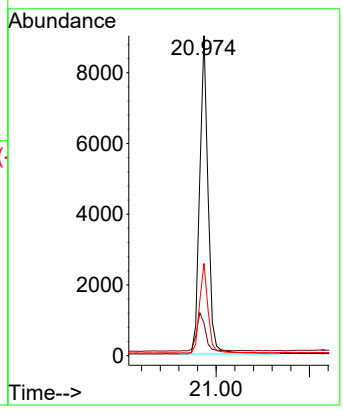


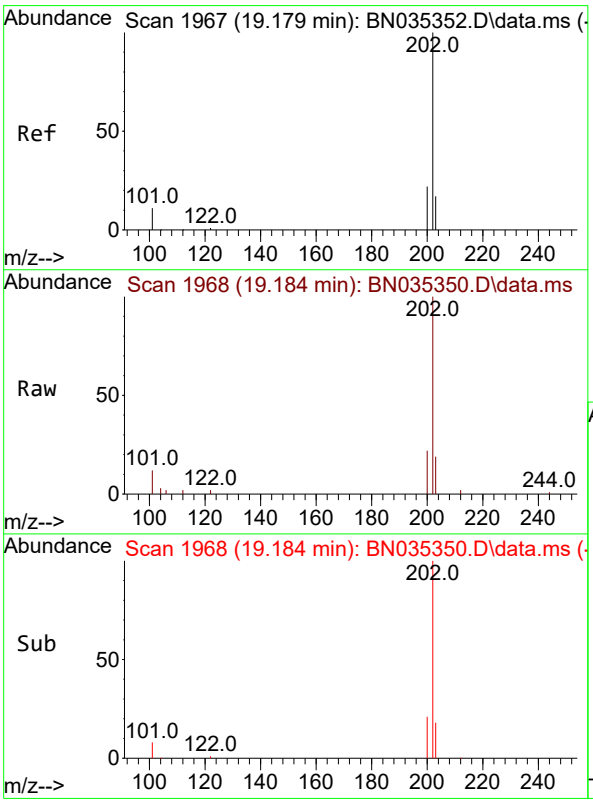

#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.974 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.1

Tgt Ion:240 Resp: 11269

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 10.1 | 7.9 | 11.9 |
| 236 | 28.8 | 22.9 | 34.3 |

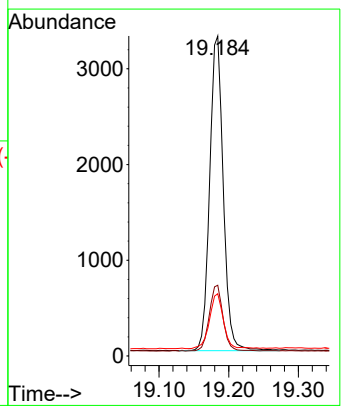


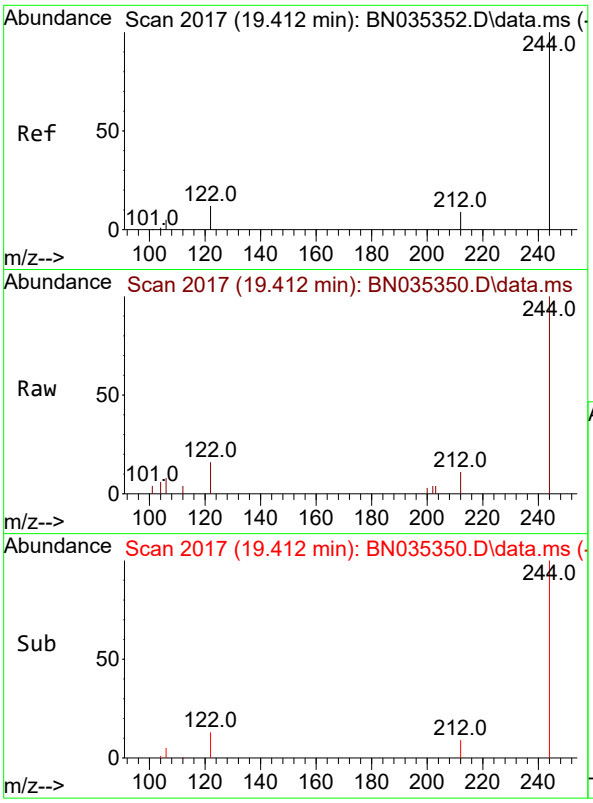




#30
Pyrene
Concen: 0.119 ng
RT: 19.184 min Scan# 1968
Delta R.T. 0.005 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:202 Resp: 4461

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.1 | 17.0 | 25.4 |
| 203 | 18.0 | 14.3 | 21.5 |



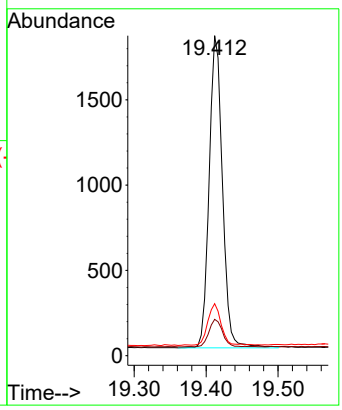


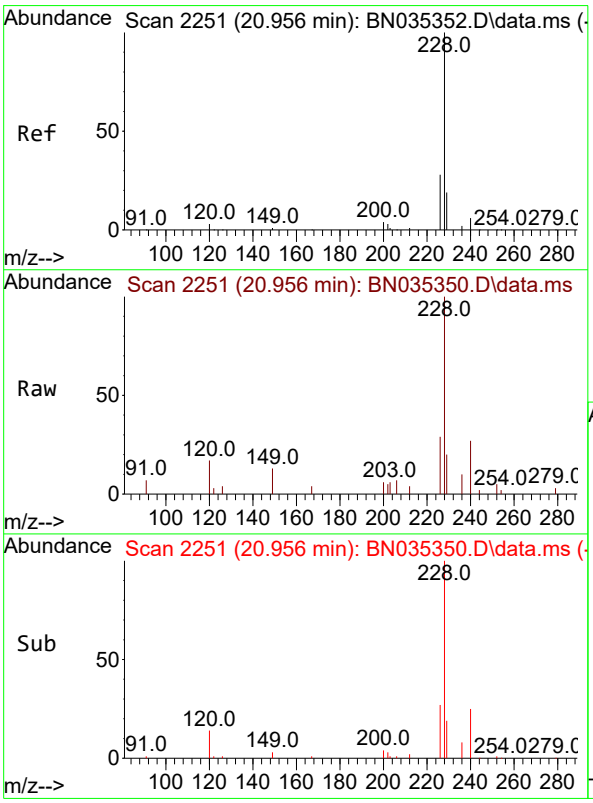

#31
Terphenyl-d14
Concen: 0.099 ng
RT: 19.412 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.1

Tgt Ion:244 Resp: 2344

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 11.4 | 8.1 | 12.1 |
| 122 | 16.3 | 10.3 | 15.5# |

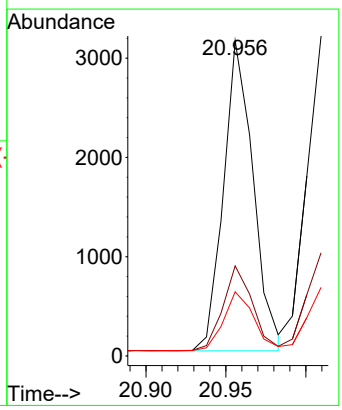


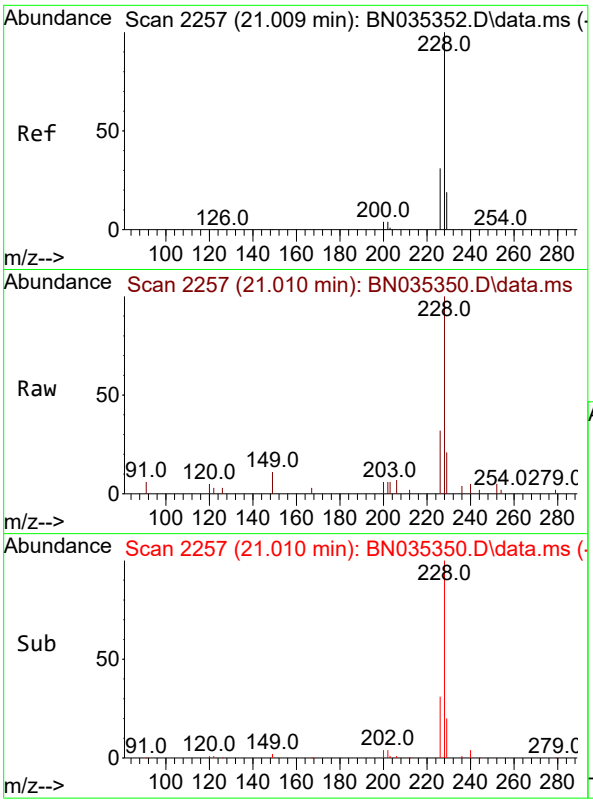




#32
Benzo(a)anthracene
Concen: 0.103 ng
RT: 20.956 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:228 Resp: 4031

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 28.5 | 22.5 | 33.7 |
| 229 | 20.4 | 15.8 | 23.8 |



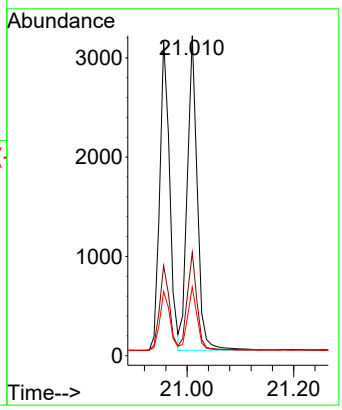


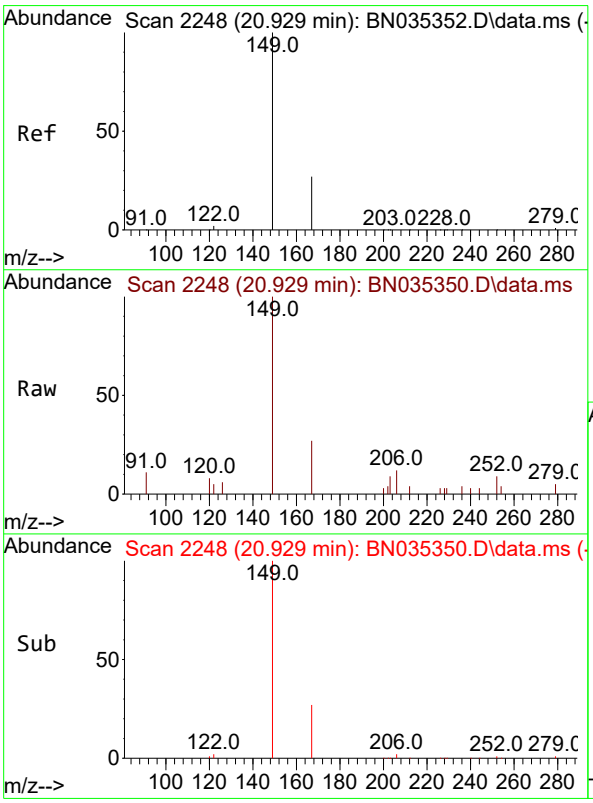

#33
Chrysene
Concen: 0.106 ng
RT: 21.010 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.1

Tgt Ion:228 Resp: 4123

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 32.3 | 24.6 | 37.0 |
| 229 | 21.5 | 15.9 | 23.9 |

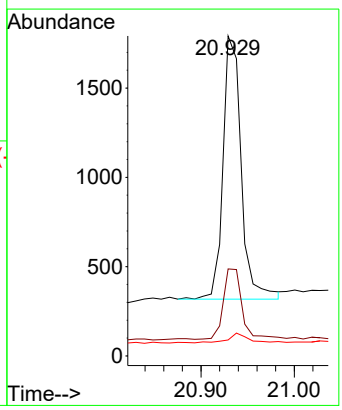


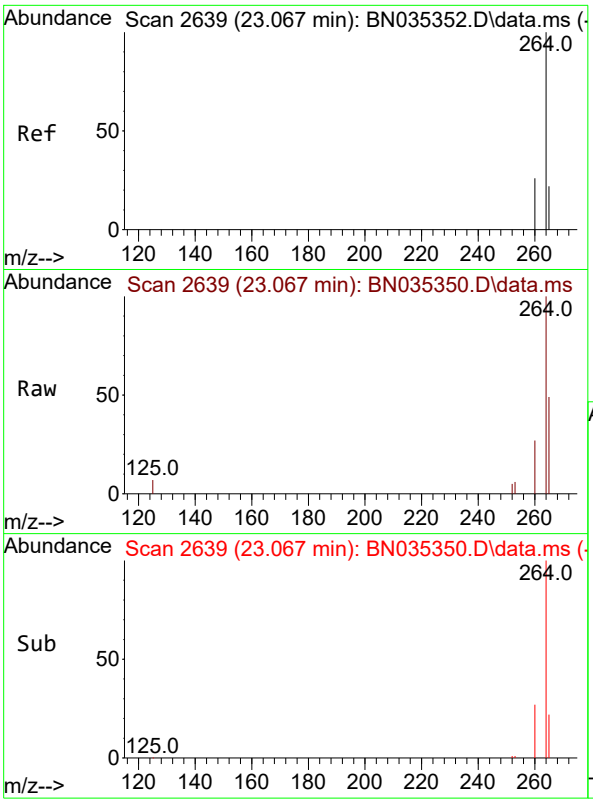




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.097 ng
RT: 20.929 min Scan# 2248
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:149 Resp: 1999

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 27.5 | 22.2 | 33.4 |
| 279 | 3.6 | 2.7 | 4.1 |



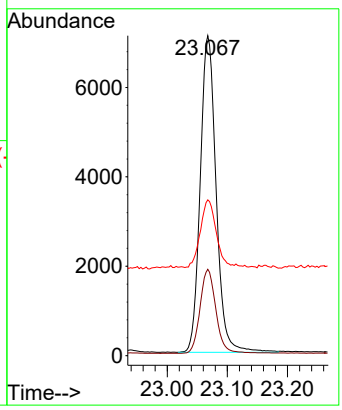


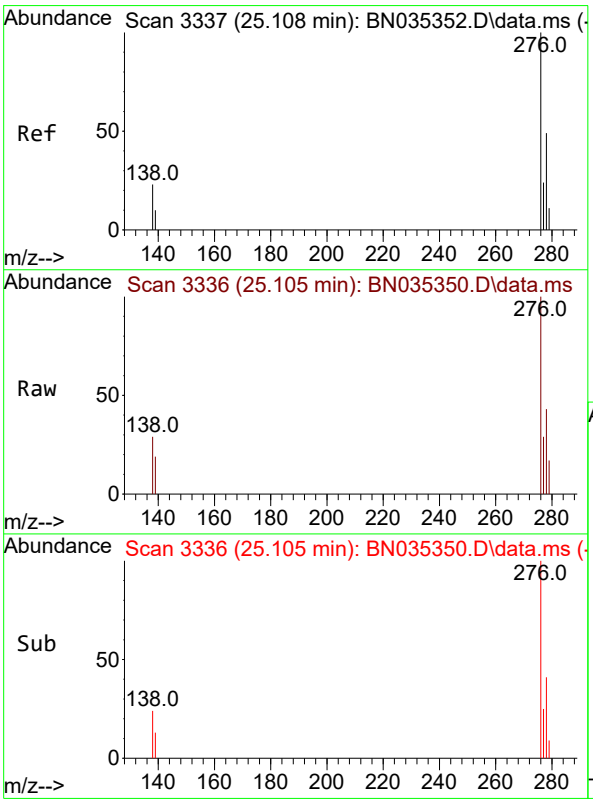

#35
Perylene-d12
Concen: 0.400 ng
RT: 23.067 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.1

Tgt Ion:264 Resp: 13004

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 27.0 | 21.4 | 32.2 |
| 265 | 48.7 | 40.2 | 60.4 |

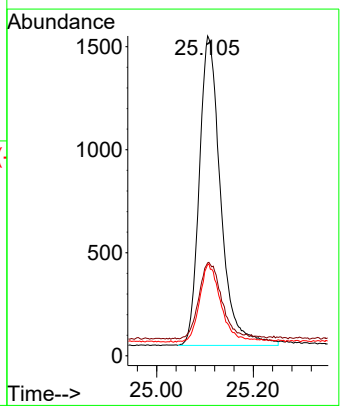


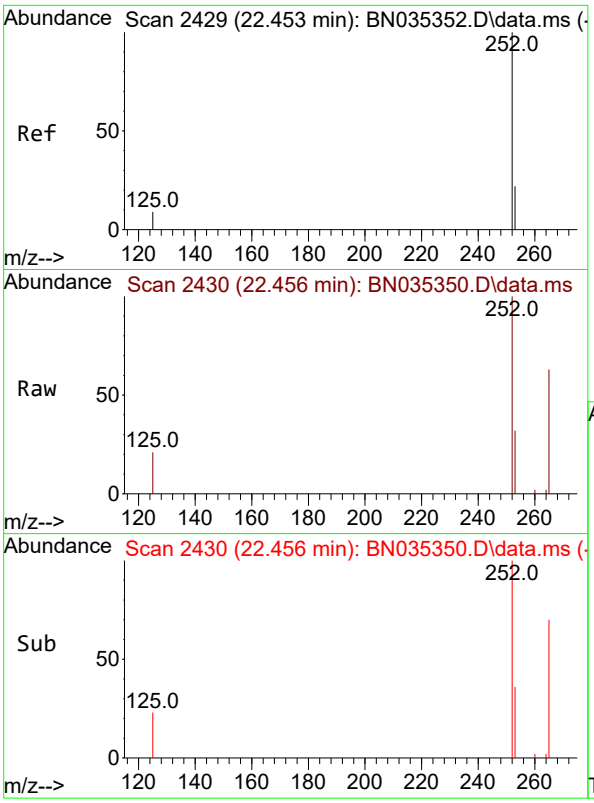




#36
Indeno(1,2,3-cd)pyrene
Concen: 0.088 ng
RT: 25.105 min Scan# 3336
Delta R.T. -0.003 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:276 Resp: 4586

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 26.2 | 19.4 | 29.0 |
| 277 | 25.6 | 19.8 | 29.6 |



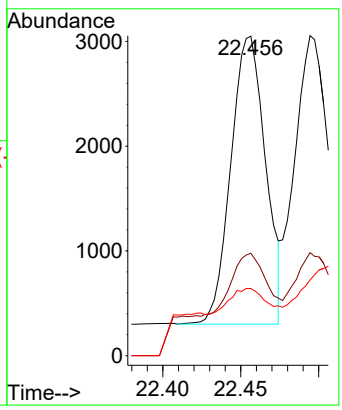


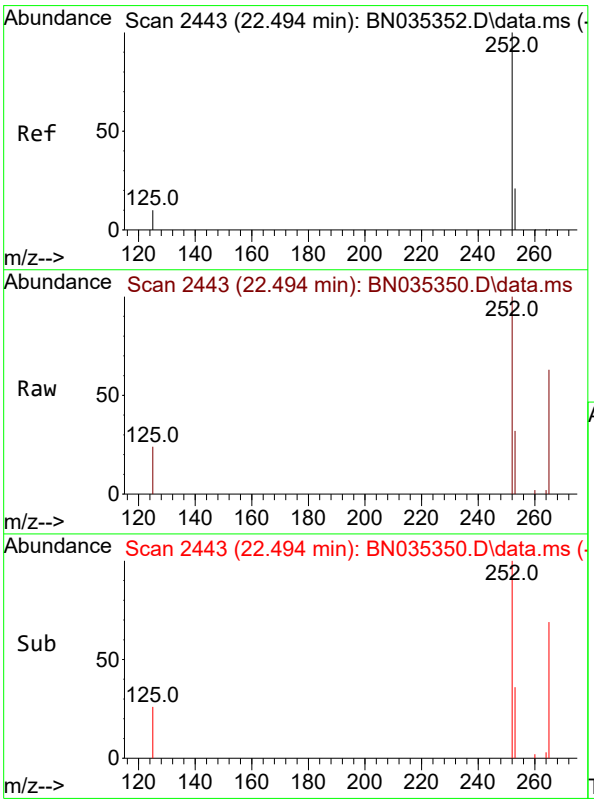

#37
Benzo(b)fluoranthene
Concen: 0.097 ng
RT: 22.456 min Scan# 24
Delta R.T. 0.003 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.1

Tgt Ion:252 Resp: 4243

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 32.1 | 19.6 | 29.4# |
| 125 | 21.0 | 9.6 | 14.4# |

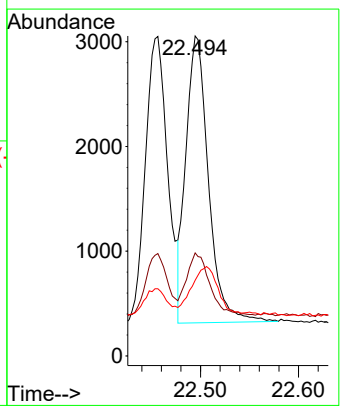


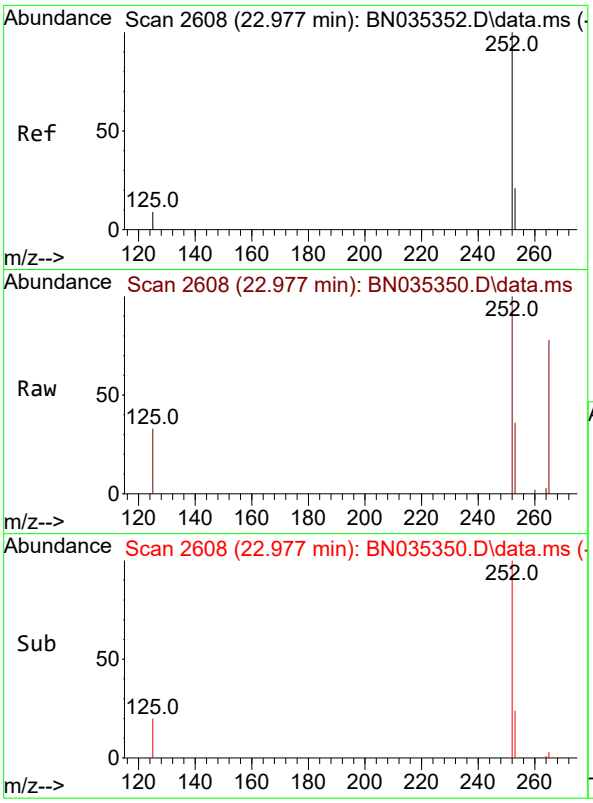




#38
Benzo(k)fluoranthene
Concen: 0.100 ng
RT: 22.494 min Scan# 2443
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:252 Resp: 4378

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 32.2 | 19.5 | 29.3# |
| 125 | 23.7 | 10.2 | 15.4# |



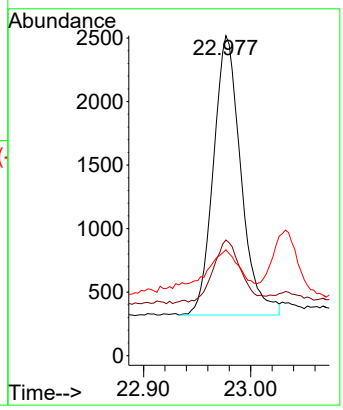


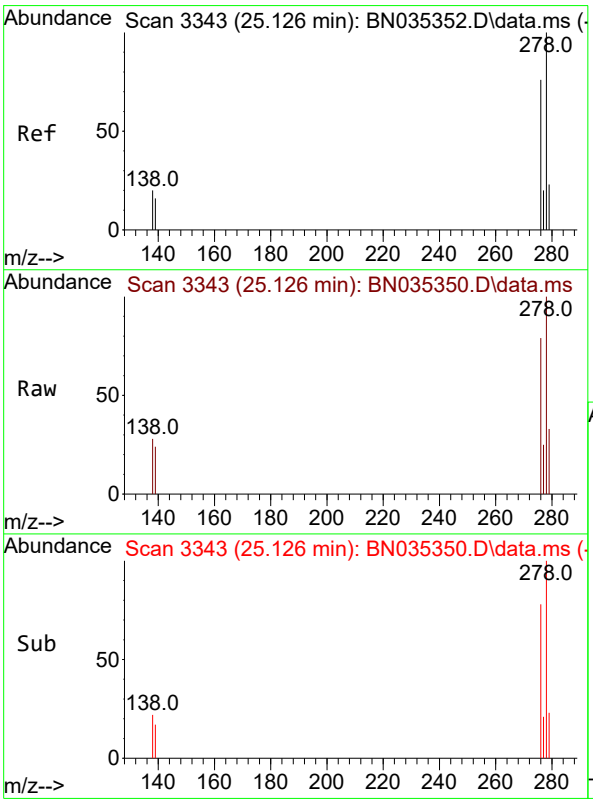

#39
Benzo(a)pyrene
Concen: 0.102 ng
RT: 22.977 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.1

Tgt Ion:252 Resp: 3913

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 36.1 | 20.2 | 30.4# |
| 125 | 33.1 | 10.9 | 16.3# |

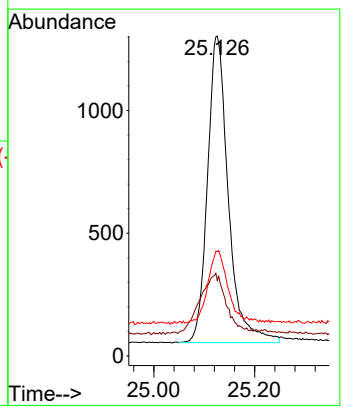


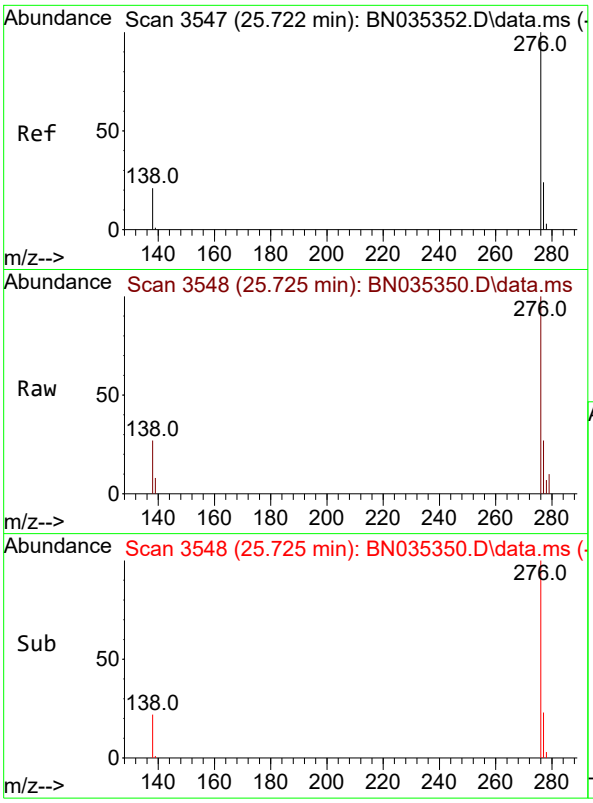




#40
Dibenzo(a,h)anthracene
Concen: 0.087 ng
RT: 25.126 min Scan# 3343
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:278 Resp: 3588

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 23.6 | 14.2 | 21.4# |
| 279 | 32.6 | 20.5 | 30.7# |



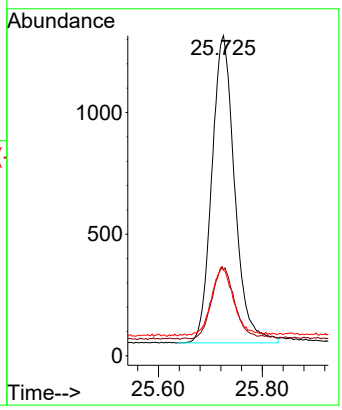



#41
Benzo(g,h,i)perylene
Concen: 0.088 ng
RT: 25.725 min Scan# 3
Delta R.T. 0.003 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.1

Tgt Ion:276 Resp: 3863

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 26.9 | 19.9 | 29.9 |
| 138 | 26.8 | 17.8 | 26.8# |



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035351.D
Acq On : 27 Nov 2024 16:10
Operator : RC/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.2

Quant Time: Nov 27 22:52:33 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration

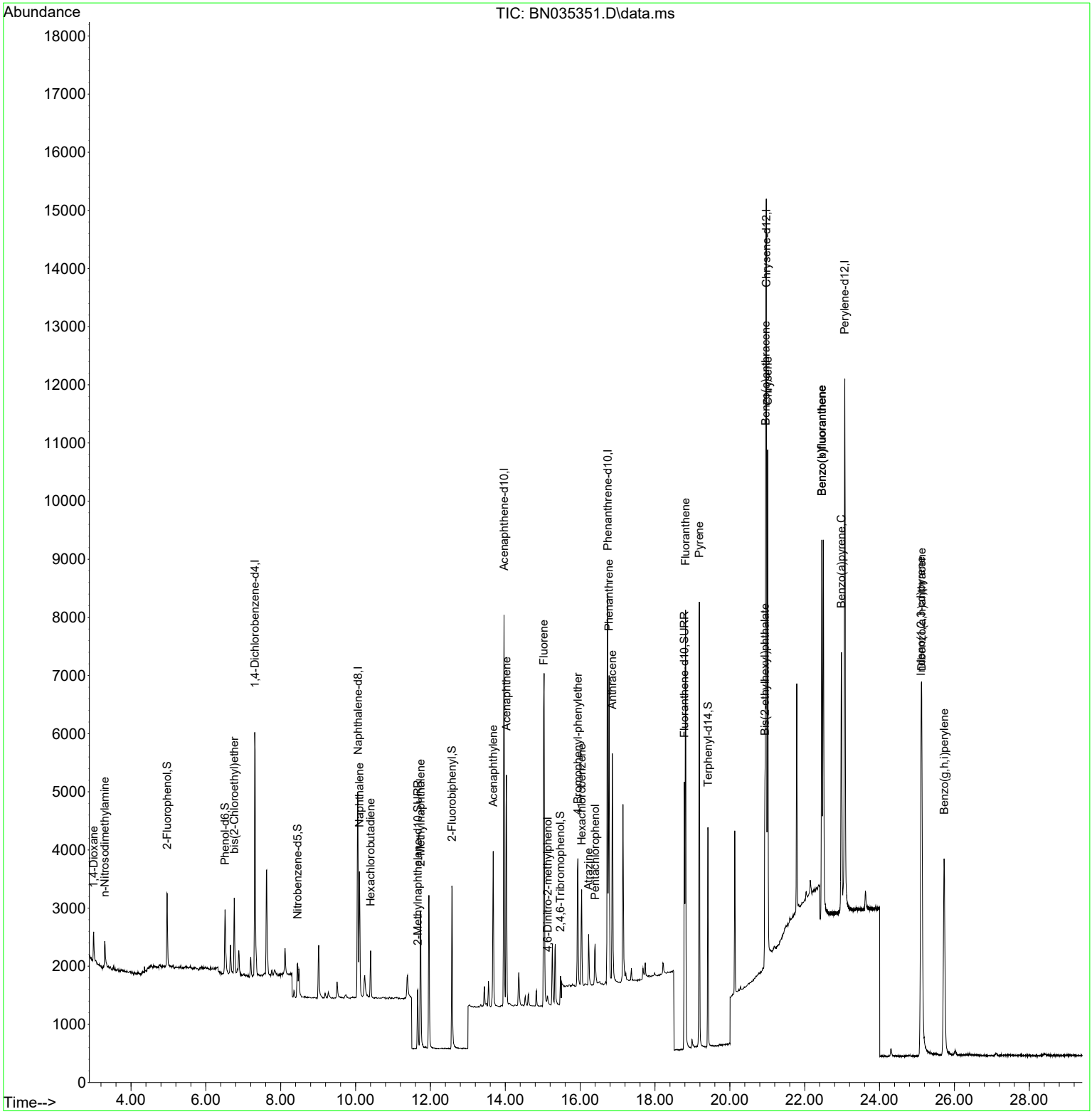
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.308 | 152 | 2084 | 0.400 | ng | 0.00 |
| 7) Naphthalene-d8 | 10.063 | 136 | 5334 | 0.400 | ng | # 0.01 |
| 13) Acenaphthene-d10 | 13.967 | 164 | 3808 | 0.400 | ng | 0.00 |
| 19) Phenanthrene-d10 | 16.735 | 188 | 9904 | 0.400 | ng | 0.00 |
| 29) Chrysene-d12 | 20.974 | 240 | 9963 | 0.400 | ng | 0.00 |
| 35) Perylene-d12 | 23.070 | 264 | 11158 | 0.400 | ng | 0.00 |
| System Monitoring Compounds | | | | | | |
| 4) 2-Fluorophenol | 4.968 | 112 | 1159 | 0.219 | ng | 0.00 |
| 5) Phenol-d6 | 6.513 | 99 | 1236 | 0.186 | ng | 0.00 |
| 8) Nitrobenzene-d5 | 8.450 | 82 | 806 | 0.174 | ng | 0.01 |
| 11) 2-Methylnaphthalene-d10 | 11.661 | 152 | 1608 | 0.169 | ng | 0.00 |
| 14) 2,4,6-Tribromophenol | 15.475 | 330 | 492 | 0.179 | ng | 0.00 |
| 15) 2-Fluorobiphenyl | 12.574 | 172 | 2838 | 0.184 | ng | 0.00 |
| 27) Fluoranthene-d10 | 18.784 | 212 | 5379 | 0.177 | ng | 0.00 |
| 31) Terphenyl-d14 | 19.416 | 244 | 3871 | 0.185 | ng | 0.00 |
| Target Compounds | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.003 | 88 | 435 | 0.230 | ng | # 95 |
| 3) n-Nitrosodimethylamine | 3.299 | 42 | 315 | 0.179 | ng | # 87 |
| 6) bis(2-Chloroethyl)ether | 6.759 | 93 | 1064 | 0.214 | ng | 99 |
| 9) Naphthalene | 10.105 | 128 | 2744 | 0.197 | ng | 96 |
| 10) Hexachlorobutadiene | 10.404 | 225 | 646 | 0.158 | ng | # 99 |
| 12) 2-Methylnaphthalene | 11.737 | 142 | 1910 | 0.186 | ng | 98 |
| 16) Acenaphthylene | 13.678 | 152 | 3047 | 0.187 | ng | 99 |
| 17) Acenaphthene | 14.031 | 154 | 2064 | 0.194 | ng | 99 |
| 18) Fluorene | 15.026 | 166 | 2949 | 0.188 | ng | 99 |
| 20) 4,6-Dinitro-2-methylph... | 15.132 | 198 | 153 | 0.074 | ng | # 53 |
| 21) 4-Bromophenyl-phenylether | 15.941 | 248 | 1081 | 0.171 | ng | 96 |
| 22) Hexachlorobenzene | 16.040 | 284 | 1318 | 0.201 | ng | 98 |
| 23) Atrazine | 16.227 | 200 | 770 | 0.136 | ng | 93 |
| 24) Pentachlorophenol | 16.400 | 266 | 445 | 0.145 | ng | # 84 |
| 25) Phenanthrene | 16.773 | 178 | 5182 | 0.199 | ng | 99 |
| 26) Anthracene | 16.860 | 178 | 4571 | 0.191 | ng | 100 |
| 28) Fluoranthene | 18.817 | 202 | 6914 | 0.193 | ng | 100 |
| 30) Pyrene | 19.184 | 202 | 7198 | 0.217 | ng | 100 |
| 32) Benzo(a)anthracene | 20.956 | 228 | 6691 | 0.193 | ng | 99 |
| 33) Chrysene | 21.009 | 228 | 7234 | 0.211 | ng | 99 |
| 34) Bis(2-ethylhexyl)phtha... | 20.938 | 149 | 2779 | 0.153 | ng | # 99 |
| 36) Indeno(1,2,3-cd)pyrene | 25.108 | 276 | 8305 | 0.187 | ng | 100 |
| 37) Benzo(b)fluoranthene | 22.456 | 252 | 7522 | 0.200 | ng | # 94 |
| 38) Benzo(k)fluoranthene | 22.456 | 252 | 7522 | 0.200 | ng | 94 |
| 39) Benzo(a)pyrene | 22.980 | 252 | 6450 | 0.195 | ng | # 90 |
| 40) Dibenzo(a,h)anthracene | 25.128 | 278 | 6620 | 0.188 | ng | 96 |
| 41) Benzo(g,h,i)perylene | 25.725 | 276 | 6908 | 0.184 | ng | 99 |

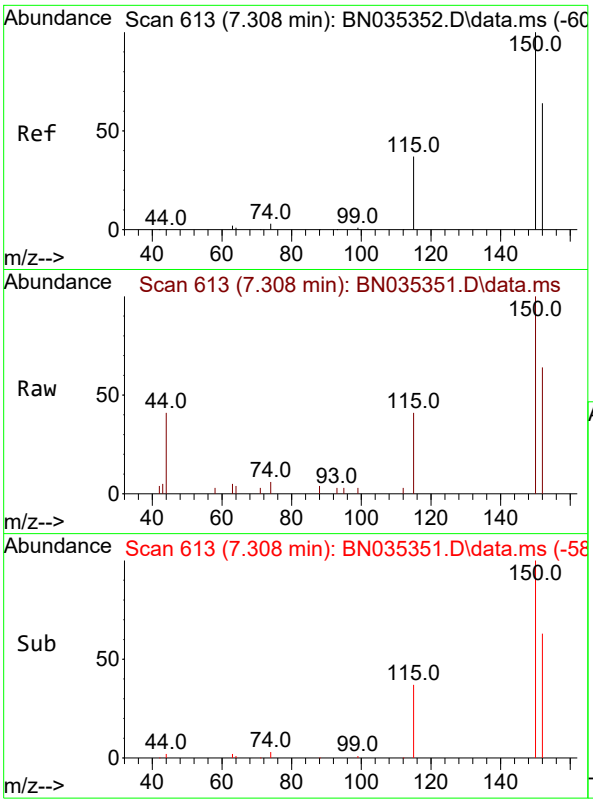
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035351.D
Acq On : 27 Nov 2024 16:10
Operator : RC/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.2

Quant Time: Nov 27 22:52:33 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration



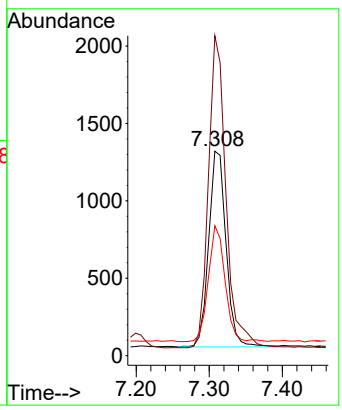


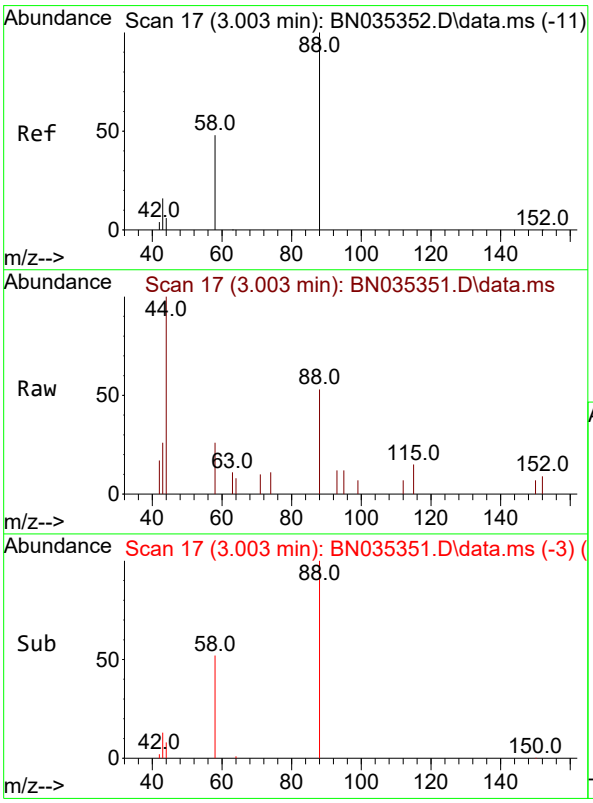

#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.2

Tgt Ion:152 Resp: 2084

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 156.5 | 124.0 | 186.0 |
| 115 | 63.5 | 49.6 | 74.4 |

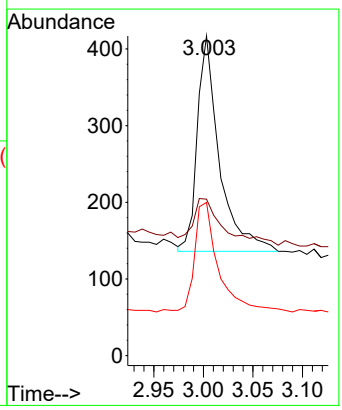


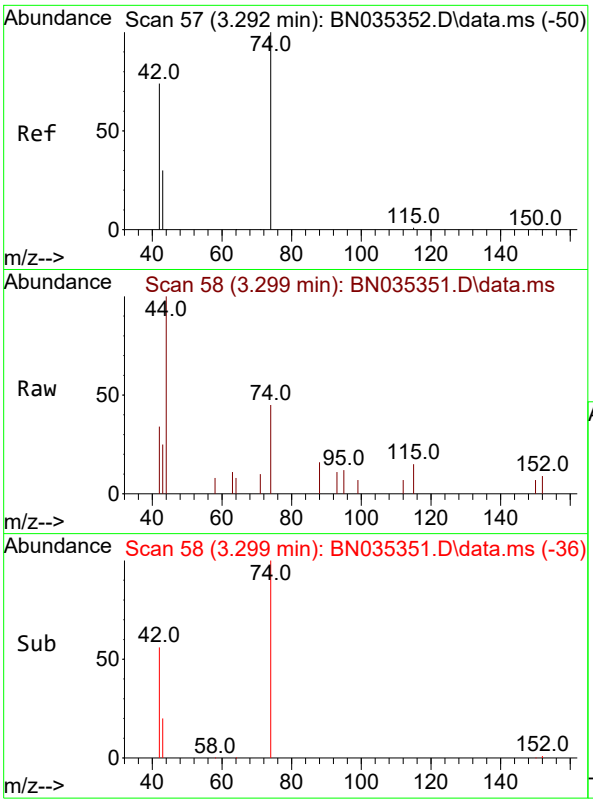




#2
1,4-Dioxane
Concen: 0.230 ng
RT: 3.003 min Scan# 17
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion: 88 Resp: 435

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 29.9 | 17.2 | 25.8# |
| 58 | 55.2 | 44.5 | 66.7 |



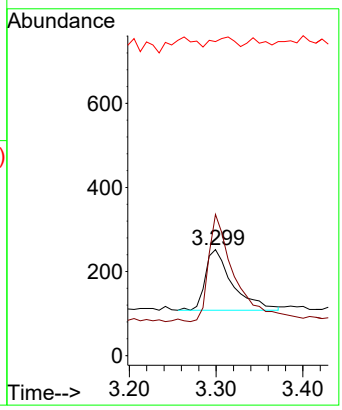


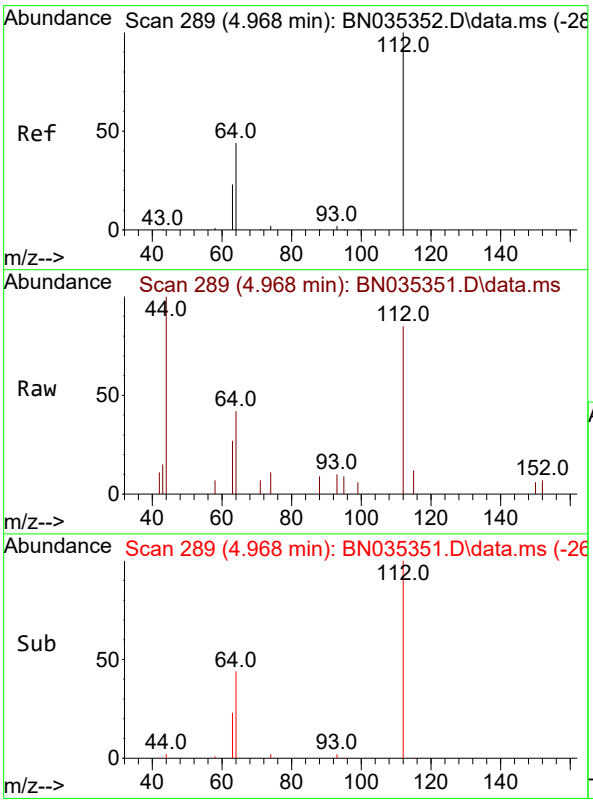

#3
n-Nitrosodimethylamine
Concen: 0.179 ng
RT: 3.299 min Scan# 5
Delta R.T. 0.007 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.2

Tgt Ion: 42 Resp: 315

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 172.4 | 124.9 | 187.3 |
| 44 | 16.2 | 2.2 | 3.4# |

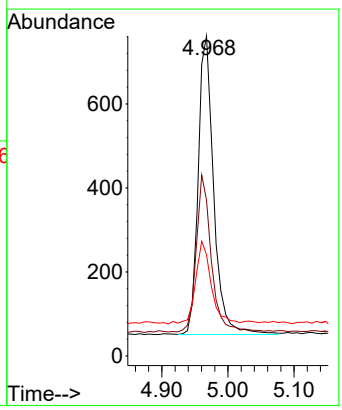


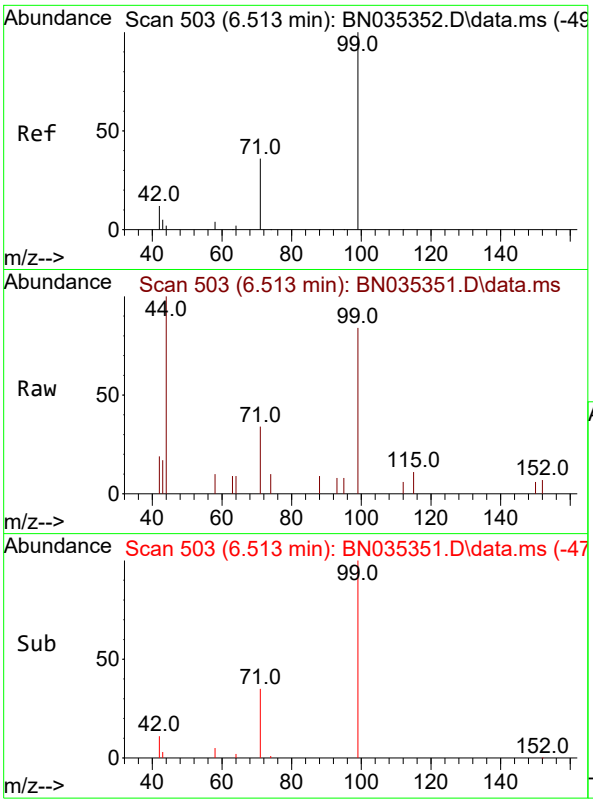




#4
2-Fluorophenol
Concen: 0.219 ng
RT: 4.968 min Scan# 289
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:112 Resp: 1159

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 51.2 | 39.8 | 59.8 |
| 63 | 27.9 | 21.0 | 31.6 |



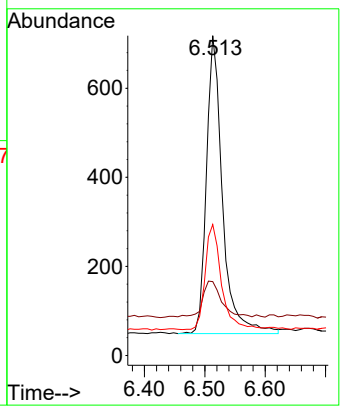


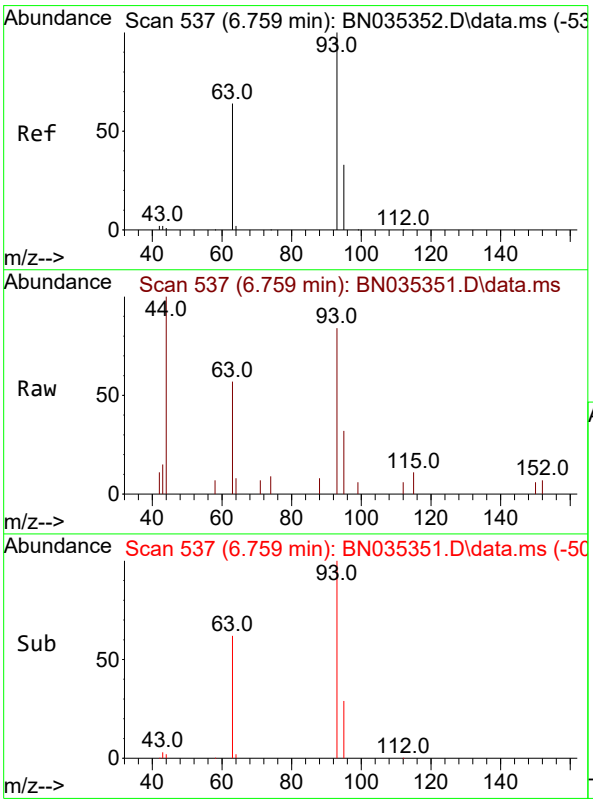

#5
Phenol-d6
Concen: 0.186 ng
RT: 6.513 min Scan# 5(
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.2

Tgt Ion: 99 Resp: 1236

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 15.0 | 11.4 | 17.2 |
| 71 | 35.8 | 29.3 | 43.9 |

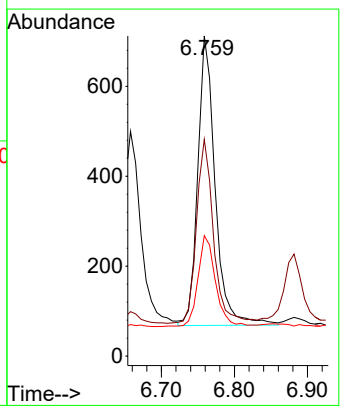


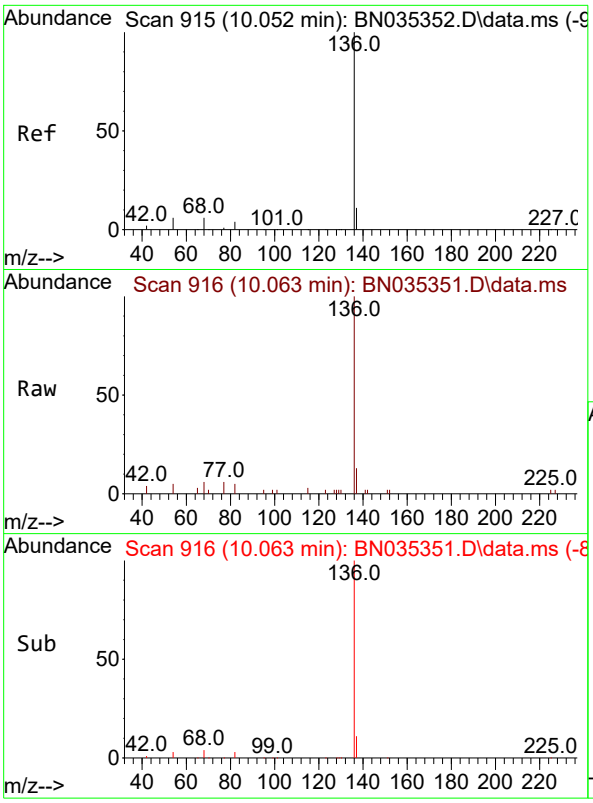




#6
bis(2-Chloroethyl)ether
Concen: 0.214 ng
RT: 6.759 min Scan# 537
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion: 93 Resp: 1064

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 62.2 | 50.4 | 75.6 |
| 95 | 31.6 | 25.7 | 38.5 |



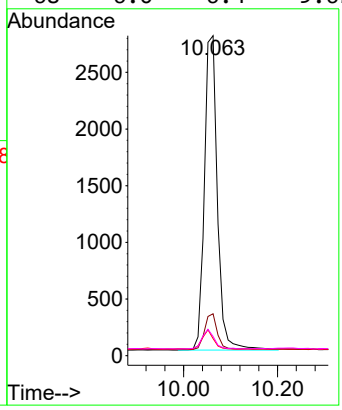


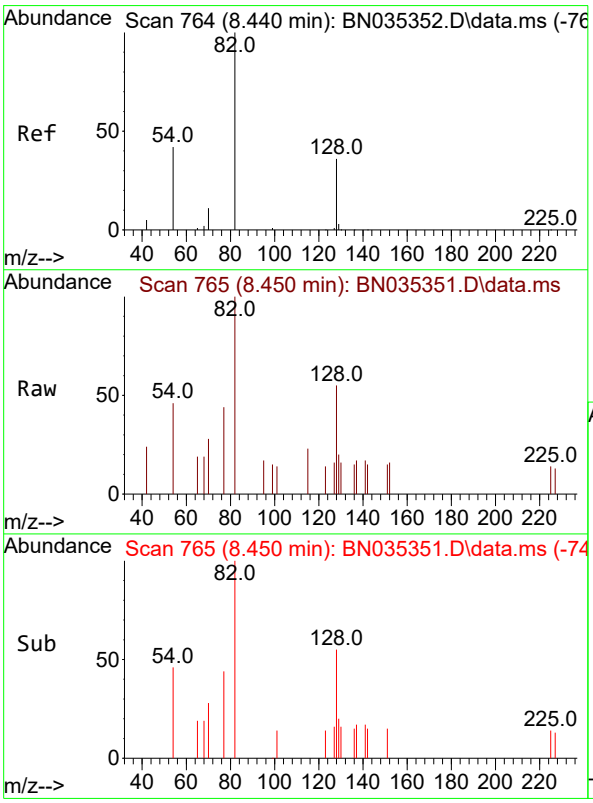

#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.063 min Scan# 91
Delta R.T. 0.011 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.2

Tgt Ion:136 Resp: 5334

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 13.1 | 10.2 | 15.2 |
| 54 | 5.3 | 6.1 | 9.1# |
| 68 | 6.0 | 6.4 | 9.6# |

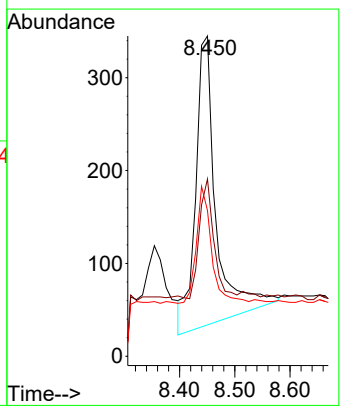


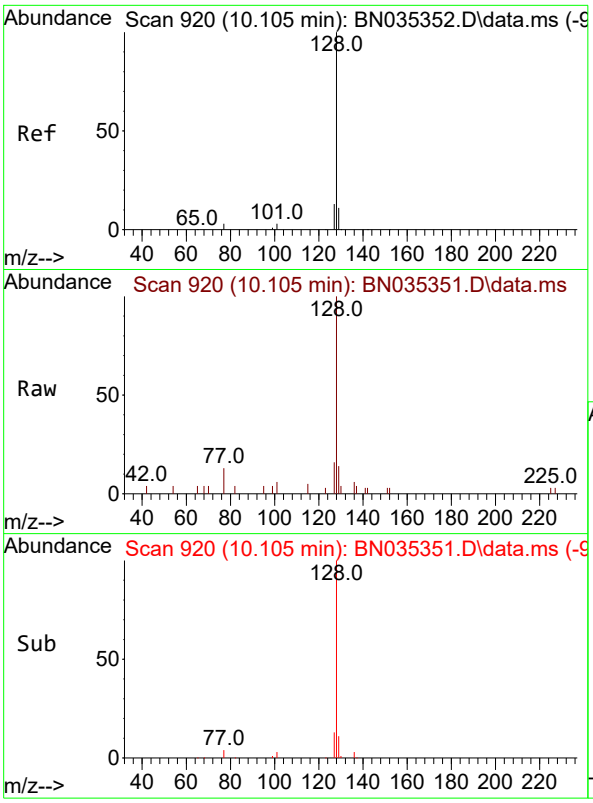




#8
Nitrobenzene-d5
Concen: 0.174 ng
RT: 8.450 min Scan# 765
Delta R.T. 0.011 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion: 82 Resp: 806

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 55.4 | 33.4 | 50.0# |
| 54 | 45.5 | 36.7 | 55.1 |



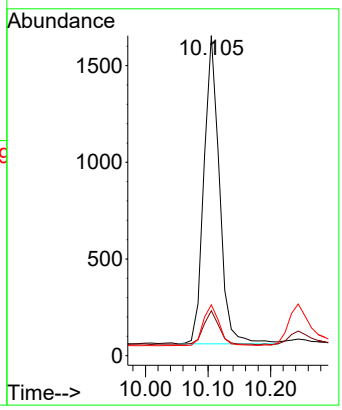


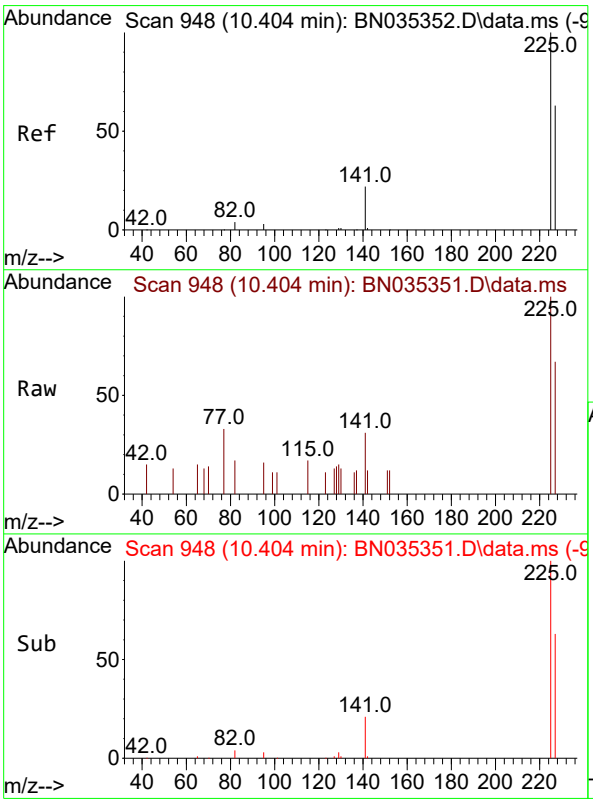

#9
Naphthalene
Concen: 0.197 ng
RT: 10.105 min Scan# 9
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.2

Tgt Ion:128 Resp: 2744

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 14.0 | 9.8 | 14.6 |
| 127 | 15.9 | 11.4 | 17.2 |

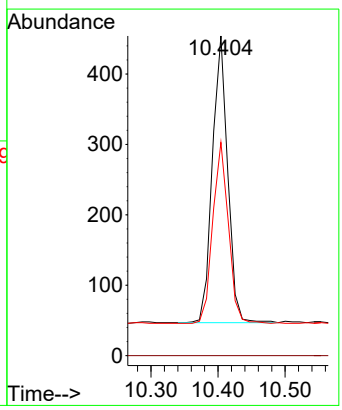


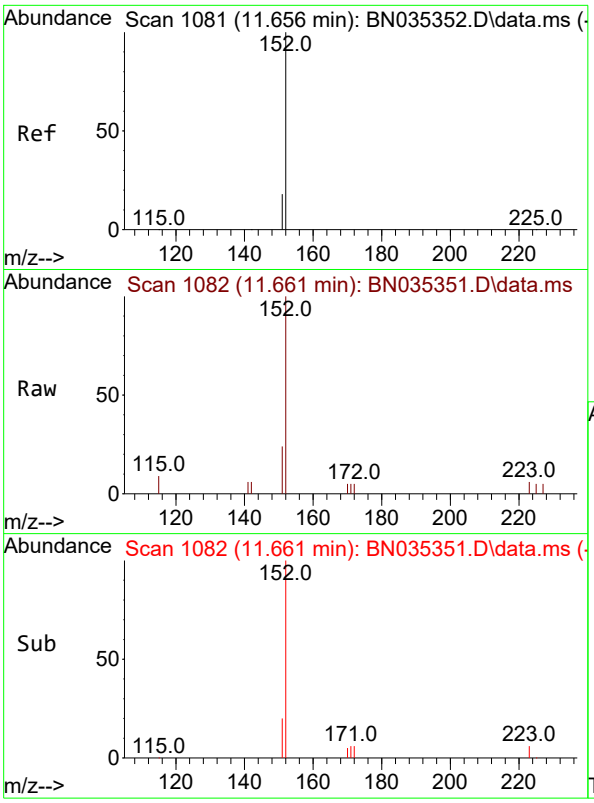




#10
Hexachlorobutadiene
Concen: 0.158 ng
RT: 10.404 min Scan# 948
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:225 Resp: 646

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 0.0 | 0.0 | 0.0 |
| 227 | 64.7 | 51.3 | 76.9 |



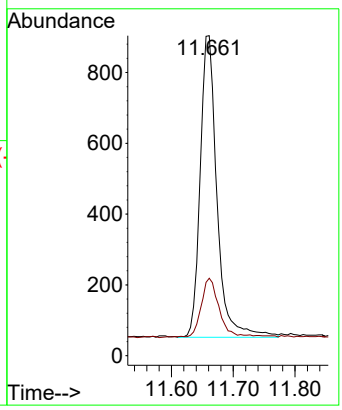


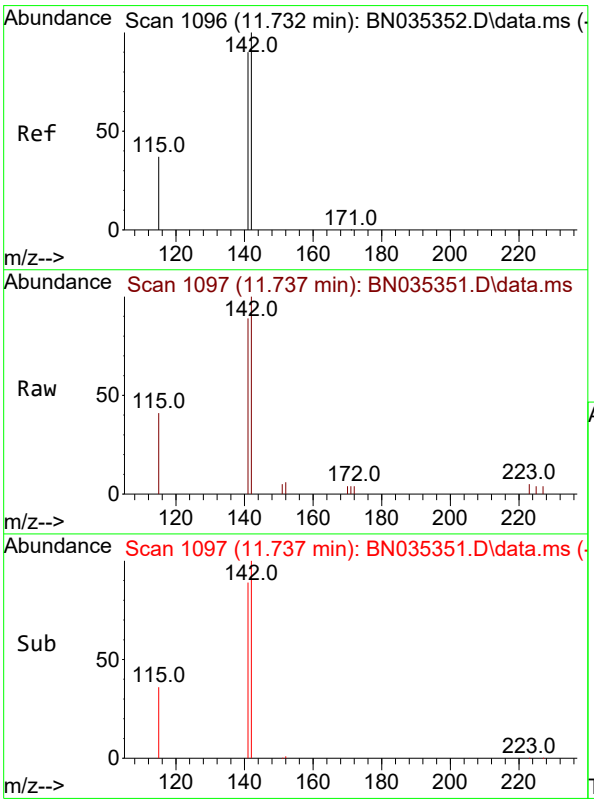

#11
2-Methylnaphthalene-d10
Concen: 0.169 ng
RT: 11.661 min Scan# 1
Delta R.T. 0.005 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.2

Tgt Ion:152 Resp: 1608

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 22.3 | 16.6 | 25.0 |

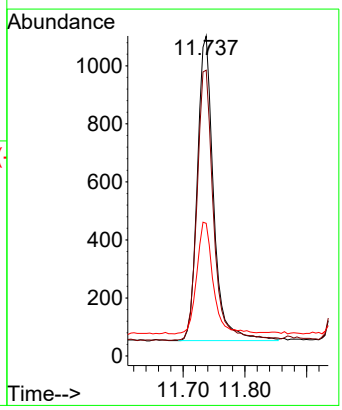


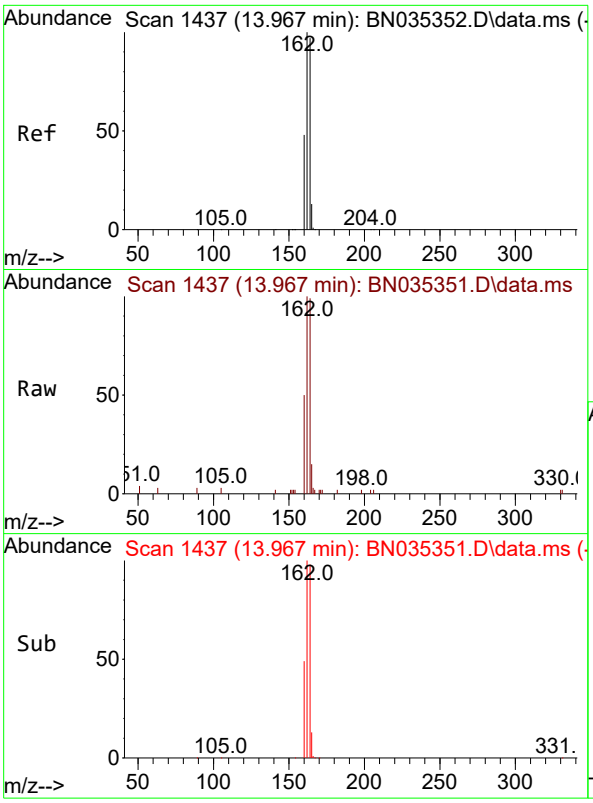




#12
2-Methylnaphthalene
Concen: 0.186 ng
RT: 11.737 min Scan# 1097
Delta R.T. 0.005 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:142 Resp: 1910

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 89.3 | 72.2 | 108.4 |
| 115 | 41.4 | 31.4 | 47.0 |



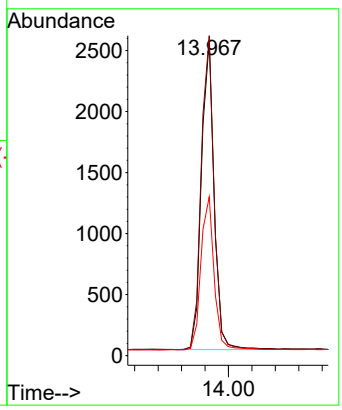


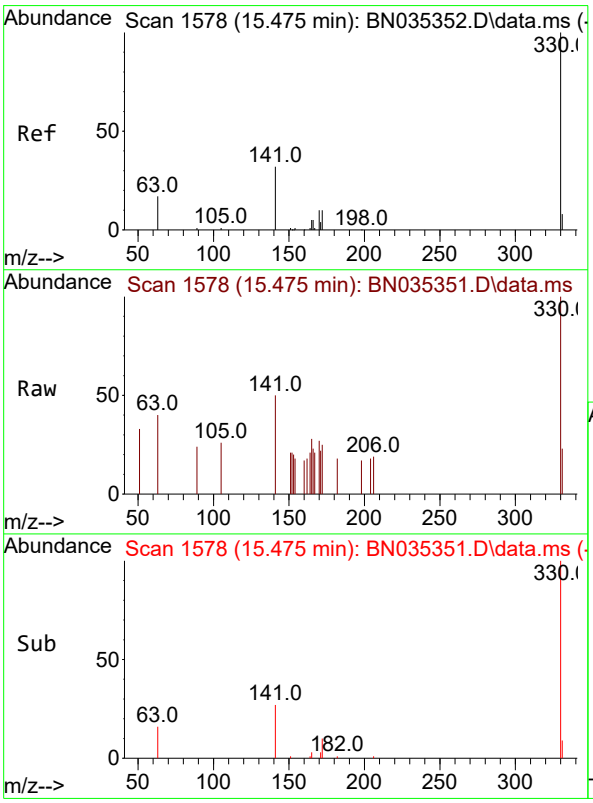

#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.2

Tgt Ion:164 Resp: 3808

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 101.5 | 82.2 | 123.2 |
| 160 | 50.4 | 40.1 | 60.1 |

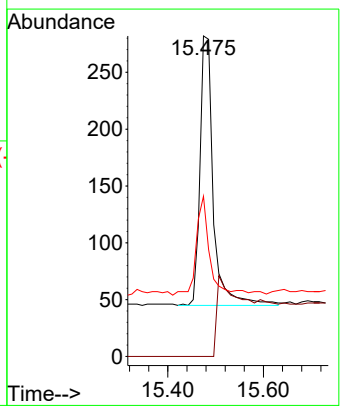


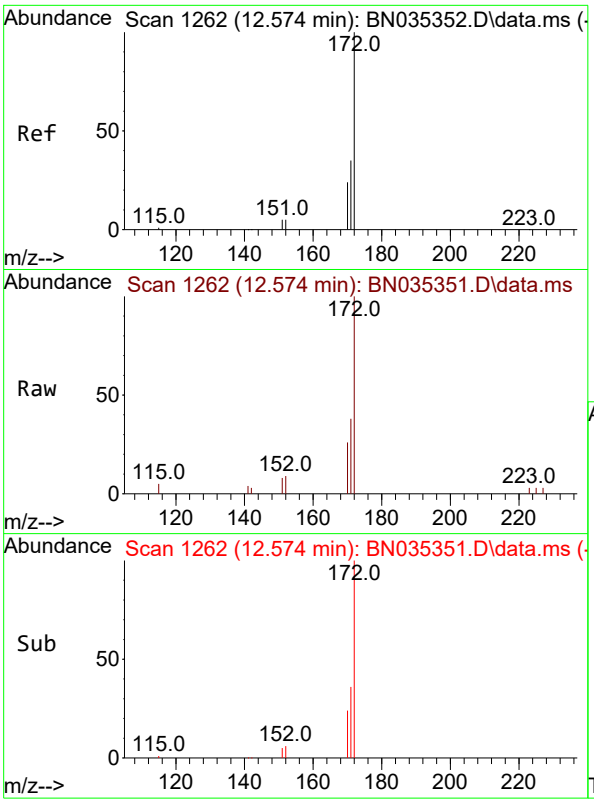




#14
2,4,6-Tribromophenol
Concen: 0.179 ng
RT: 15.475 min Scan# 1578
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:330 Resp: 492

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 0.0 | 0.0 | 0.0 |
| 141 | 37.2 | 26.6 | 40.0 |



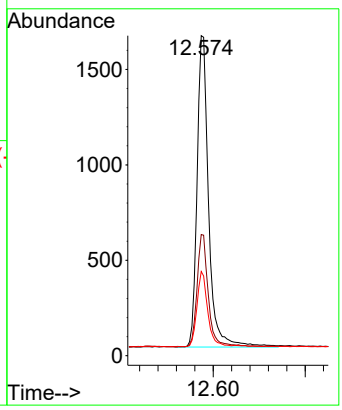


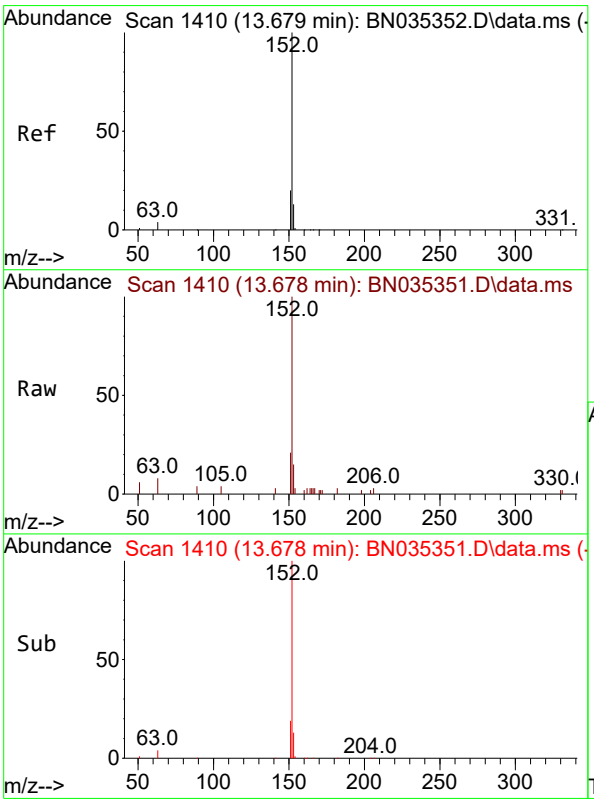

#15
2-Fluorobiphenyl
Concen: 0.184 ng
RT: 12.574 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.2

Tgt Ion:172 Resp: 2838

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 37.9 | 29.0 | 43.4 |
| 170 | 26.3 | 19.8 | 29.8 |

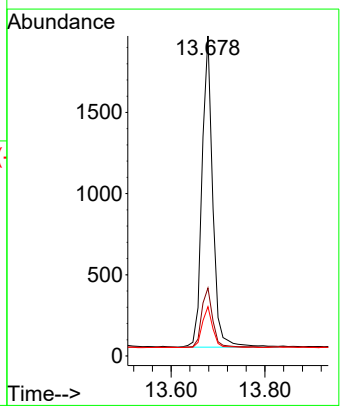


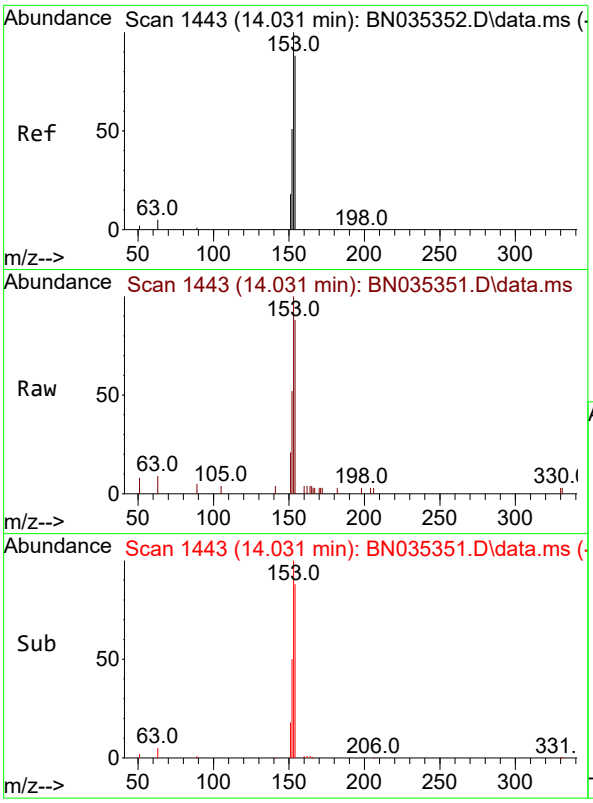




#16
Acenaphthylene
Concen: 0.187 ng
RT: 13.678 min Scan# 1410
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:152 Resp: 3047

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 19.8 | 16.2 | 24.2 |
| 153 | 12.9 | 10.4 | 15.6 |



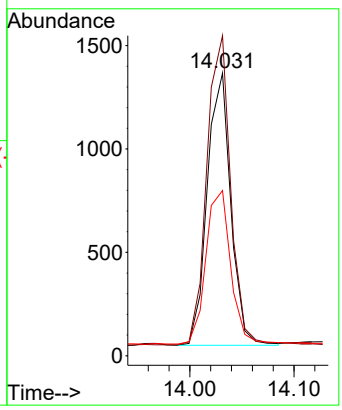


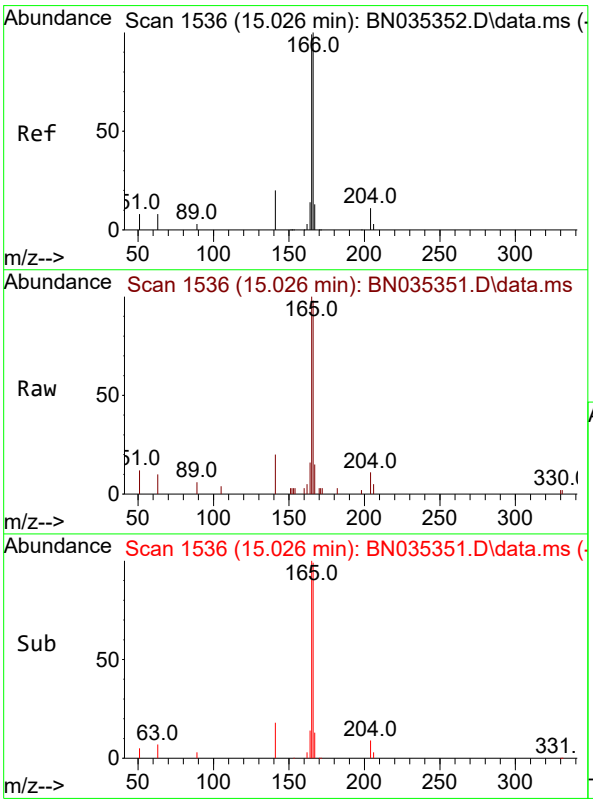

#17
Acenaphthene
Concen: 0.194 ng
RT: 14.031 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.2

Tgt Ion:154 Resp: 2064

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 115.2 | 92.6 | 139.0 |
| 152 | 60.7 | 49.0 | 73.6 |

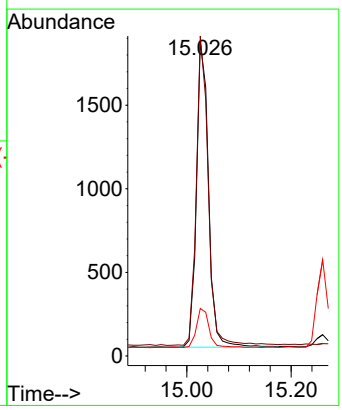


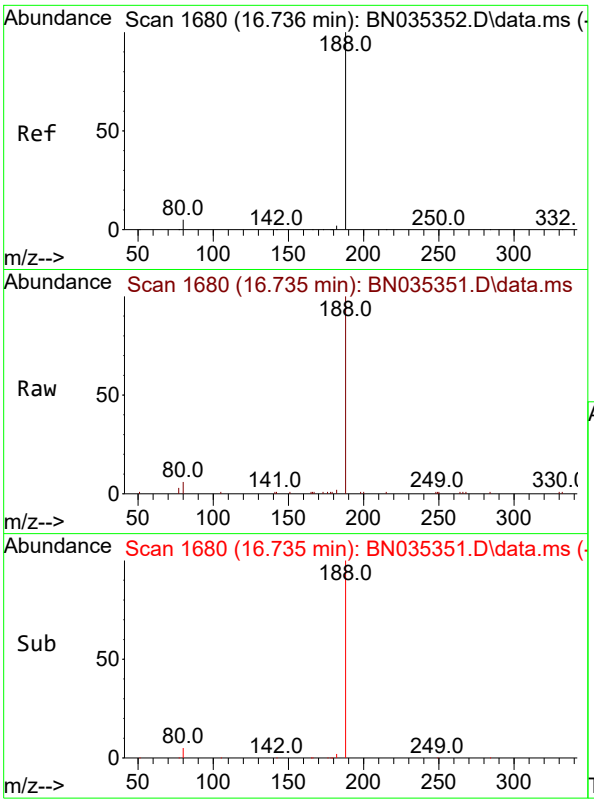




#18
Fluorene
Concen: 0.188 ng
RT: 15.026 min Scan# 1536
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:166 Resp: 2949

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 99.1 | 79.7 | 119.5 |
| 167 | 14.1 | 10.8 | 16.2 |



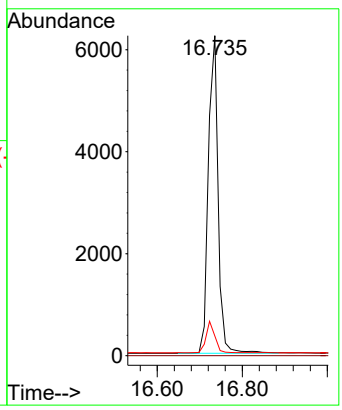


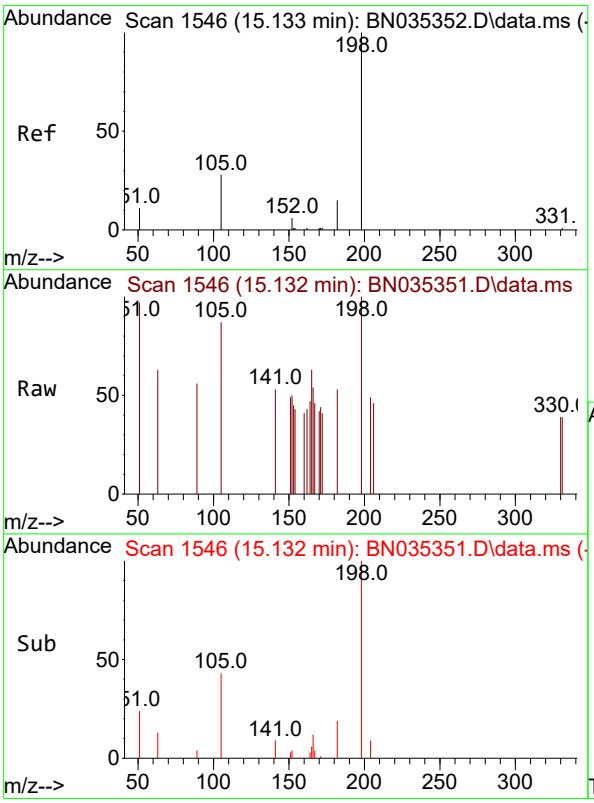

#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.735 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.2

Tgt Ion:188 Resp: 9904

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 6.2 | 4.6 | 6.8 |

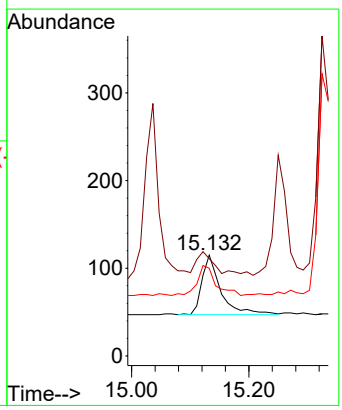


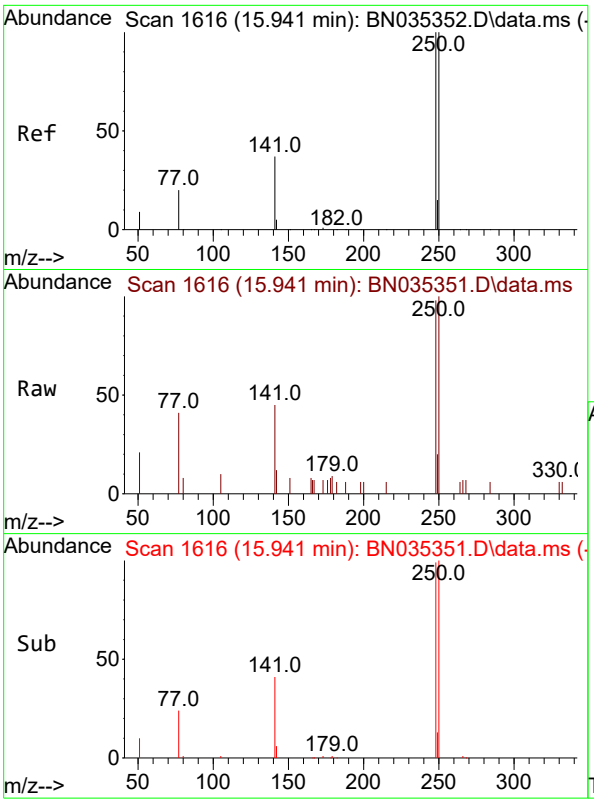




#20
4,6-Dinitro-2-methylphenol
Concen: 0.074 ng
RT: 15.132 min Scan# 1546
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:198 Resp: 153

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 198 | 100 | | |
| 51 | 96.5 | 46.5 | 69.7# |
| 105 | 87.0 | 45.3 | 67.9# |



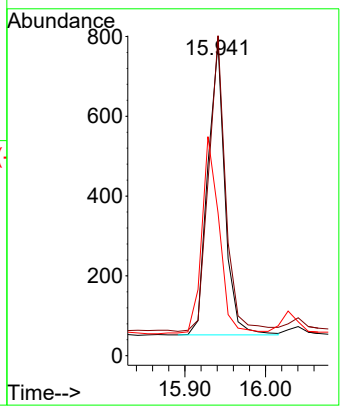


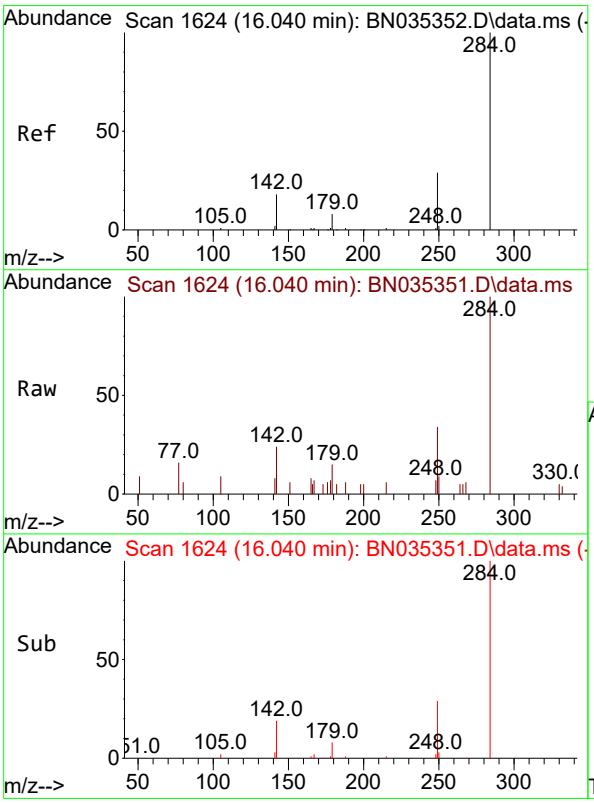

#21
4-Bromophenyl-phenylether
Concen: 0.171 ng
RT: 15.941 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.2

Tgt Ion:248 Resp: 1081

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 102.3 | 80.6 | 120.8 |
| 141 | 45.7 | 31.5 | 47.3 |

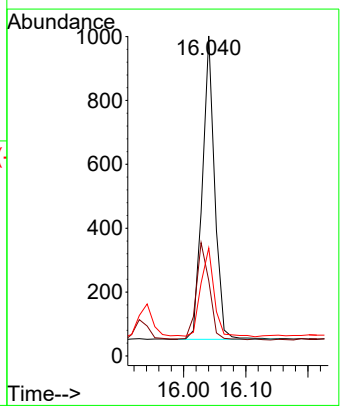


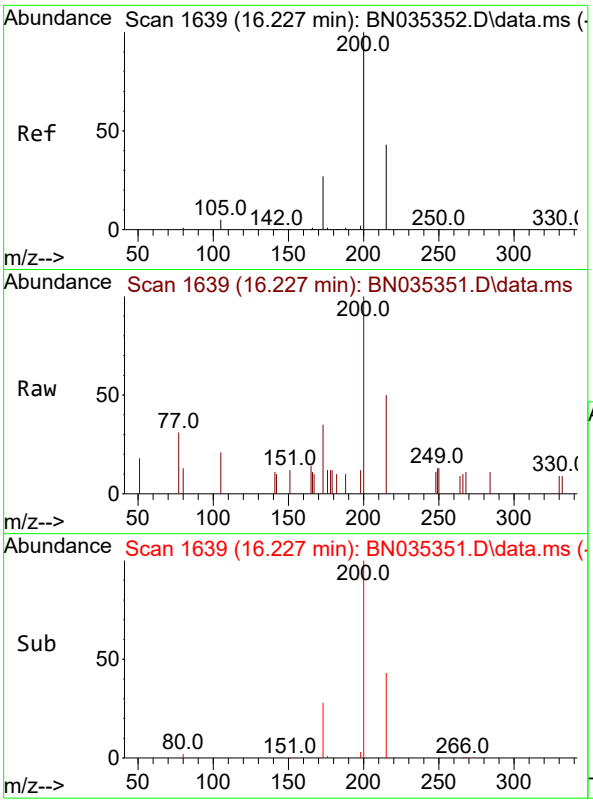




#22
Hexachlorobenzene
Concen: 0.201 ng
RT: 16.040 min Scan# 1624
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:284 Resp: 1318

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 34.2 | 26.7 | 40.1 |
| 249 | 32.0 | 24.6 | 36.8 |



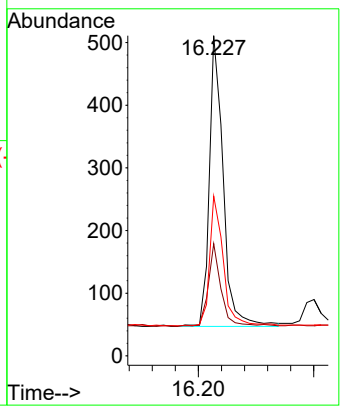


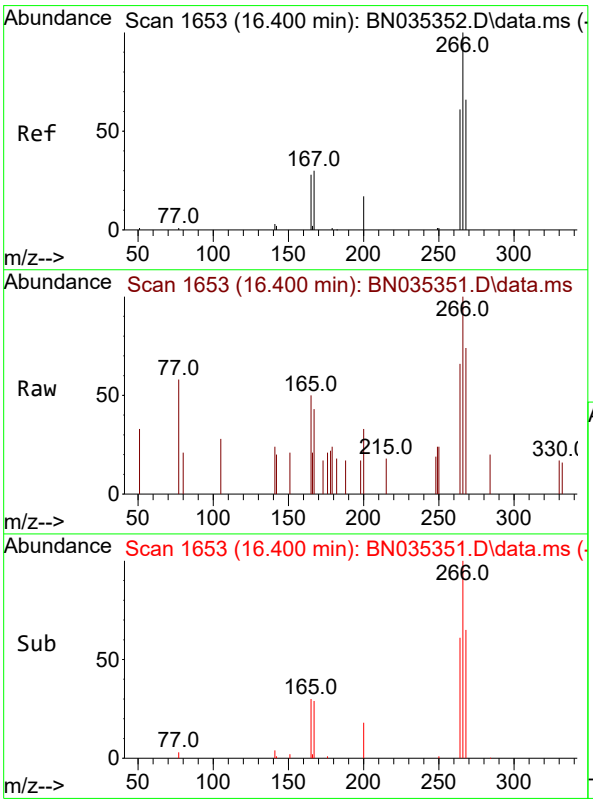

#23
Atrazine
Concen: 0.136 ng
RT: 16.227 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.2

Tgt Ion:200 Resp: 770

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 173 | 35.0 | 24.1 | 36.1 |
| 215 | 49.9 | 36.9 | 55.3 |

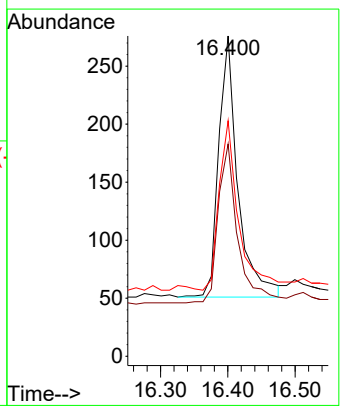


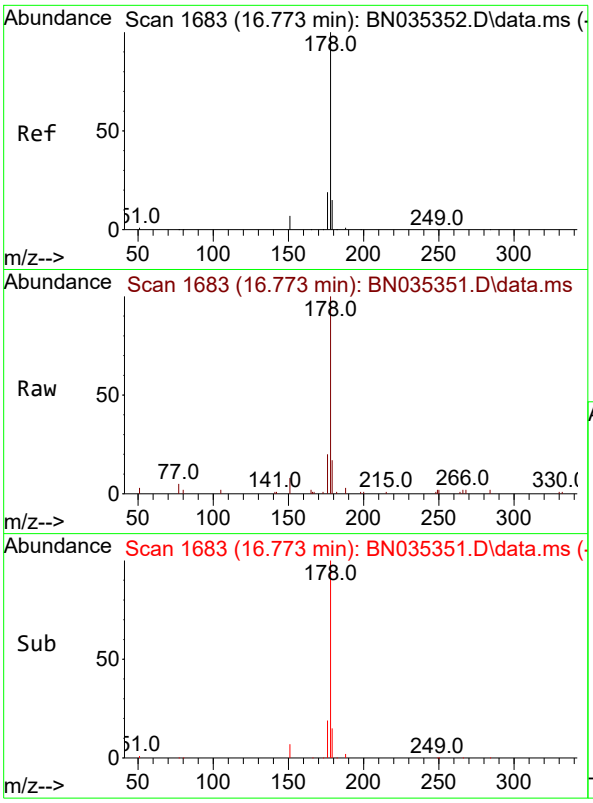




#24
Pentachlorophenol
Concen: 0.145 ng
RT: 16.400 min Scan# 1653
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:266 Resp: 445

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 264 | 62.7 | 42.3 | 63.5 |
| 268 | 67.2 | 43.3 | 64.9# |



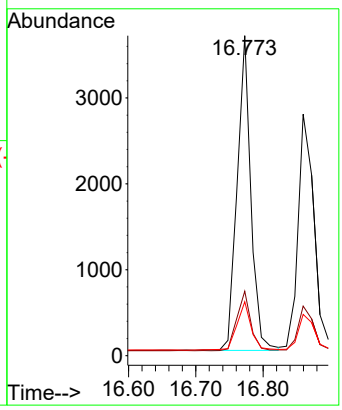


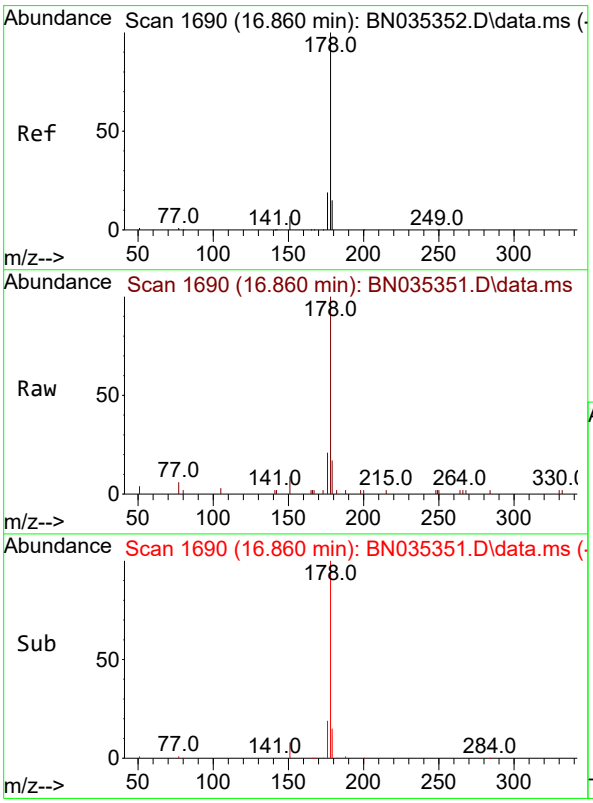

#25
Phenanthrene
Concen: 0.199 ng
RT: 16.773 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.2

Tgt Ion:178 Resp: 5182

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.9 | 15.4 | 23.2 |
| 179 | 15.9 | 12.3 | 18.5 |

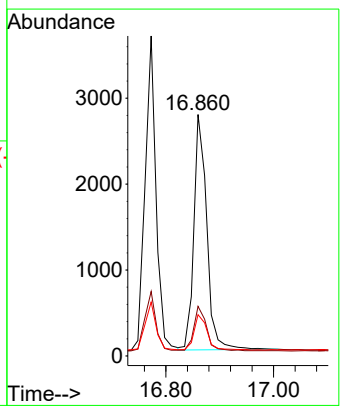


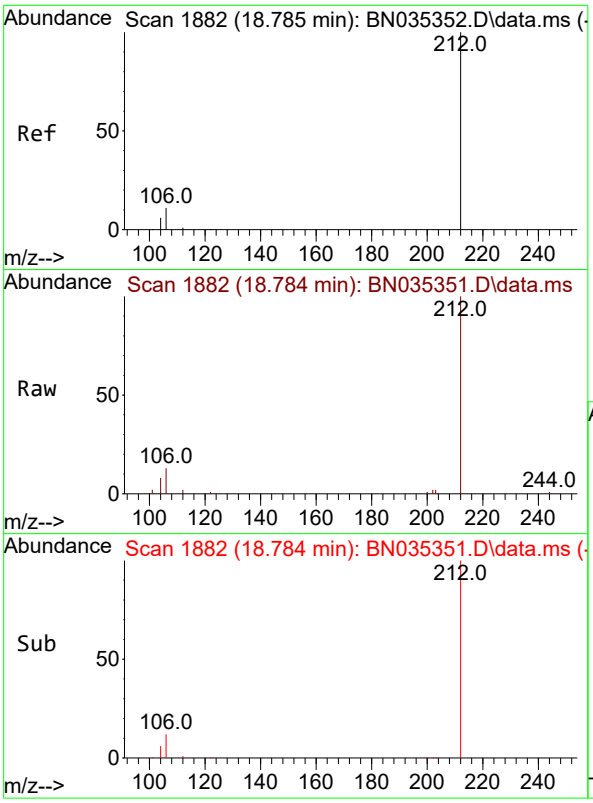




#26
Anthracene
Concen: 0.191 ng
RT: 16.860 min Scan# 1690
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:178 Resp: 4571

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.7 | 15.0 | 22.6 |
| 179 | 15.4 | 12.6 | 18.8 |



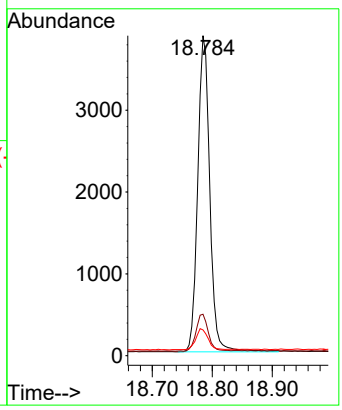


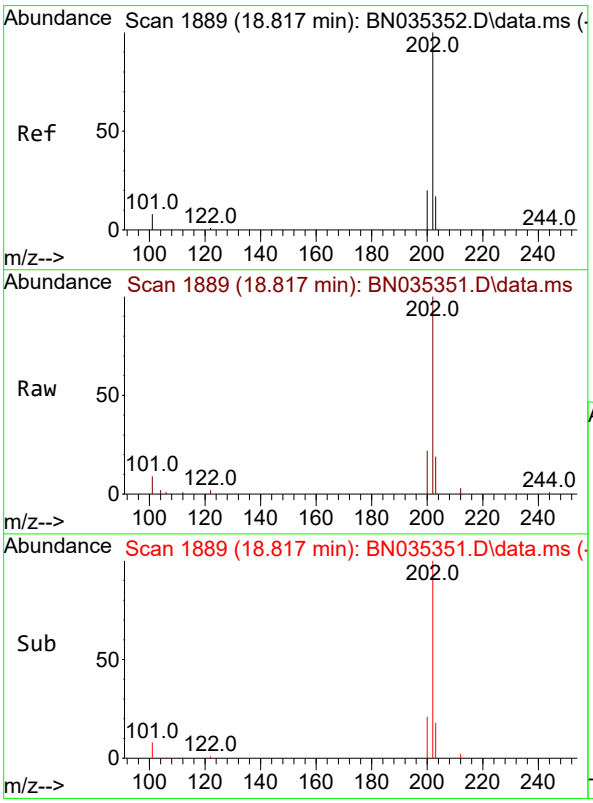

#27
Fluoranthene-d10
Concen: 0.177 ng
RT: 18.784 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.2

Tgt Ion:212 Resp: 5379

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 11.8 | 9.2 | 13.8 |
| 104 | 6.9 | 5.3 | 7.9 |

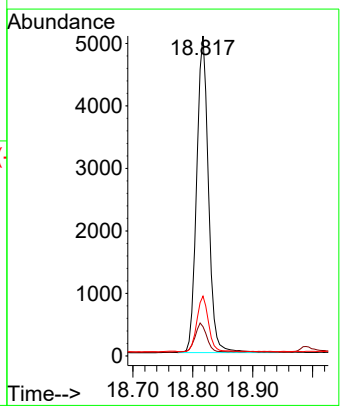


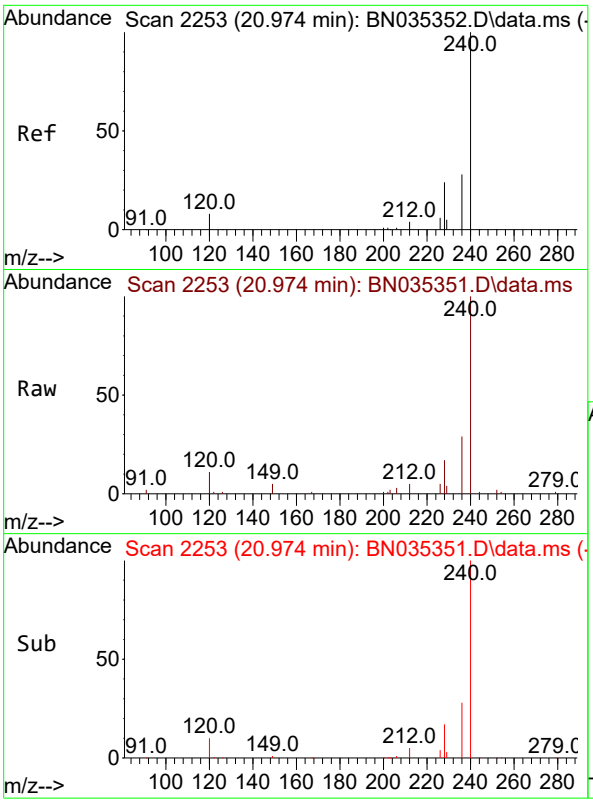




#28
Fluoranthene
Concen: 0.193 ng
RT: 18.817 min Scan# 1889
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:202 Resp: 6914

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 9.3 | 7.4 | 11.0 |
| 203 | 17.3 | 13.7 | 20.5 |



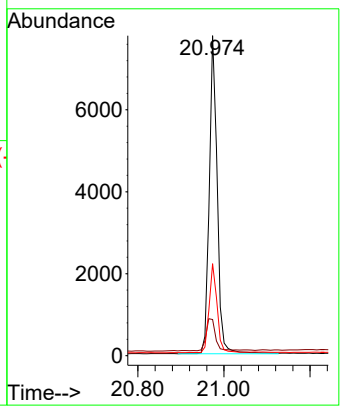


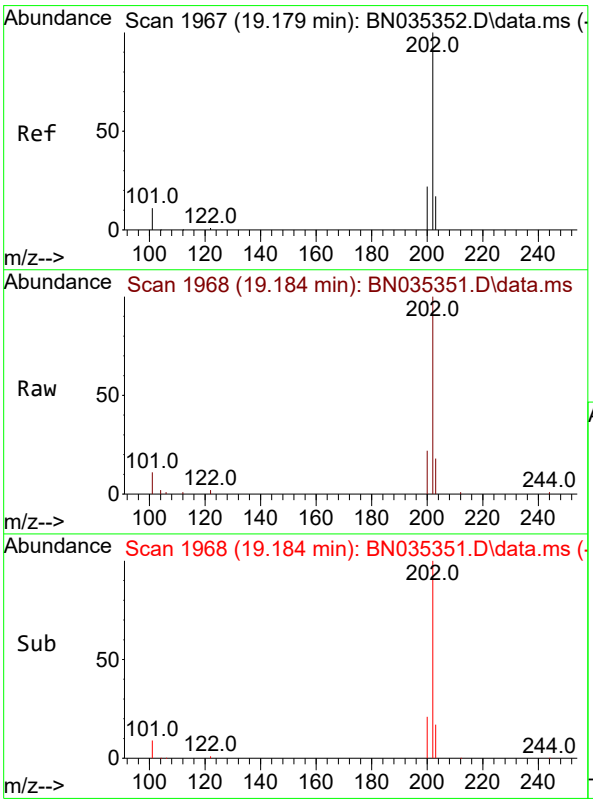

#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.974 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.2

Tgt Ion:240 Resp: 9963

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 11.3 | 7.9 | 11.9 |
| 236 | 28.8 | 22.9 | 34.3 |

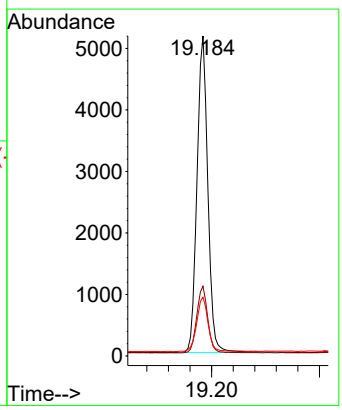


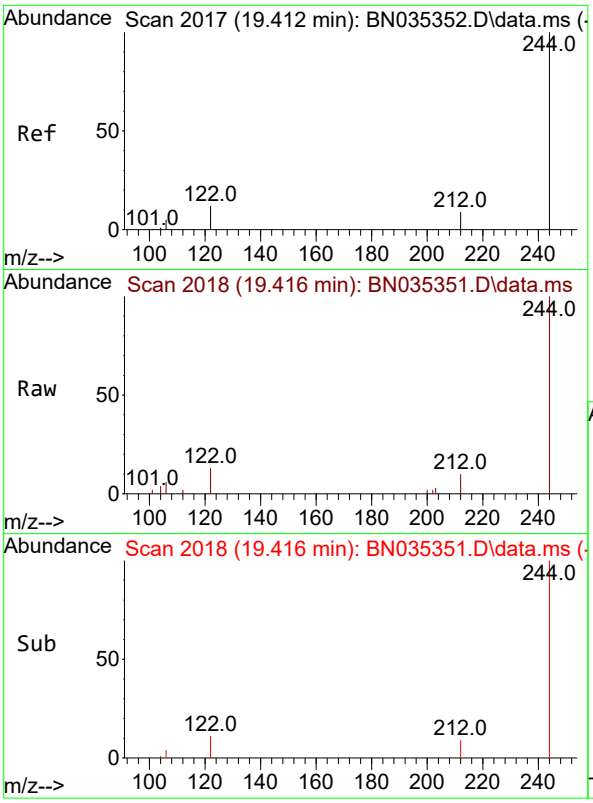




#30
Pyrene
Concen: 0.217 ng
RT: 19.184 min Scan# 1968
Delta R.T. 0.005 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:202 Resp: 7198

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.3 | 17.0 | 25.4 |
| 203 | 18.0 | 14.3 | 21.5 |



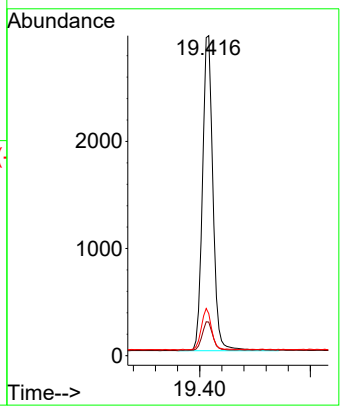


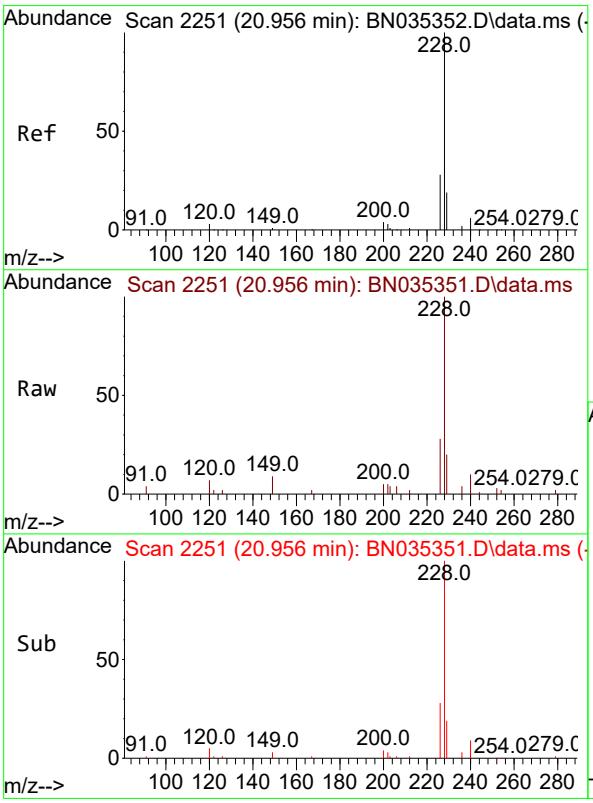

#31
Terphenyl-d14
Concen: 0.185 ng
RT: 19.416 min Scan# 2
Delta R.T. 0.005 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.2

Tgt Ion:244 Resp: 3871

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 10.5 | 8.1 | 12.1 |
| 122 | 13.1 | 10.3 | 15.5 |

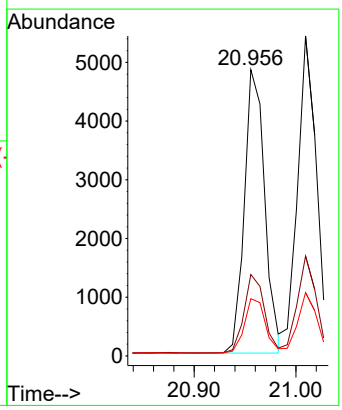


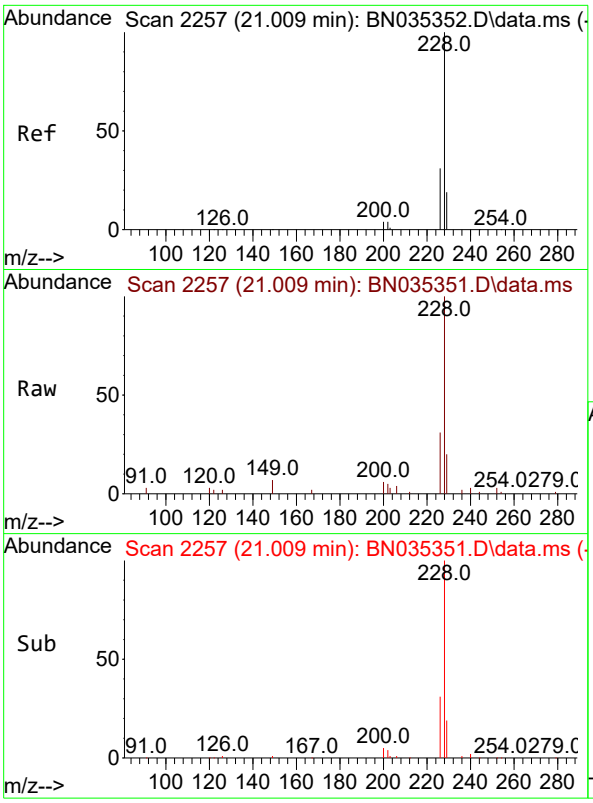




#32
Benzo(a)anthracene
Concen: 0.193 ng
RT: 20.956 min Scan# 2251
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:228 Resp: 6691

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 28.4 | 22.5 | 33.7 |
| 229 | 20.0 | 15.8 | 23.8 |



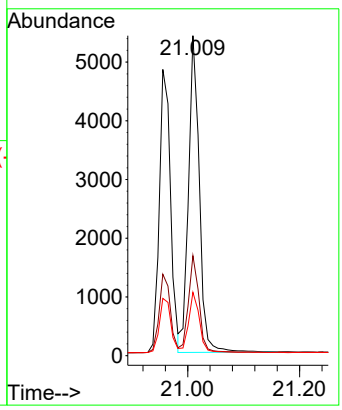


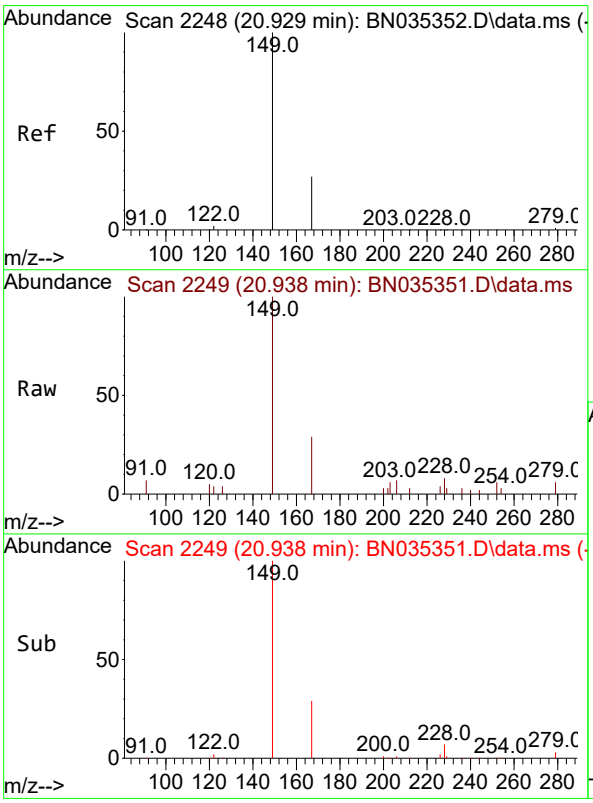

#33
Chrysene
Concen: 0.211 ng
RT: 21.009 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.2

Tgt Ion:228 Resp: 7234

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 31.2 | 24.6 | 37.0 |
| 229 | 19.8 | 15.9 | 23.9 |

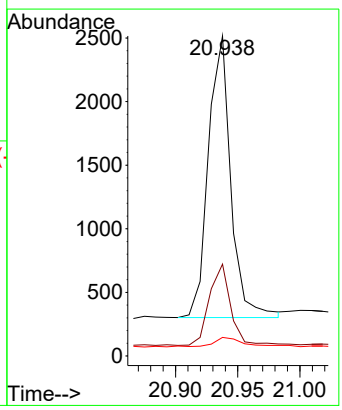


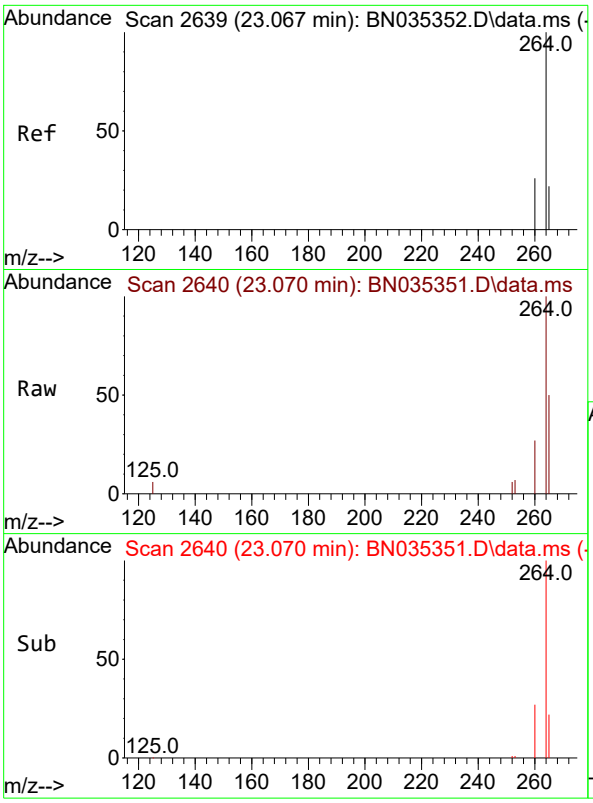




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.153 ng
RT: 20.938 min Scan# 2249
Delta R.T. 0.009 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:149 Resp: 2779

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 27.5 | 22.2 | 33.4 |
| 279 | 4.8 | 2.7 | 4.1# |



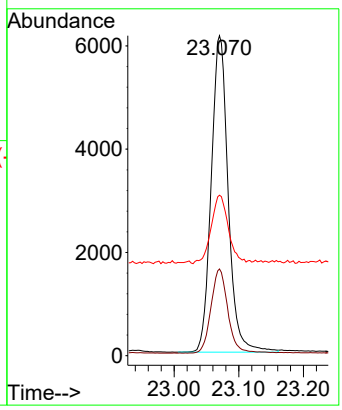


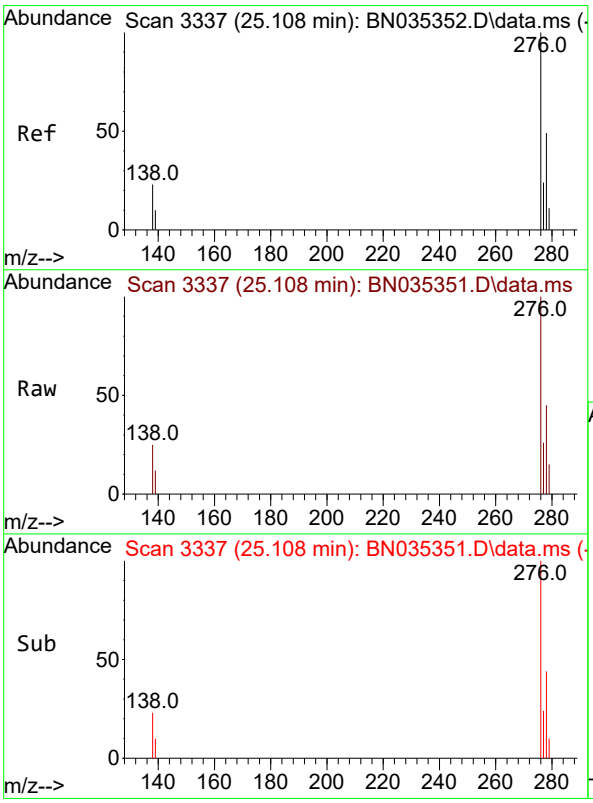

#35
Perylene-d12
Concen: 0.400 ng
RT: 23.070 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.2

Tgt Ion:264 Resp: 11158

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 27.1 | 21.4 | 32.2 |
| 265 | 50.2 | 40.2 | 60.4 |

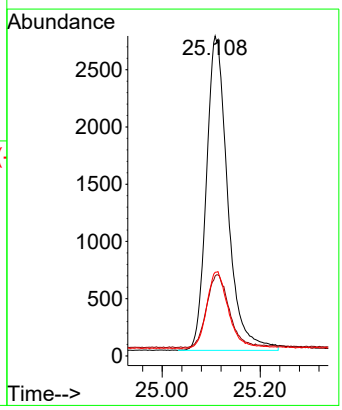


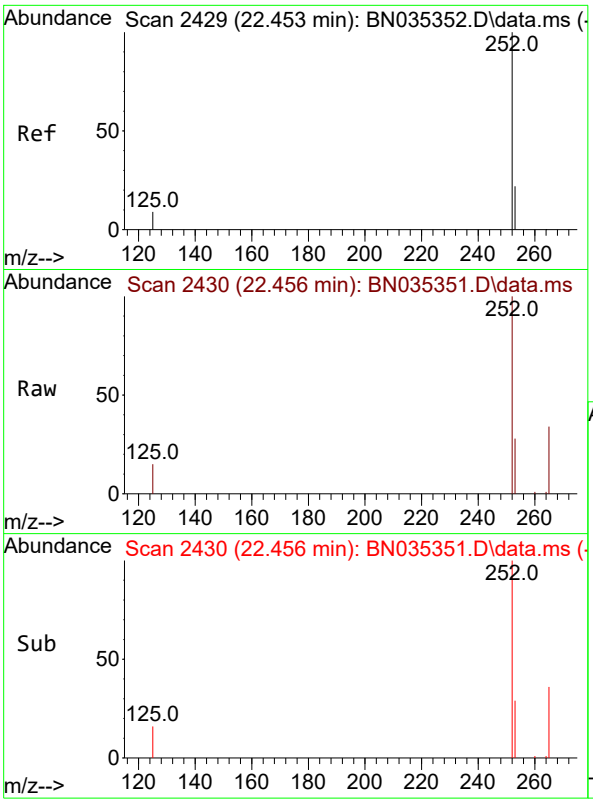




#36
Indeno(1,2,3-cd)pyrene
Concen: 0.187 ng
RT: 25.108 min Scan# 3337
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:276 Resp: 8305

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 24.3 | 19.4 | 29.0 |
| 277 | 24.7 | 19.8 | 29.6 |



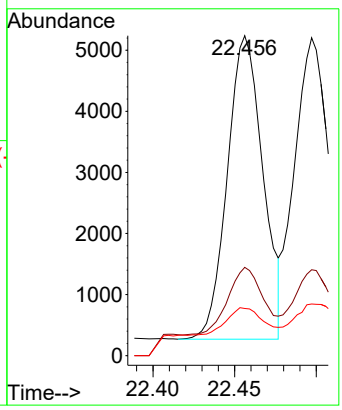


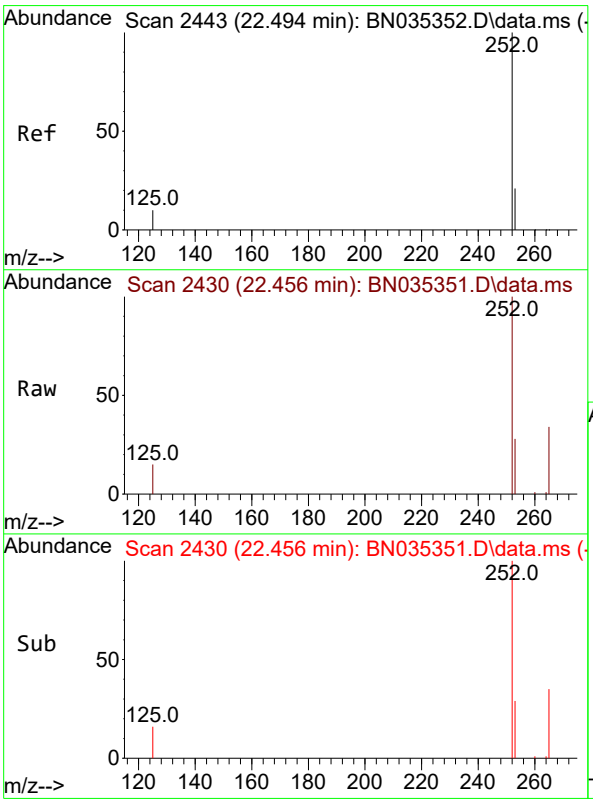

#37
Benzo(b)fluoranthene
Concen: 0.200 ng
RT: 22.456 min Scan# 24
Delta R.T. 0.003 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.2

Tgt Ion:252 Resp: 7522

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 27.6 | 19.6 | 29.4 |
| 125 | 14.8 | 9.6 | 14.4# |

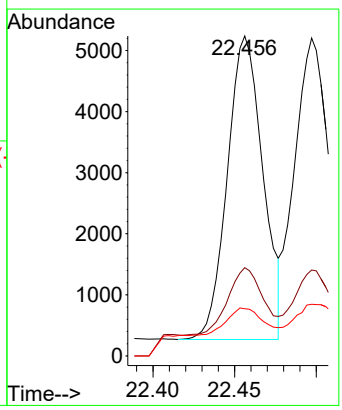


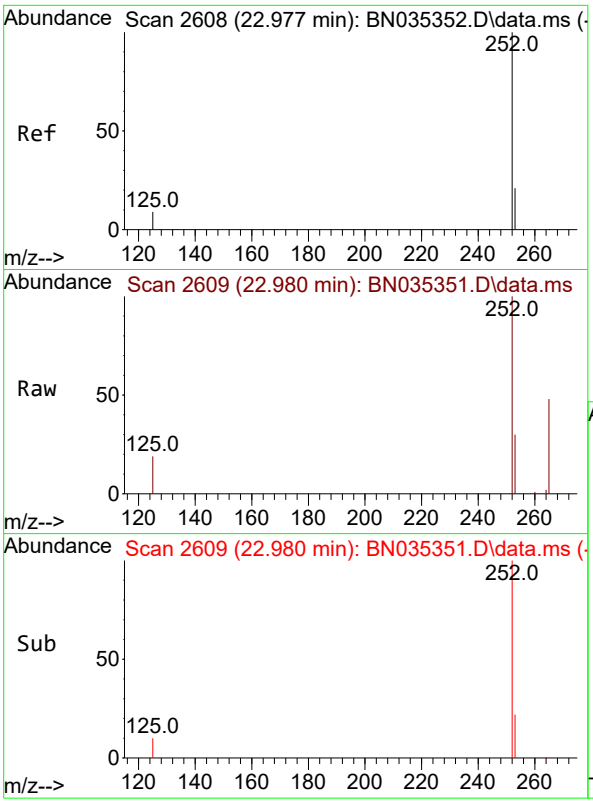




#38
Benzo(k)fluoranthene
Concen: 0.200 ng
RT: 22.456 min Scan# 2430
Delta R.T. -0.038 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:252 Resp: 7522

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 27.6 | 19.5 | 29.3 |
| 125 | 14.8 | 10.2 | 15.4 |



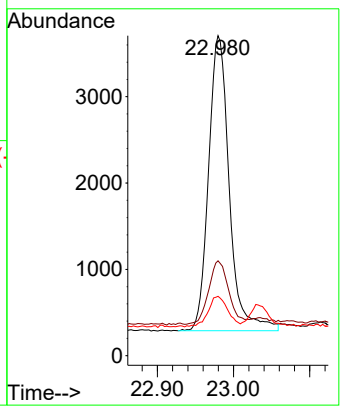


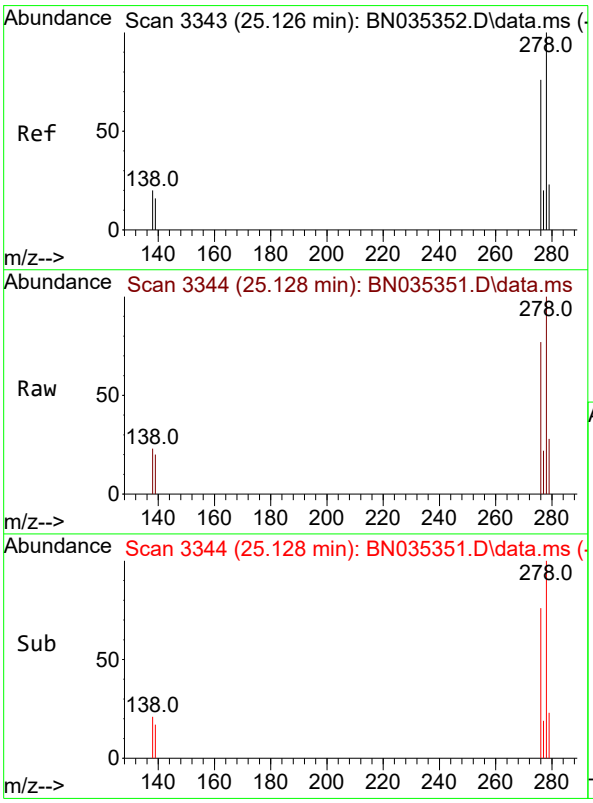

#39
Benzo(a)pyrene
Concen: 0.195 ng
RT: 22.980 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.2

Tgt Ion:252 Resp: 6450

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 29.7 | 20.2 | 30.4 |
| 125 | 18.5 | 10.9 | 16.3# |

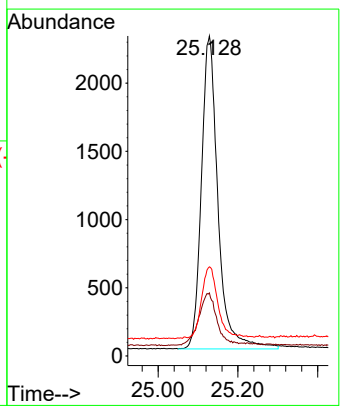


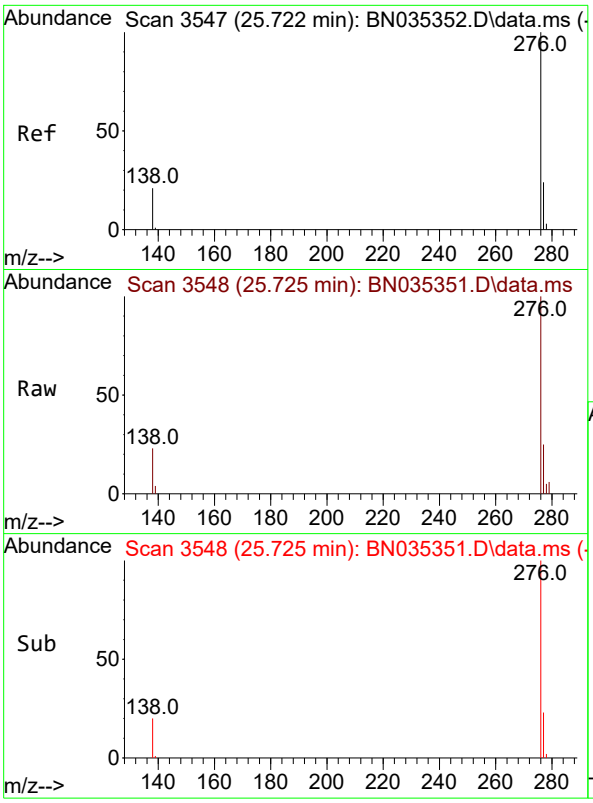




#40
Dibenzo(a,h)anthracene
Concen: 0.188 ng
RT: 25.128 min Scan# 3344
Delta R.T. 0.003 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:278 Resp: 6620

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 19.7 | 14.2 | 21.4 |
| 279 | 27.9 | 20.5 | 30.7 |



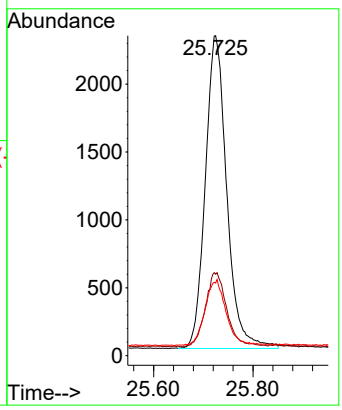



#41
Benzo(g,h,i)perylene
Concen: 0.184 ng
RT: 25.725 min Scan# 3
Delta R.T. 0.003 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.2

Tgt Ion:276 Resp: 6908

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 25.5 | 19.9 | 29.9 |
| 138 | 22.7 | 17.8 | 26.8 |



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035352.D
Acq On : 27 Nov 2024 16:46
Operator : RC/JU
Sample : SSTDICCC0.4
Misc :
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICCC0.4

Quant Time: Nov 27 22:52:52 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration

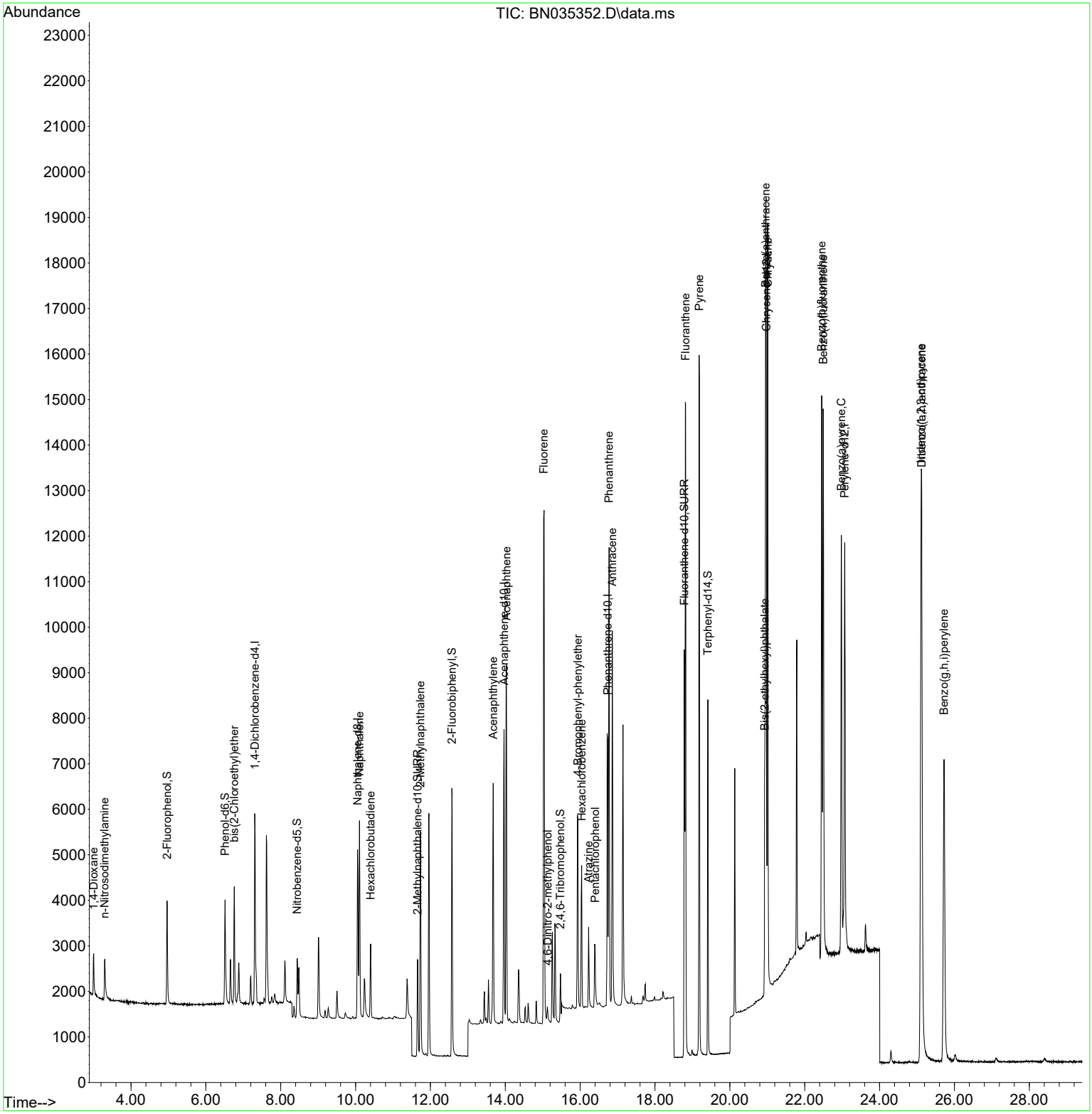
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.308 | 152 | 2048 | 0.400 | ng | | 0.00 |
| 7) Naphthalene-d8 | 10.052 | 136 | 5229 | 0.400 | ng | | 0.00 |
| 13) Acenaphthene-d10 | 13.967 | 164 | 3799 | 0.400 | ng | | 0.00 |
| 19) Phenanthrene-d10 | 16.736 | 188 | 9490 | 0.400 | ng | | 0.00 |
| 29) Chrysene-d12 | 20.974 | 240 | 9527 | 0.400 | ng | | 0.00 |
| 35) Perylene-d12 | 23.067 | 264 | 10842 | 0.400 | ng | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 4) 2-Fluorophenol | 4.968 | 112 | 2085 | 0.401 | ng | | 0.00 |
| 5) Phenol-d6 | 6.513 | 99 | 2444 | 0.375 | ng | | 0.00 |
| 8) Nitrobenzene-d5 | 8.440 | 82 | 1371 | 0.301 | ng | | 0.00 |
| 11) 2-Methylnaphthalene-d10 | 11.656 | 152 | 3237 | 0.347 | ng | | 0.00 |
| 14) 2,4,6-Tribromophenol | 15.475 | 330 | 975 | 0.356 | ng | | 0.00 |
| 15) 2-Fluorobiphenyl | 12.574 | 172 | 5735 | 0.372 | ng | | 0.00 |
| 27) Fluoranthene-d10 | 18.785 | 212 | 10223 | 0.352 | ng | | 0.00 |
| 31) Terphenyl-d14 | 19.412 | 244 | 7533 | 0.377 | ng | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.003 | 88 | 771 | 0.414 | ng | | 100 |
| 3) n-Nitrosodimethylamine | 3.292 | 42 | 668 | 0.385 | ng | | 100 |
| 6) bis(2-Chloroethyl)ether | 6.759 | 93 | 2032 | 0.415 | ng | | 100 |
| 9) Naphthalene | 10.105 | 128 | 5475 | 0.401 | ng | | 100 |
| 10) Hexachlorobutadiene | 10.404 | 225 | 1292 | 0.323 | ng | # | 100 |
| 12) 2-Methylnaphthalene | 11.732 | 142 | 3867 | 0.384 | ng | | 100 |
| 16) Acenaphthylene | 13.679 | 152 | 6058 | 0.373 | ng | | 100 |
| 17) Acenaphthene | 14.031 | 154 | 4125 | 0.388 | ng | | 100 |
| 18) Fluorene | 15.026 | 166 | 5863 | 0.375 | ng | | 100 |
| 20) 4,6-Dinitro-2-methylph... | 15.133 | 198 | 337 | 0.171 | ng | | 100 |
| 21) 4-Bromophenyl-phenylether | 15.941 | 248 | 2146 | 0.355 | ng | | 100 |
| 22) Hexachlorobenzene | 16.040 | 284 | 2590 | 0.413 | ng | | 100 |
| 23) Atrazine | 16.227 | 200 | 1461 | 0.269 | ng | | 100 |
| 24) Pentachlorophenol | 16.400 | 266 | 906 | 0.309 | ng | | 87 |
| 25) Phenanthrene | 16.773 | 178 | 10127 | 0.405 | ng | | 100 |
| 26) Anthracene | 16.860 | 178 | 8921 | 0.389 | ng | | 100 |
| 28) Fluoranthene | 18.817 | 202 | 13438 | 0.391 | ng | | 100 |
| 30) Pyrene | 19.179 | 202 | 14053 | 0.443 | ng | | 100 |
| 32) Benzo(a)anthracene | 20.956 | 228 | 12908 | 0.389 | ng | | 100 |
| 33) Chrysene | 21.009 | 228 | 13729 | 0.418 | ng | | 100 |
| 34) Bis(2-ethylhexyl)phtha... | 20.929 | 149 | 4912 | 0.282 | ng | | 100 |
| 36) Indeno(1,2,3-cd)pyrene | 25.108 | 276 | 16615 | 0.384 | ng | | 100 |
| 37) Benzo(b)fluoranthene | 22.453 | 252 | 14235 | 0.390 | ng | | 100 |
| 38) Benzo(k)fluoranthene | 22.494 | 252 | 15199 | 0.416 | ng | | 100 |
| 39) Benzo(a)pyrene | 22.977 | 252 | 12425 | 0.387 | ng | | 100 |
| 40) Dibenzo(a,h)anthracene | 25.126 | 278 | 12948 | 0.378 | ng | | 100 |
| 41) Benzo(g,h,i)perylene | 25.722 | 276 | 13529 | 0.371 | ng | | 100 |

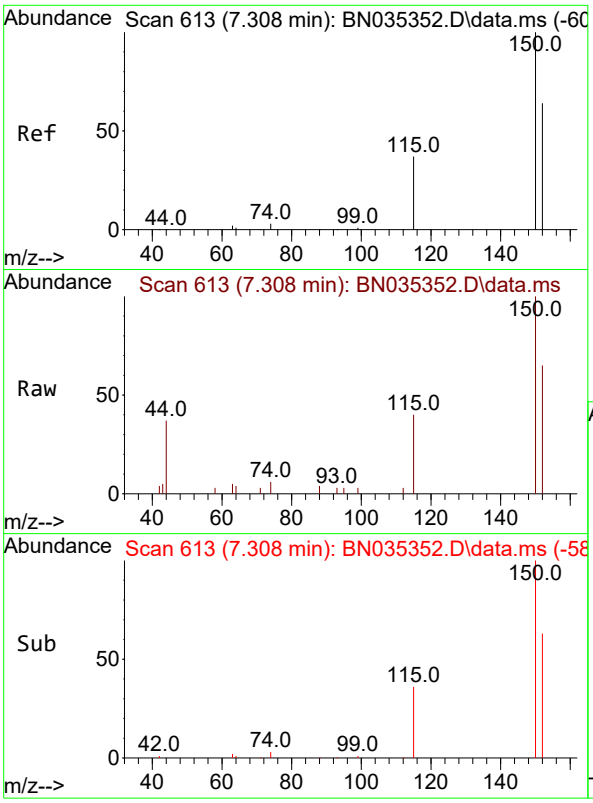
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035352.D
Acq On : 27 Nov 2024 16:46
Operator : RC/JU
Sample : SSTDICCC0.4
Misc :
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICCC0.4

Quant Time: Nov 27 22:52:52 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration



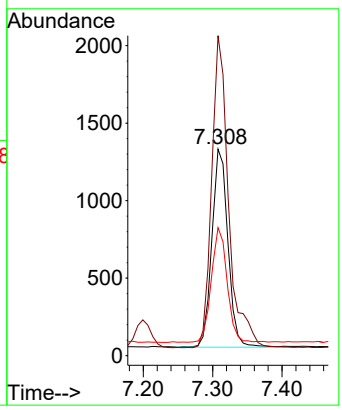


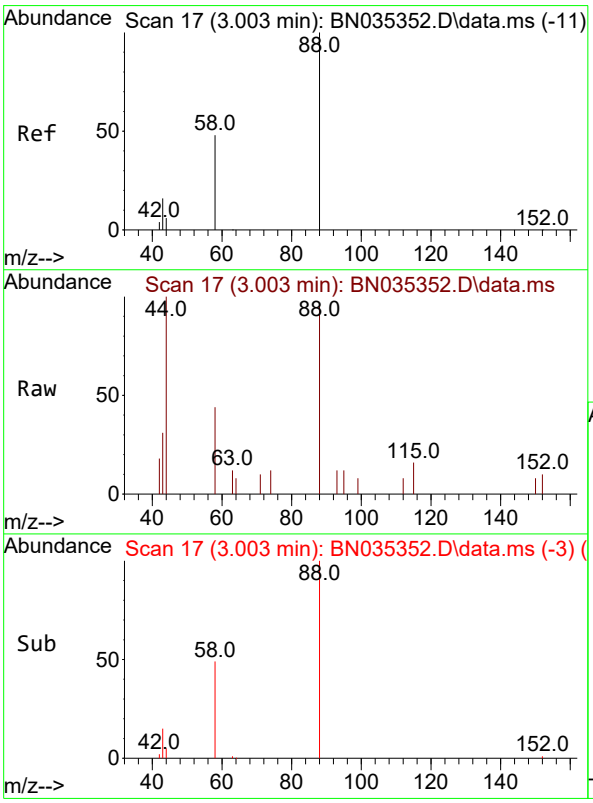

#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICCC0.4

Tgt Ion:152 Resp: 2048

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 155.0 | 124.0 | 186.0 |
| 115 | 62.0 | 49.6 | 74.4 |

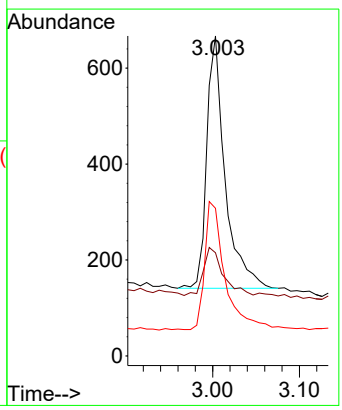


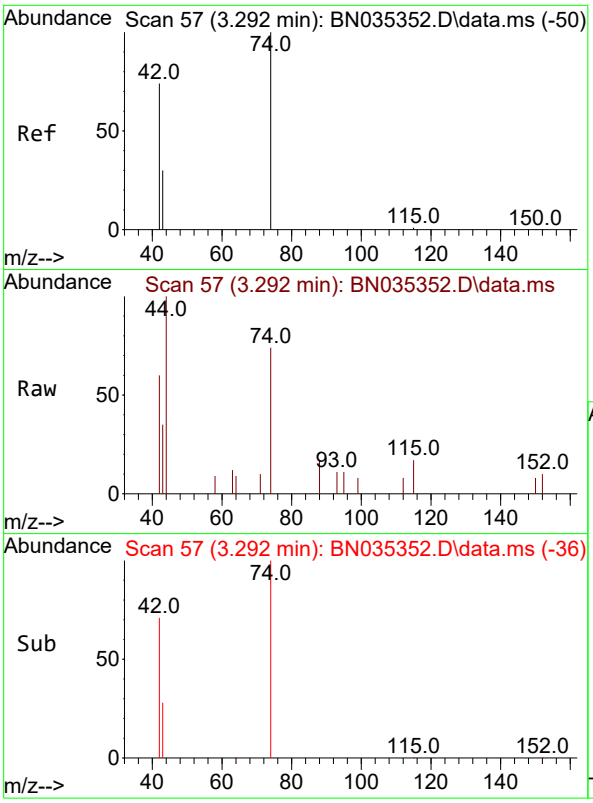




#2
1,4-Dioxane
Concen: 0.414 ng
RT: 3.003 min Scan# 17
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion: 88 Resp: 771

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 21.5 | 17.2 | 25.8 |
| 58 | 55.6 | 44.5 | 66.7 |



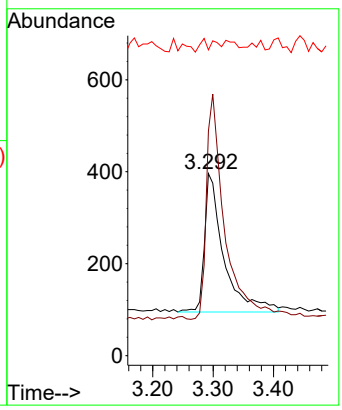


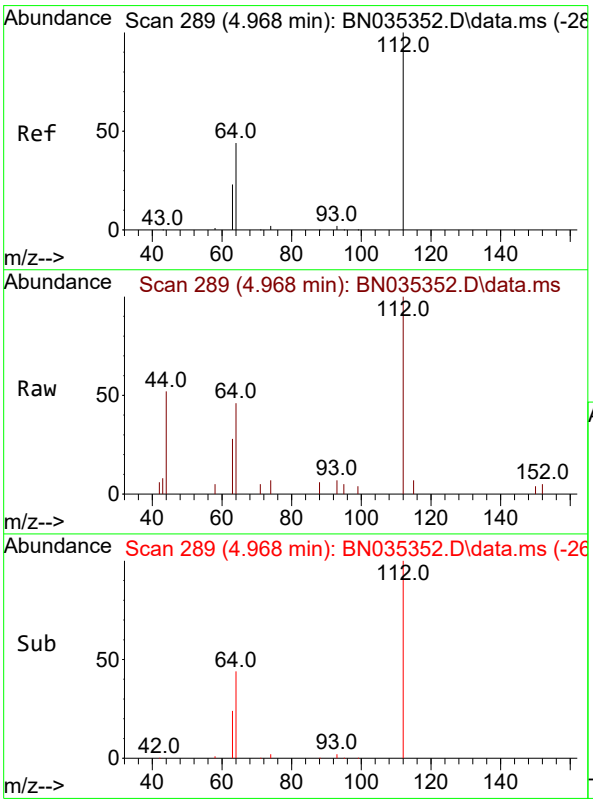

#3
n-Nitrosodimethylamine
Concen: 0.385 ng
RT: 3.292 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICCC0.4

Tgt Ion: 42 Resp: 668

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 156.1 | 124.9 | 187.3 |
| 44 | 2.8 | 2.2 | 3.4 |

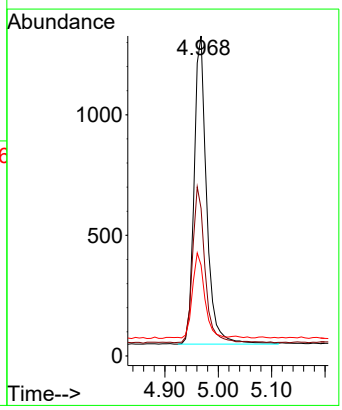


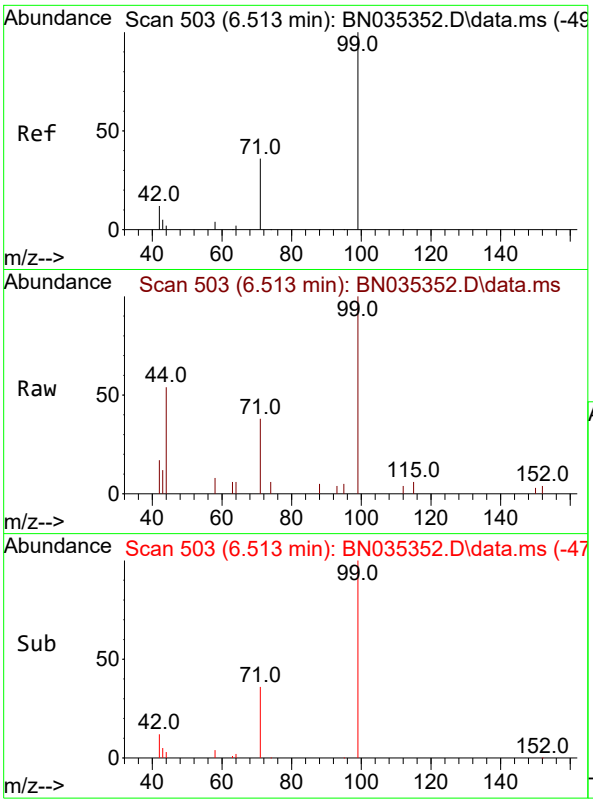




#4
2-Fluorophenol
Concen: 0.401 ng
RT: 4.968 min Scan# 289
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:112 Resp: 2085

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 49.8 | 39.8 | 59.8 |
| 63 | 26.3 | 21.0 | 31.6 |



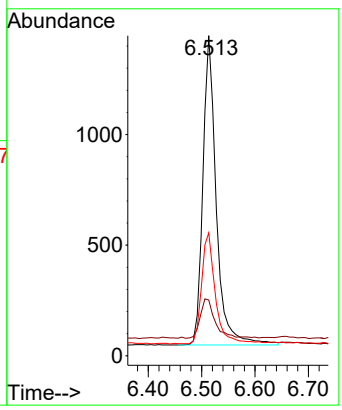


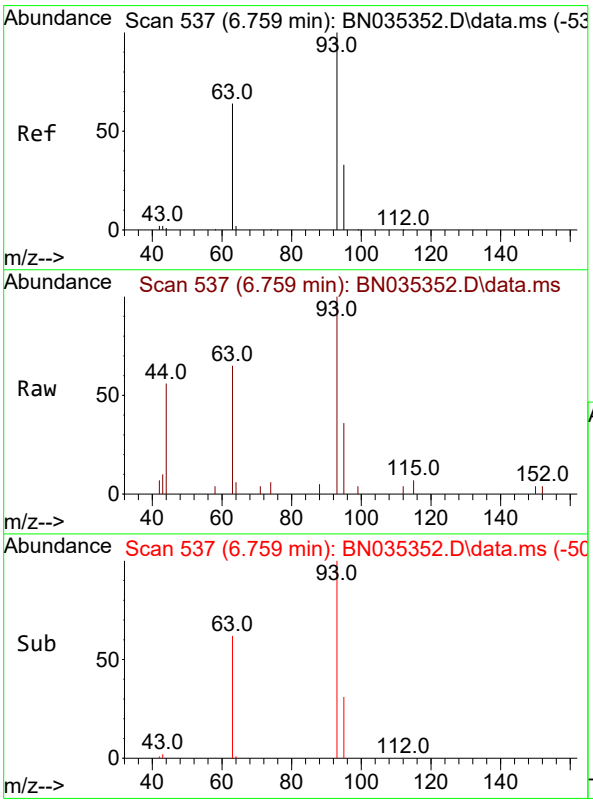

#5
Phenol-d6
Concen: 0.375 ng
RT: 6.513 min Scan# 5(
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICCC0.4

Tgt Ion: 99 Resp: 2444

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 14.3 | 11.4 | 17.2 |
| 71 | 36.6 | 29.3 | 43.9 |

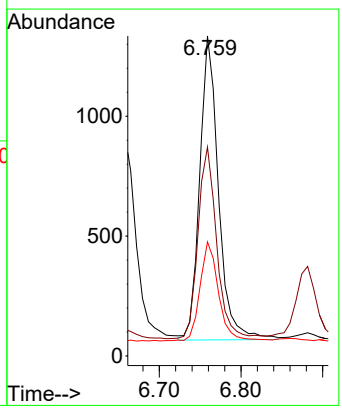


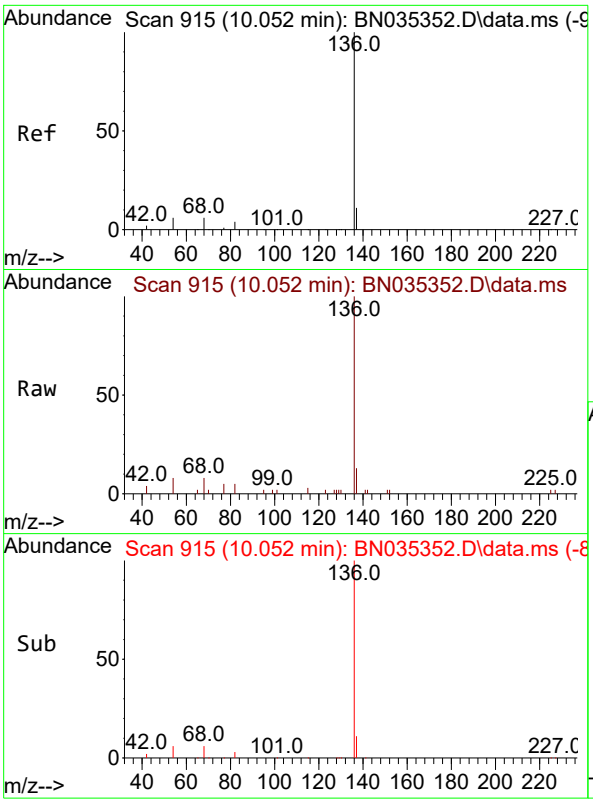




#6
bis(2-Chloroethyl)ether
Concen: 0.415 ng
RT: 6.759 min Scan# 537
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion: 93 Resp: 2032

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 63.0 | 50.4 | 75.6 |
| 95 | 32.1 | 25.7 | 38.5 |



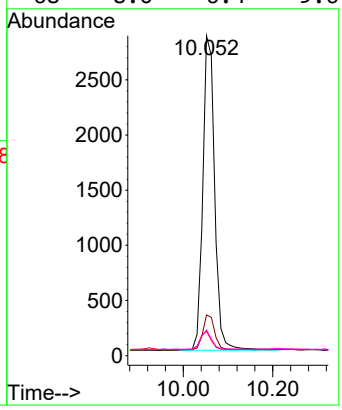


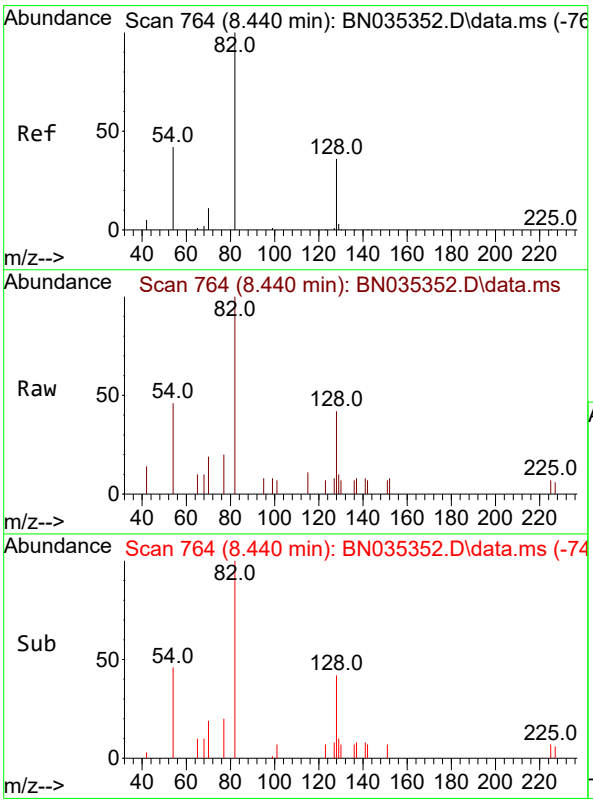

#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICCC0.4

Tgt Ion:136 Resp: 5229

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 12.7 | 10.2 | 15.2 |
| 54 | 7.6 | 6.1 | 9.1 |
| 68 | 8.0 | 6.4 | 9.6 |

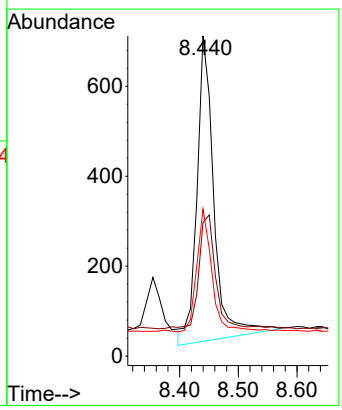


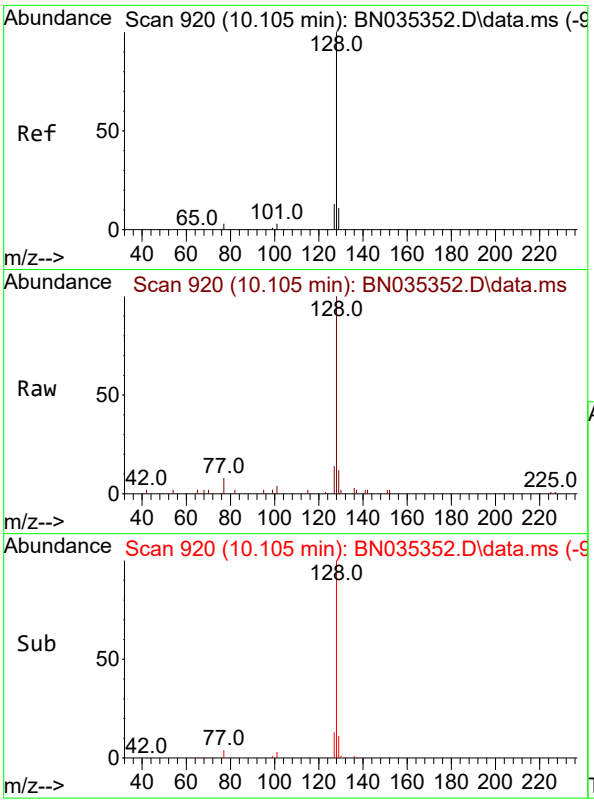




#8
Nitrobenzene-d5
Concen: 0.301 ng
RT: 8.440 min Scan# 764
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion: 82 Resp: 1371

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 41.7 | 33.4 | 50.0 |
| 54 | 45.9 | 36.7 | 55.1 |



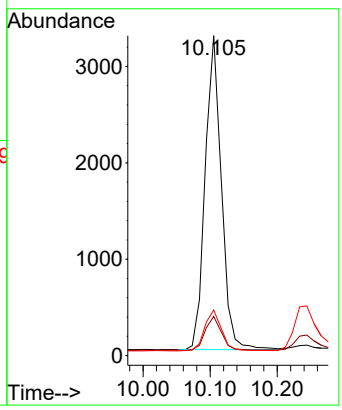


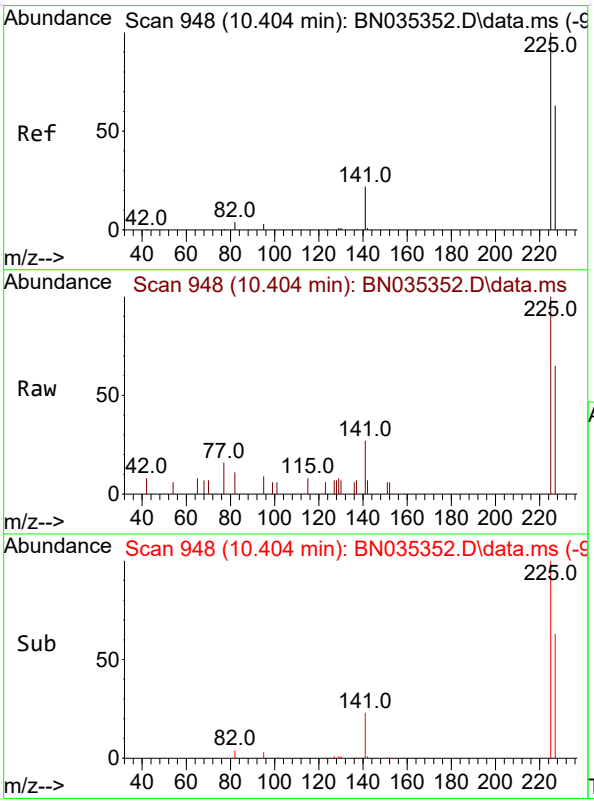

#9
Naphthalene
Concen: 0.401 ng
RT: 10.105 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICCC0.4

Tgt Ion:128 Resp: 5475

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 12.2 | 9.8 | 14.6 |
| 127 | 14.3 | 11.4 | 17.2 |

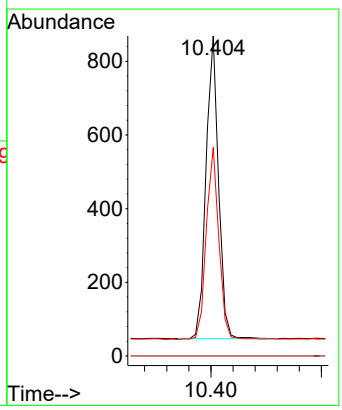


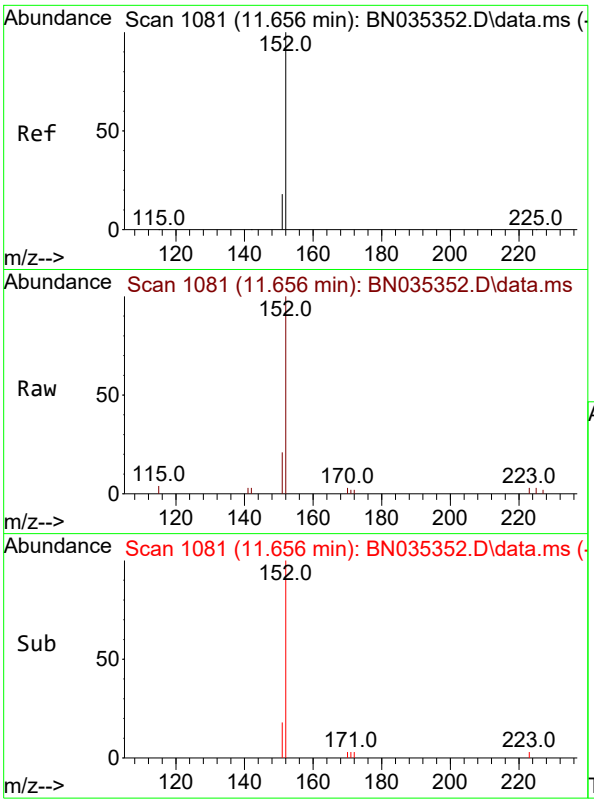




#10
Hexachlorobutadiene
Concen: 0.323 ng
RT: 10.404 min Scan# 948
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:225 Resp: 1292

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 0.0 | 0.0 | 0.0 |
| 227 | 64.1 | 51.3 | 76.9 |



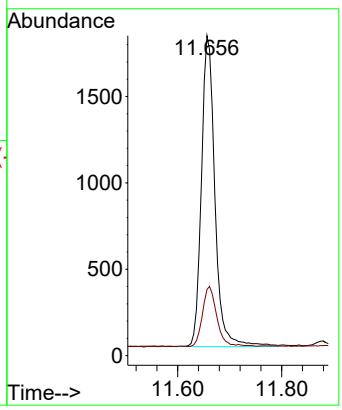


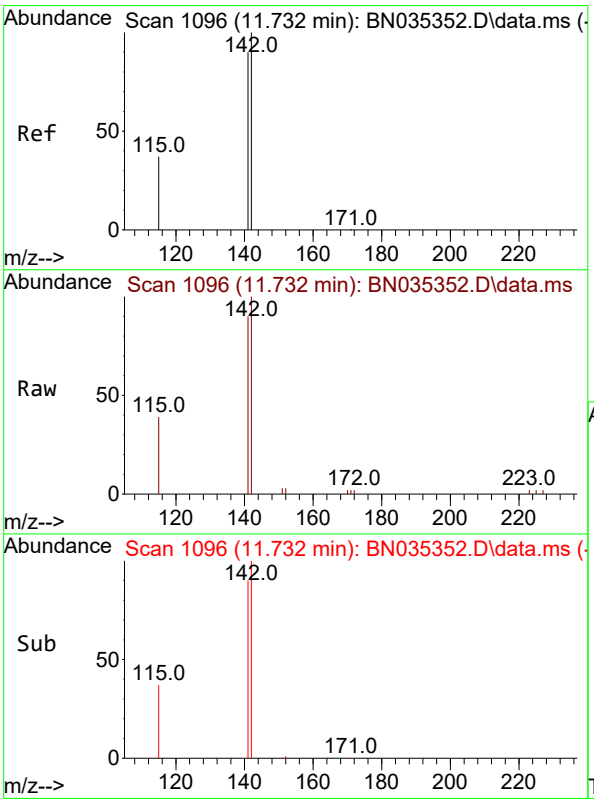

#11
2-Methylnaphthalene-d10
Concen: 0.347 ng
RT: 11.656 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICCC0.4

Tgt Ion:152 Resp: 3237

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.8 | 16.6 | 25.0 |

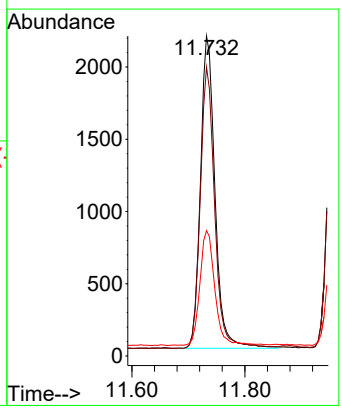


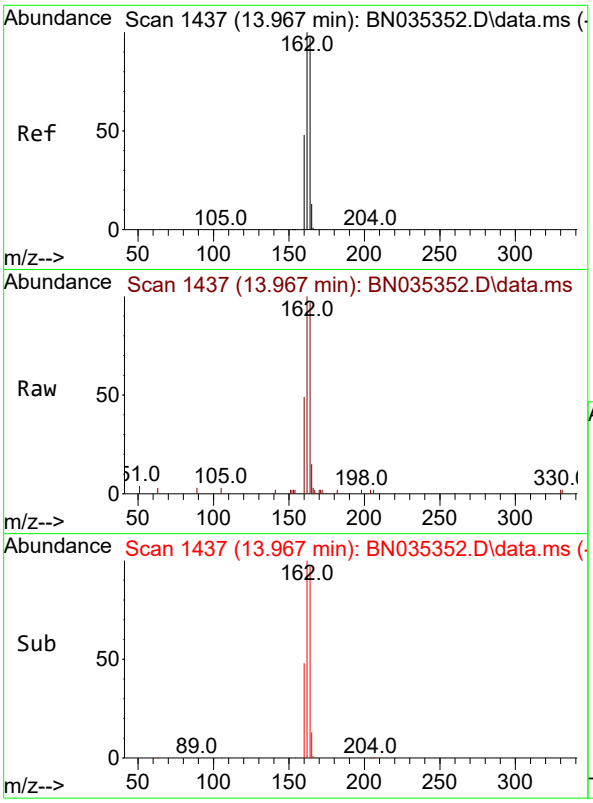




#12
2-Methylnaphthalene
Concen: 0.384 ng
RT: 11.732 min Scan# 1096
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:142 Resp: 3867

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 90.3 | 72.2 | 108.4 |
| 115 | 39.2 | 31.4 | 47.0 |



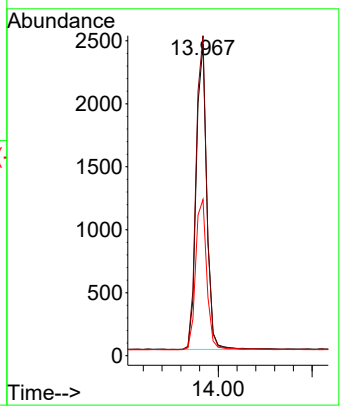


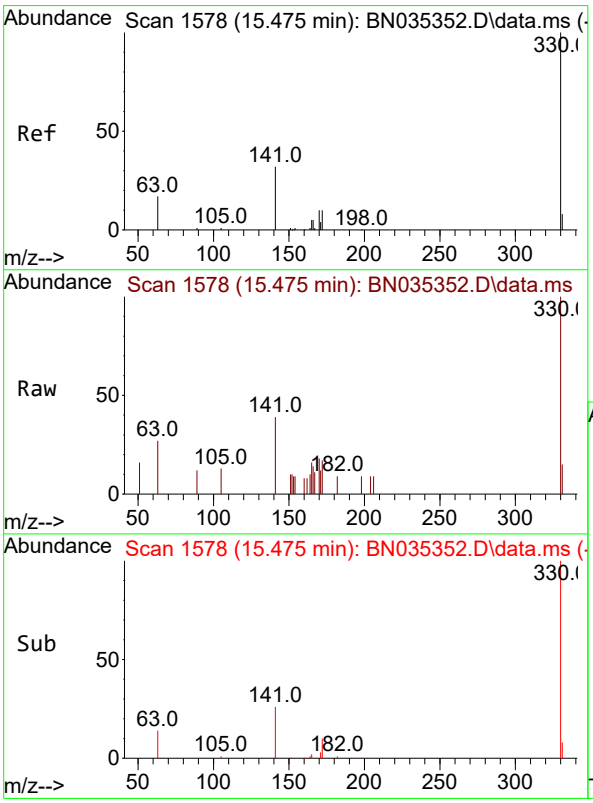

#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICCC0.4

Tgt Ion:164 Resp: 3799

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 102.7 | 82.2 | 123.2 |
| 160 | 50.1 | 40.1 | 60.1 |

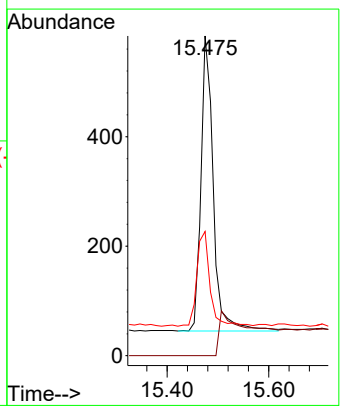


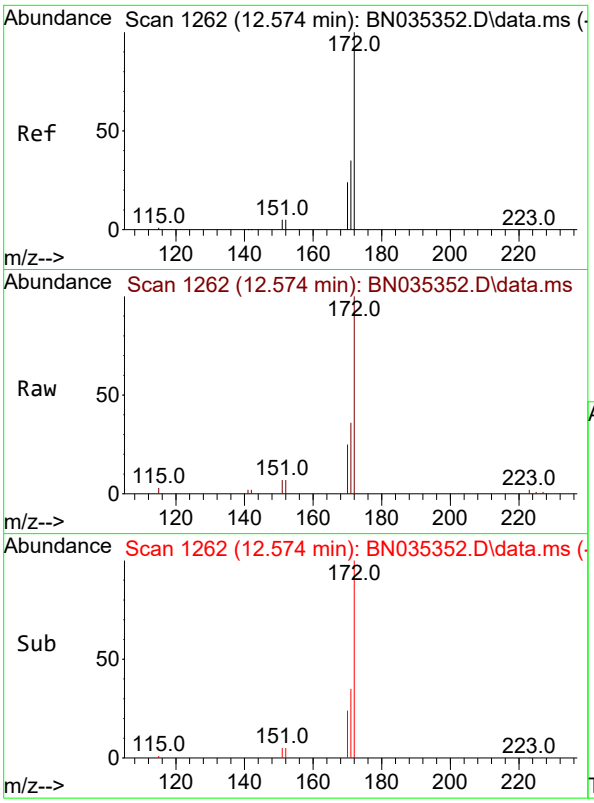




#14
2,4,6-Tribromophenol
Concen: 0.356 ng
RT: 15.475 min Scan# 1578
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:330 Resp: 975

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 0.0 | 0.0 | 0.0 |
| 141 | 33.3 | 26.6 | 40.0 |



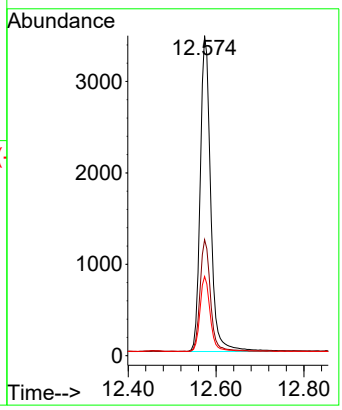


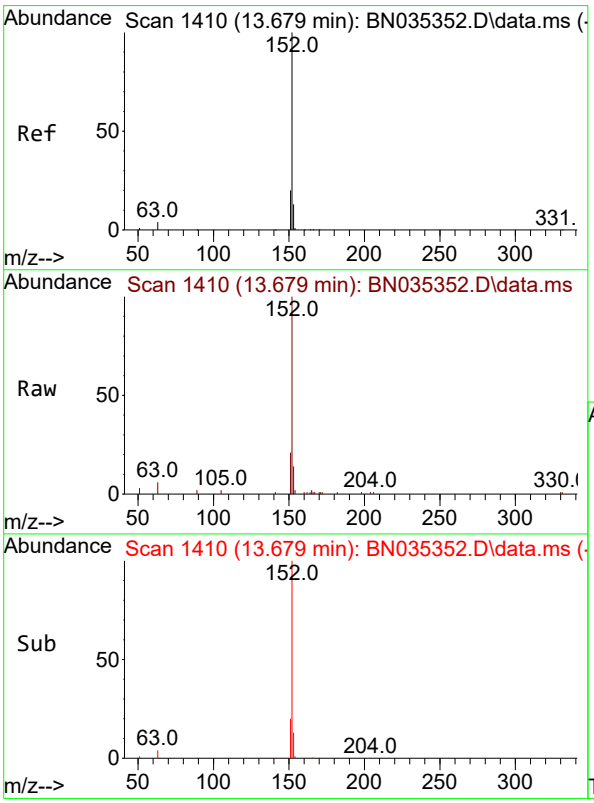

#15
2-Fluorobiphenyl
Concen: 0.372 ng
RT: 12.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICCC0.4

Tgt Ion:172 Resp: 5735

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 36.2 | 29.0 | 43.4 |
| 170 | 24.8 | 19.8 | 29.8 |

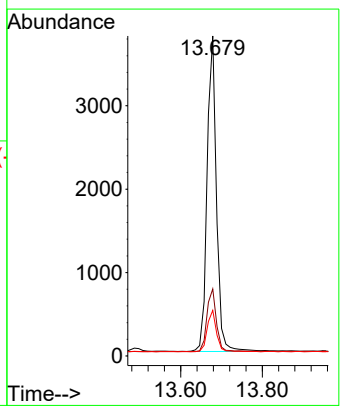


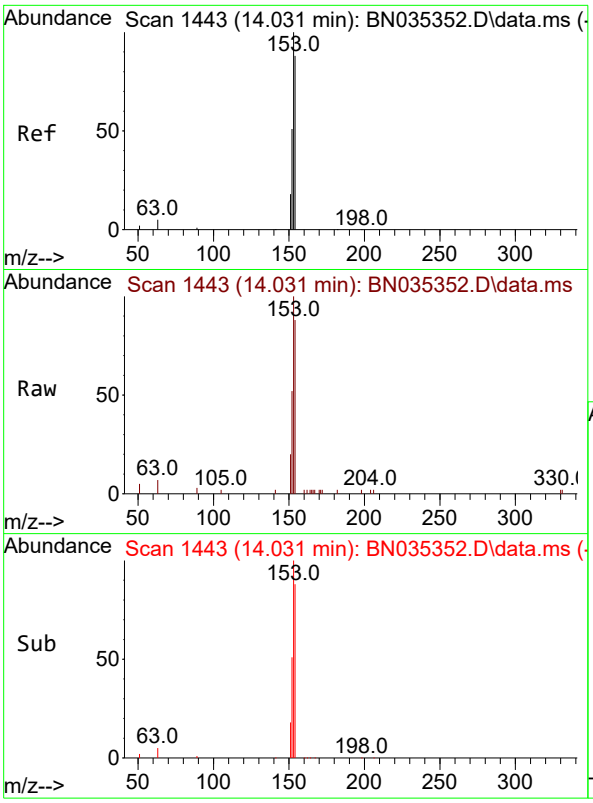




#16
Acenaphthylene
Concen: 0.373 ng
RT: 13.679 min Scan# 1410
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:152 Resp: 6058

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.2 | 16.2 | 24.2 |
| 153 | 13.0 | 10.4 | 15.6 |



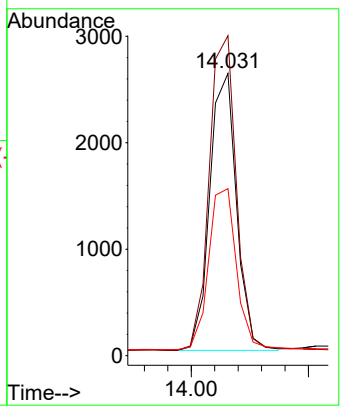


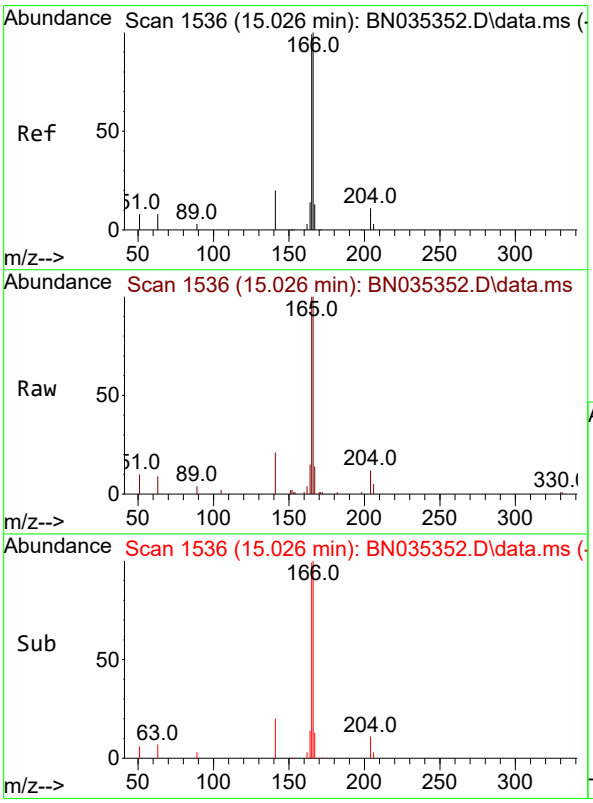

#17
Acenaphthene
Concen: 0.388 ng
RT: 14.031 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICCC0.4

Tgt Ion:154 Resp: 4125

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 115.8 | 92.6 | 139.0 |
| 152 | 61.3 | 49.0 | 73.6 |

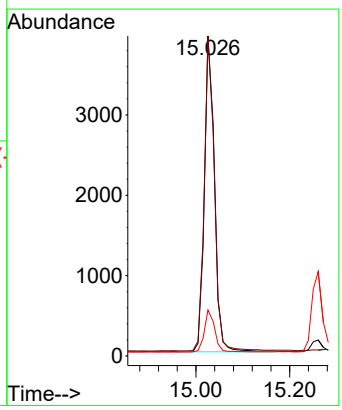


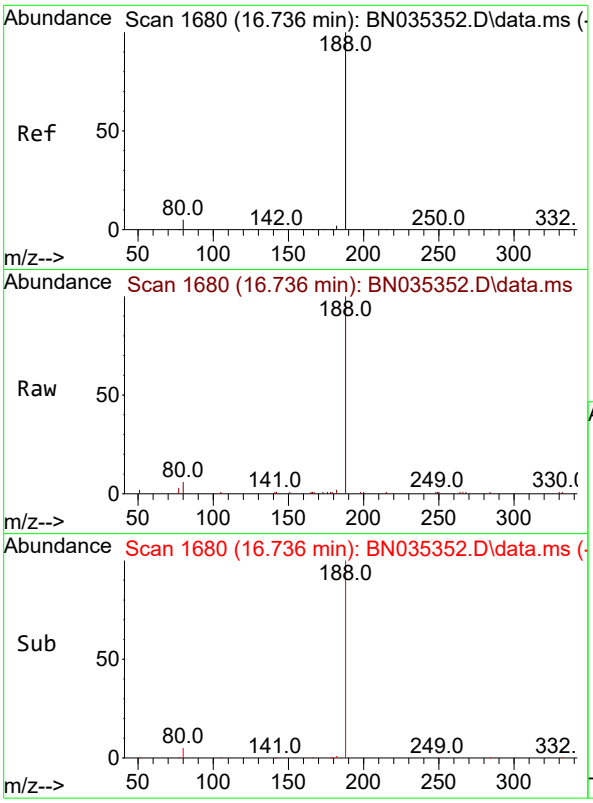




#18
Fluorene
Concen: 0.375 ng
RT: 15.026 min Scan# 1536
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:166 Resp: 5863

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 99.6 | 79.7 | 119.5 |
| 167 | 13.5 | 10.8 | 16.2 |



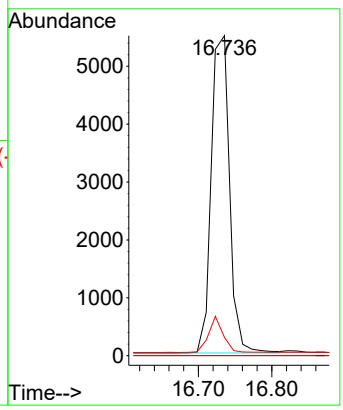


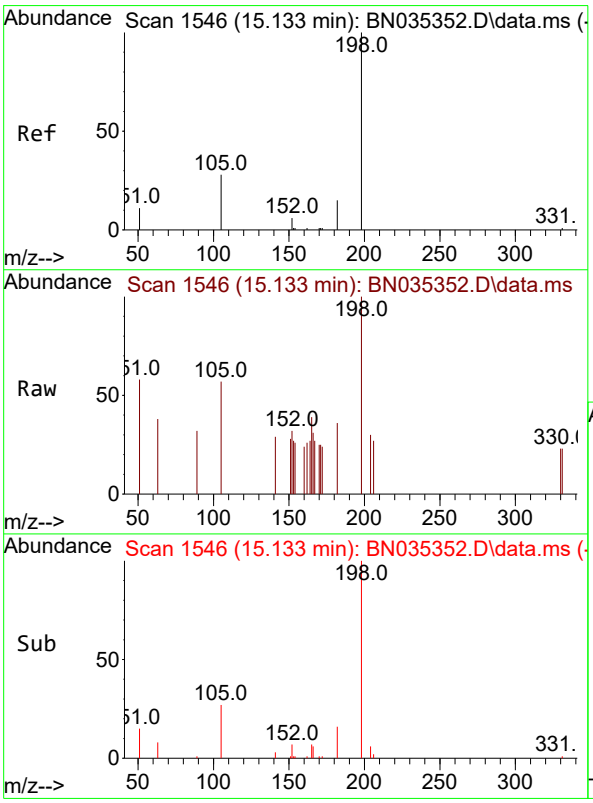

#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.736 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICCC0.4

Tgt Ion:188 Resp: 9490

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 5.7 | 4.6 | 6.8 |

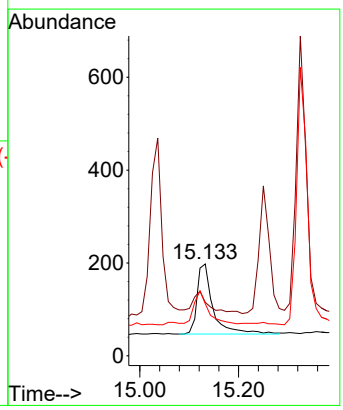


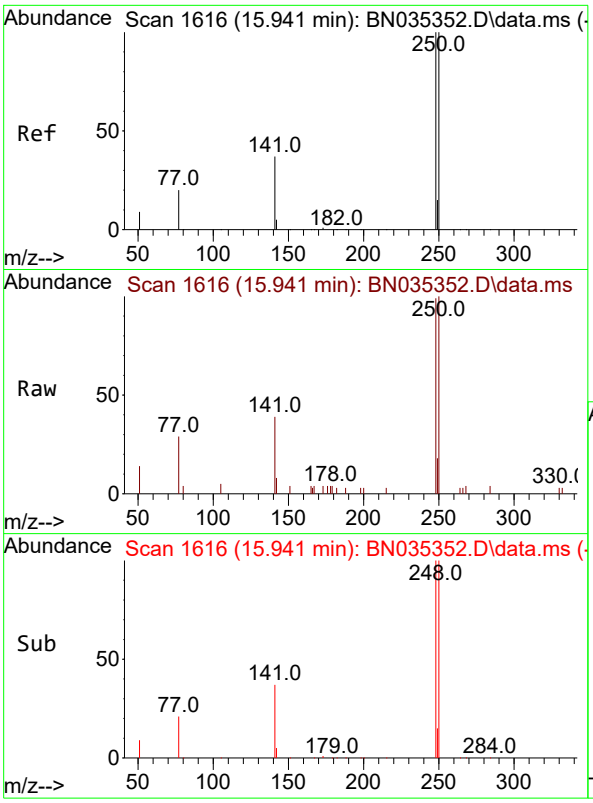




#20
4,6-Dinitro-2-methylphenol
Concen: 0.171 ng
RT: 15.133 min Scan# 1546
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:198 Resp: 337

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 198 | 100 | | |
| 51 | 58.1 | 46.5 | 69.7 |
| 105 | 56.6 | 45.3 | 67.9 |



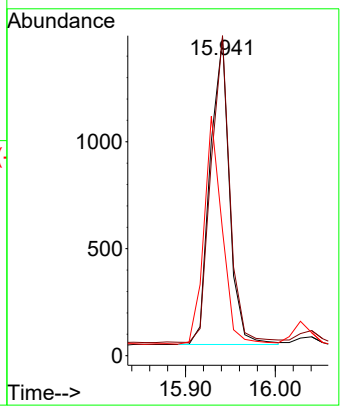


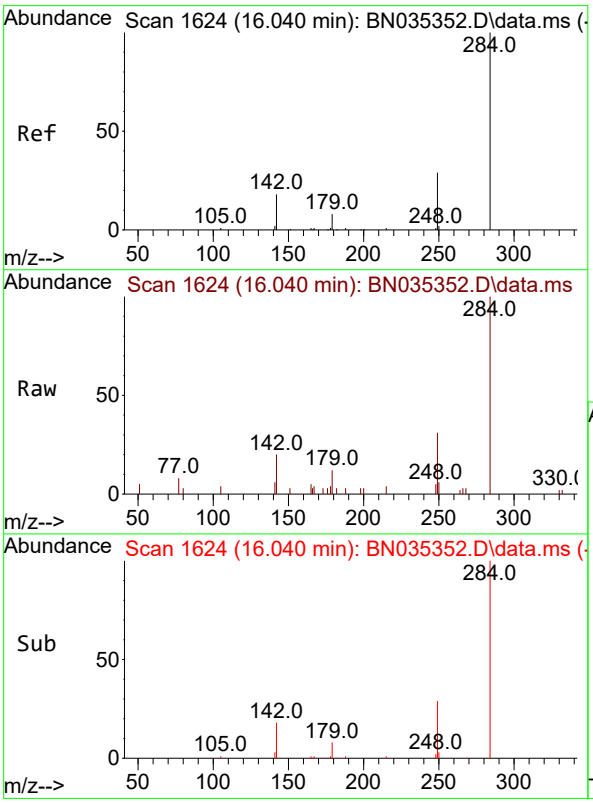

#21
4-Bromophenyl-phenylether
Concen: 0.355 ng
RT: 15.941 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICCC0.4

Tgt Ion:248 Resp: 2146

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 100.7 | 80.6 | 120.8 |
| 141 | 39.4 | 31.5 | 47.3 |

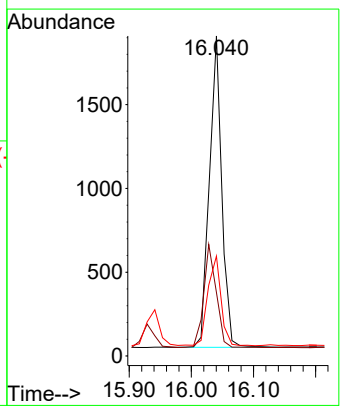


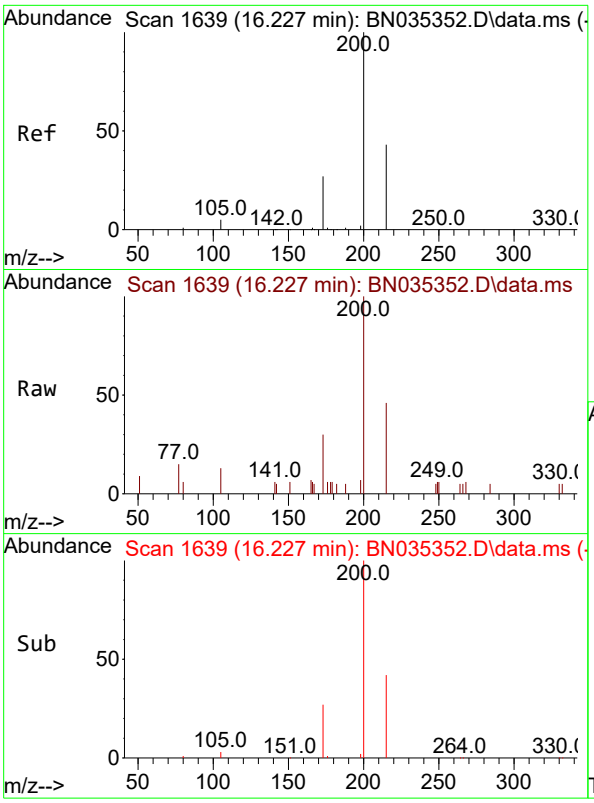




#22
Hexachlorobenzene
Concen: 0.413 ng
RT: 16.040 min Scan# 1624
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:284 Resp: 2590

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 33.4 | 26.7 | 40.1 |
| 249 | 30.7 | 24.6 | 36.8 |



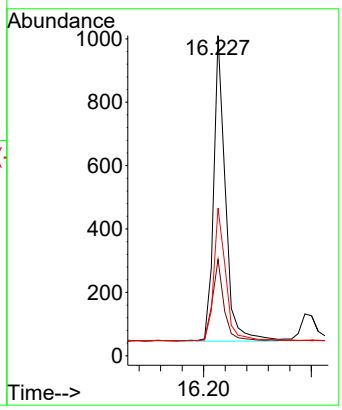


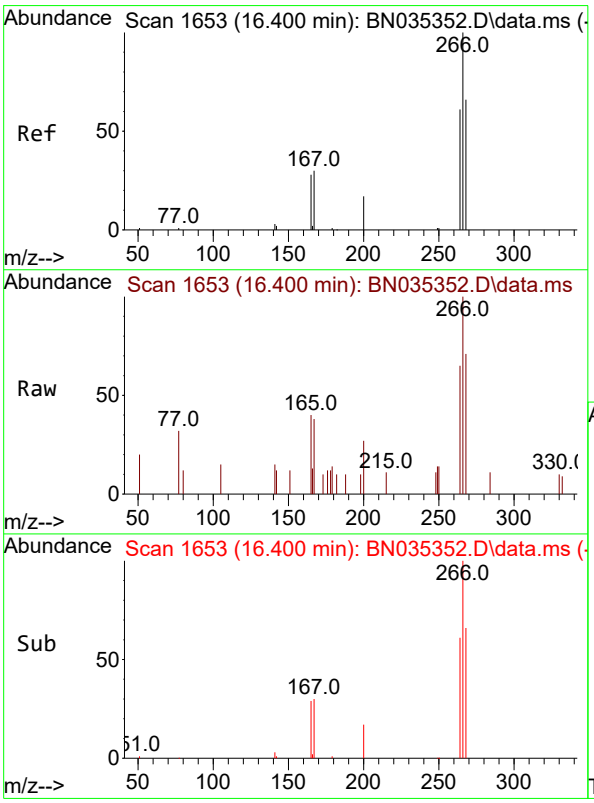

#23
Atrazine
Concen: 0.269 ng
RT: 16.227 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICCC0.4

Tgt Ion:200 Resp: 1461

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 173 | 30.1 | 24.1 | 36.1 |
| 215 | 46.1 | 36.9 | 55.3 |

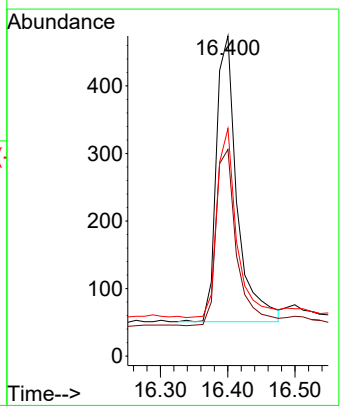


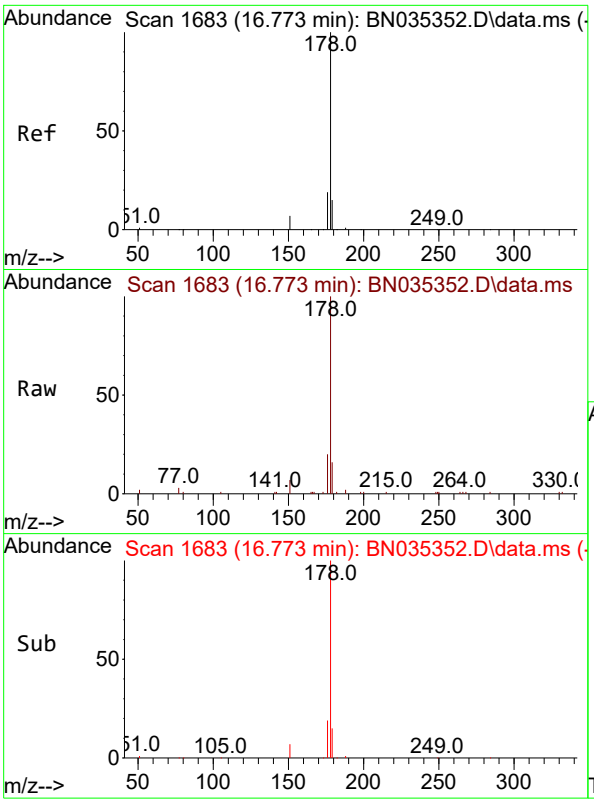




#24
Pentachlorophenol
Concen: 0.309 ng
RT: 16.400 min Scan# 1653
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:266 Resp: 906

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 264 | 62.4 | 42.3 | 63.5 |
| 268 | 63.8 | 43.3 | 64.9 |



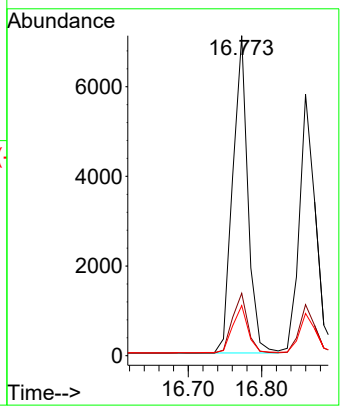


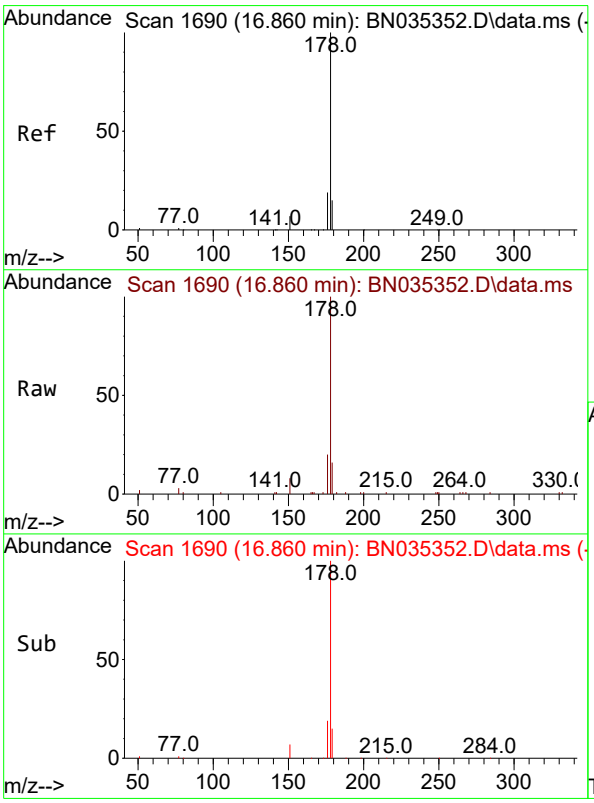

#25
Phenanthrene
Concen: 0.405 ng
RT: 16.773 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICCC0.4

Tgt Ion:178 Resp: 10127

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.3 | 15.4 | 23.2 |
| 179 | 15.4 | 12.3 | 18.5 |

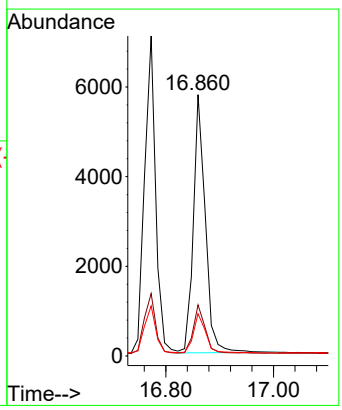


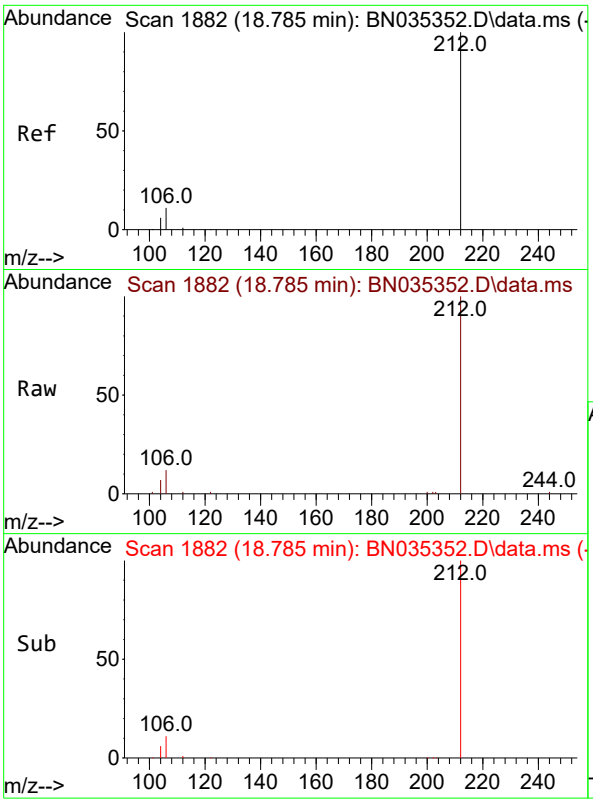




#26
Anthracene
Concen: 0.389 ng
RT: 16.860 min Scan# 1690
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:178 Resp: 8921

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.8 | 15.0 | 22.6 |
| 179 | 15.7 | 12.6 | 18.8 |



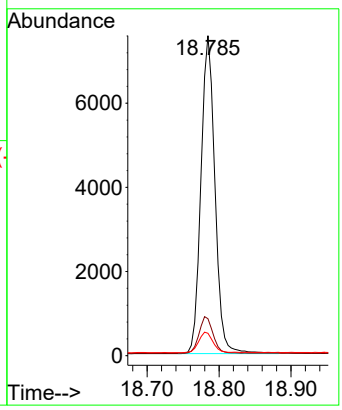


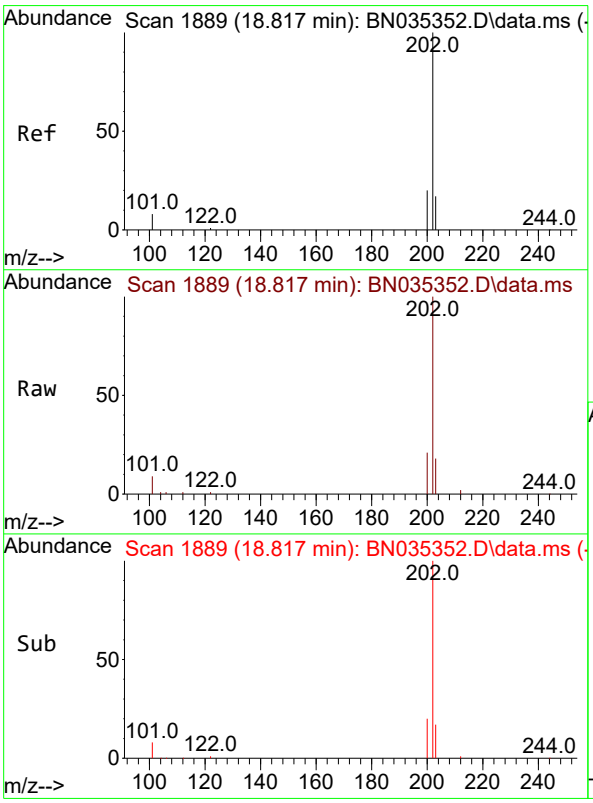

#27
Fluoranthene-d10
Concen: 0.352 ng
RT: 18.785 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICCC0.4

Tgt Ion:212 Resp: 10223

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 11.5 | 9.2 | 13.8 |
| 104 | 6.6 | 5.3 | 7.9 |

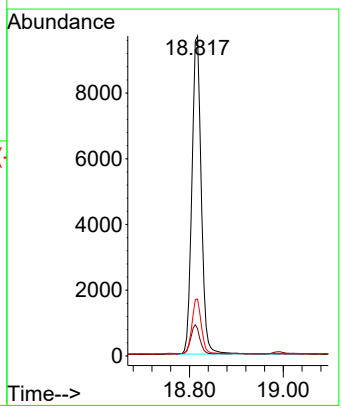


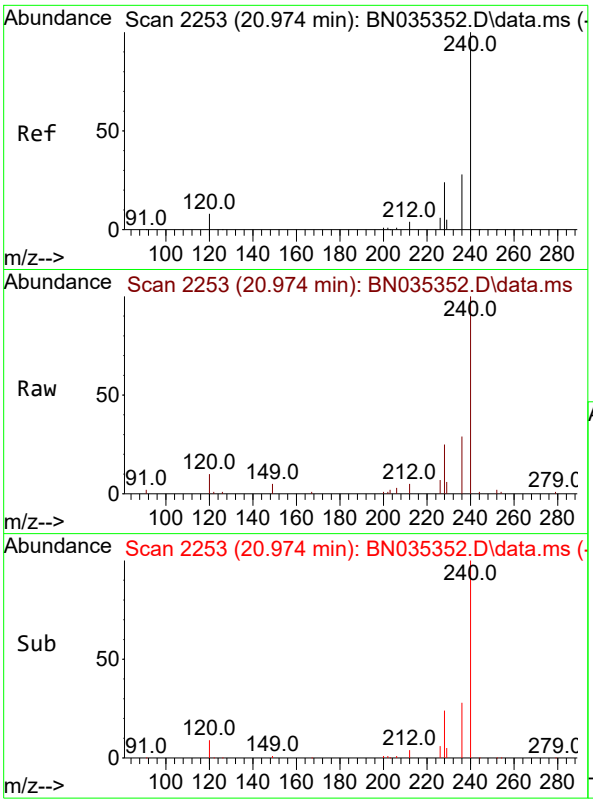




#28
Fluoranthene
Concen: 0.391 ng
RT: 18.817 min Scan# 1889
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:202 Resp: 13438

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 9.2 | 7.4 | 11.0 |
| 203 | 17.1 | 13.7 | 20.5 |



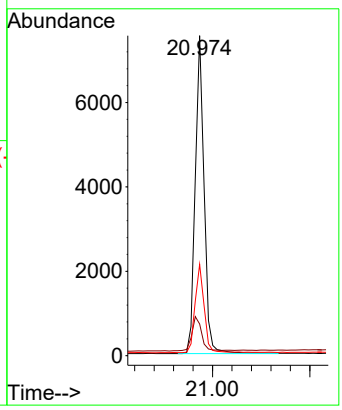


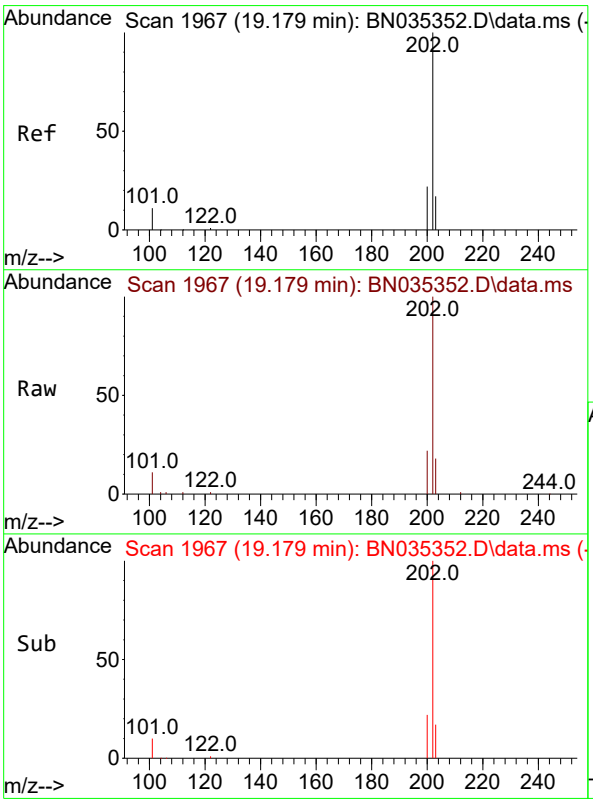

#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.974 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICCC0.4

Tgt Ion:240 Resp: 9527

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 9.9 | 7.9 | 11.9 |
| 236 | 28.6 | 22.9 | 34.3 |

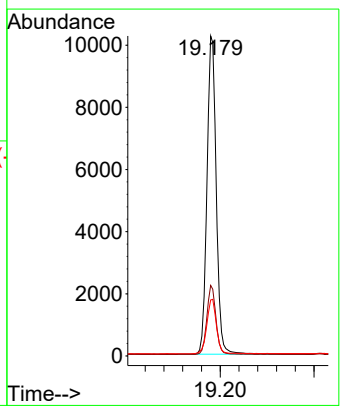


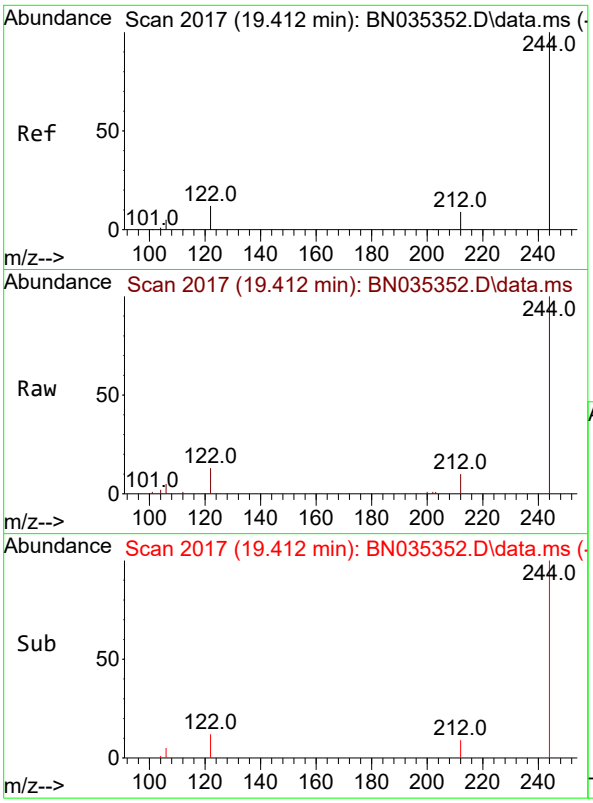




#30
Pyrene
Concen: 0.443 ng
RT: 19.179 min Scan# 1967
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:202 Resp: 14053

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.2 | 17.0 | 25.4 |
| 203 | 17.9 | 14.3 | 21.5 |



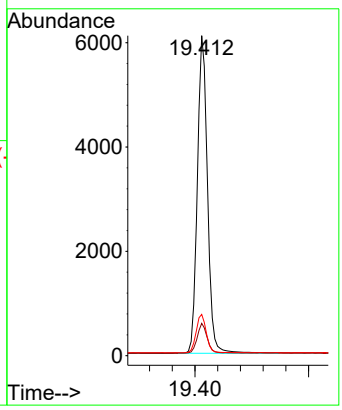


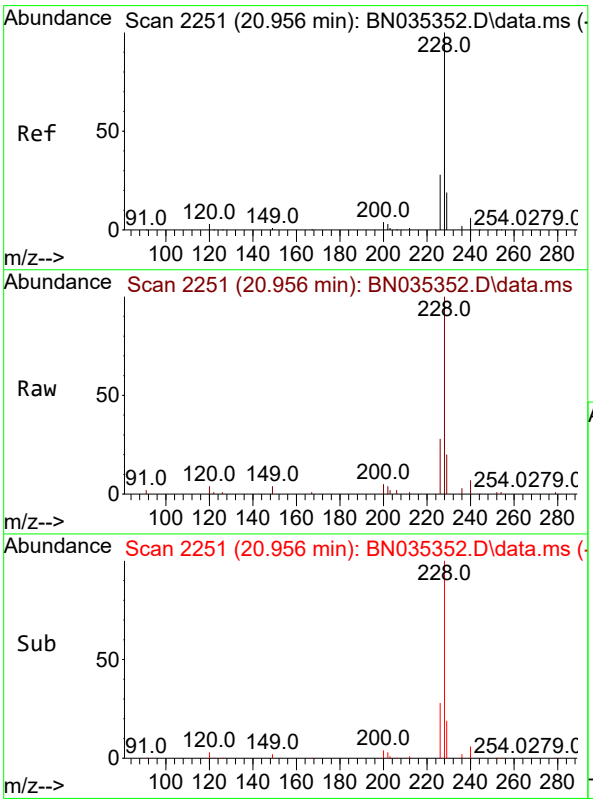

#31
Terphenyl-d14
Concen: 0.377 ng
RT: 19.412 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICCC0.4

Tgt Ion:244 Resp: 7533

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 10.1 | 8.1 | 12.1 |
| 122 | 12.9 | 10.3 | 15.5 |

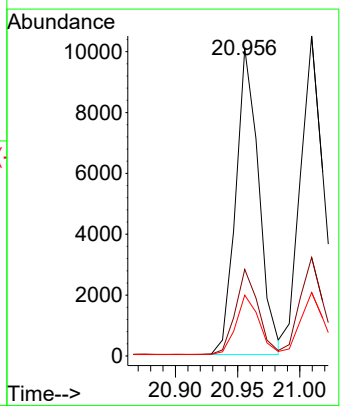


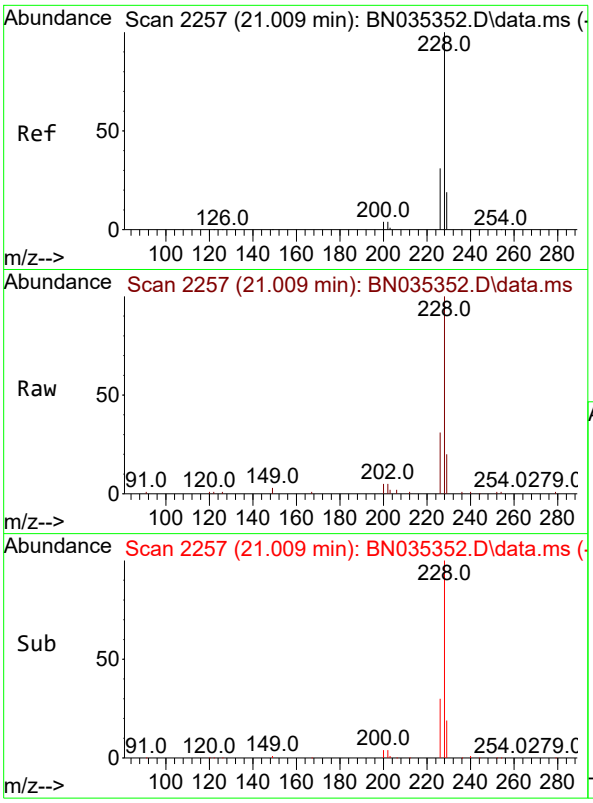




#32
Benzo(a)anthracene
Concen: 0.389 ng
RT: 20.956 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:228 Resp: 12908

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 28.1 | 22.5 | 33.7 |
| 229 | 19.8 | 15.8 | 23.8 |



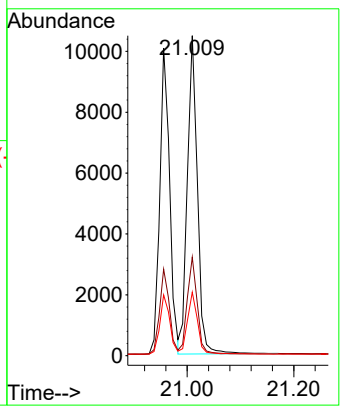


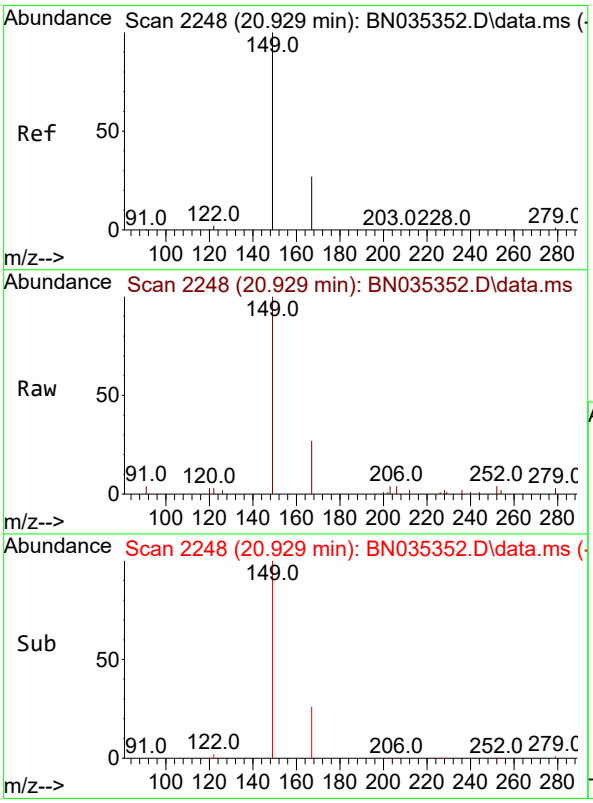

#33
Chrysene
Concen: 0.418 ng
RT: 21.009 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICCC0.4

Tgt Ion:228 Resp: 13729

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 30.8 | 24.6 | 37.0 |
| 229 | 19.9 | 15.9 | 23.9 |

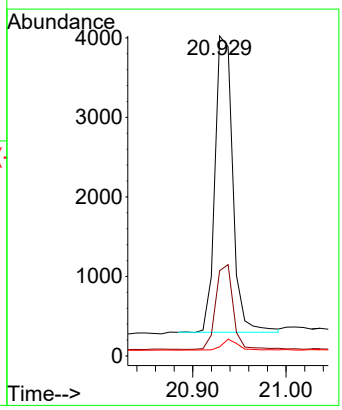


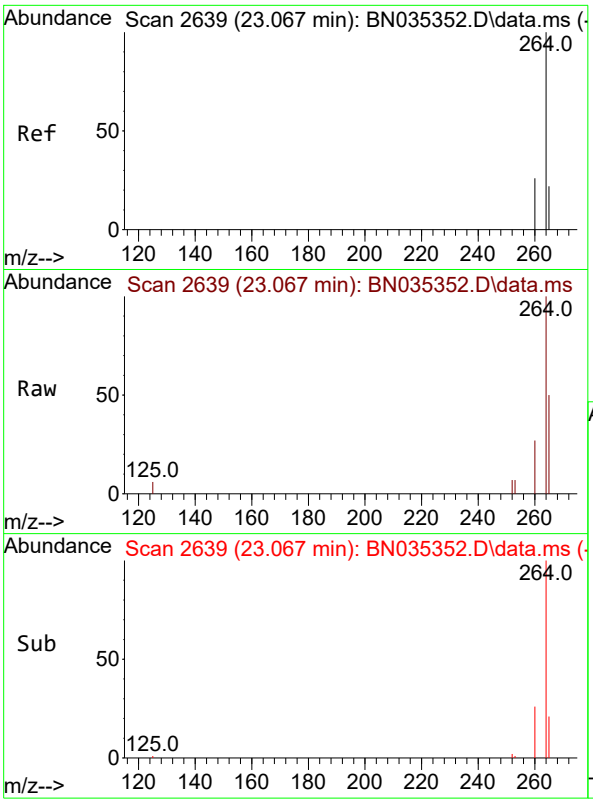




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.282 ng
RT: 20.929 min Scan# 2248
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:149 Resp: 4912

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 27.8 | 22.2 | 33.4 |
| 279 | 3.4 | 2.7 | 4.1 |



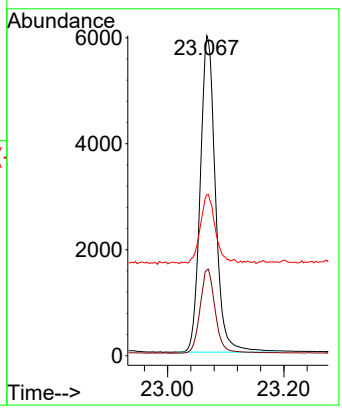


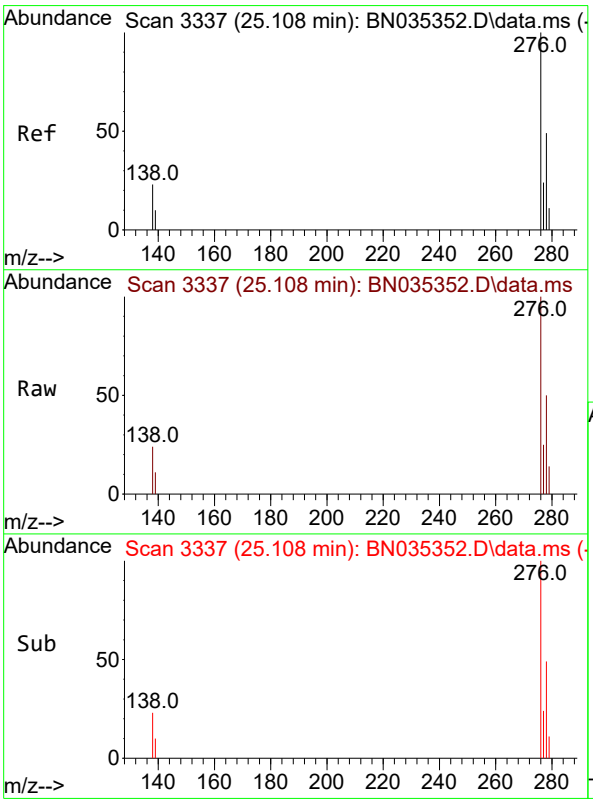

#35
Perylene-d12
Concen: 0.400 ng
RT: 23.067 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICCC0.4

Tgt Ion:264 Resp: 10842

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 26.8 | 21.4 | 32.2 |
| 265 | 50.3 | 40.2 | 60.4 |

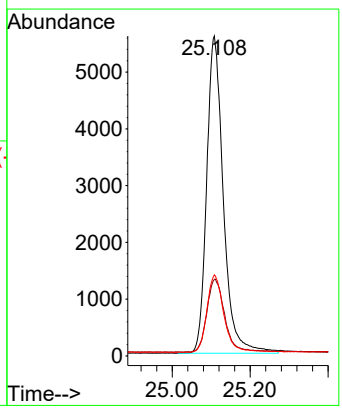


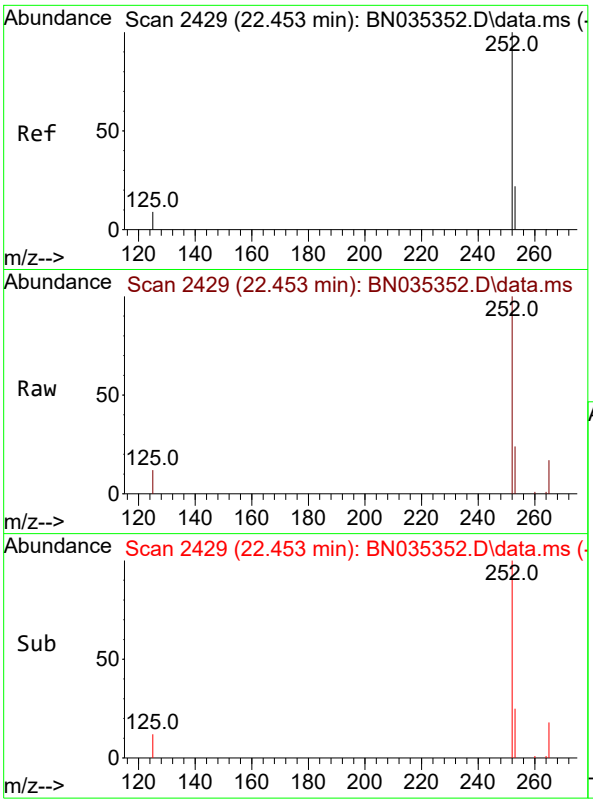




#36
Indeno(1,2,3-cd)pyrene
Concen: 0.384 ng
RT: 25.108 min Scan# 3337
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:276 Resp: 16615

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 24.2 | 19.4 | 29.0 |
| 277 | 24.7 | 19.8 | 29.6 |



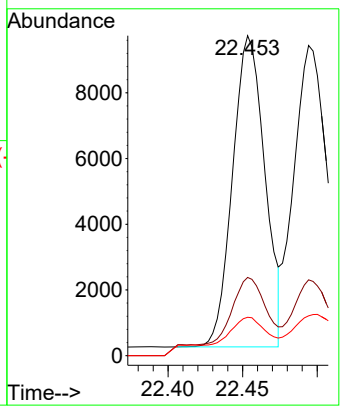


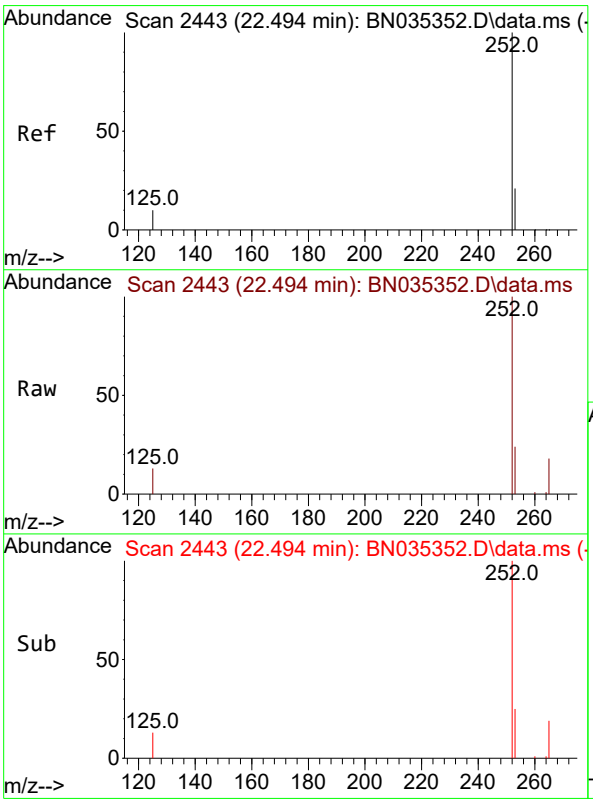

#37
Benzo(b)fluoranthene
Concen: 0.390 ng
RT: 22.453 min Scan# 24
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICCC0.4

Tgt Ion:252 Resp: 14235

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 24.5 | 19.6 | 29.4 |
| 125 | 12.0 | 9.6 | 14.4 |

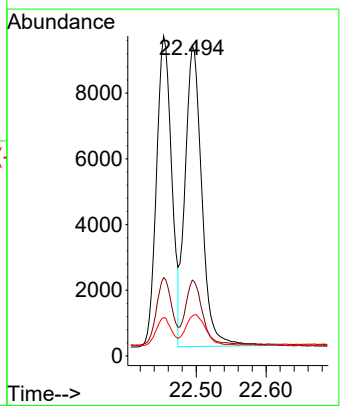


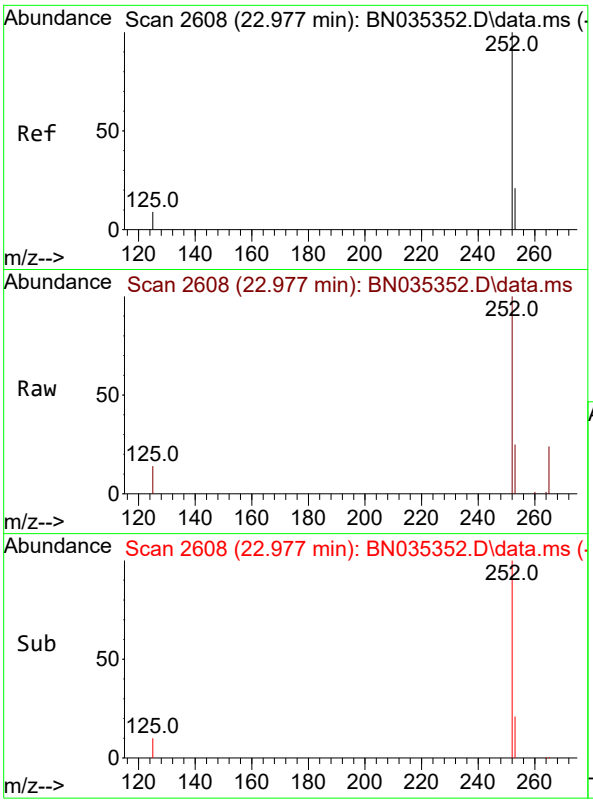




#38
Benzo(k)fluoranthene
Concen: 0.416 ng
RT: 22.494 min Scan# 2443
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:252 Resp: 15199

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 24.4 | 19.5 | 29.3 |
| 125 | 12.8 | 10.2 | 15.4 |



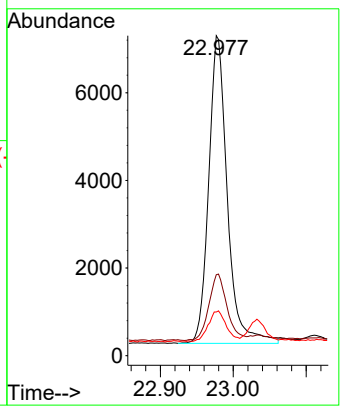


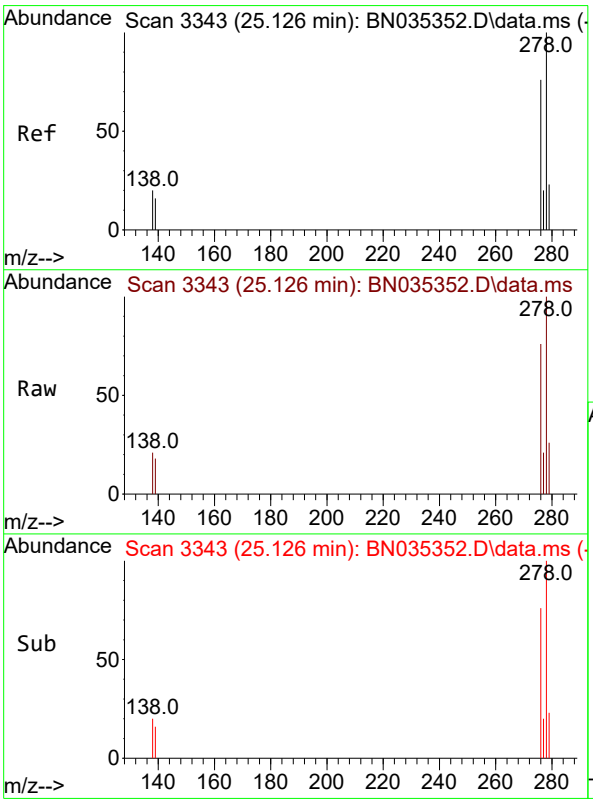

#39
Benzo(a)pyrene
Concen: 0.387 ng
RT: 22.977 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICCC0.4

Tgt Ion:252 Resp: 12425

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 25.3 | 20.2 | 30.4 |
| 125 | 13.6 | 10.9 | 16.3 |

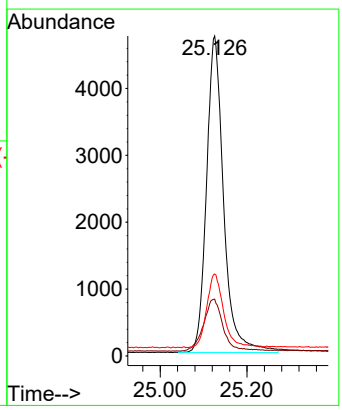


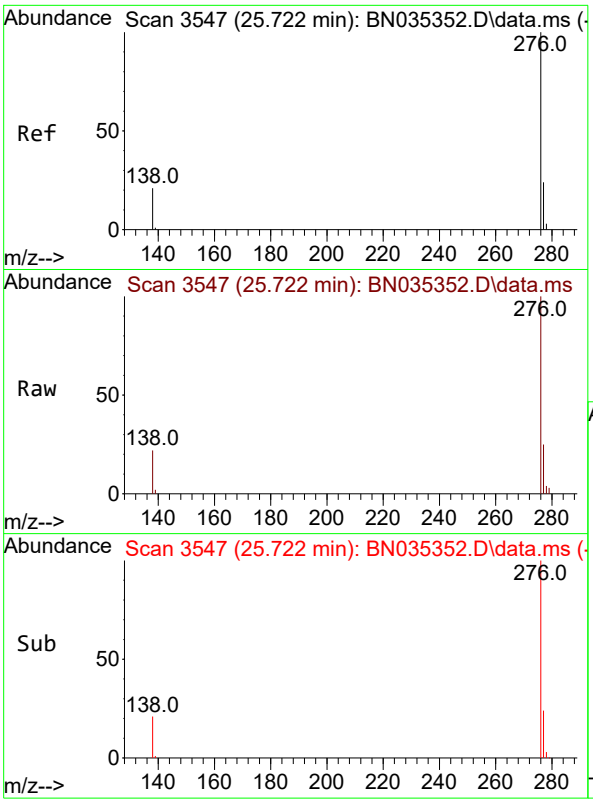




#40
Dibenzo(a,h)anthracene
Concen: 0.378 ng
RT: 25.126 min Scan# 3343
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:278 Resp: 12948

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 17.8 | 14.2 | 21.4 |
| 279 | 25.6 | 20.5 | 30.7 |



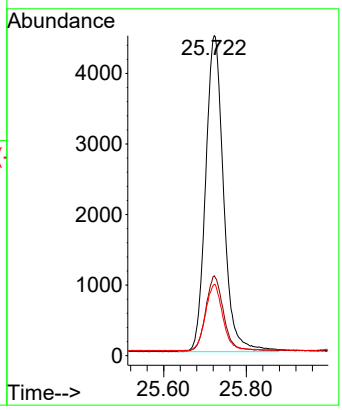



#41
Benzo(g,h,i)perylene
Concen: 0.371 ng
RT: 25.722 min Scan# 3
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICCC0.4

Tgt Ion:276 Resp: 13529

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 24.9 | 19.9 | 29.9 |
| 138 | 22.3 | 17.8 | 26.8 |



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035357.D
Acq On : 27 Nov 2024 20:21
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
ICVBN112724

Quant Time: Nov 27 23:06:03 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration

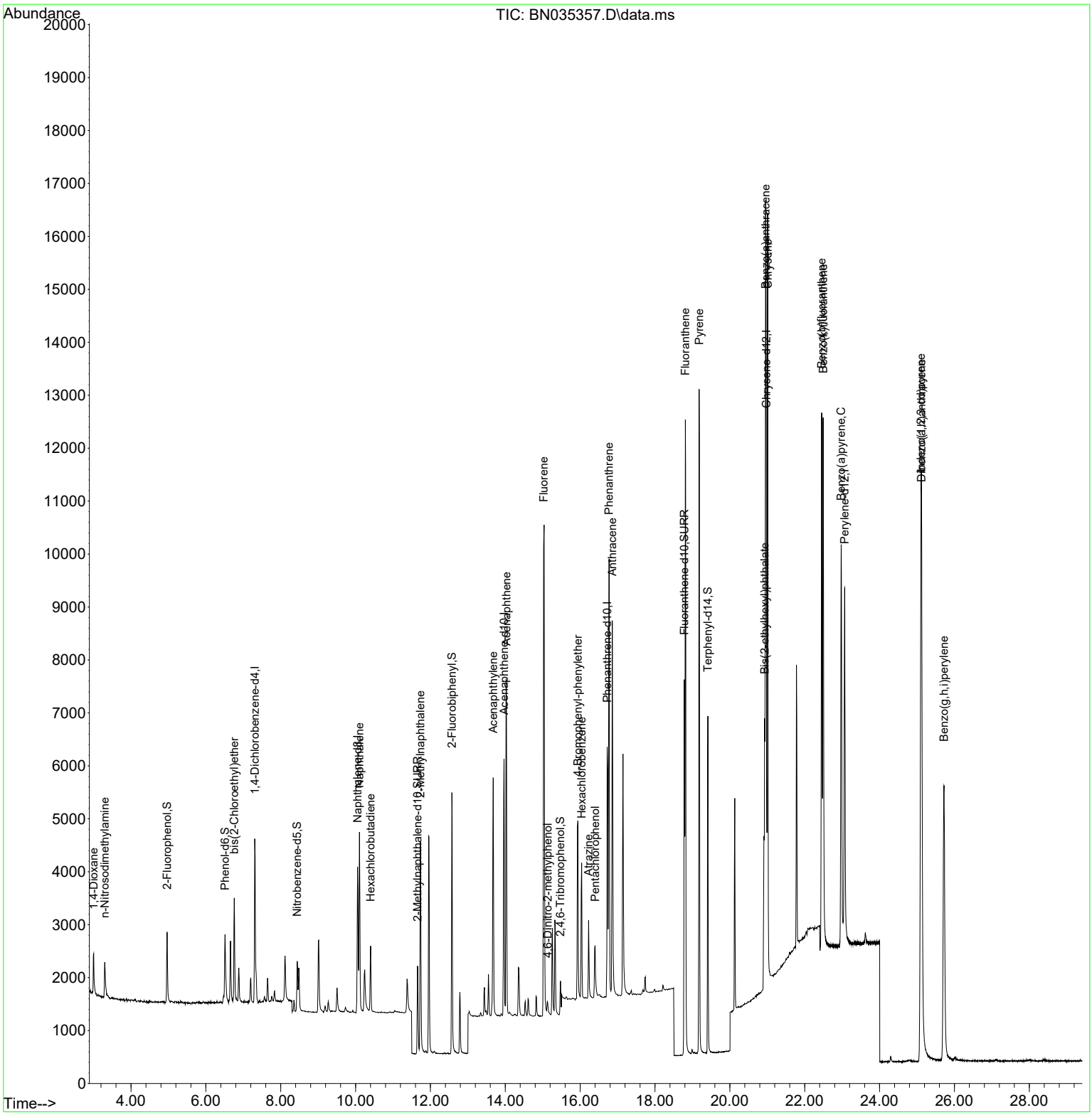
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.308 | 152 | 1540 | 0.400 | ng | | 0.00 |
| 7) Naphthalene-d8 | 10.052 | 136 | 3904 | 0.400 | ng | | 0.00 |
| 13) Acenaphthene-d10 | 13.967 | 164 | 2879 | 0.400 | ng | | 0.00 |
| 19) Phenanthrene-d10 | 16.723 | 188 | 7350 | 0.400 | ng | | #-0.01 |
| 29) Chrysene-d12 | 20.974 | 240 | 7576 | 0.400 | ng | | 0.00 |
| 35) Perylene-d12 | 23.067 | 264 | 8338 | 0.400 | ng | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 4) 2-Fluorophenol | 4.968 | 112 | 1280 | 0.332 | ng | | 0.00 |
| 5) Phenol-d6 | 6.513 | 99 | 1437 | 0.310 | ng | | 0.00 |
| 8) Nitrobenzene-d5 | 8.440 | 82 | 1017 | 0.427 | ng | | 0.00 |
| 11) 2-Methylnaphthalene-d10 | 11.656 | 152 | 2565 | 0.420 | ng | | 0.00 |
| 14) 2,4,6-Tribromophenol | 15.475 | 330 | 617 | 0.302 | ng | | 0.00 |
| 15) 2-Fluorobiphenyl | 12.574 | 172 | 4647 | 0.427 | ng | | 0.00 |
| 27) Fluoranthene-d10 | 18.785 | 212 | 8415 | 0.404 | ng | | 0.00 |
| 31) Terphenyl-d14 | 19.412 | 244 | 6272 | 0.420 | ng | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.003 | 88 | 684 | 0.465 | ng | | 99 |
| 3) n-Nitrosodimethylamine | 3.299 | 42 | 495 | 0.404 | ng | # | 88 |
| 6) bis(2-Chloroethyl)ether | 6.759 | 93 | 1676 | 0.430 | ng | | 99 |
| 9) Naphthalene | 10.105 | 128 | 4364 | 0.424 | ng | | 99 |
| 10) Hexachlorobutadiene | 10.404 | 225 | 1005 | 0.423 | ng | # | 100 |
| 12) 2-Methylnaphthalene | 11.732 | 142 | 3157 | 0.428 | ng | | 98 |
| 16) Acenaphthylene | 13.679 | 152 | 5261 | 0.435 | ng | | 100 |
| 17) Acenaphthene | 14.031 | 154 | 3421 | 0.426 | ng | | 99 |
| 18) Fluorene | 15.026 | 166 | 4825 | 0.420 | ng | | 99 |
| 20) 4,6-Dinitro-2-methylph... | 15.132 | 198 | 263 | 0.364 | ng | # | 86 |
| 21) 4-Bromophenyl-phenylether | 15.941 | 248 | 1742 | 0.405 | ng | | 99 |
| 22) Hexachlorobenzene | 16.040 | 284 | 2151 | 0.426 | ng | | 99 |
| 23) Atrazine | 16.227 | 200 | 1227 | 0.401 | ng | | 99 |
| 24) Pentachlorophenol | 16.400 | 266 | 662 | 0.301 | ng | # | 83 |
| 25) Phenanthrene | 16.773 | 178 | 8509 | 0.421 | ng | | 100 |
| 26) Anthracene | 16.860 | 178 | 7849 | 0.430 | ng | | 100 |
| 28) Fluoranthene | 18.812 | 202 | 10941 | 0.402 | ng | | 100 |
| 30) Pyrene | 19.179 | 202 | 11476 | 0.410 | ng | | 100 |
| 32) Benzo(a)anthracene | 20.956 | 228 | 10934 | 0.413 | ng | | 100 |
| 33) Chrysene | 21.009 | 228 | 11926 | 0.436 | ng | | 99 |
| 34) Bis(2-ethylhexyl)phtha... | 20.929 | 149 | 4016 | 0.384 | ng | | 100 |
| 36) Indeno(1,2,3-cd)pyrene | 25.105 | 276 | 14433 | 0.443 | ng | | 99 |
| 37) Benzo(b)fluoranthene | 22.453 | 252 | 12988 | 0.426 | ng | | 99 |
| 38) Benzo(k)fluoranthene | 22.494 | 252 | 12669 | 0.422 | ng | | 99 |
| 39) Benzo(a)pyrene | 22.974 | 252 | 11094 | 0.442 | ng | | 99 |
| 40) Dibenzo(a,h)anthracene | 25.123 | 278 | 11141 | 0.433 | ng | | 100 |
| 41) Benzo(g,h,i)perylene | 25.722 | 276 | 10870 | 0.404 | ng | | 99 |

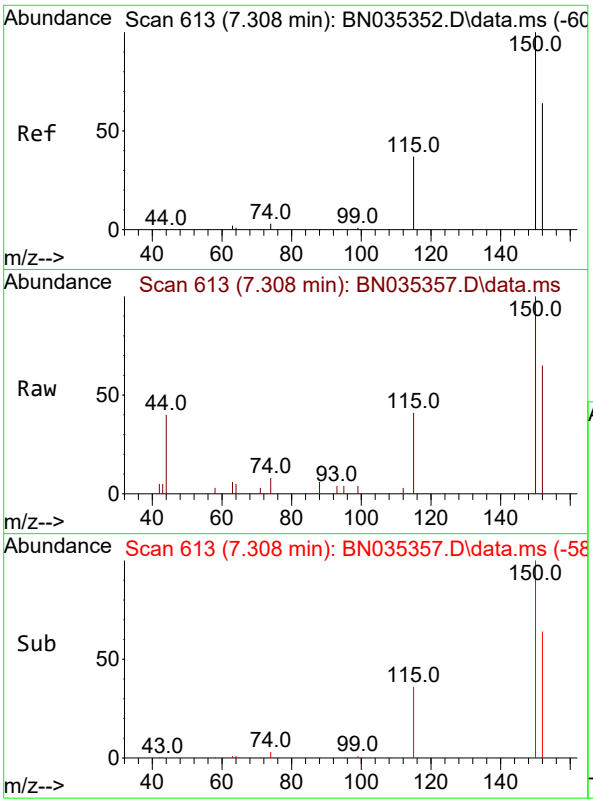
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035357.D
Acq On : 27 Nov 2024 20:21
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
ICVBN112724

Quant Time: Nov 27 23:06:03 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration



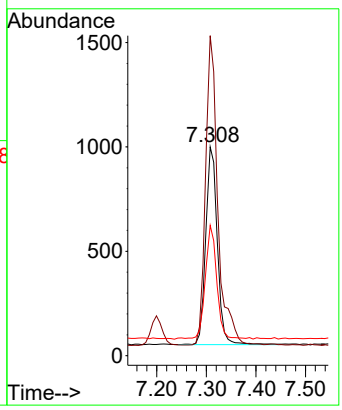


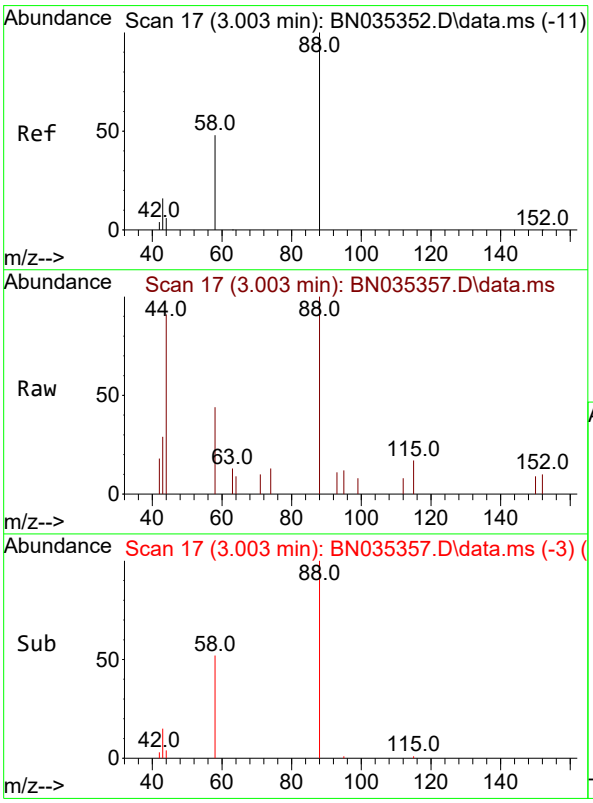

#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

**Instrument :**
BNA_N
**ClientSampleId :**
ICVBN112724

Tgt Ion:152 Resp: 1540

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 153.3 | 124.0 | 186.0 |
| 115 | 62.4 | 49.6 | 74.4 |

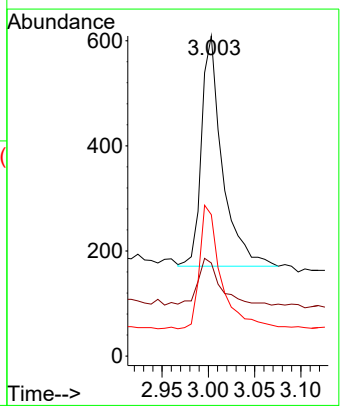


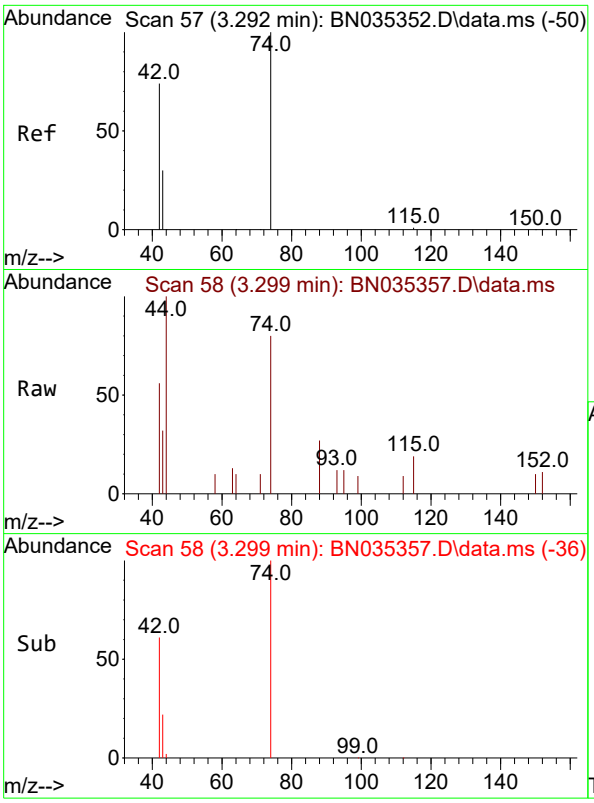




#2
1,4-Dioxane
Concen: 0.465 ng
RT: 3.003 min Scan# 17
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion: 88 Resp: 684

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 21.8 | 17.2 | 25.8 |
| 58 | 56.0 | 44.5 | 66.7 |



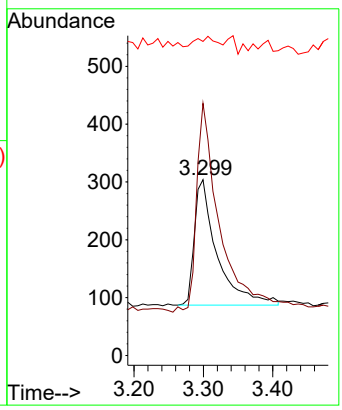


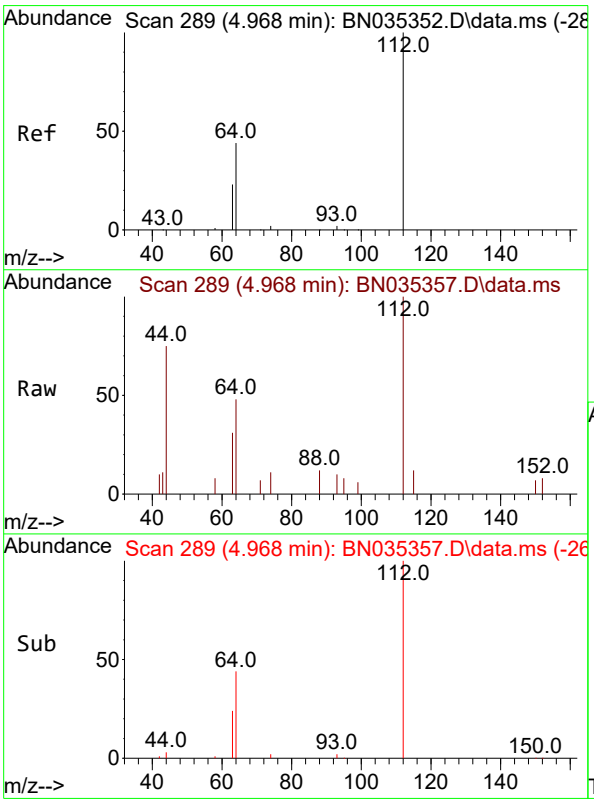

#3
n-Nitrosodimethylamine
Concen: 0.404 ng
RT: 3.299 min Scan# 5
Delta R.T. 0.007 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

**Instrument :**
BNA_N
**ClientSampleId :**
ICVBN112724

Tgt Ion: 42 Resp: 495

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 172.1 | 124.9 | 187.3 |
| 44 | 6.3 | 2.2 | 3.4# |

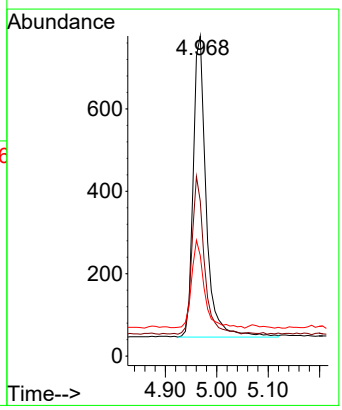


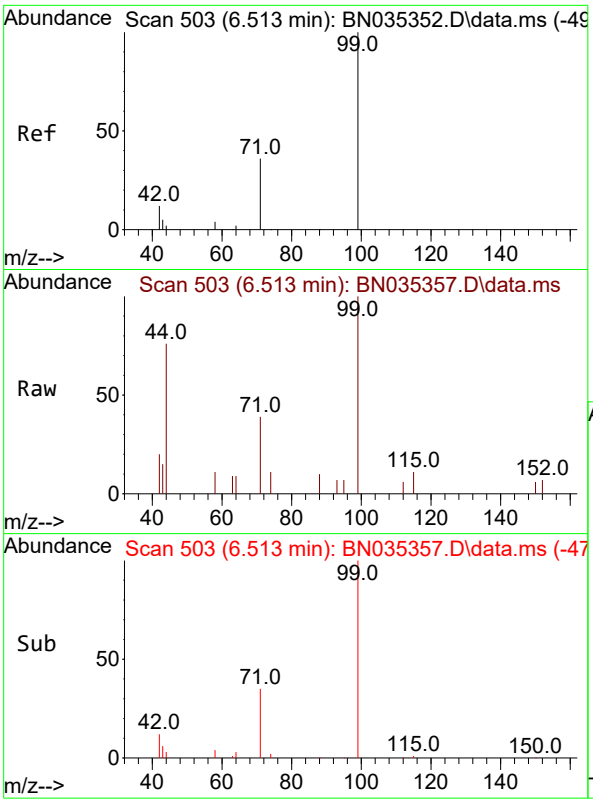




#4
2-Fluorophenol
Concen: 0.332 ng
RT: 4.968 min Scan# 289
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:112 Resp: 1280

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 49.0 | 39.8 | 59.8 |
| 63 | 28.4 | 21.0 | 31.6 |



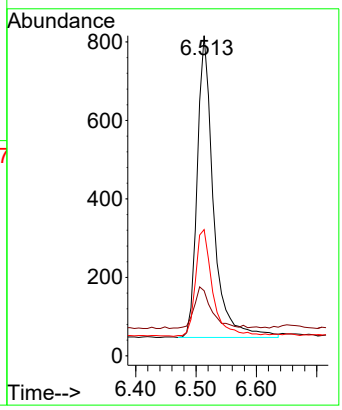


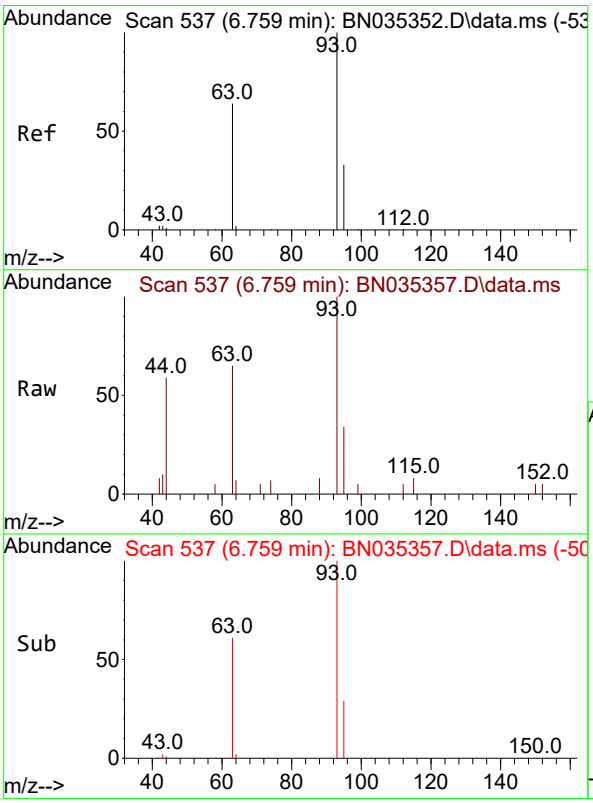

#5
Phenol-d6
Concen: 0.310 ng
RT: 6.513 min Scan# 5(
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

**Instrument :**
BNA_N
**ClientSampleId :**
ICVBN112724

Tgt Ion: 99 Resp: 1437

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 13.9 | 11.4 | 17.2 |
| 71 | 37.2 | 29.3 | 43.9 |

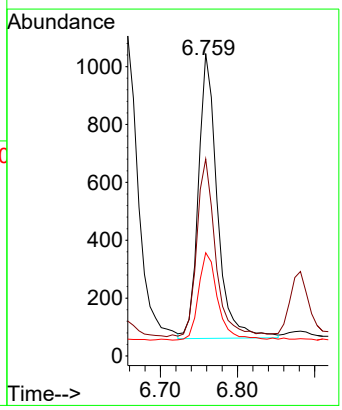


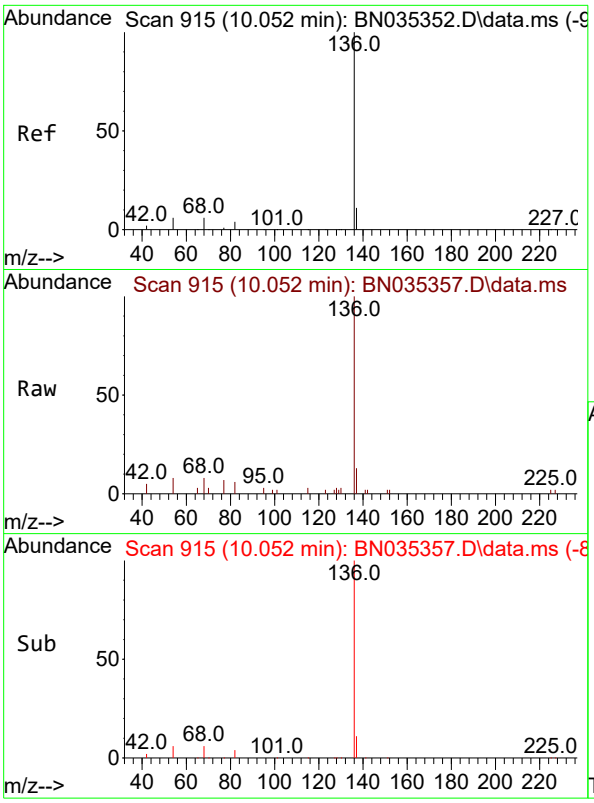




#6
bis(2-Chloroethyl)ether
Concen: 0.430 ng
RT: 6.759 min Scan# 537
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion: 93 Resp: 1676

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 62.1 | 50.4 | 75.6 |
| 95 | 31.4 | 25.7 | 38.5 |



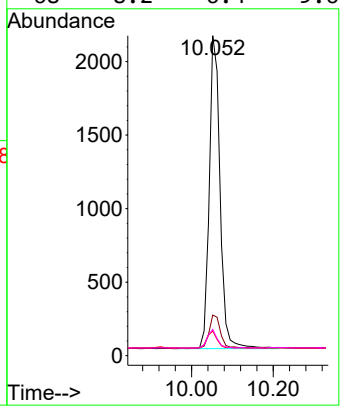


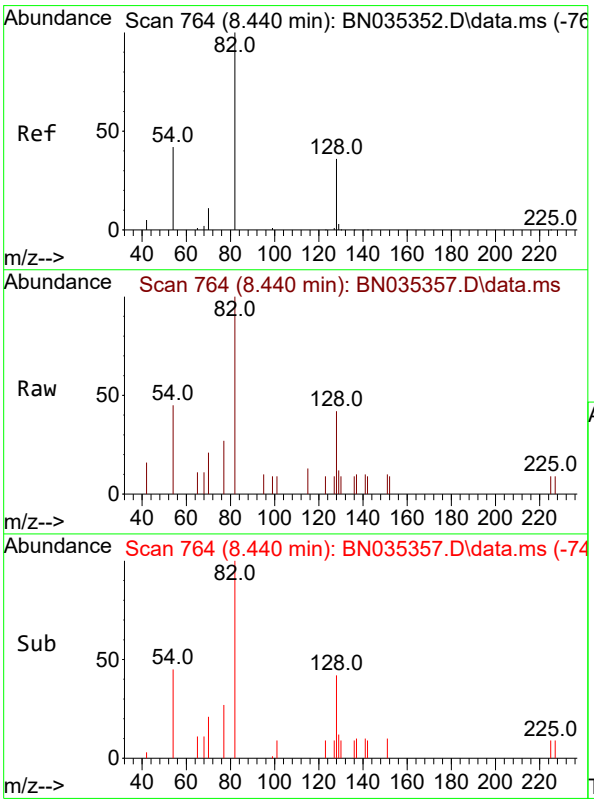

#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

**Instrument :**
BNA_N
**ClientSampleId :**
ICVBN112724

Tgt Ion:136 Resp: 3904

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 12.7 | 10.2 | 15.2 |
| 54 | 7.7 | 6.1 | 9.1 |
| 68 | 8.2 | 6.4 | 9.6 |

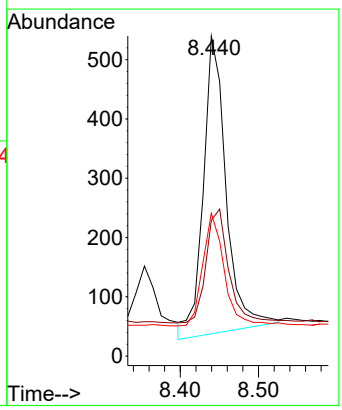


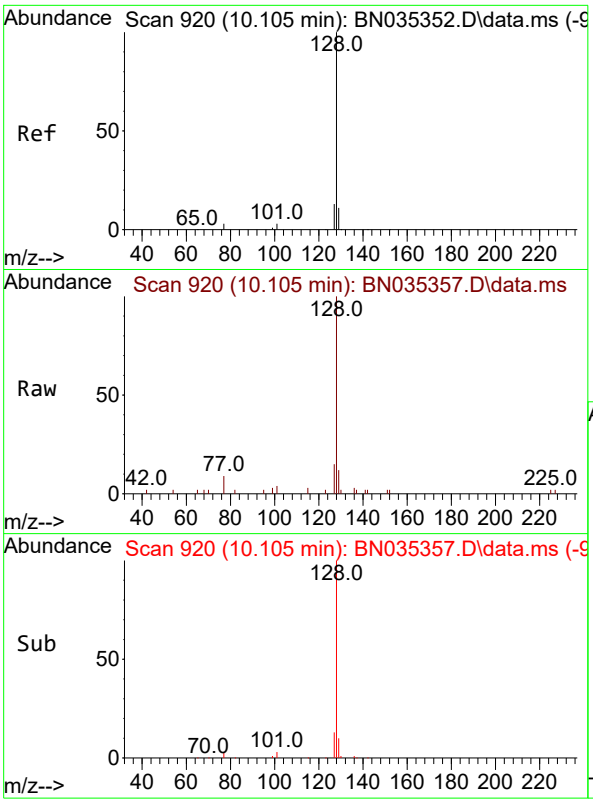




#8
Nitrobenzene-d5
Concen: 0.427 ng
RT: 8.440 min Scan# 764
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion: 82 Resp: 1017

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 42.4 | 33.4 | 50.0 |
| 54 | 44.6 | 36.7 | 55.1 |



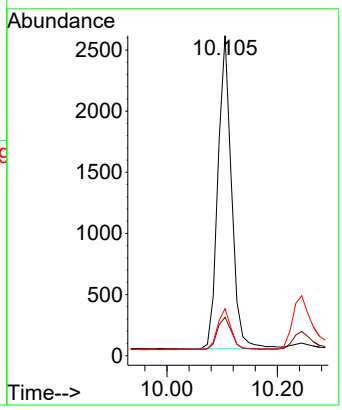


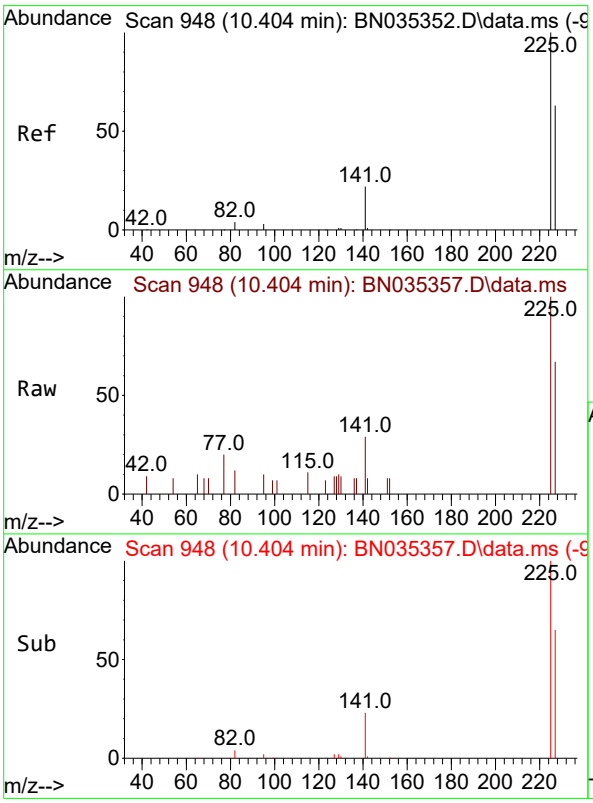

#9
Naphthalene
Concen: 0.424 ng
RT: 10.105 min Scan# 9
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

**Instrument :**
BNA_N
**ClientSampleId :**
ICVBN112724

Tgt Ion:128 Resp: 4364

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 12.0 | 9.8 | 14.6 |
| 127 | 14.7 | 11.4 | 17.2 |

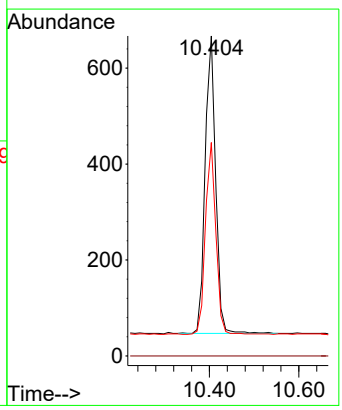


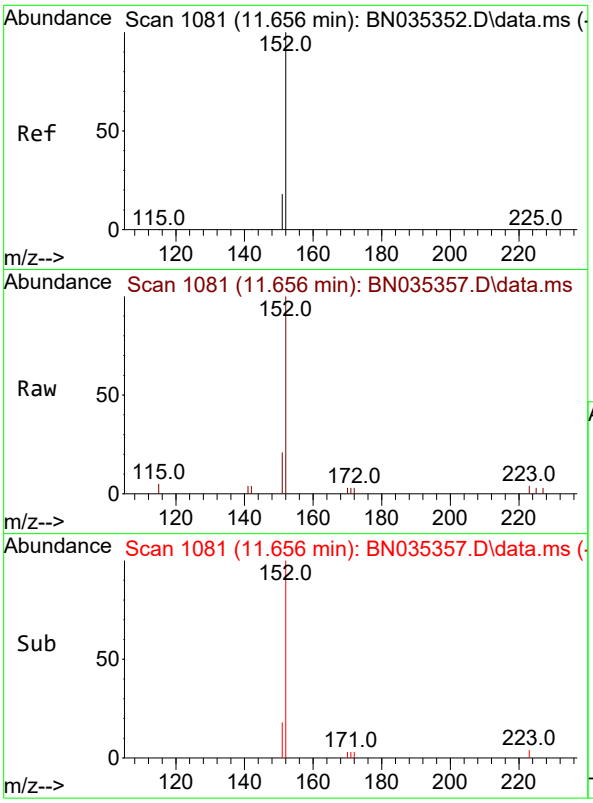




#10
Hexachlorobutadiene
Concen: 0.423 ng
RT: 10.404 min Scan# 948
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:225 Resp: 1005

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 0.0 | 0.0 | 0.0 |
| 227 | 64.3 | 51.3 | 76.9 |



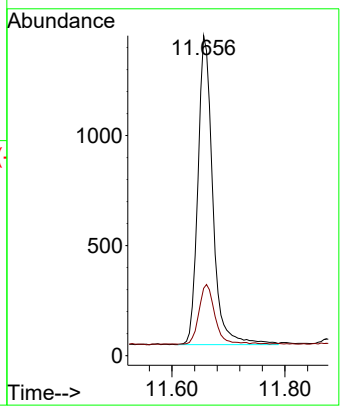


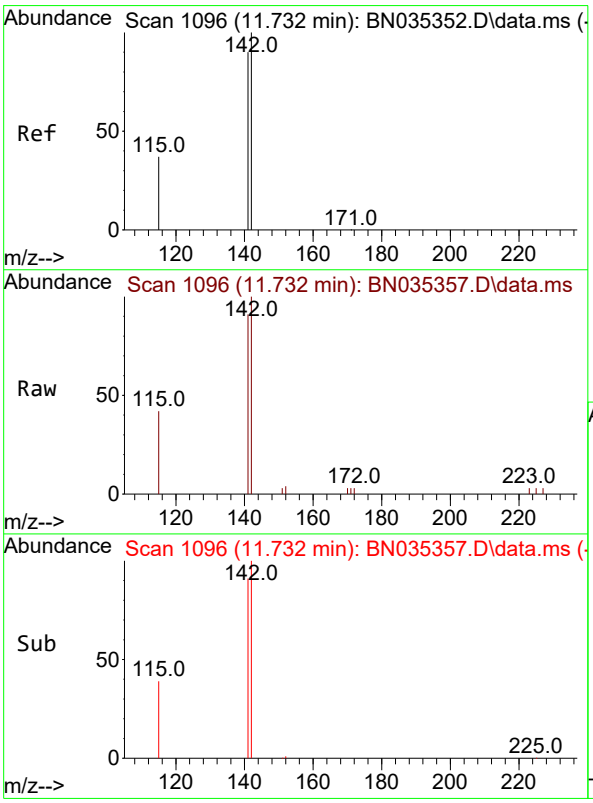

#11
2-Methylnaphthalene-d10
Concen: 0.420 ng
RT: 11.656 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

**Instrument :**
BNA_N
**ClientSampleId :**
ICVBN112724

Tgt Ion:152 Resp: 2565

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.5 | 16.6 | 25.0 |

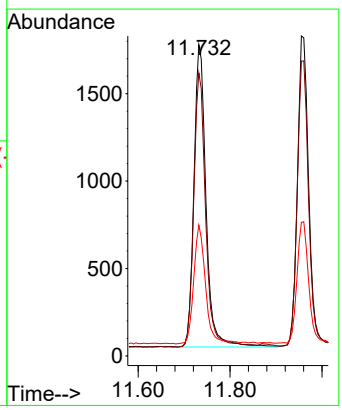


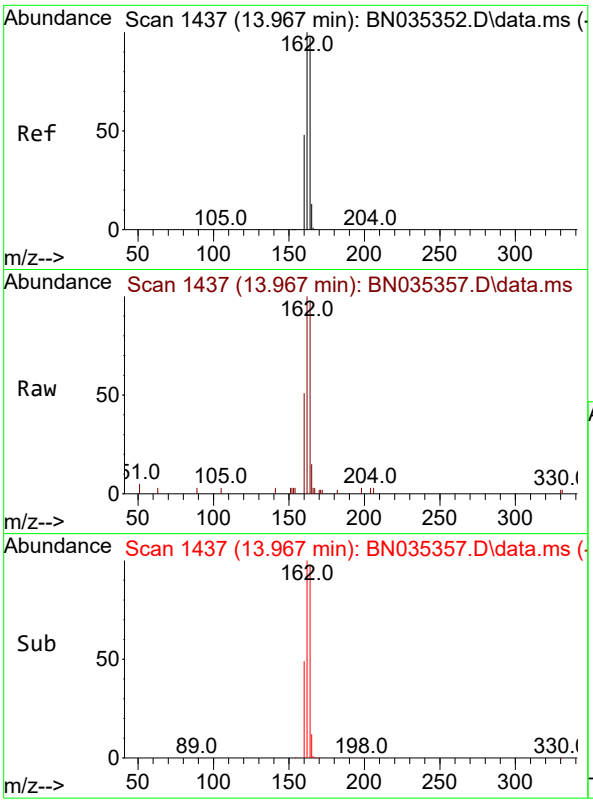




#12
2-Methylnaphthalene
Concen: 0.428 ng
RT: 11.732 min Scan# 1096
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:142 Resp: 3157

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 90.9 | 72.2 | 108.4 |
| 115 | 42.0 | 31.4 | 47.0 |



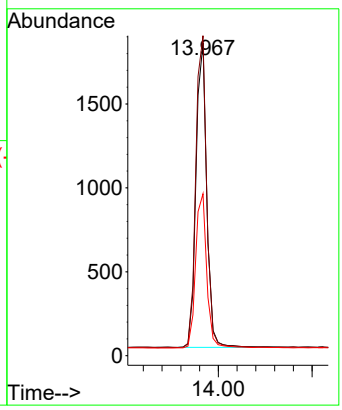


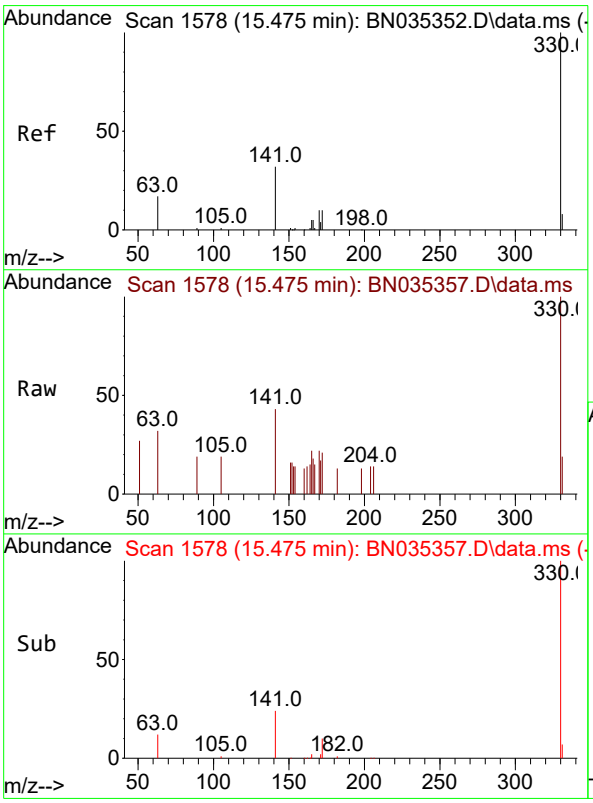

#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

**Instrument :**
BNA_N
**ClientSampleId :**
ICVBN112724

Tgt Ion:164 Resp: 2879

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 102.3 | 82.2 | 123.2 |
| 160 | 51.8 | 40.1 | 60.1 |

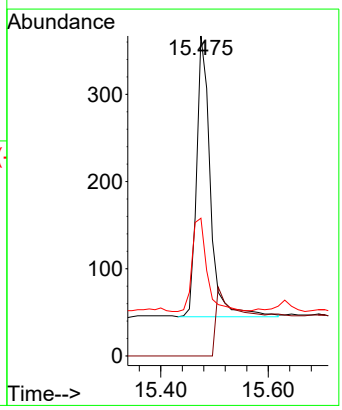


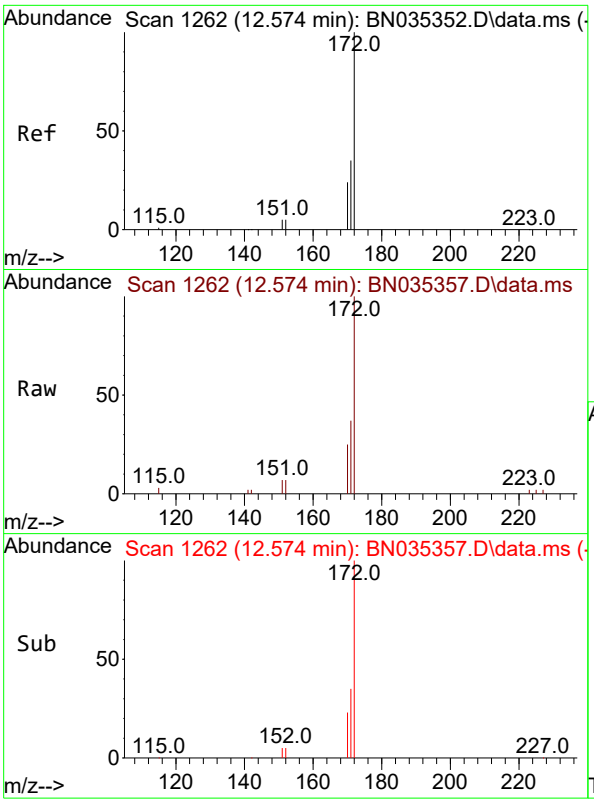




#14
2,4,6-Tribromophenol
Concen: 0.302 ng
RT: 15.475 min Scan# 1578
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:330 Resp: 617

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 0.0 | 0.0 | 0.0 |
| 141 | 34.7 | 26.6 | 40.0 |



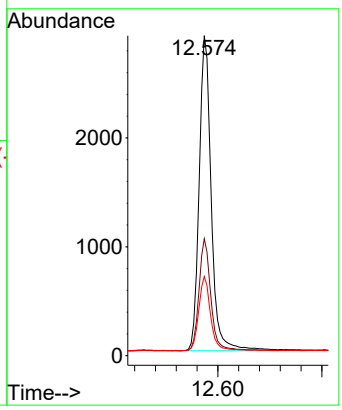


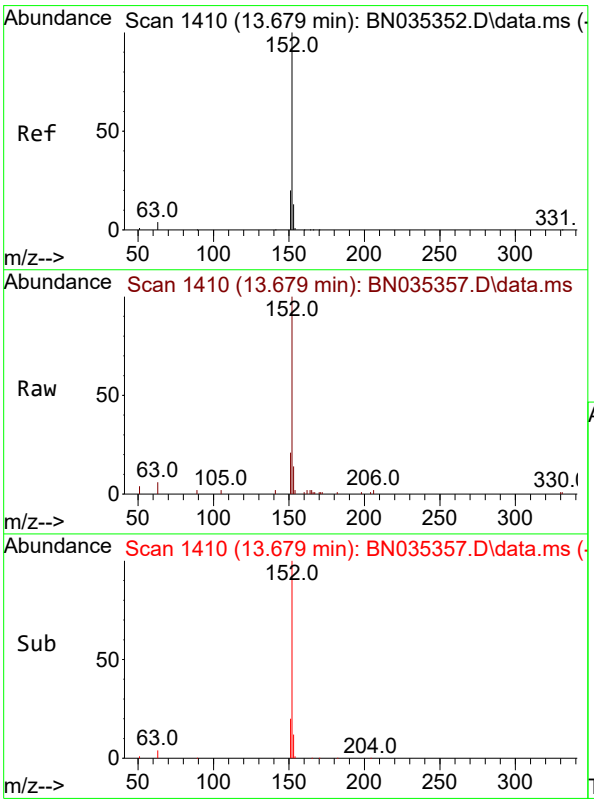

#15
2-Fluorobiphenyl
Concen: 0.427 ng
RT: 12.574 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

**Instrument :**
BNA_N
**ClientSampleId :**
ICVBN112724

Tgt Ion:172 Resp: 4647

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 36.5 | 29.0 | 43.4 |
| 170 | 24.7 | 19.8 | 29.8 |

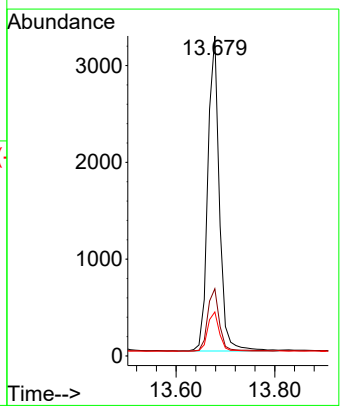


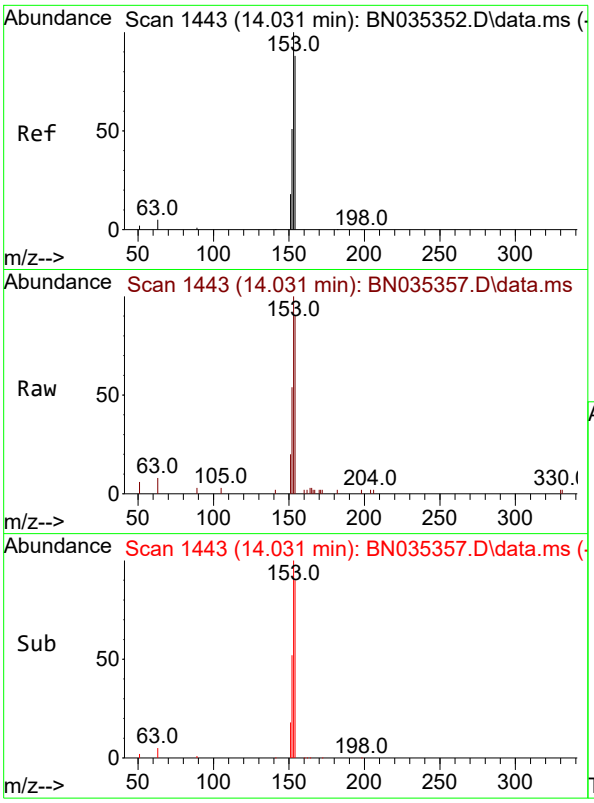




#16
Acenaphthylene
Concen: 0.435 ng
RT: 13.679 min Scan# 1410
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:152 Resp: 5261

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.1 | 16.2 | 24.2 |
| 153 | 12.7 | 10.4 | 15.6 |



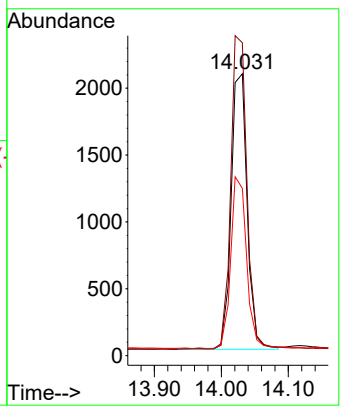


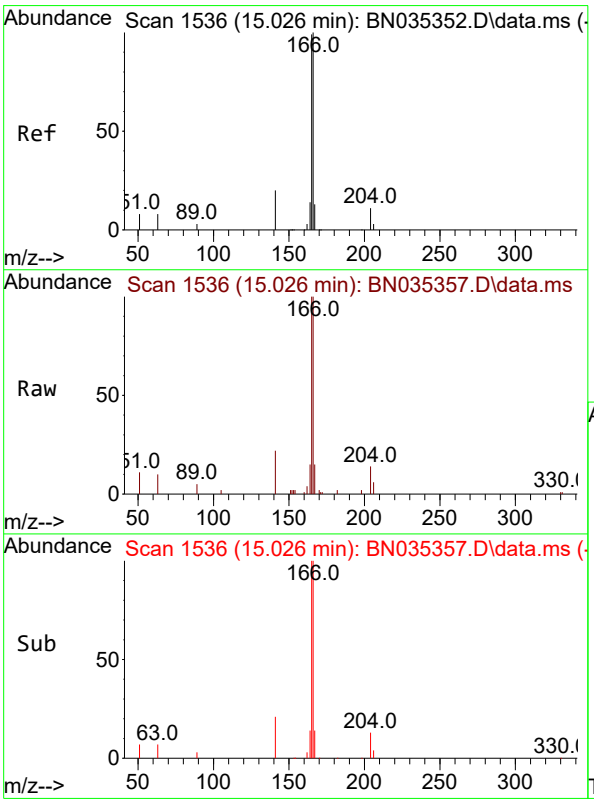

#17
Acenaphthene
Concen: 0.426 ng
RT: 14.031 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

**Instrument :**
BNA_N
**ClientSampleId :**
ICVBN112724

Tgt Ion:154 Resp: 3421

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 115.4 | 92.6 | 139.0 |
| 152 | 61.9 | 49.0 | 73.6 |

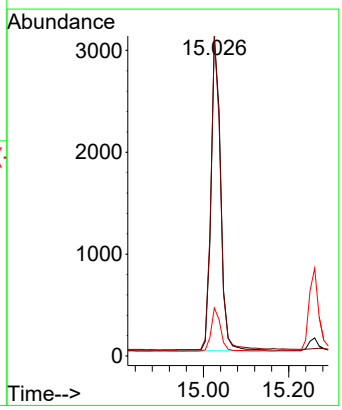


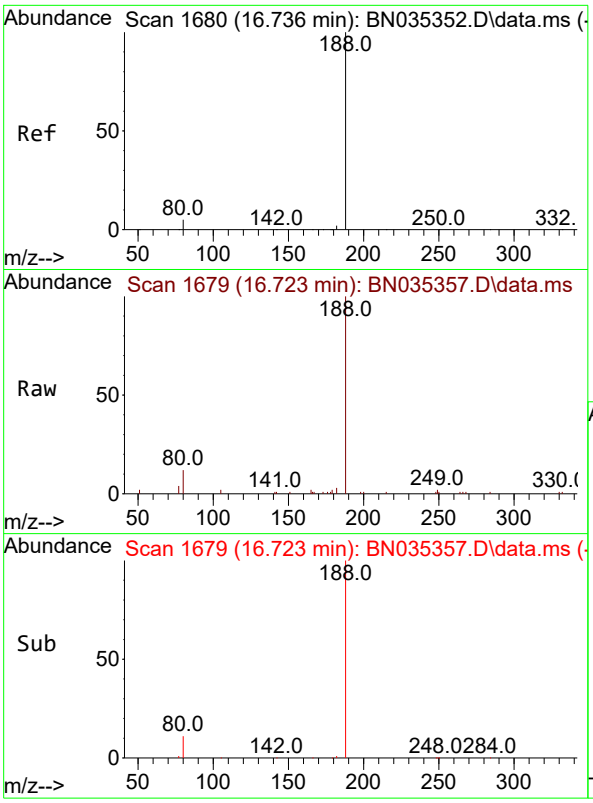




#18
Fluorene
Concen: 0.420 ng
RT: 15.026 min Scan# 1536
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:166 Resp: 4825

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 98.4 | 79.7 | 119.5 |
| 167 | 13.6 | 10.8 | 16.2 |



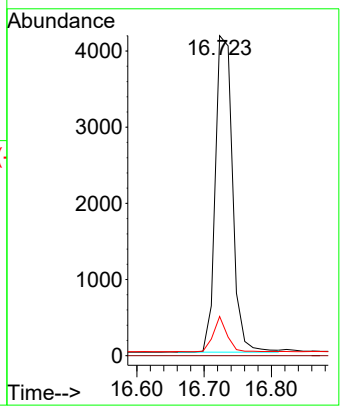


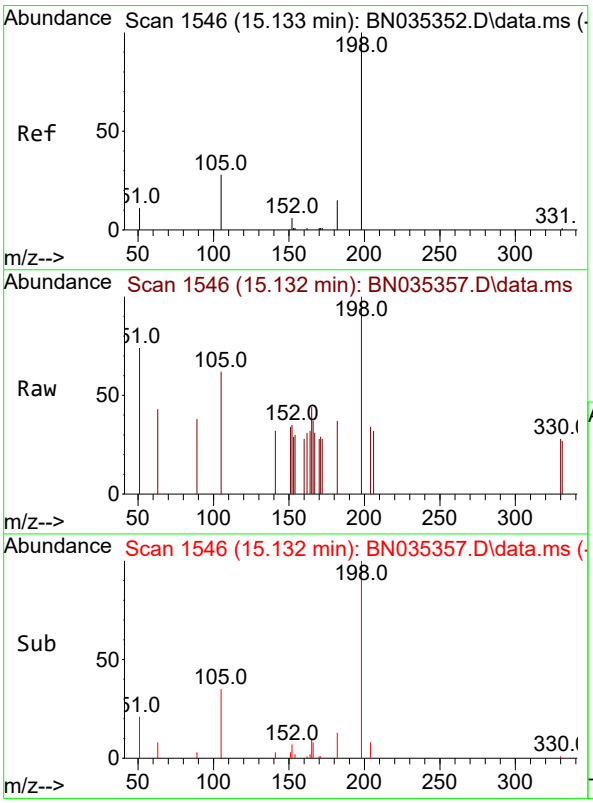

#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.723 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

**Instrument :**
BNA_N
**ClientSampleId :**
ICVBN112724

Tgt Ion:188 Resp: 7350

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 12.2 | 4.6 | 6.8# |

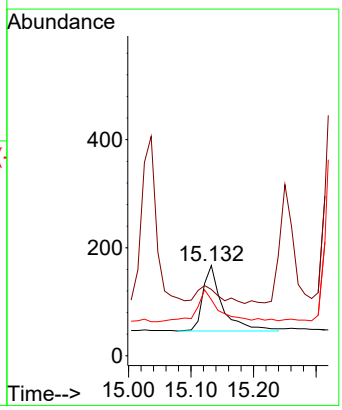


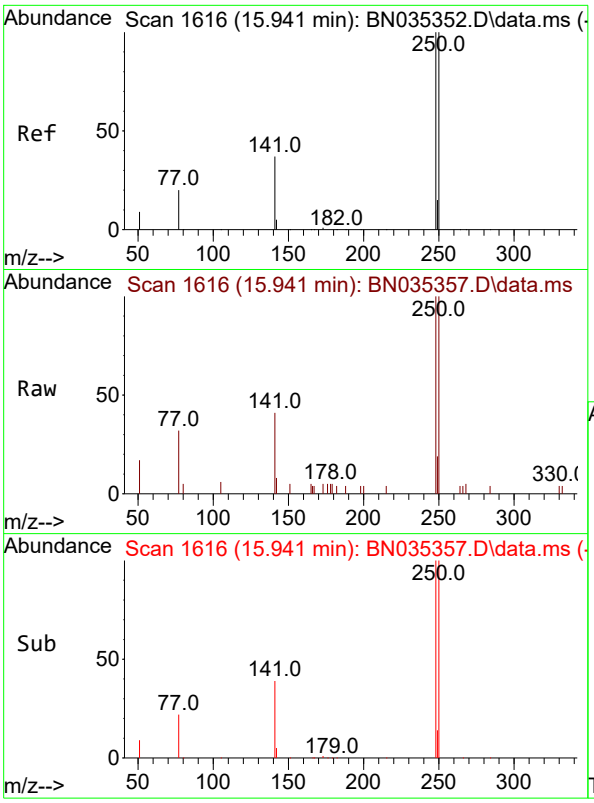




#20
4,6-Dinitro-2-methylphenol
Concen: 0.364 ng
RT: 15.132 min Scan# 1546
Delta R.T. -0.001 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:198 Resp: 263

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 198 | 100 | | |
| 51 | 73.7 | 46.5 | 69.7# |
| 105 | 62.3 | 45.3 | 67.9 |



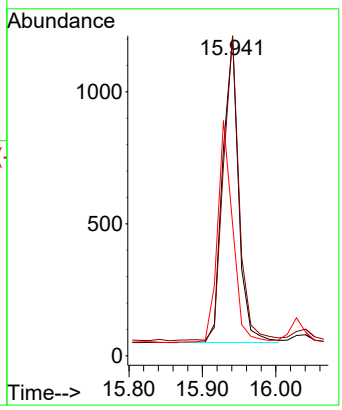


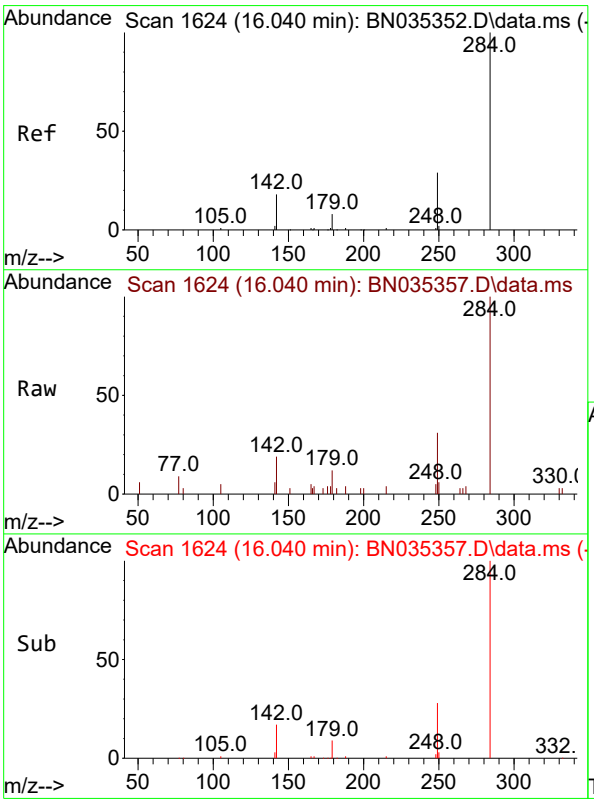

#21
4-Bromophenyl-phenylether
Concen: 0.405 ng
RT: 15.941 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

**Instrument :**
BNA_N
**ClientSampleId :**
ICVBN112724

Tgt Ion:248 Resp: 1742

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 100.3 | 80.6 | 120.8 |
| 141 | 41.2 | 31.5 | 47.3 |

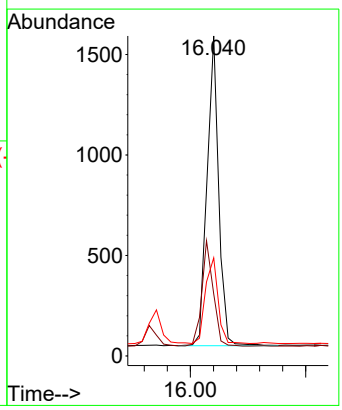


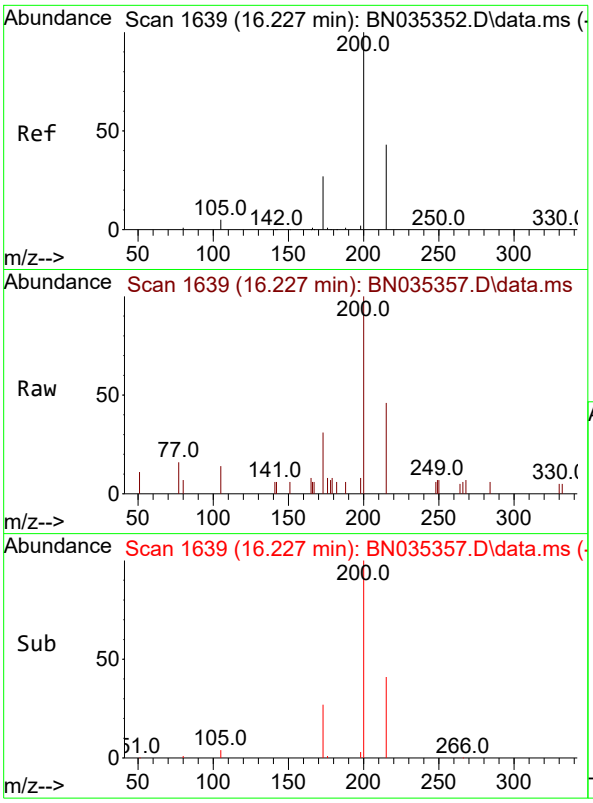




#22
Hexachlorobenzene
Concen: 0.426 ng
RT: 16.040 min Scan# 1624
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:284 Resp: 2151

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 33.5 | 26.7 | 40.1 |
| 249 | 30.0 | 24.6 | 36.8 |



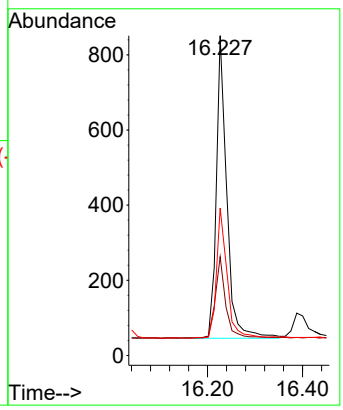


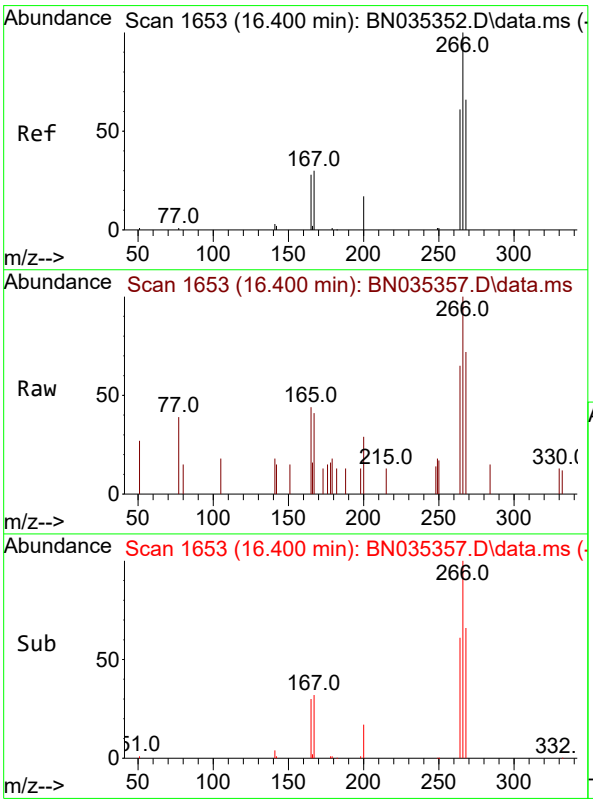

#23
Atrazine
Concen: 0.401 ng
RT: 16.227 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

**Instrument :**
BNA_N
**ClientSampleId :**
ICVBN112724

Tgt Ion:200 Resp: 1227

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 173 | 30.9 | 24.1 | 36.1 |
| 215 | 46.1 | 36.9 | 55.3 |

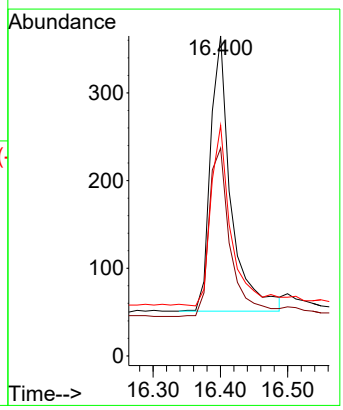


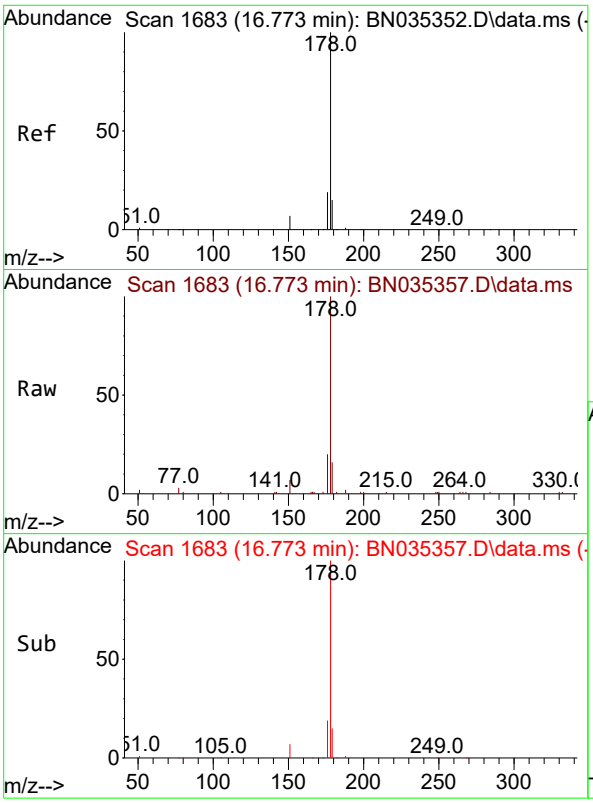




#24
Pentachlorophenol
Concen: 0.301 ng
RT: 16.400 min Scan# 1653
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:266 Resp: 662

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 264 | 65.0 | 42.3 | 63.5# |
| 268 | 66.8 | 43.3 | 64.9# |



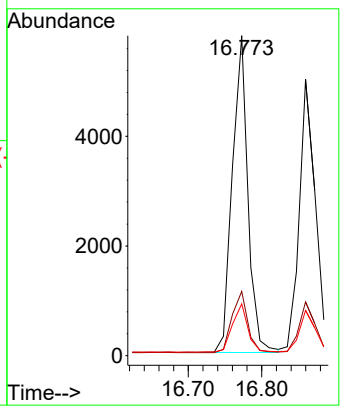


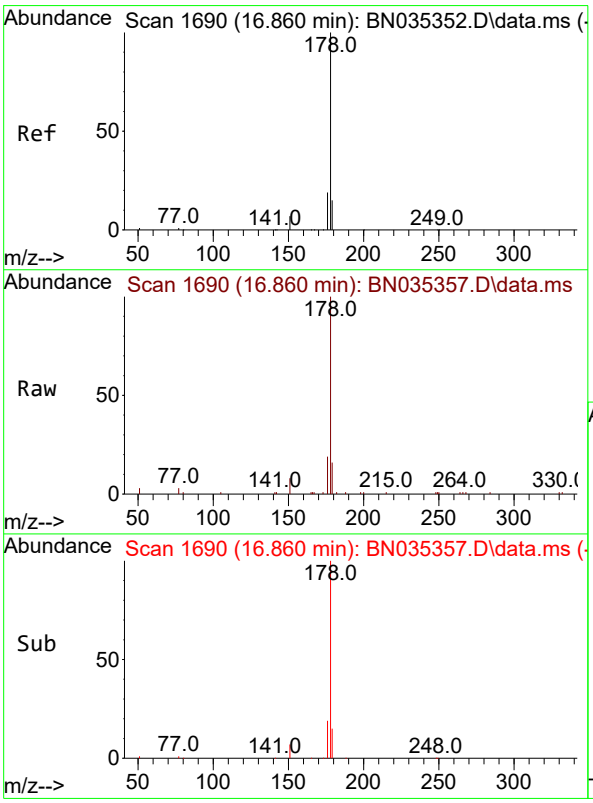

#25
Phenanthrene
Concen: 0.421 ng
RT: 16.773 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

**Instrument :**
BNA_N
**ClientSampleId :**
ICVBN112724

Tgt Ion:178 Resp: 8509

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.6 | 15.4 | 23.2 |
| 179 | 15.4 | 12.3 | 18.5 |

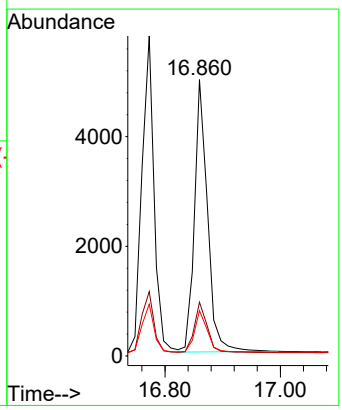


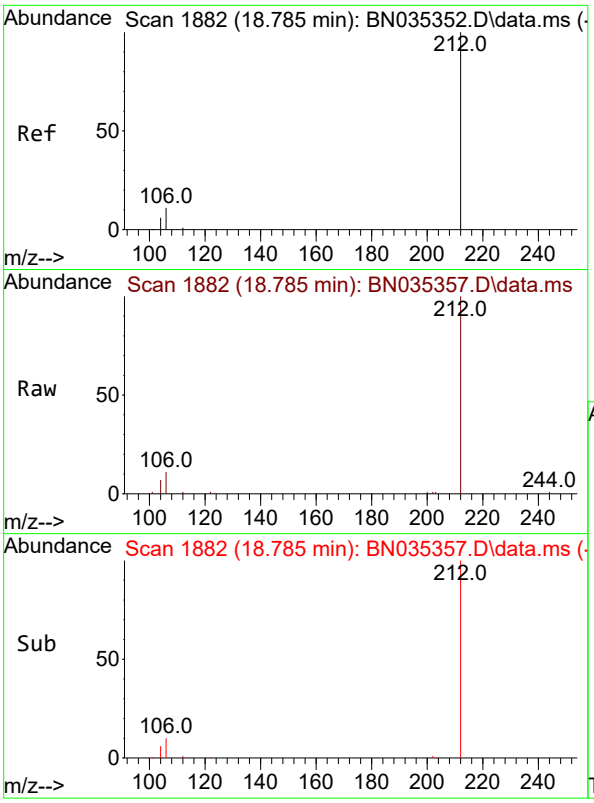




#26
Anthracene
Concen: 0.430 ng
RT: 16.860 min Scan# 1690
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:178 Resp: 7849

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.8 | 15.0 | 22.6 |
| 179 | 15.3 | 12.6 | 18.8 |



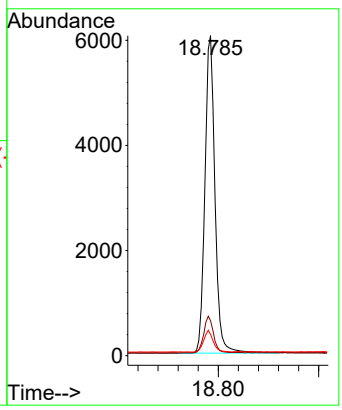


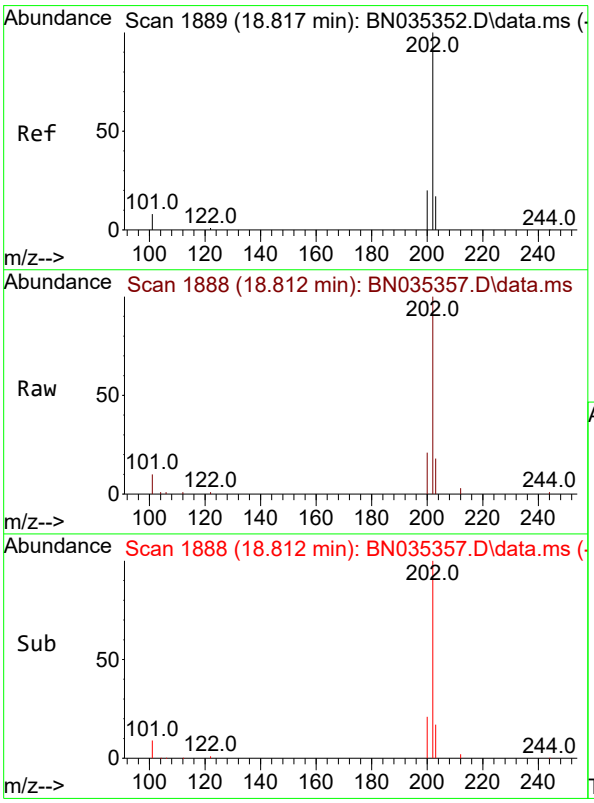

#27
Fluoranthene-d10
Concen: 0.404 ng
RT: 18.785 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

**Instrument :**
BNA_N
**ClientSampleId :**
ICVBN112724

Tgt Ion:212 Resp: 8415

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 11.3 | 9.2 | 13.8 |
| 104 | 6.4 | 5.3 | 7.9 |

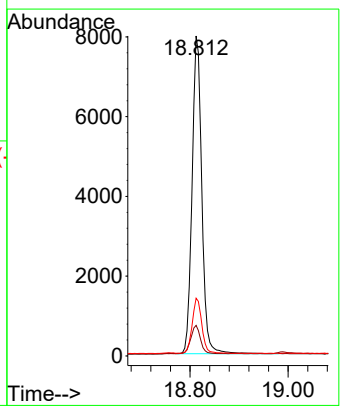


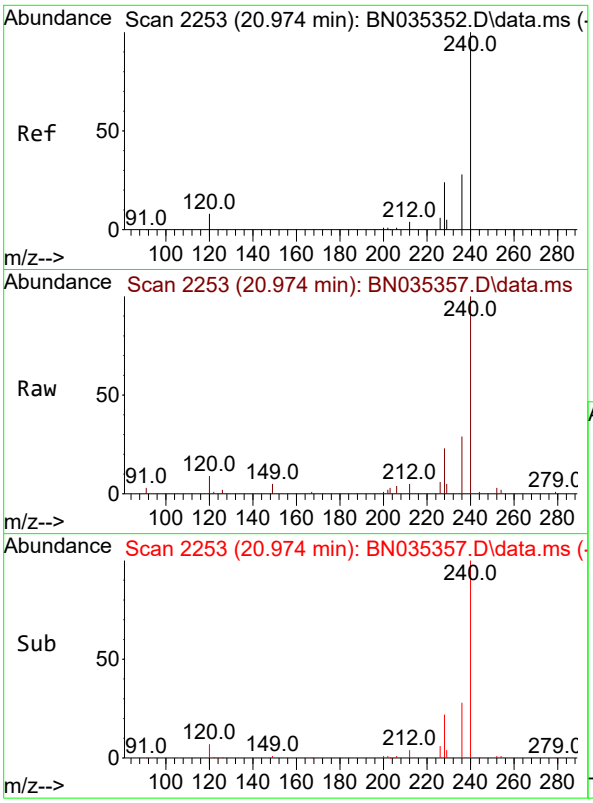




#28
Fluoranthene
Concen: 0.402 ng
RT: 18.812 min Scan# 1888
Delta R.T. -0.005 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:202 Resp: 10941

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 9.2 | 7.4 | 11.0 |
| 203 | 17.1 | 13.7 | 20.5 |



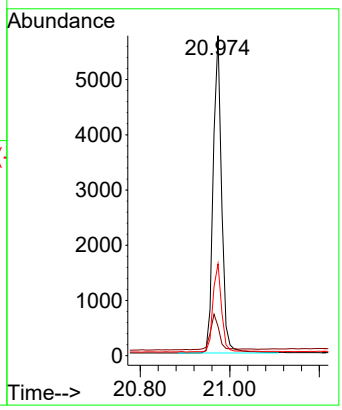


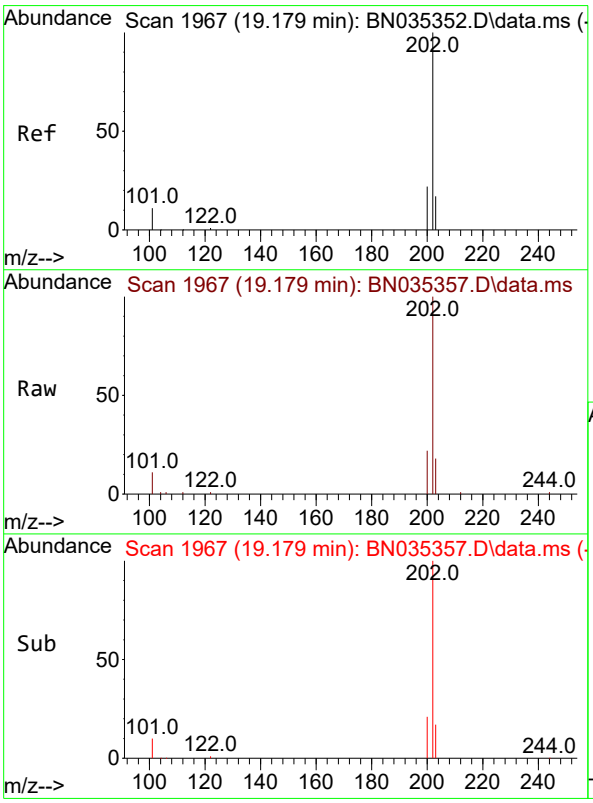

#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.974 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

**Instrument :**
BNA_N
**ClientSampleId :**
ICVBN112724

Tgt Ion:240 Resp: 7576

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 9.1 | 7.9 | 11.9 |
| 236 | 28.7 | 22.9 | 34.3 |

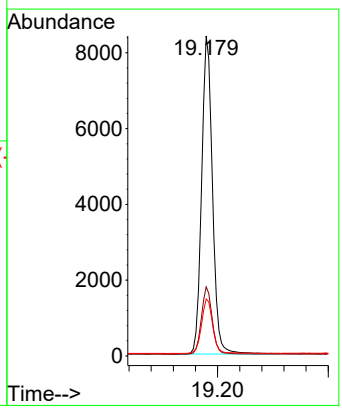


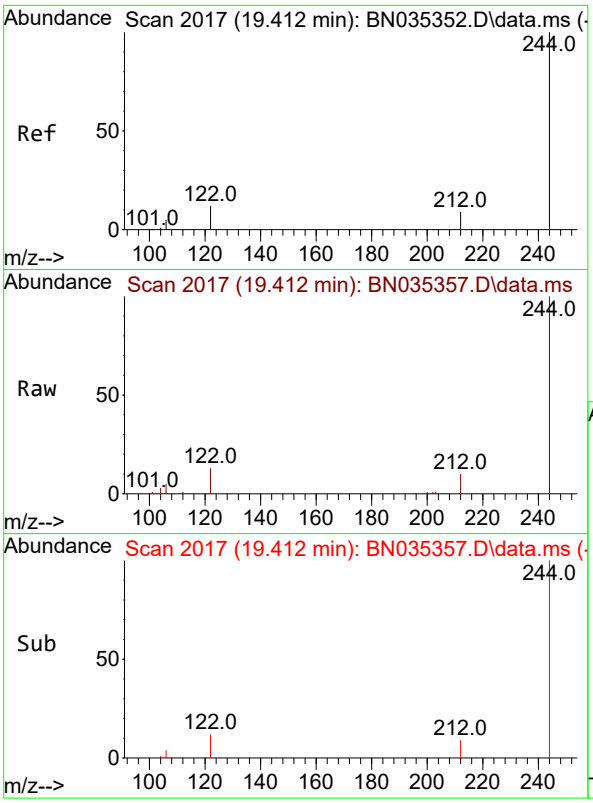




#30
Pyrene
Concen: 0.410 ng
RT: 19.179 min Scan# 1967
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:202 Resp: 11476

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 20.9 | 17.0 | 25.4 |
| 203 | 17.8 | 14.3 | 21.5 |



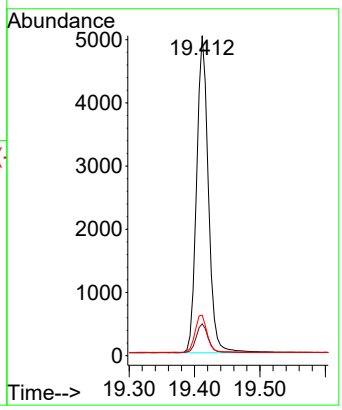


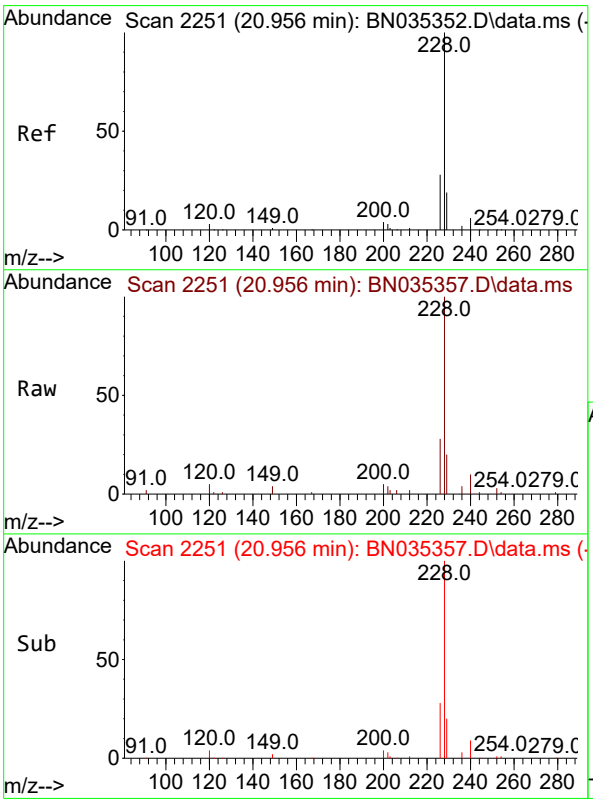

#31
Terphenyl-d14
Concen: 0.420 ng
RT: 19.412 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

**Instrument :**
BNA_N
**ClientSampleId :**
ICVBN112724

Tgt Ion:244 Resp: 6272

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 9.9 | 8.1 | 12.1 |
| 122 | 12.6 | 10.3 | 15.5 |

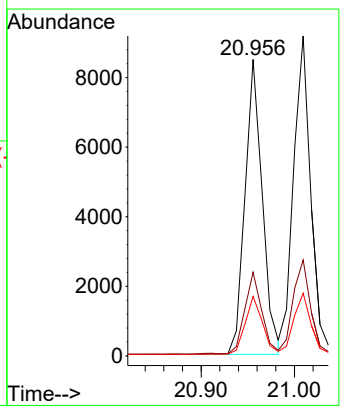


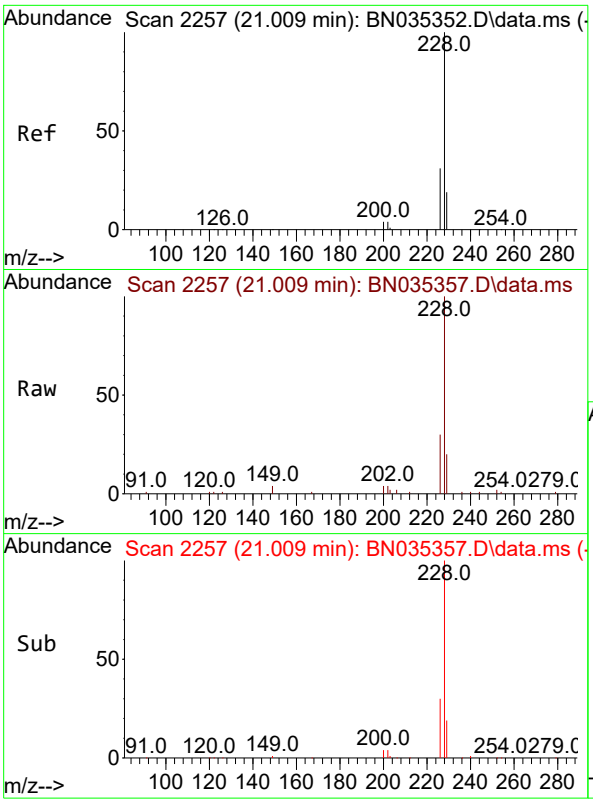




#32
Benzo(a)anthracene
Concen: 0.413 ng
RT: 20.956 min Scan# 2251
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:228 Resp: 10934

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 28.2 | 22.5 | 33.7 |
| 229 | 20.1 | 15.8 | 23.8 |



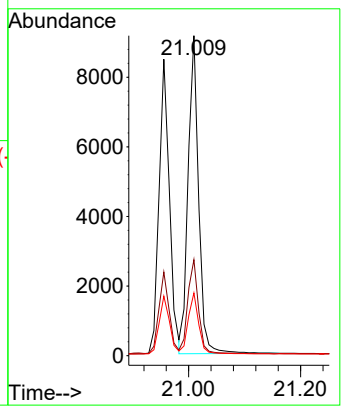


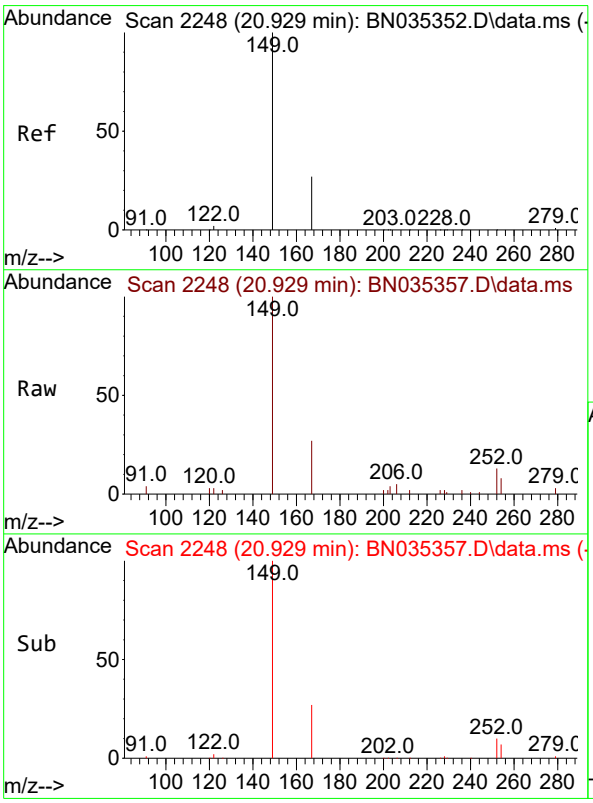

#33
Chrysene
Concen: 0.436 ng
RT: 21.009 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

**Instrument :**
BNA_N
**ClientSampleId :**
ICVBN112724

Tgt Ion:228 Resp: 11926

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 30.0 | 24.6 | 37.0 |
| 229 | 19.6 | 15.9 | 23.9 |

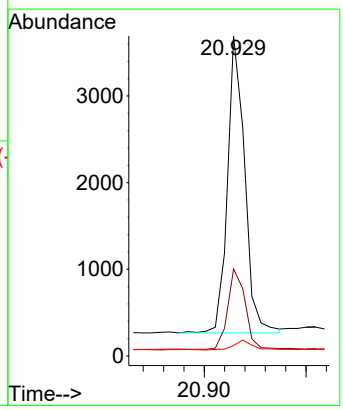


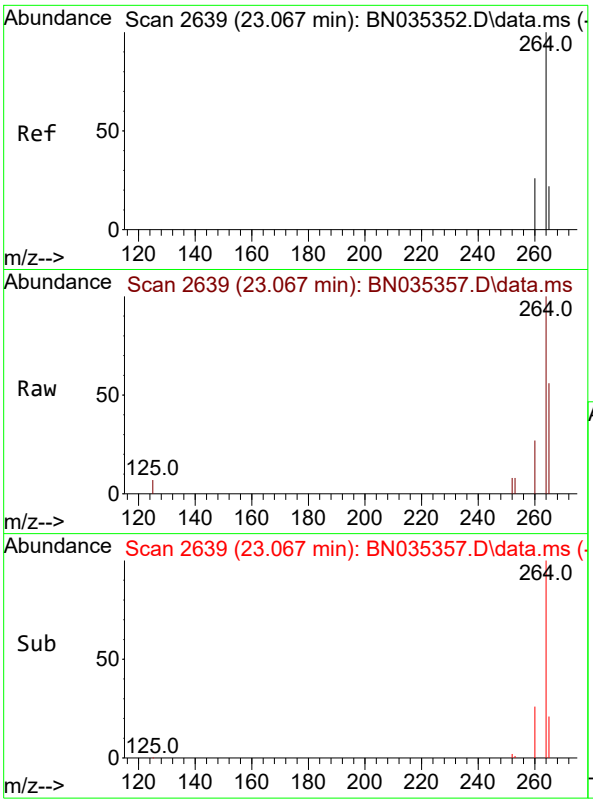




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.384 ng
RT: 20.929 min Scan# 2248
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:149 Resp: 4016

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 27.7 | 22.2 | 33.4 |
| 279 | 3.7 | 2.7 | 4.1 |



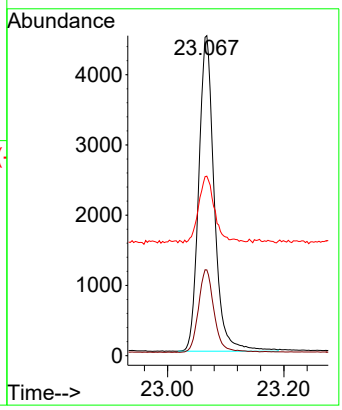


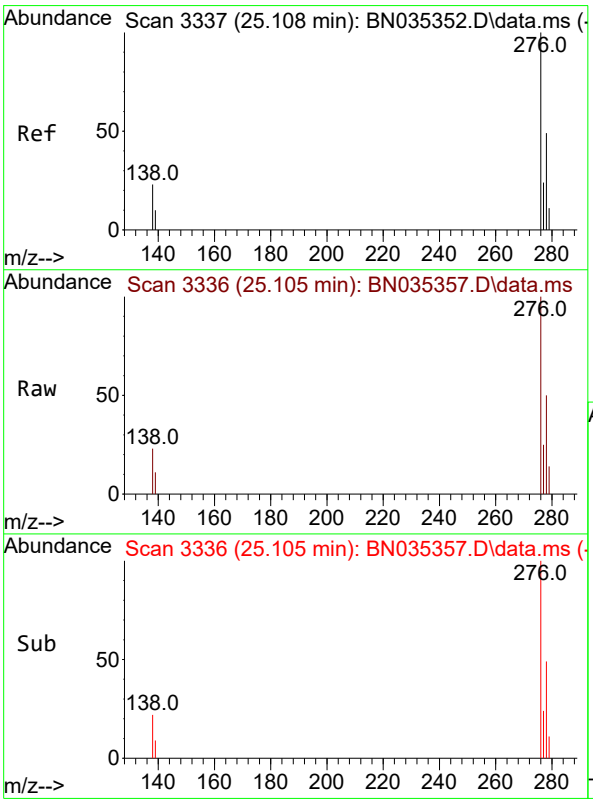

#35
Perylene-d12
Concen: 0.400 ng
RT: 23.067 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

**Instrument :**
BNA_N
**ClientSampleId :**
ICVBN112724

Tgt Ion:264 Resp: 8338

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 26.8 | 21.4 | 32.2 |
| 265 | 56.1 | 40.2 | 60.4 |

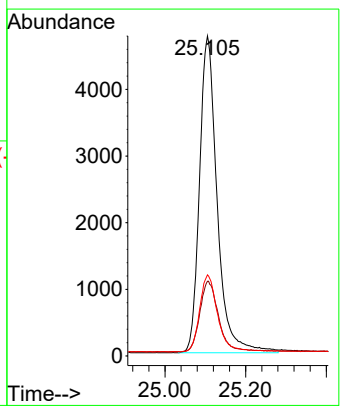


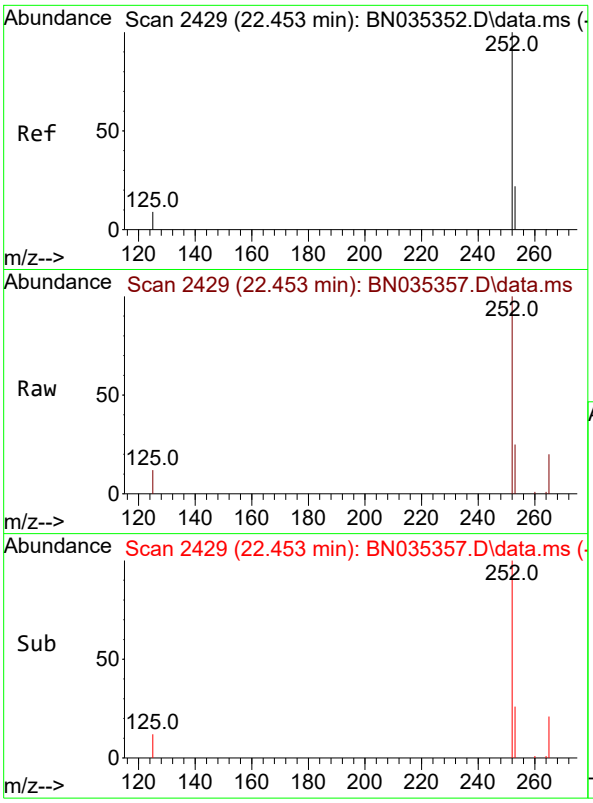




#36
Indeno(1,2,3-cd)pyrene
Concen: 0.443 ng
RT: 25.105 min Scan# 3336
Delta R.T. -0.003 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:276 Resp: 14433

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 23.5 | 19.4 | 29.0 |
| 277 | 24.6 | 19.8 | 29.6 |



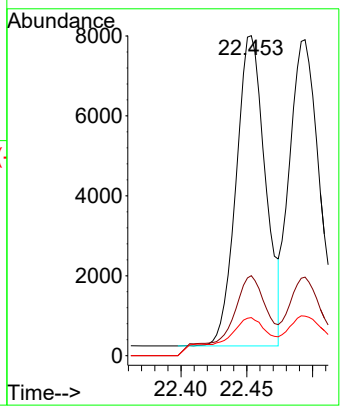


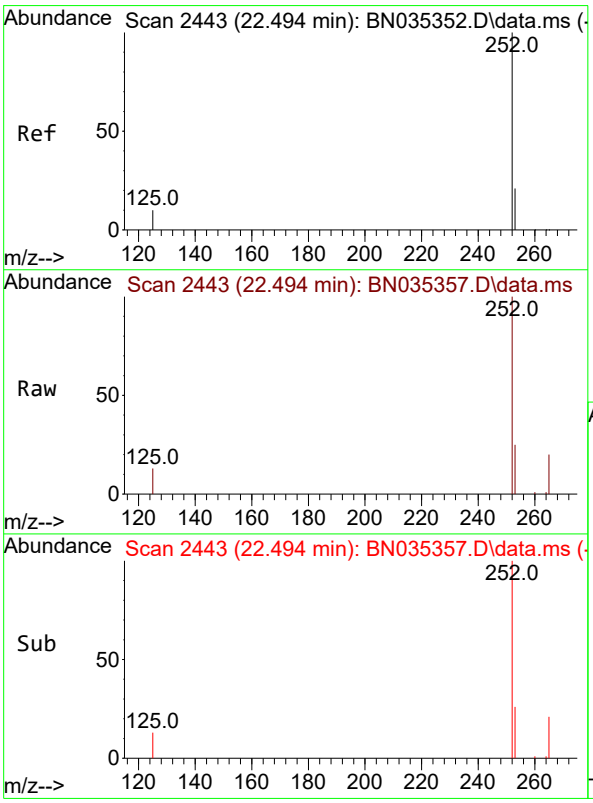

#37
Benzo(b)fluoranthene
Concen: 0.426 ng
RT: 22.453 min Scan# 24
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

**Instrument :**
BNA_N
**ClientSampleId :**
ICVBN112724

Tgt Ion:252 Resp: 12988

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 25.0 | 19.6 | 29.4 |
| 125 | 11.9 | 9.6 | 14.4 |

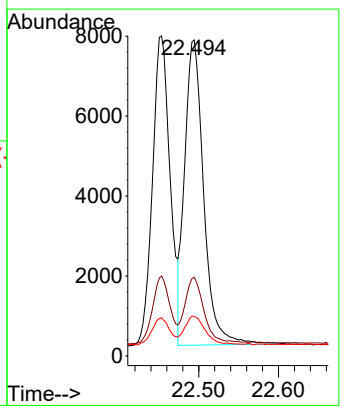


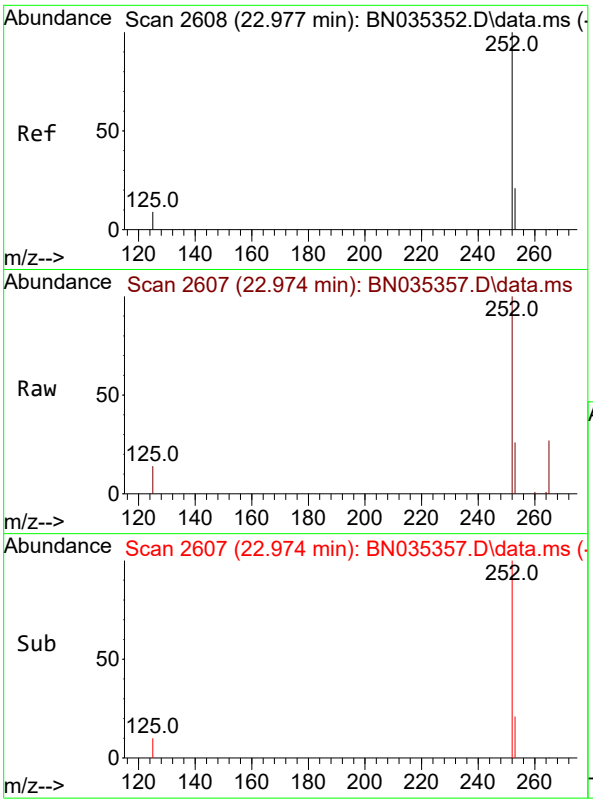




#38
Benzo(k)fluoranthene
Concen: 0.422 ng
RT: 22.494 min Scan# 2443
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:252 Resp: 12669

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 24.8 | 19.5 | 29.3 |
| 125 | 12.5 | 10.2 | 15.4 |



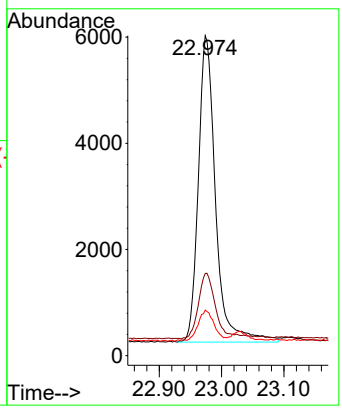


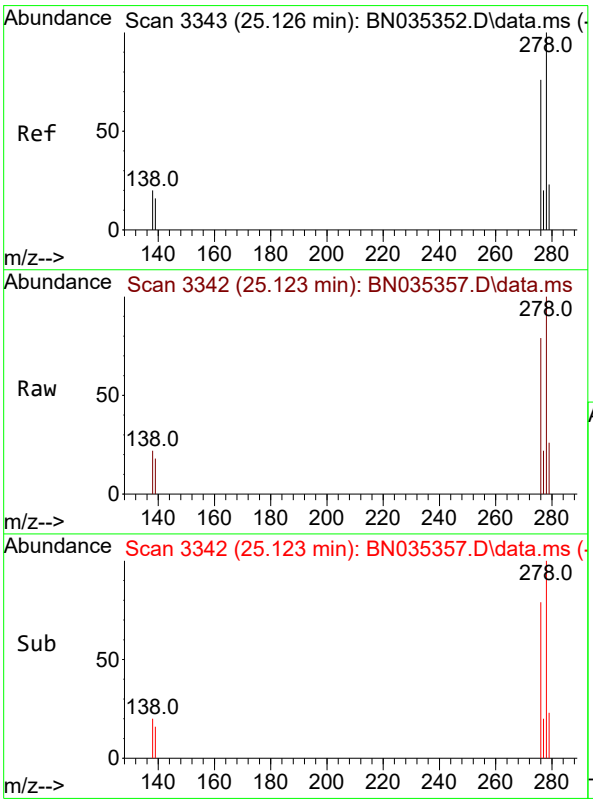

#39
Benzo(a)pyrene
Concen: 0.442 ng
RT: 22.974 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

**Instrument :**
BNA_N
**ClientSampleId :**
ICVBN112724

Tgt Ion:252 Resp: 11094

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 25.7 | 20.2 | 30.4 |
| 125 | 14.3 | 10.9 | 16.3 |

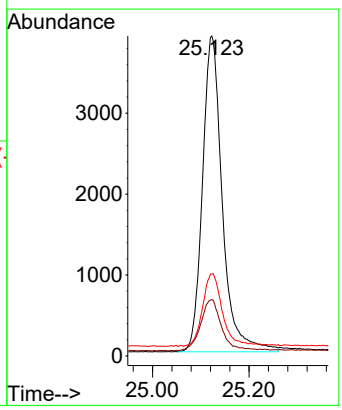


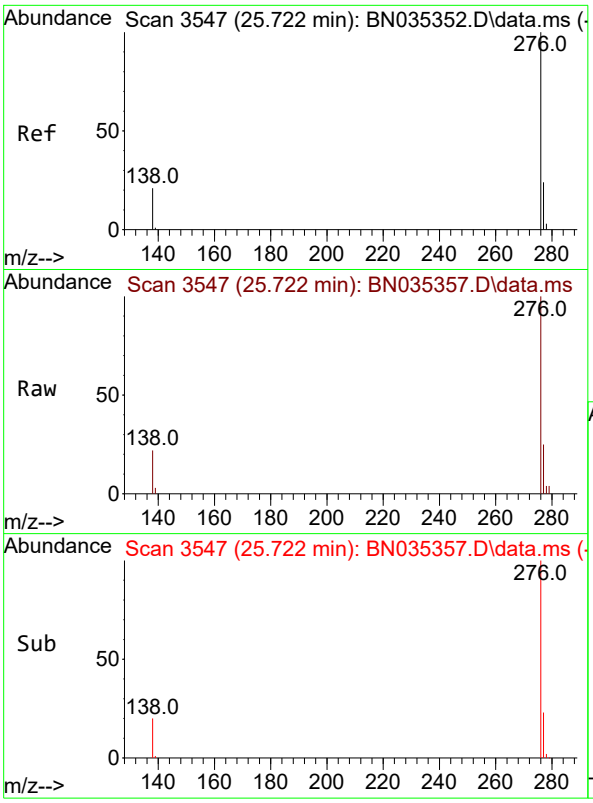




#40
Dibenzo(a,h)anthracene
Concen: 0.433 ng
RT: 25.123 min Scan# 3342
Delta R.T. -0.003 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:278 Resp: 11141

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 17.6 | 14.2 | 21.4 |
| 279 | 25.6 | 20.5 | 30.7 |



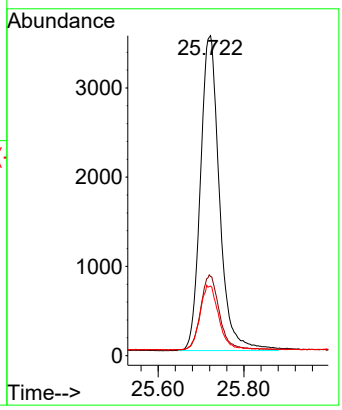



#41
Benzo(g,h,i)perylene
Concen: 0.404 ng
RT: 25.722 min Scan# 3
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

**Instrument :**
BNA_N
**ClientSampleId :**
ICVBN112724

Tgt Ion:276 Resp: 10870

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 24.7 | 19.9 | 29.9 |
| 138 | 21.7 | 17.8 | 26.8 |



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035811.D
Acq On : 24 Dec 2024 08:59
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 22 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Quant Time: Dec 24 23:16:14 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

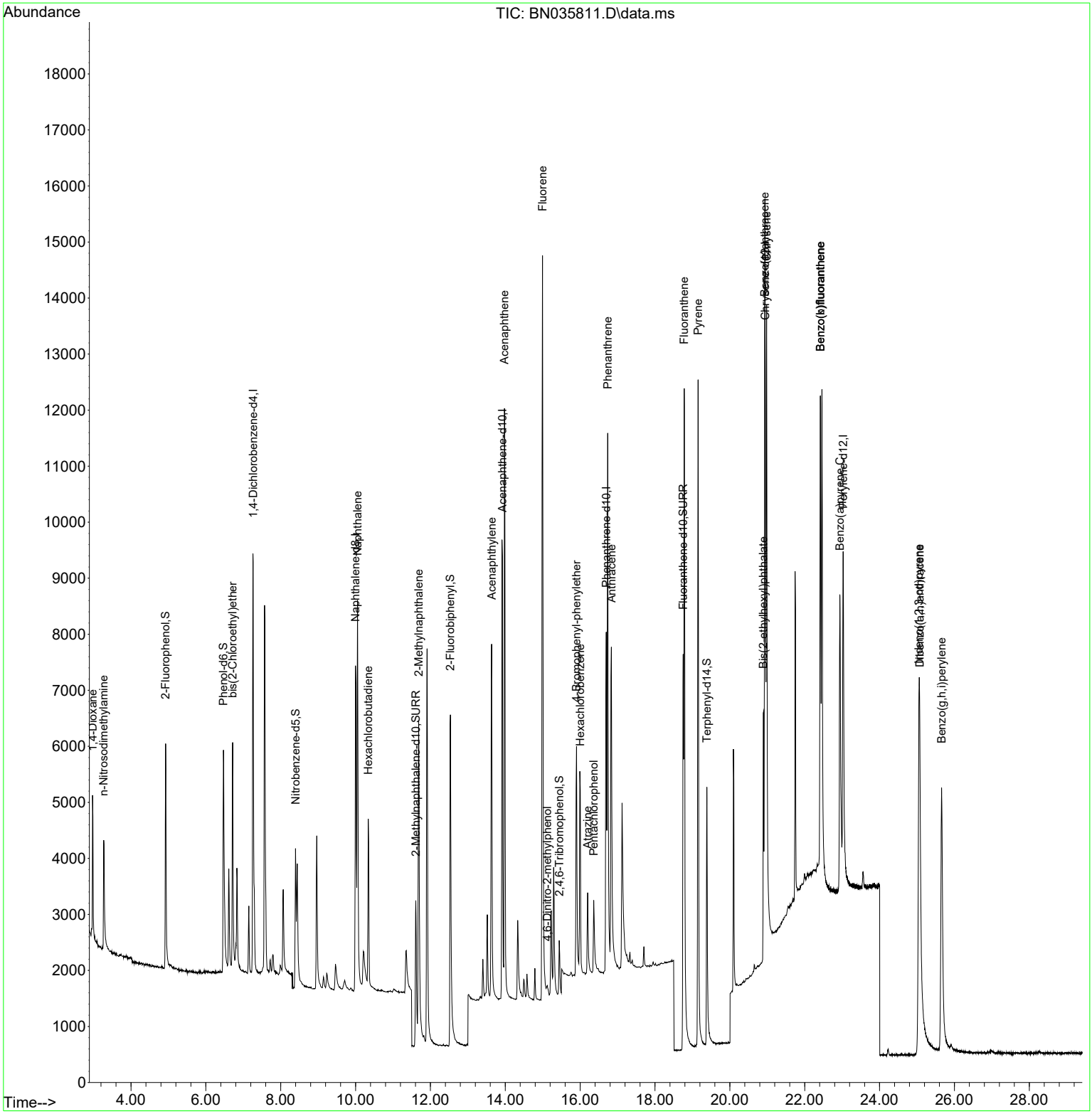
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.264 | 152 | 3972 | 0.400 | ng | | 0.00 |
| 7) Naphthalene-d8 | 9.998 | 136 | 9483 | 0.400 | ng | | -0.02 |
| 13) Acenaphthene-d10 | 13.924 | 164 | 5387 | 0.400 | ng | | -0.01 |
| 19) Phenanthrene-d10 | 16.698 | 188 | 10855 | 0.400 | ng | | # 0.00 |
| 29) Chrysene-d12 | 20.947 | 240 | 8569 | 0.400 | ng | | 0.00 |
| 35) Perylene-d12 | 23.029 | 264 | 8879 | 0.400 | ng | | #-0.01 |
| System Monitoring Compounds | | | | | | | |
| 4) 2-Fluorophenol | 4.924 | 112 | 3699 | 0.372 | ng | | -0.01 |
| 5) Phenol-d6 | 6.470 | 99 | 5118 | 0.428 | ng | | -0.02 |
| 8) Nitrobenzene-d5 | 8.397 | 82 | 3046 | 0.526 | ng | | -0.01 |
| 11) 2-Methylnaphthalene-d10 | 11.610 | 152 | 5128 | 0.346 | ng | | -0.01 |
| 14) 2,4,6-Tribromophenol | 15.442 | 330 | 1155 | 0.302 | ng | | -0.01 |
| 15) 2-Fluorobiphenyl | 12.533 | 172 | 8203 | 0.403 | ng | | -0.01 |
| 27) Fluoranthene-d10 | 18.752 | 212 | 10340 | 0.336 | ng | | 0.00 |
| 31) Terphenyl-d14 | 19.384 | 244 | 6888 | 0.407 | ng | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 2.974 | 88 | 1814 | 0.478 | ng | | 98 |
| 3) n-Nitrosodimethylamine | 3.270 | 42 | 1302 | 0.412 | ng | # | 91 |
| 6) bis(2-Chloroethyl)ether | 6.715 | 93 | 3672 | 0.366 | ng | | 99 |
| 9) Naphthalene | 10.052 | 128 | 9671 | 0.387 | ng | | 99 |
| 10) Hexachlorobutadiene | 10.340 | 225 | 2548 | 0.442 | ng | # | 100 |
| 12) 2-Methylnaphthalene | 11.686 | 142 | 6060 | 0.338 | ng | | 100 |
| 16) Acenaphthylene | 13.636 | 152 | 8415 | 0.372 | ng | | 100 |
| 17) Acenaphthene | 13.978 | 154 | 5782 | 0.385 | ng | | 99 |
| 18) Fluorene | 14.993 | 166 | 7456 | 0.347 | ng | | 100 |
| 20) 4,6-Dinitro-2-methylph... | 15.122 | 198 | 244 | 0.229 | ng | # | 7 |
| 21) 4-Bromophenyl-phenylether | 15.904 | 248 | 2379 | 0.375 | ng | # | 93 |
| 22) Hexachlorobenzene | 16.003 | 284 | 3393 | 0.455 | ng | | 97 |
| 23) Atrazine | 16.202 | 200 | 1640 | 0.363 | ng | | 96 |
| 24) Pentachlorophenol | 16.363 | 266 | 1040 | 0.321 | ng | | 87 |
| 25) Phenanthrene | 16.735 | 178 | 10950 | 0.367 | ng | | 99 |
| 26) Anthracene | 16.835 | 178 | 9488 | 0.352 | ng | | 100 |
| 28) Fluoranthene | 18.780 | 202 | 13421 | 0.334 | ng | | 99 |
| 30) Pyrene | 19.151 | 202 | 13577 | 0.429 | ng | | 100 |
| 32) Benzo(a)anthracene | 20.929 | 228 | 9796 | 0.327 | ng | | 99 |
| 33) Chrysene | 20.982 | 228 | 13234 | 0.428 | ng | | 99 |
| 34) Bis(2-ethylhexyl)phtha... | 20.893 | 149 | 4719 | 0.399 | ng | | 100 |
| 36) Indeno(1,2,3-cd)pyrene | 25.049 | 276 | 12494 | 0.360 | ng | | 99 |
| 37) Benzo(b)fluoranthene | 22.418 | 252 | 16964 | 0.522 | ng | # | 95 |
| 38) Benzo(k)fluoranthene | 22.418 | 252 | 17845 | 0.558 | ng | | 96 |
| 39) Benzo(a)pyrene | 22.939 | 252 | 10000 | 0.374 | ng | # | 91 |
| 40) Dibenzo(a,h)anthracene | 25.073 | 278 | 8960 | 0.327 | ng | | 94 |
| 41) Benzo(g,h,i)perylene | 25.658 | 276 | 11606 | 0.405 | ng | | 99 |

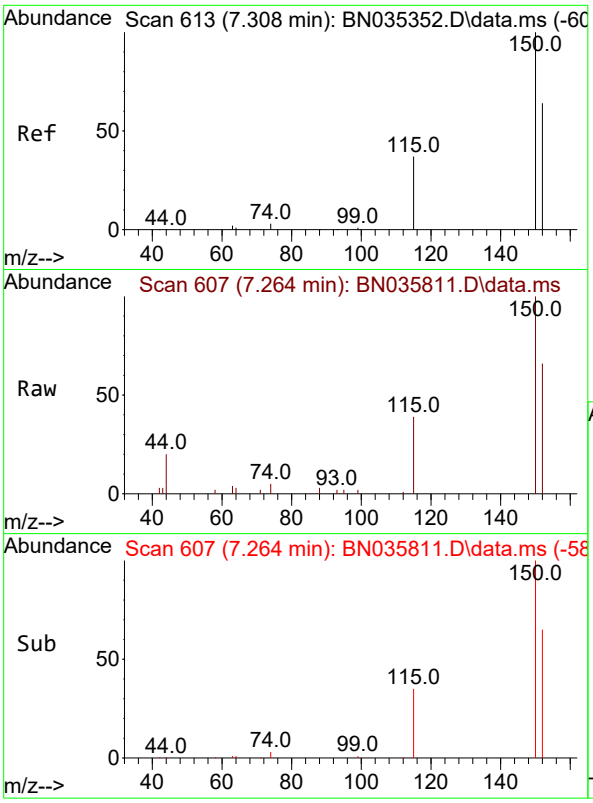
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035811.D
Acq On : 24 Dec 2024 08:59
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 22 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Quant Time: Dec 24 23:16:14 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



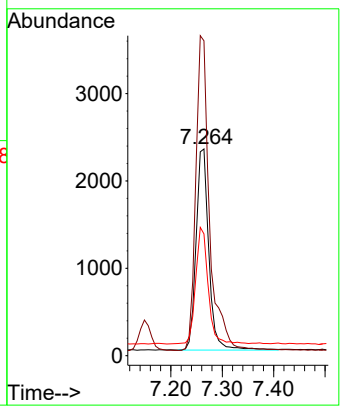


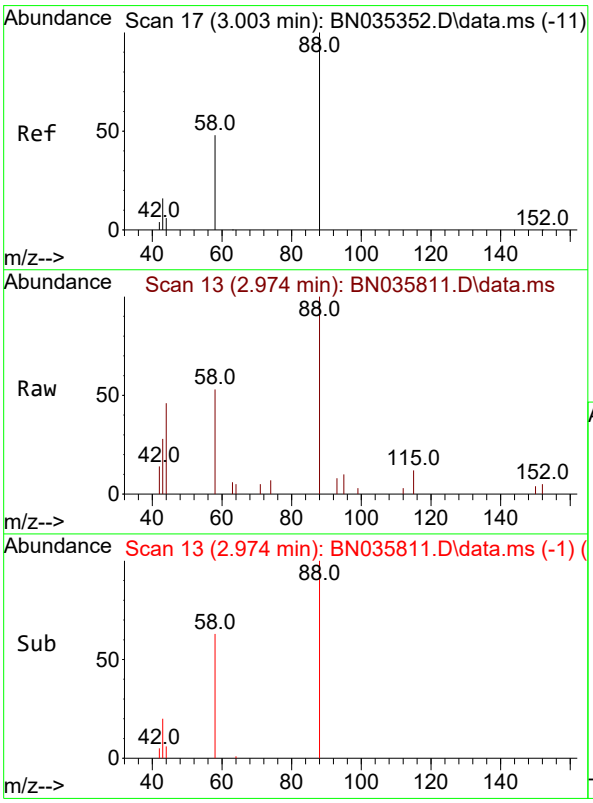

#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.264 min Scan# 6
Delta R.T. -0.008 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:152 Resp: 3972

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 152.3 | 124.0 | 186.0 |
| 115 | 58.9 | 49.6 | 74.4 |

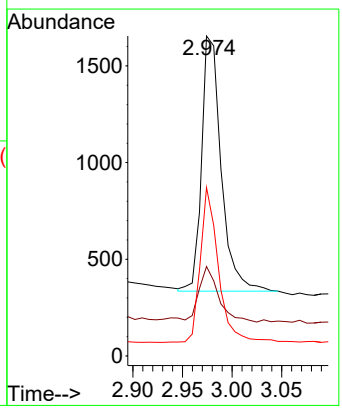


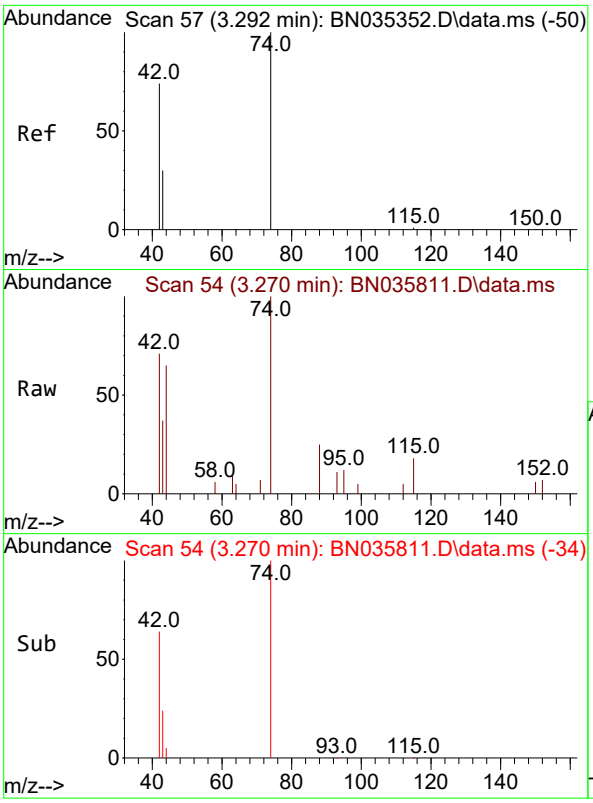




#2
1,4-Dioxane
Concen: 0.478 ng
RT: 2.974 min Scan# 13
Delta R.T. -0.007 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion: 88 Resp: 1814

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 23.2 | 17.2 | 25.8 |
| 58 | 56.2 | 44.5 | 66.7 |



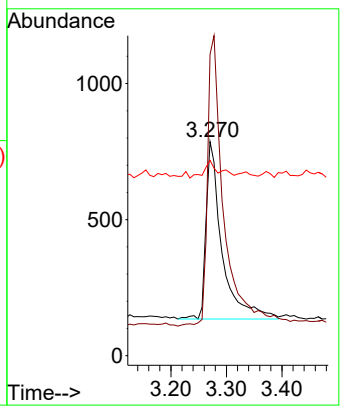


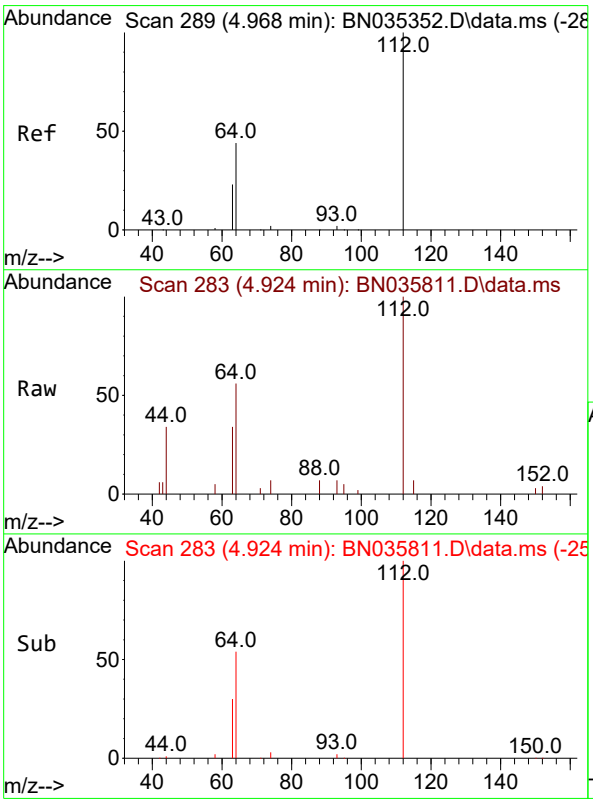

#3
n-Nitrosodimethylamine
Concen: 0.412 ng
RT: 3.270 min Scan# 54
Delta R.T. -0.007 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion: 42 Resp: 1302

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 167.4 | 124.9 | 187.3 |
| 44 | 5.4 | 2.2 | 3.4# |

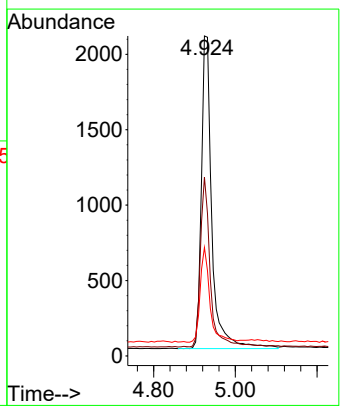


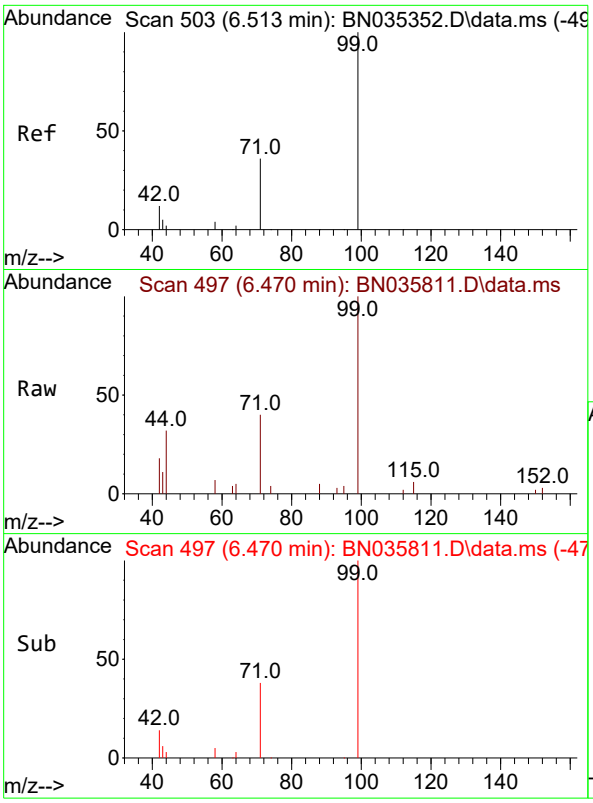




#4
2-Fluorophenol
Concen: 0.372 ng
RT: 4.924 min Scan# 283
Delta R.T. -0.015 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:112 Resp: 3699

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 51.2 | 39.8 | 59.8 |
| 63 | 27.9 | 21.0 | 31.6 |



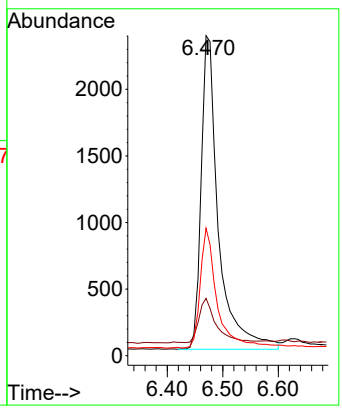


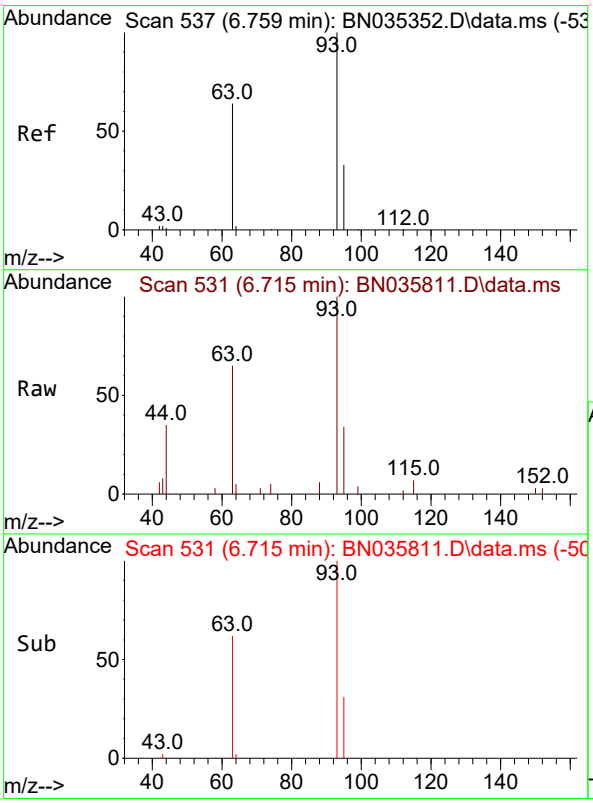

#5
Phenol-d6
Concen: 0.428 ng
RT: 6.470 min Scan# 4
Delta R.T. -0.022 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion: 99 Resp: 5118

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 13.7 | 11.4 | 17.2 |
| 71 | 38.3 | 29.3 | 43.9 |

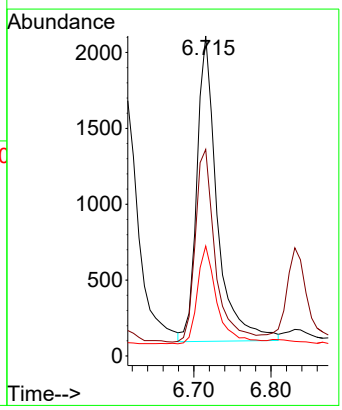


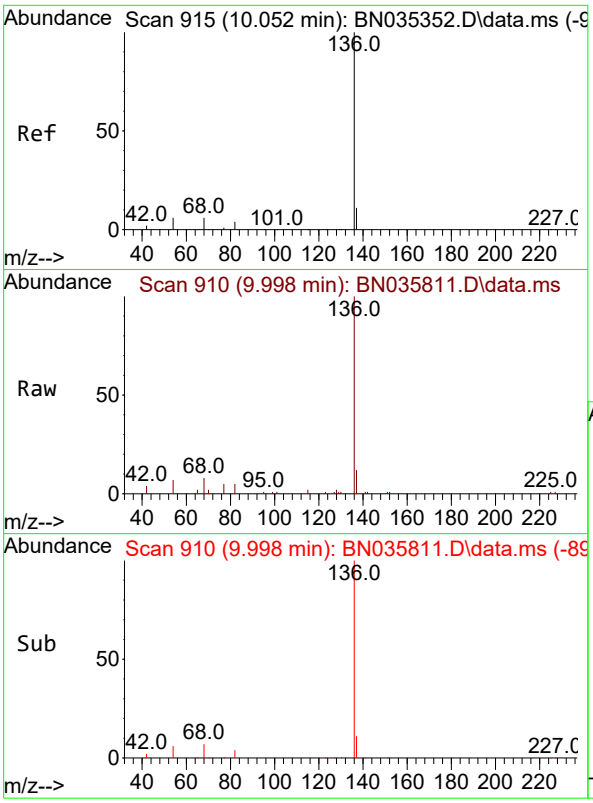




#6
bis(2-Chloroethyl)ether
Concen: 0.366 ng
RT: 6.715 min Scan# 531
Delta R.T. -0.015 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion: 93 Resp: 3672

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 62.3 | 50.4 | 75.6 |
| 95 | 30.7 | 25.7 | 38.5 |



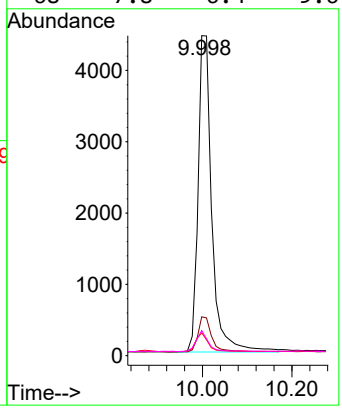


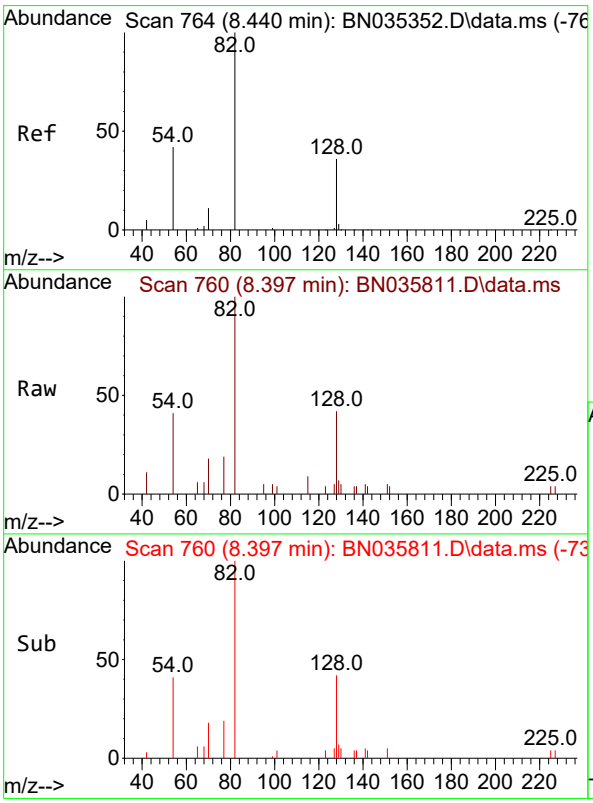

#7
Naphthalene-d8
Concen: 0.400 ng
RT: 9.998 min Scan# 91
Delta R.T. -0.022 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:136 Resp: 9483

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 12.1 | 10.2 | 15.2 |
| 54 | 7.1 | 6.1 | 9.1 |
| 68 | 7.8 | 6.4 | 9.6 |

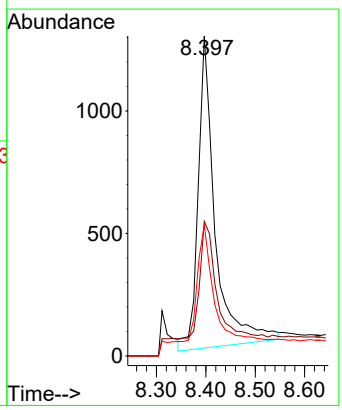


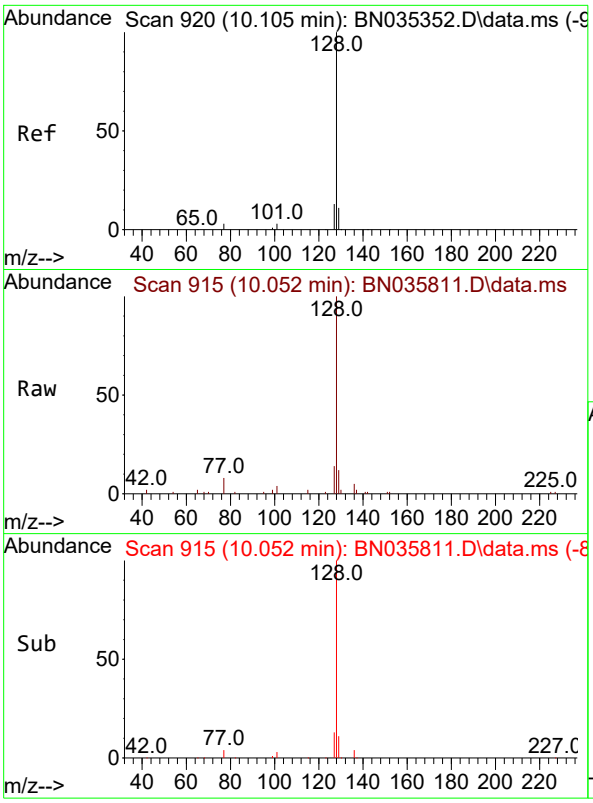




#8
Nitrobenzene-d5
Concen: 0.526 ng
RT: 8.397 min Scan# 760
Delta R.T. -0.011 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion: 82 Resp: 3046

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 42.1 | 33.4 | 50.0 |
| 54 | 41.0 | 36.7 | 55.1 |



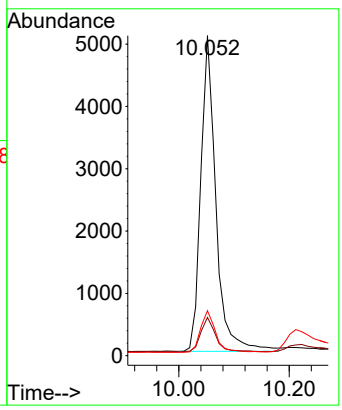


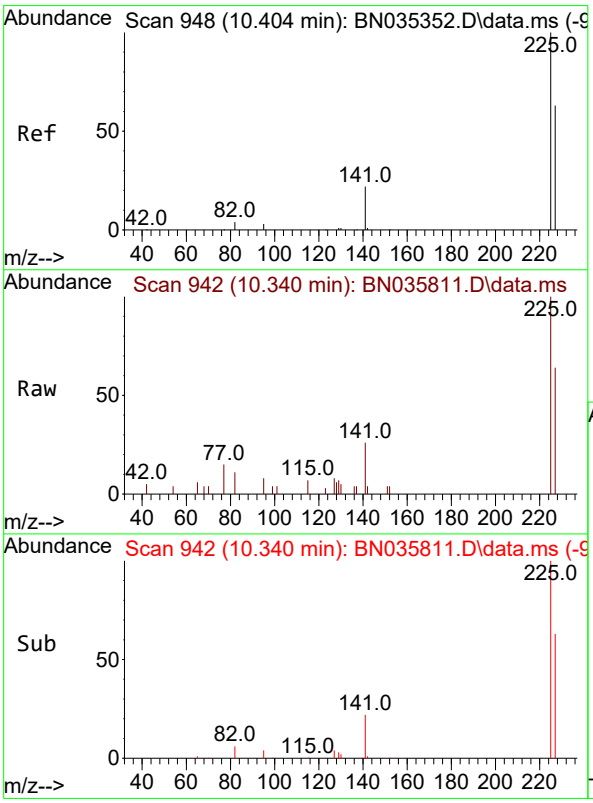

#9
Naphthalene
Concen: 0.387 ng
RT: 10.052 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:128 Resp: 9671

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 11.9 | 9.8 | 14.6 |
| 127 | 14.1 | 11.4 | 17.2 |

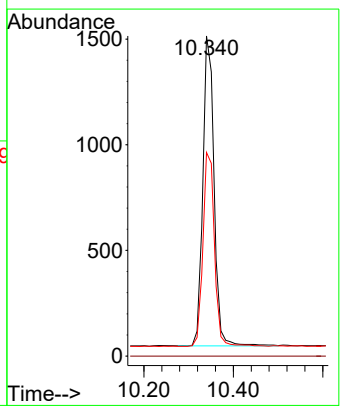


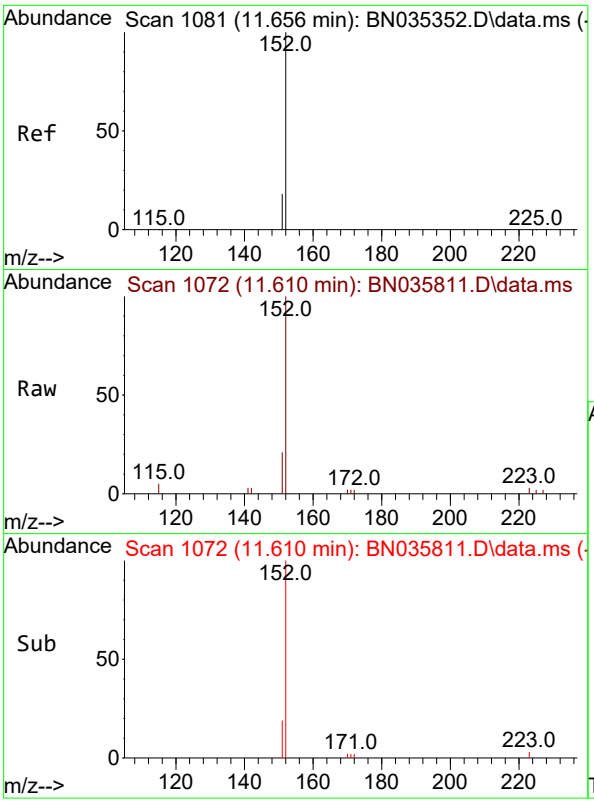




#10
Hexachlorobutadiene
Concen: 0.442 ng
RT: 10.340 min Scan# 942
Delta R.T. -0.022 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:225 Resp: 2548

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 0.0 | 0.0 | 0.0 |
| 227 | 64.3 | 51.3 | 76.9 |



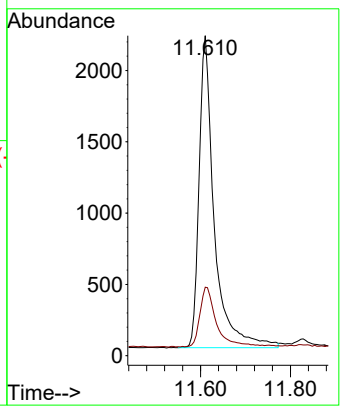


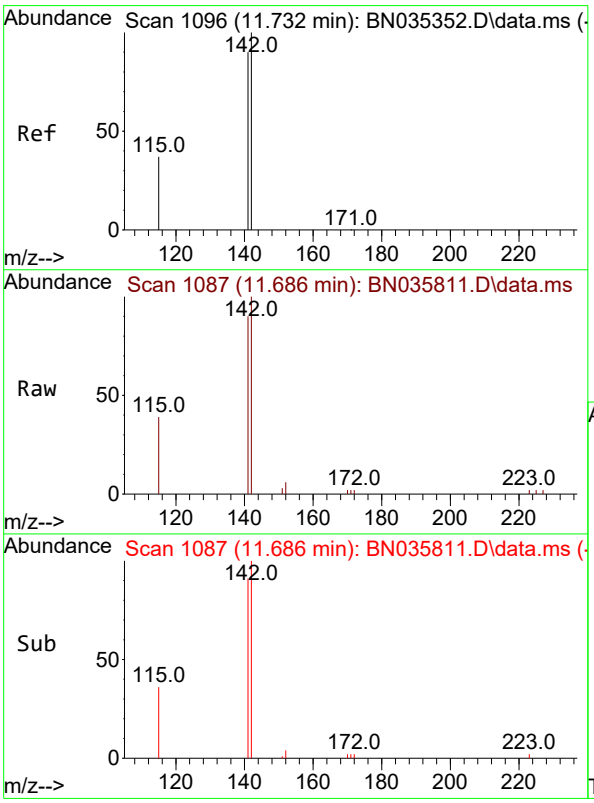

#11
2-Methylnaphthalene-d10
Concen: 0.346 ng
RT: 11.610 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:152 Resp: 5128

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.9 | 16.6 | 25.0 |

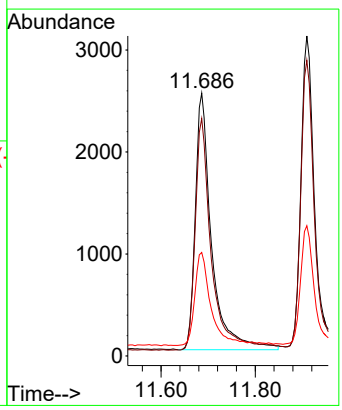


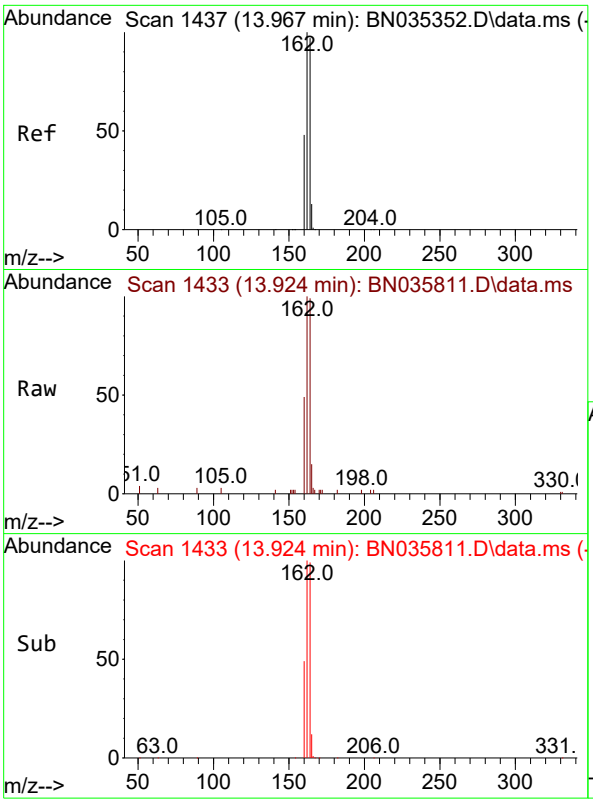




#12
2-Methylnaphthalene
Concen: 0.338 ng
RT: 11.686 min Scan# 1087
Delta R.T. -0.010 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:142 Resp: 6060

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 90.3 | 72.2 | 108.4 |
| 115 | 39.4 | 31.4 | 47.0 |



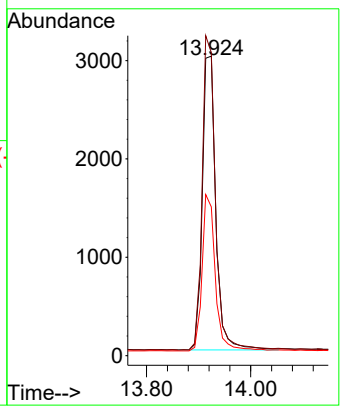


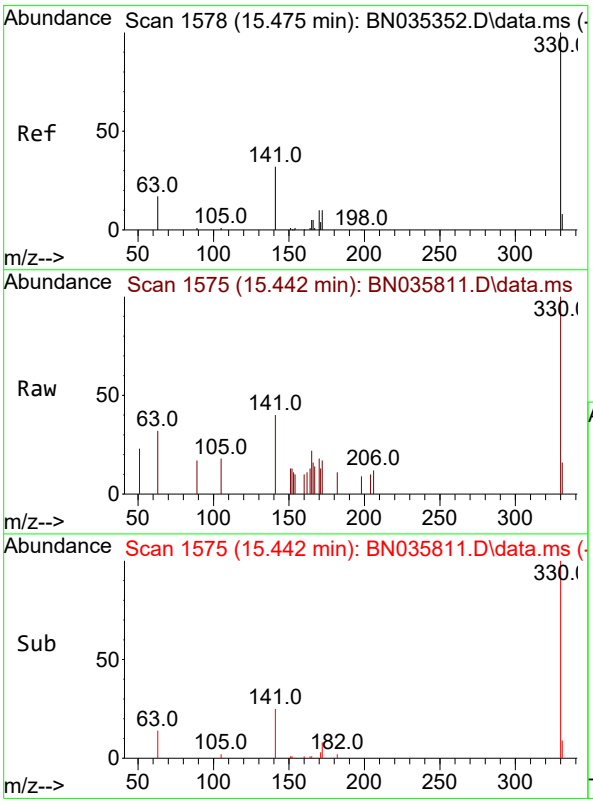

#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.924 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:164 Resp: 5387

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 101.1 | 82.2 | 123.2 |
| 160 | 49.7 | 40.1 | 60.1 |

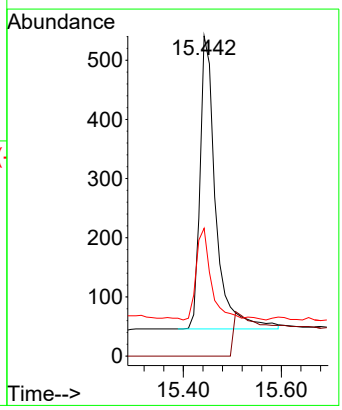


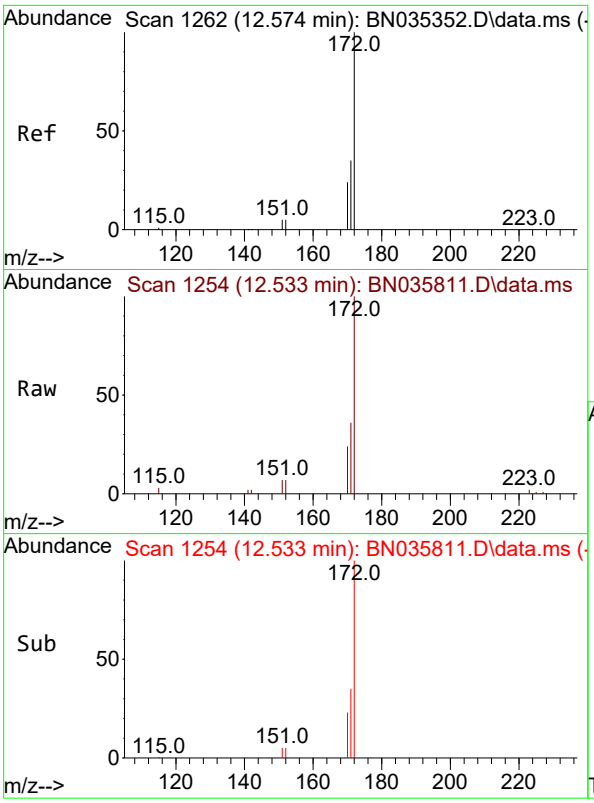




#14
2,4,6-Tribromophenol
Concen: 0.302 ng
RT: 15.442 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:330 Resp: 1155

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 0.0 | 0.0 | 0.0 |
| 141 | 30.2 | 26.6 | 40.0 |



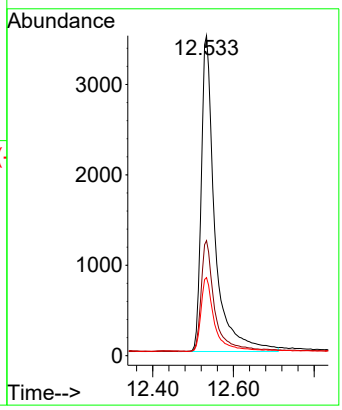


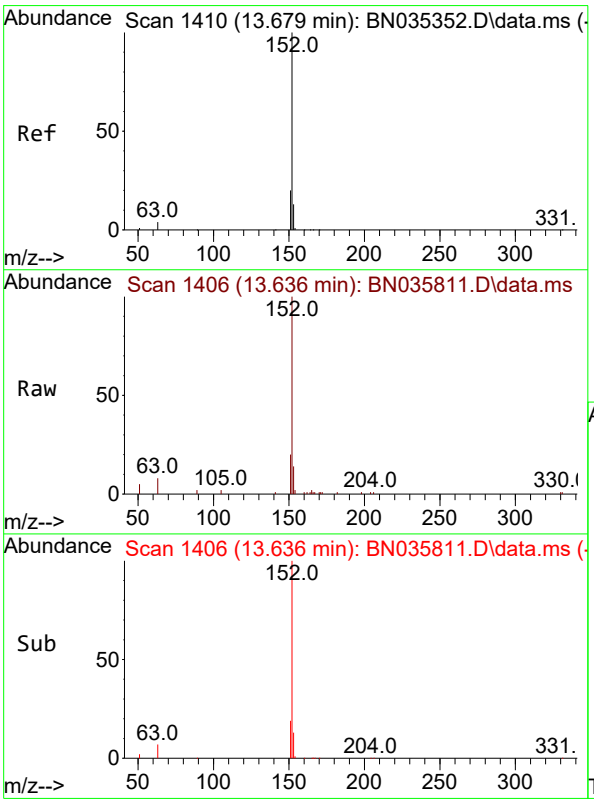

#15
2-Fluorobiphenyl
Concen: 0.403 ng
RT: 12.533 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:172 Resp: 8203

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 36.0 | 29.0 | 43.4 |
| 170 | 24.4 | 19.8 | 29.8 |

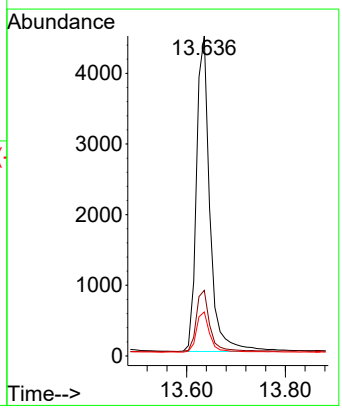


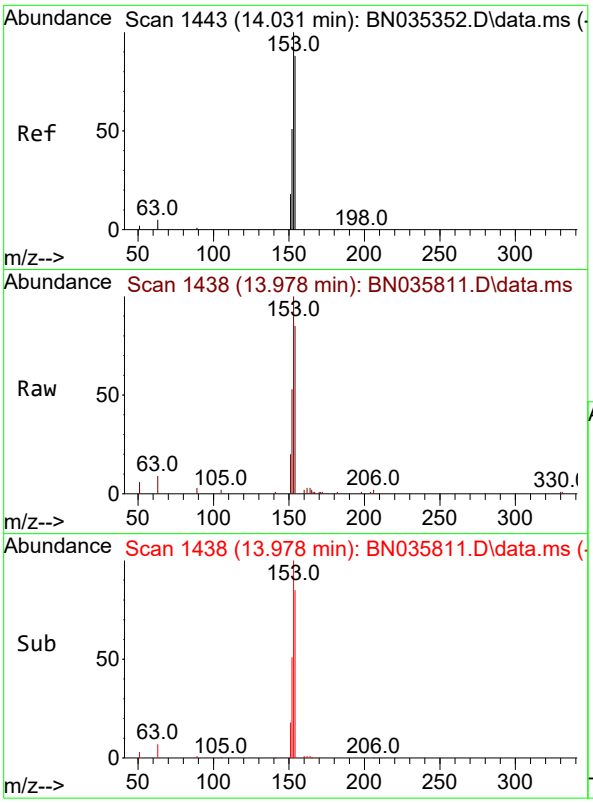




#16
Acenaphthylene
Concen: 0.372 ng
RT: 13.636 min Scan# 1406
Delta R.T. -0.011 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:152 Resp: 8415

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.0 | 16.2 | 24.2 |
| 153 | 13.0 | 10.4 | 15.6 |



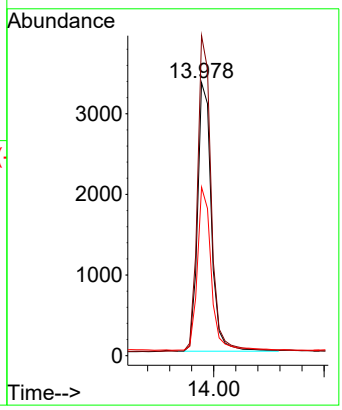


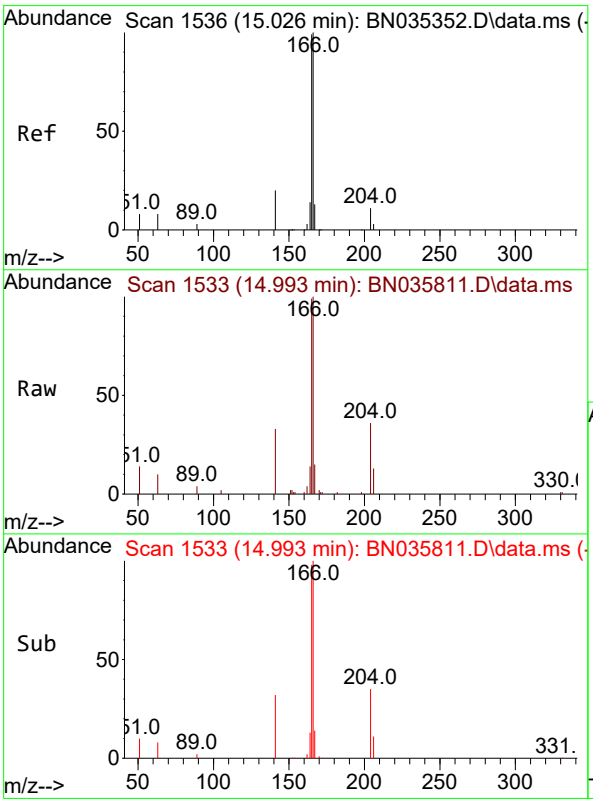

#17
Acenaphthene
Concen: 0.385 ng
RT: 13.978 min Scan# 14
Delta R.T. -0.022 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:154 Resp: 5782

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 117.6 | 92.6 | 139.0 |
| 152 | 60.7 | 49.0 | 73.6 |

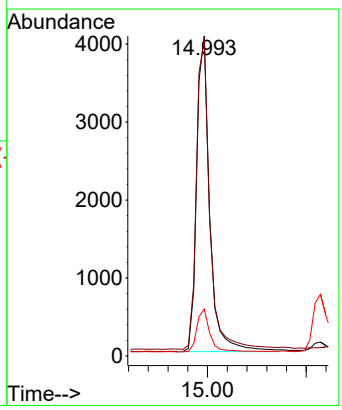


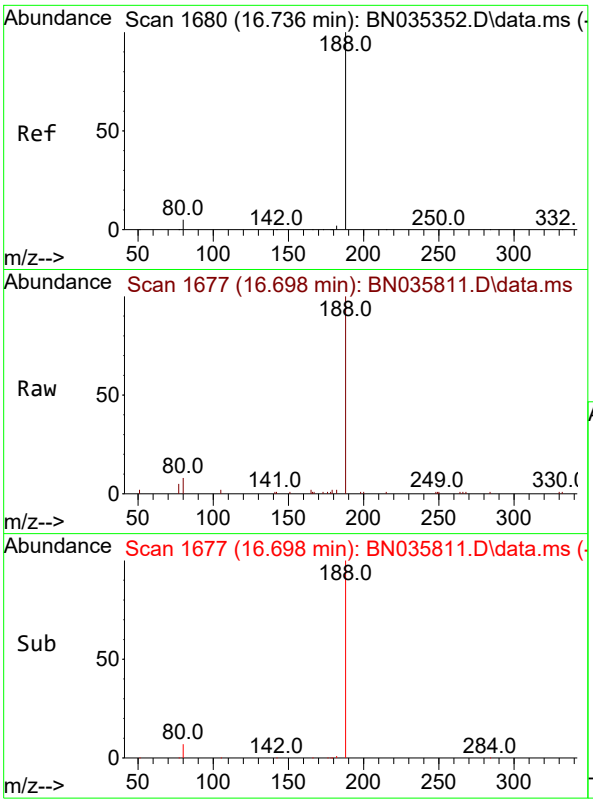




#18
Fluorene
Concen: 0.347 ng
RT: 14.993 min Scan# 1533
Delta R.T. -0.011 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:166 Resp: 7456

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 99.4 | 79.7 | 119.5 |
| 167 | 13.7 | 10.8 | 16.2 |



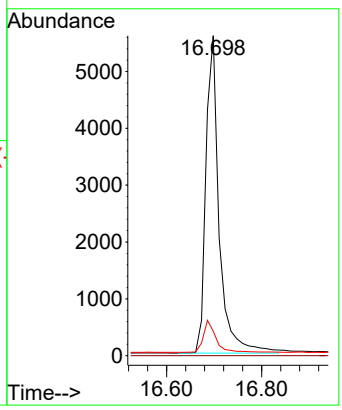


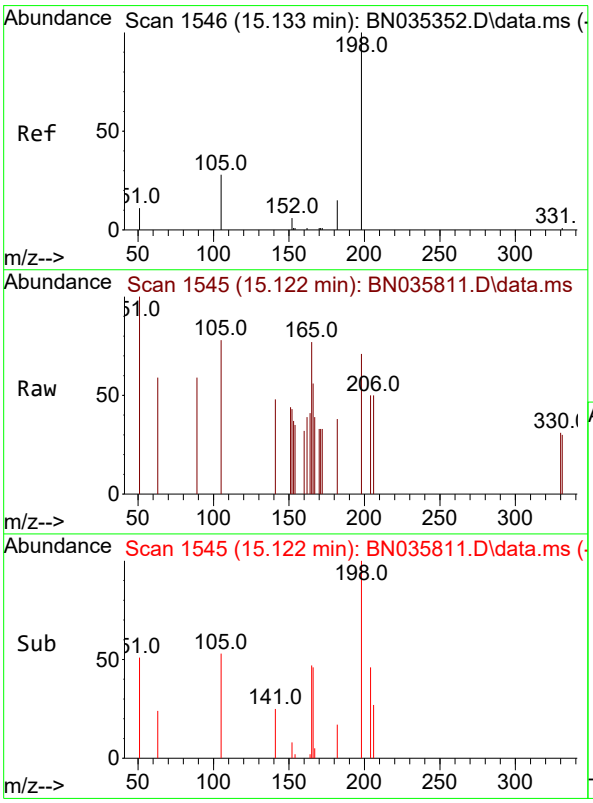

#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:188 Resp: 10855

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 7.7 | 4.6 | 6.8# |

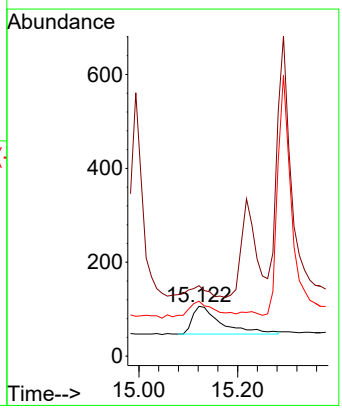


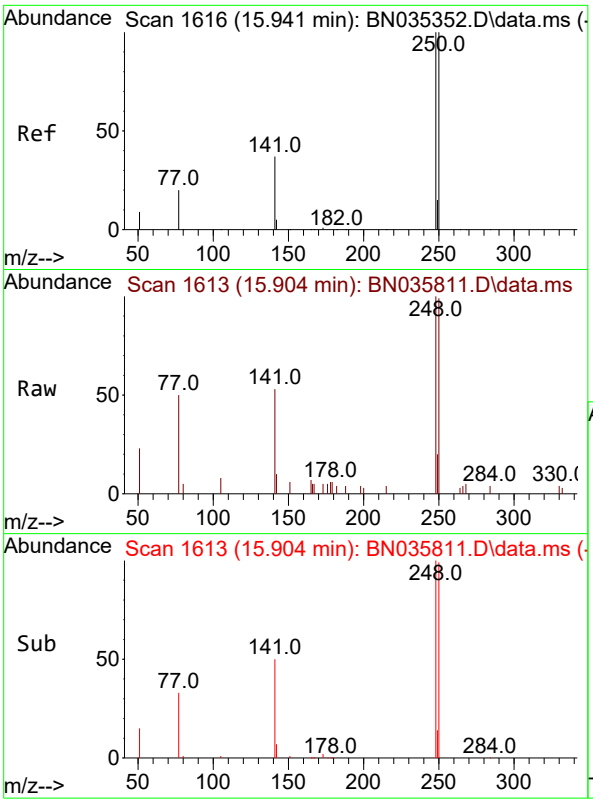




#20
4,6-Dinitro-2-methylphenol
Concen: 0.229 ng
RT: 15.122 min Scan# 1545
Delta R.T. -0.000 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:198 Resp: 244

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 198 | 100 | | |
| 51 | 141.5 | 46.5 | 69.7# |
| 105 | 110.4 | 45.3 | 67.9# |



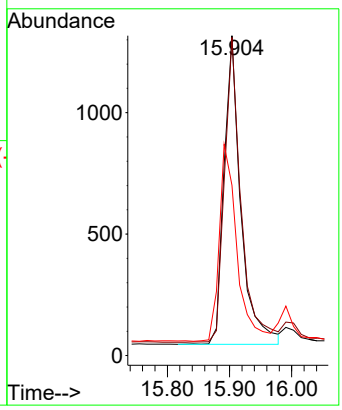


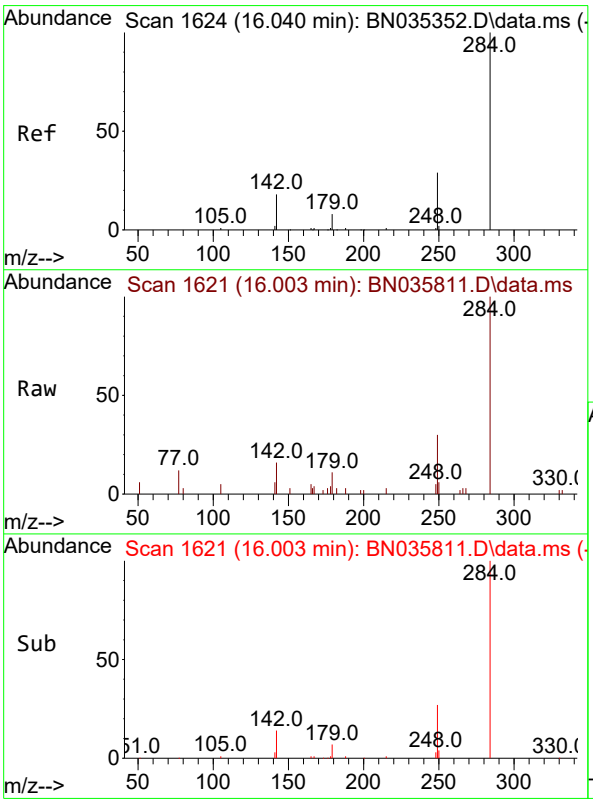

#21
4-Bromophenyl-phenylether
Concen: 0.375 ng
RT: 15.904 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:248 Resp: 2379

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 99.5 | 80.6 | 120.8 |
| 141 | 53.2 | 31.5 | 47.3# |

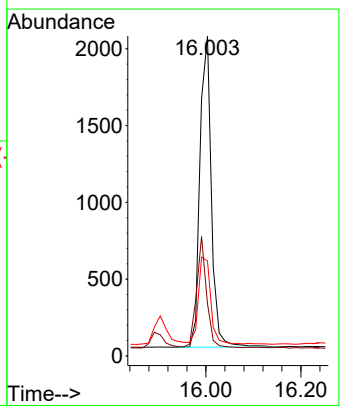


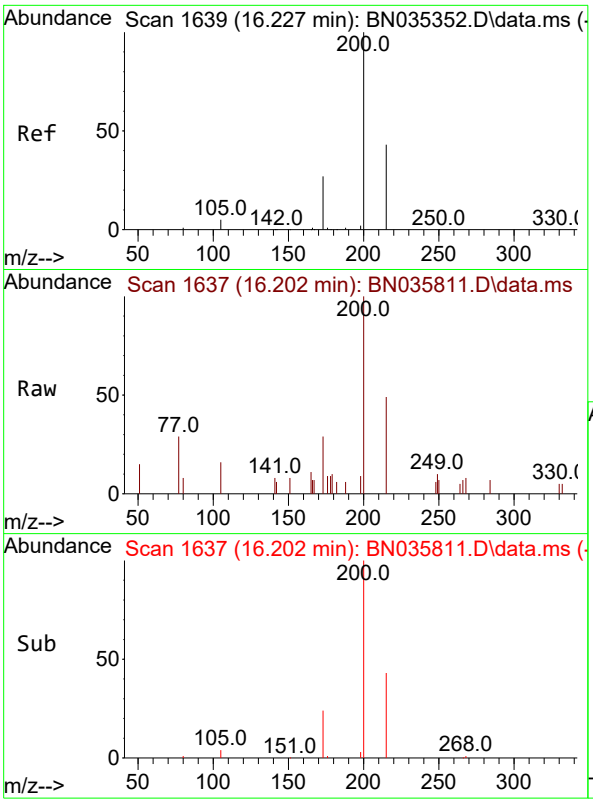




#22
Hexachlorobenzene
Concen: 0.455 ng
RT: 16.003 min Scan# 1621
Delta R.T. -0.013 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:284 Resp: 3393

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 31.1 | 26.7 | 40.1 |
| 249 | 30.0 | 24.6 | 36.8 |



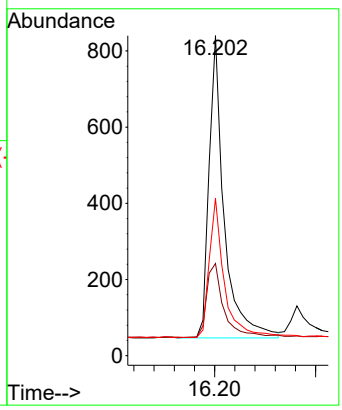


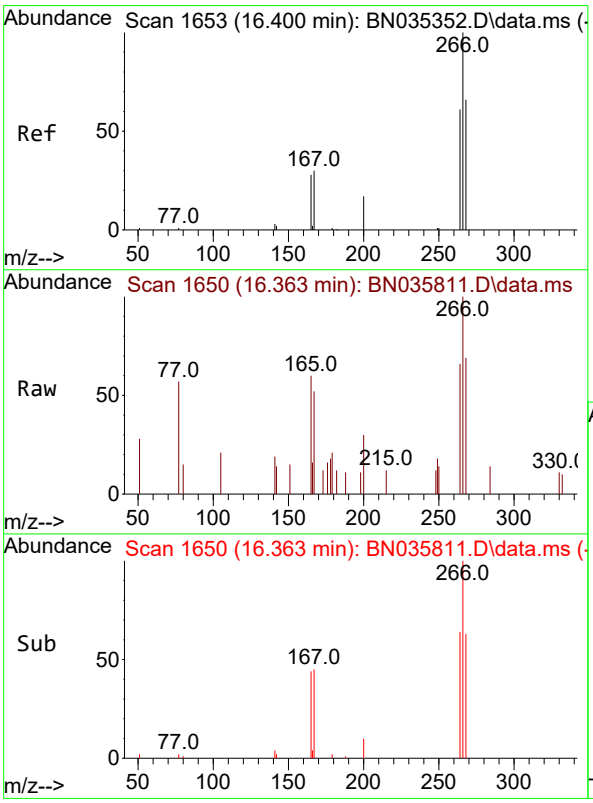

#23
Atrazine
Concen: 0.363 ng
RT: 16.202 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:200 Resp: 1640

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 173 | 28.8 | 24.1 | 36.1 |
| 215 | 49.2 | 36.9 | 55.3 |

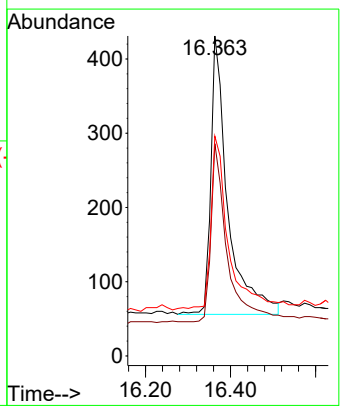


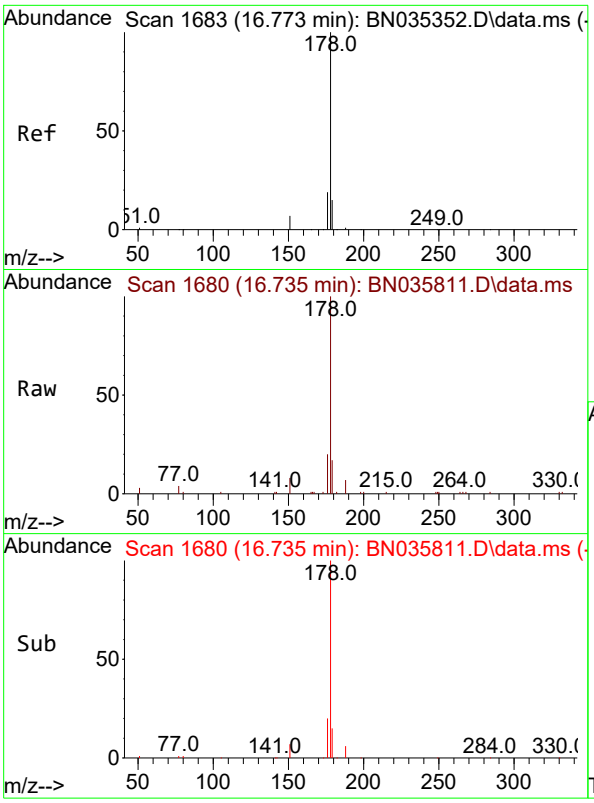




#24
Pentachlorophenol
Concen: 0.321 ng
RT: 16.363 min Scan# 1650
Delta R.T. -0.013 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:266 Resp: 1040

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 264 | 61.4 | 42.3 | 63.5 |
| 268 | 64.5 | 43.3 | 64.9 |



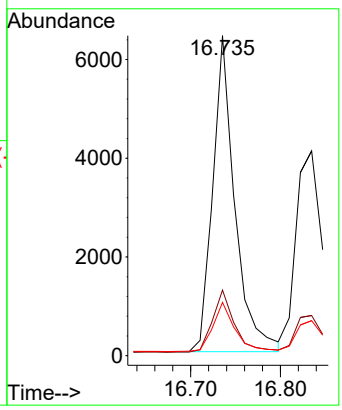


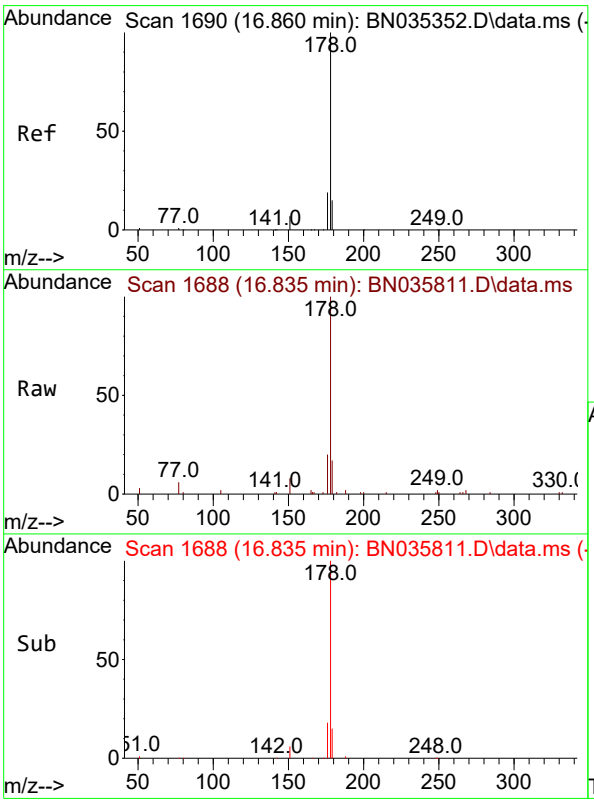

#25
Phenanthrene
Concen: 0.367 ng
RT: 16.735 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:178 Resp: 10950

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.6 | 15.4 | 23.2 |
| 179 | 15.5 | 12.3 | 18.5 |

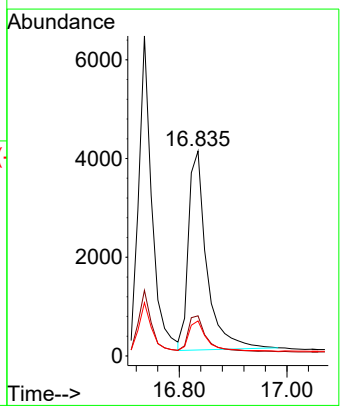


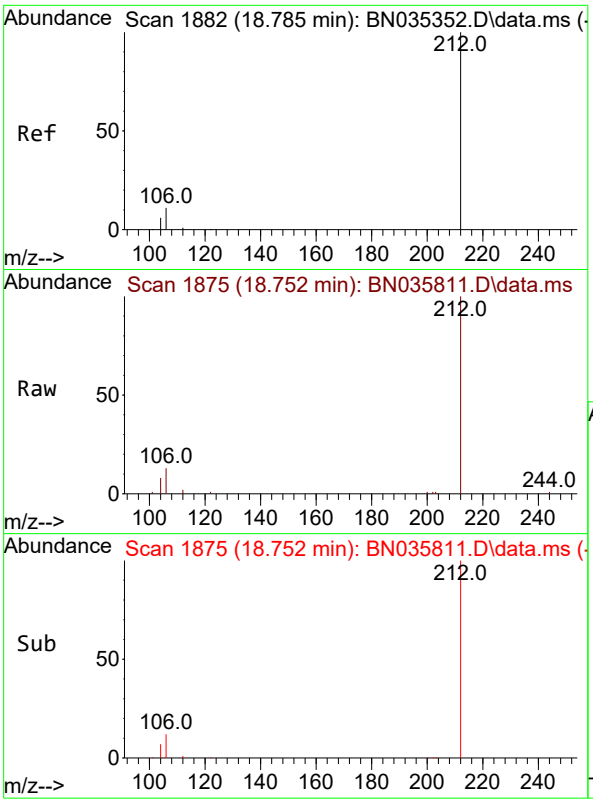




#26
Anthracene
Concen: 0.352 ng
RT: 16.835 min Scan# 1688
Delta R.T. -0.000 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:178 Resp: 9488

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.7 | 15.0 | 22.6 |
| 179 | 15.7 | 12.6 | 18.8 |



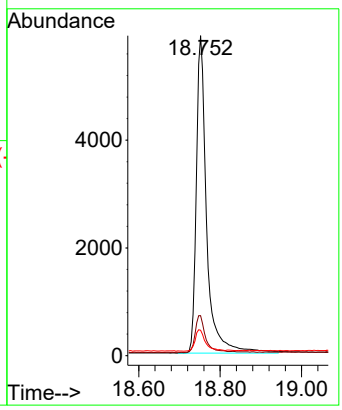


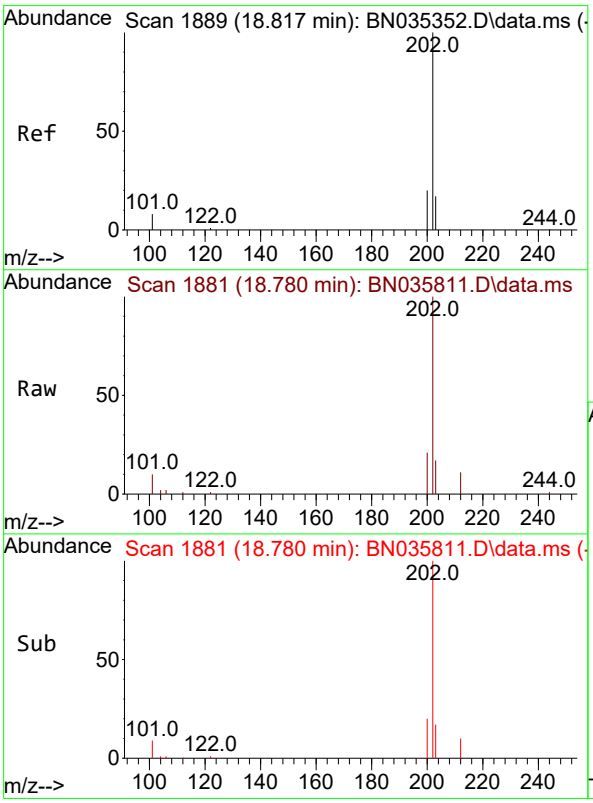

#27
Fluoranthene-d10
Concen: 0.336 ng
RT: 18.752 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:212 Resp: 10340

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 11.6 | 9.2 | 13.8 |
| 104 | 6.8 | 5.3 | 7.9 |

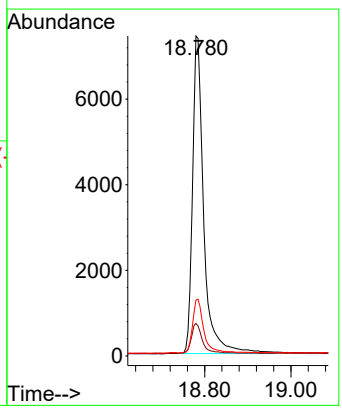


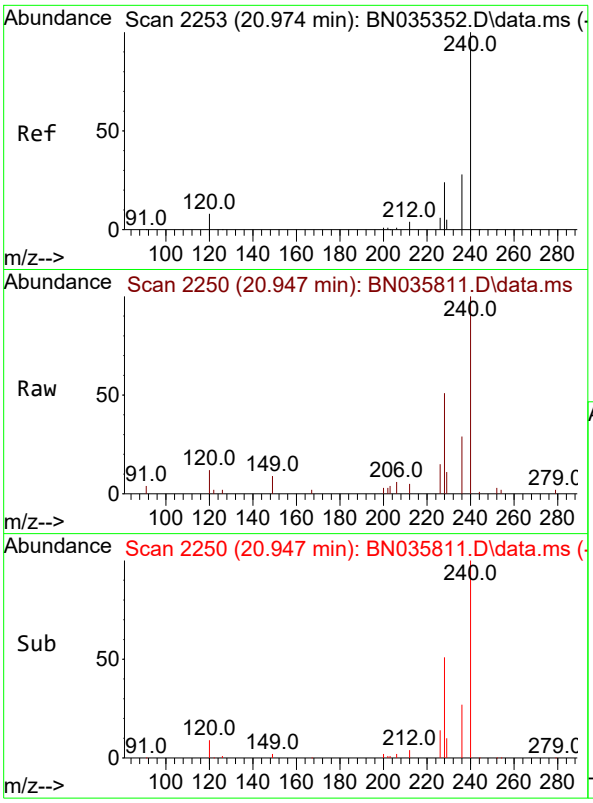




#28
Fluoranthene
Concen: 0.334 ng
RT: 18.780 min Scan# 1881
Delta R.T. -0.010 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:202 Resp: 13421

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 9.3 | 7.4 | 11.0 |
| 203 | 16.5 | 13.7 | 20.5 |



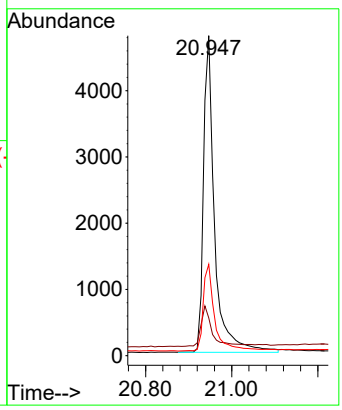


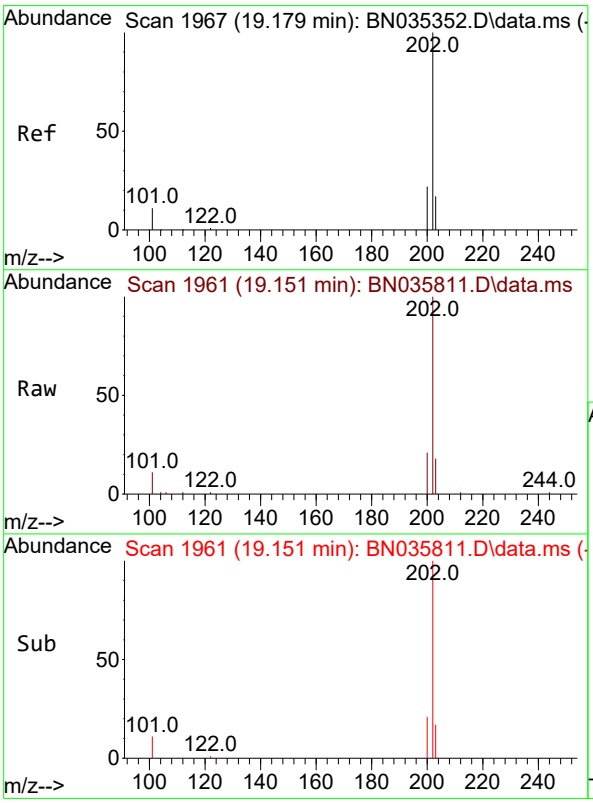

#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:240 Resp: 8569

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 11.8 | 7.9 | 11.9 |
| 236 | 28.6 | 22.9 | 34.3 |

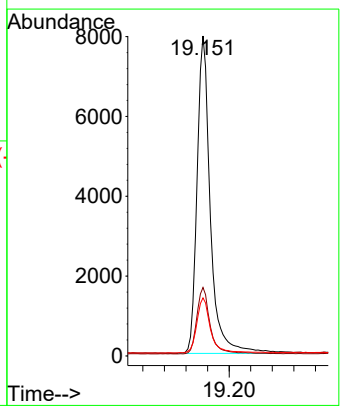


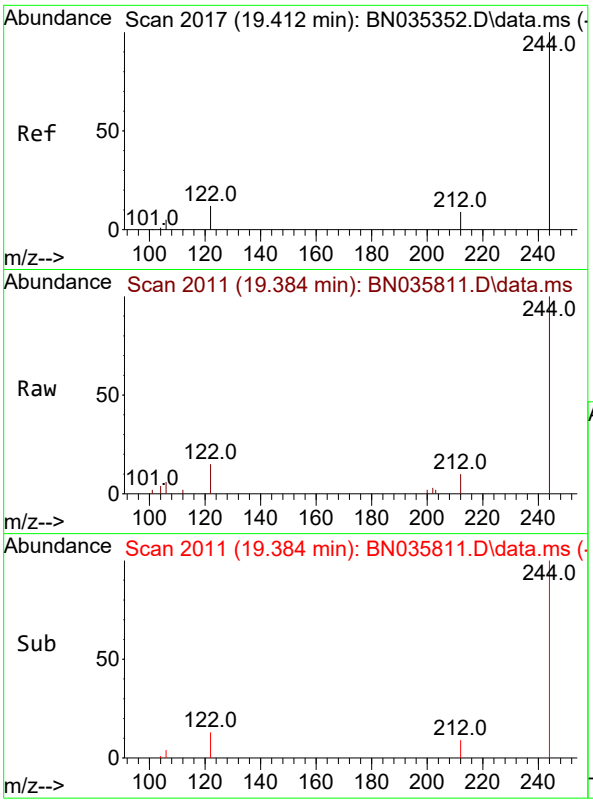




#30
Pyrene
Concen: 0.429 ng
RT: 19.151 min Scan# 1961
Delta R.T. -0.010 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:202 Resp: 13577

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.1 | 17.0 | 25.4 |
| 203 | 18.0 | 14.3 | 21.5 |



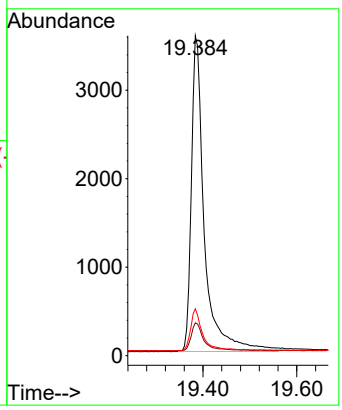


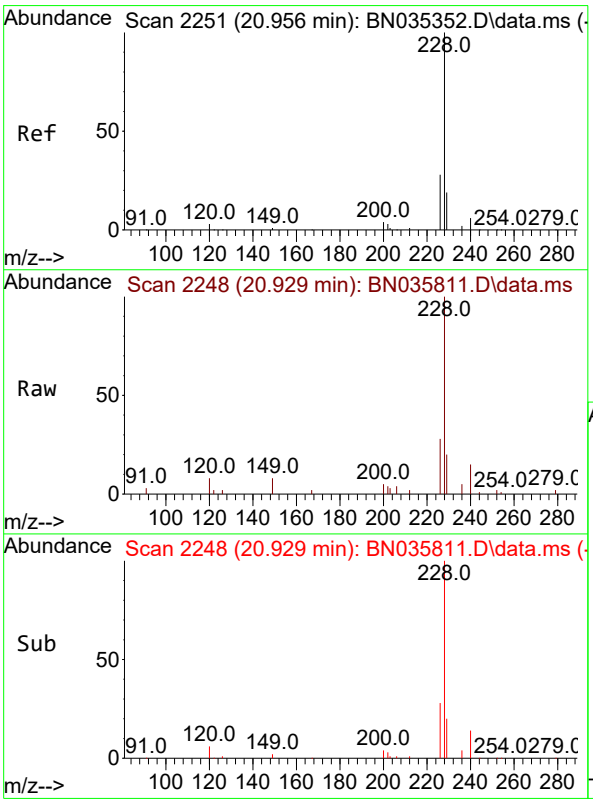

#31
Terphenyl-d14
Concen: 0.407 ng
RT: 19.384 min Scan# 2
Delta R.T. -0.005 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:244 Resp: 6888

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 10.3 | 8.1 | 12.1 |
| 122 | 14.7 | 10.3 | 15.5 |

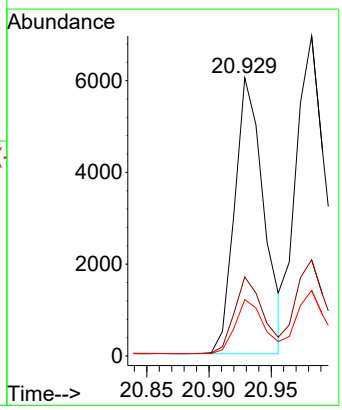


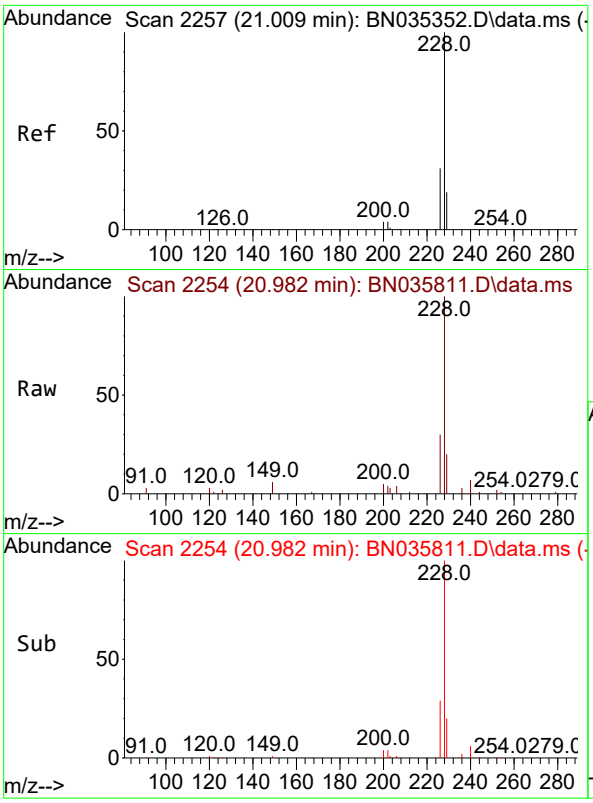




#32
Benzo(a)anthracene
Concen: 0.327 ng
RT: 20.929 min Scan# 2248
Delta R.T. -0.009 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:228 Resp: 9796

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 28.4 | 22.5 | 33.7 |
| 229 | 20.3 | 15.8 | 23.8 |



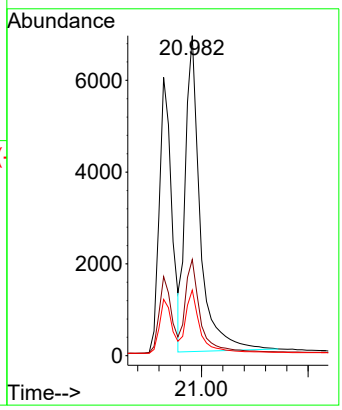


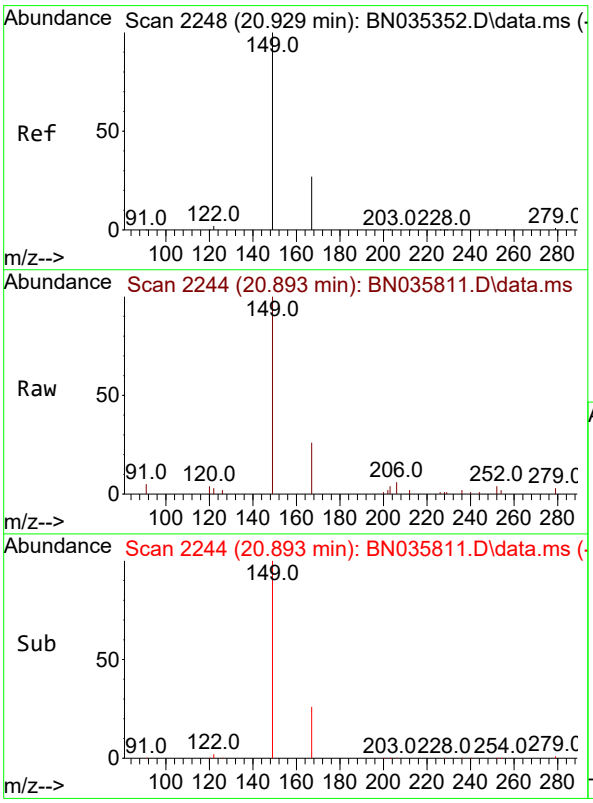

#33
Chrysene
Concen: 0.428 ng
RT: 20.982 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:228 Resp: 13234

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 30.0 | 24.6 | 37.0 |
| 229 | 20.5 | 15.9 | 23.9 |

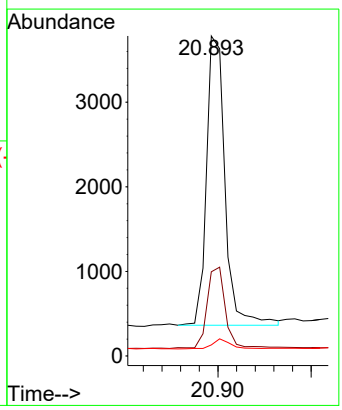


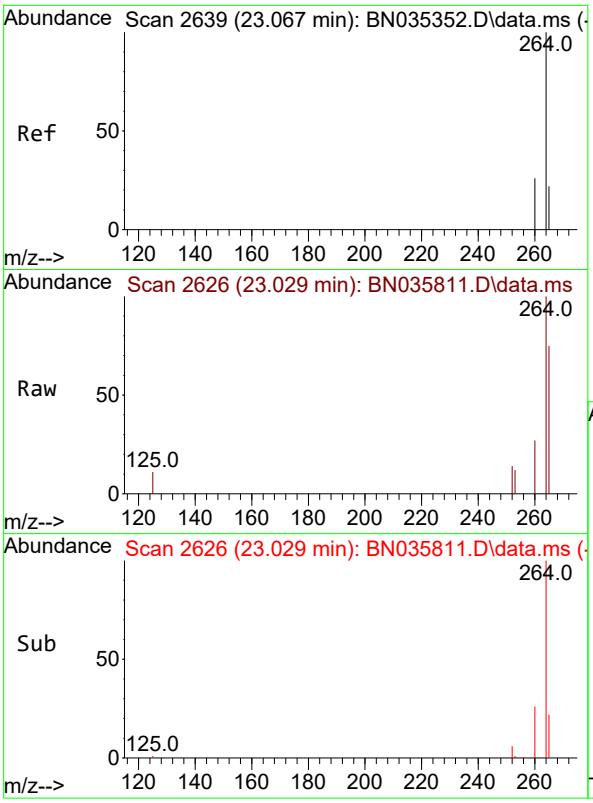




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.399 ng
RT: 20.893 min Scan# 2244
Delta R.T. -0.018 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:149 Resp: 4719

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 27.9 | 22.2 | 33.4 |
| 279 | 3.4 | 2.7 | 4.1 |



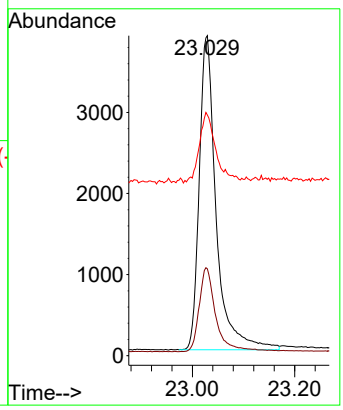


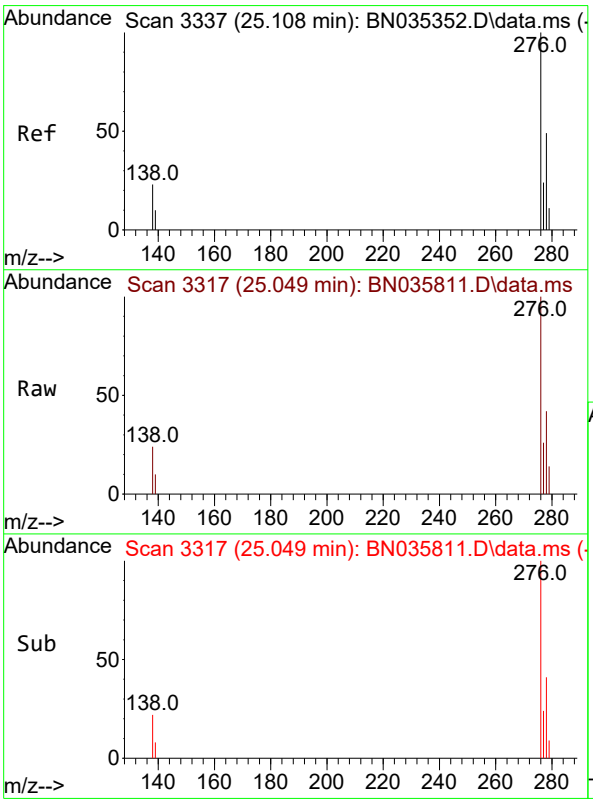

#35
Perylene-d12
Concen: 0.400 ng
RT: 23.029 min Scan# 2
Delta R.T. -0.012 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:264 Resp: 8879

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 27.2 | 21.4 | 32.2 |
| 265 | 75.2 | 40.2 | 60.4# |

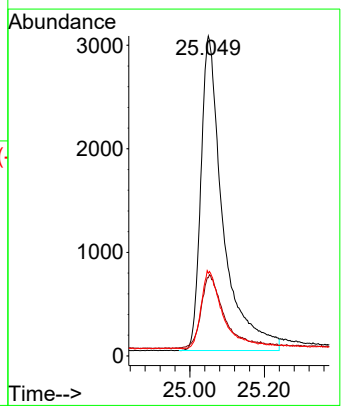


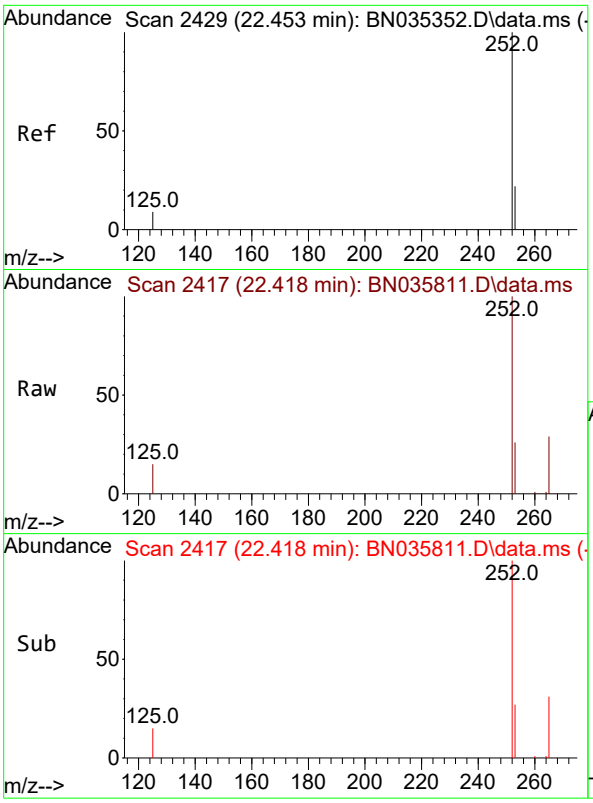




#36
Indeno(1,2,3-cd)pyrene
Concen: 0.360 ng
RT: 25.049 min Scan# 3317
Delta R.T. -0.018 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:276 Resp: 12494

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 23.5 | 19.4 | 29.0 |
| 277 | 24.1 | 19.8 | 29.6 |



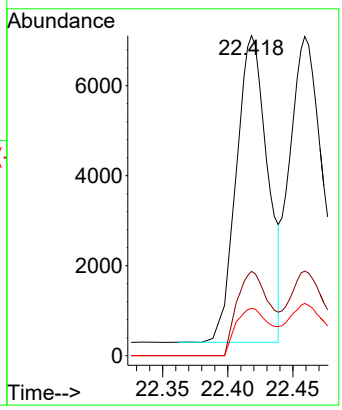


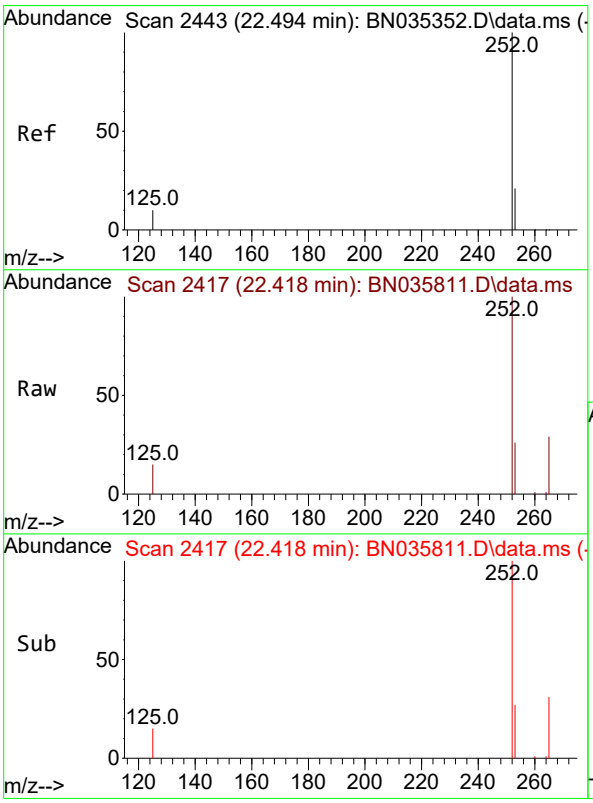

#37
Benzo(b)fluoranthene
Concen: 0.522 ng
RT: 22.418 min Scan# 24
Delta R.T. -0.012 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:252 Resp: 16964

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 26.3 | 19.6 | 29.4 |
| 125 | 14.8 | 9.6 | 14.4# |

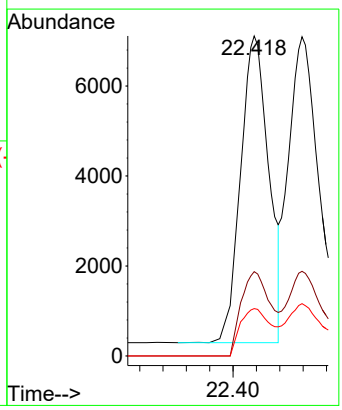


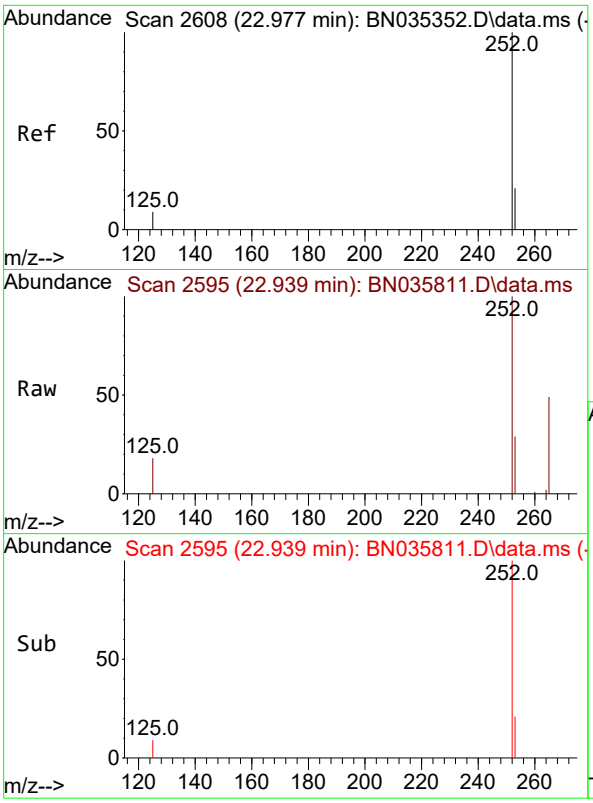




#38
Benzo(k)fluoranthene
Concen: 0.558 ng
RT: 22.418 min Scan# 2417
Delta R.T. -0.053 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:252 Resp: 17845

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 26.3 | 19.5 | 29.3 |
| 125 | 14.8 | 10.2 | 15.4 |



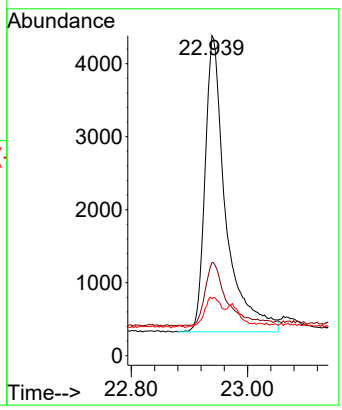


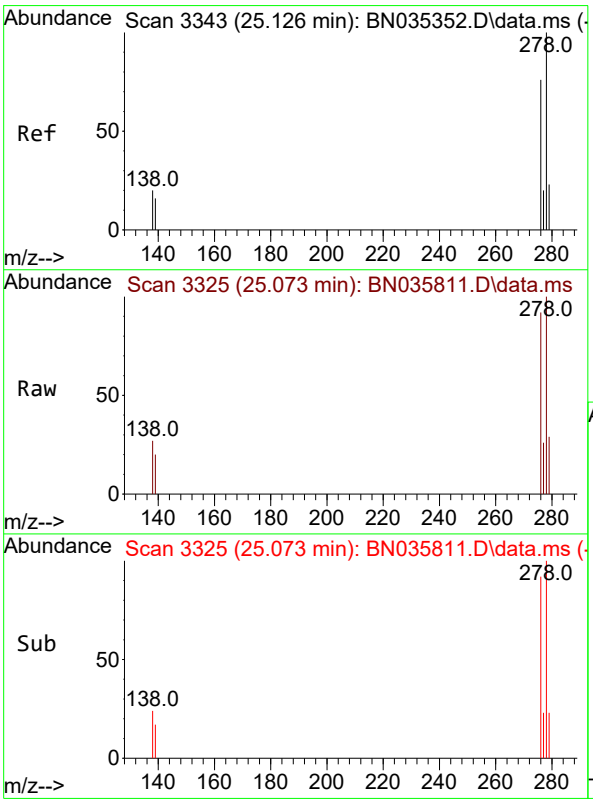

#39
Benzo(a)pyrene
Concen: 0.374 ng
RT: 22.939 min Scan# 2
Delta R.T. -0.012 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:252 Resp: 10000

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 29.1 | 20.2 | 30.4 |
| 125 | 17.8 | 10.9 | 16.3# |

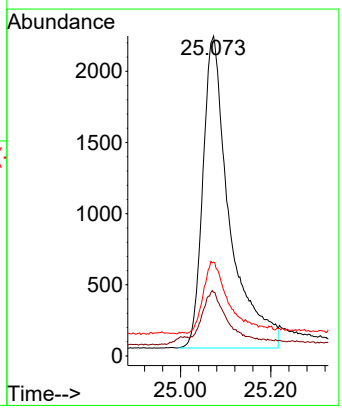


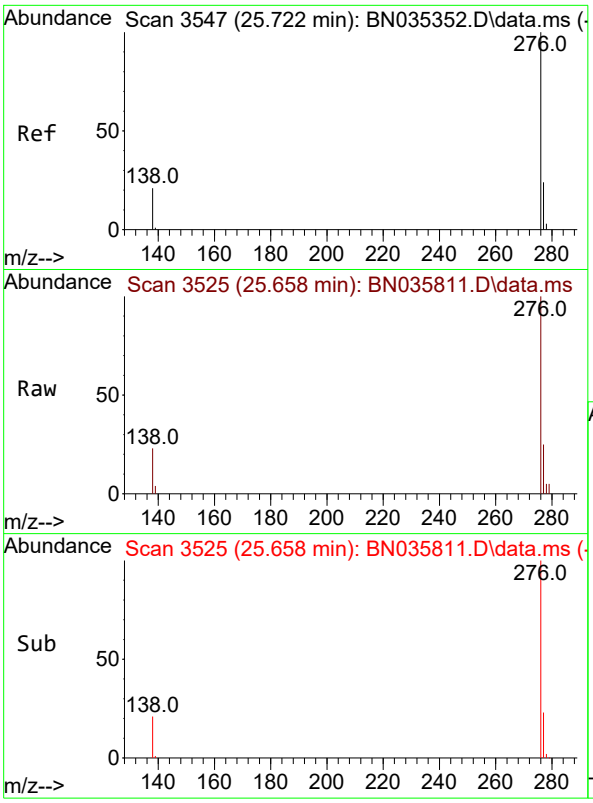




#40
Dibenzo(a,h)anthracene
Concen: 0.327 ng
RT: 25.073 min Scan# 3325
Delta R.T. -0.009 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:278 Resp: 8960

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 19.9 | 14.2 | 21.4 |
| 279 | 29.3 | 20.5 | 30.7 |



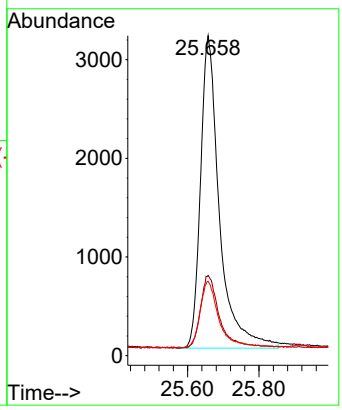



#41
Benzo(g,h,i)perylene
Concen: 0.405 ng
RT: 25.658 min Scan# 3
Delta R.T. -0.021 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:276 Resp: 11606

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 25.1 | 19.9 | 29.9 |
| 138 | 23.3 | 17.8 | 26.8 |



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035812.D
Acq On : 24 Dec 2024 09:35
Operator : RC/JU
Sample : PB165828BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
PB165828BL

Quant Time: Dec 24 23:16:34 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.264 | 152 | 3197 | 0.400 | ng | 0.00 |
| 7) Naphthalene-d8 | 10.020 | 136 | 6952 | 0.400 | ng | 0.00 |
| 13) Acenaphthene-d10 | 13.935 | 164 | 4346 | 0.400 | ng | 0.00 |
| 19) Phenanthrene-d10 | 16.711 | 188 | 8099 | 0.400 | ng | # 0.01 |
| 29) Chrysene-d12 | 20.956 | 240 | 6756 | 0.400 | ng | # 0.00 |
| 35) Perylene-d12 | 23.038 | 264 | 6747 | 0.400 | ng | # 0.00 |
| System Monitoring Compounds | | | | | | |
| 4) 2-Fluorophenol | 4.932 | 112 | 2496 | 0.312 | ng | 0.00 |
| 5) Phenol-d6 | 6.484 | 99 | 2096 | 0.218 | ng | 0.00 |
| 8) Nitrobenzene-d5 | 8.418 | 82 | 1815 | 0.427 | ng | 0.01 |
| 11) 2-Methylnaphthalene-d10 | 11.641 | 152 | 3741 | 0.344 | ng | 0.02 |
| 14) 2,4,6-Tribromophenol | 15.475 | 330 | 490 | 0.159 | ng | 0.02 |
| 15) 2-Fluorobiphenyl | 12.564 | 172 | 5652 | 0.344 | ng | 0.02 |
| 27) Fluoranthene-d10 | 18.761 | 212 | 9188 | 0.400 | ng | 0.00 |
| 31) Terphenyl-d14 | 19.393 | 244 | 6413 | 0.481 | ng | 0.00 |
| Target Compounds | | | | | | Qvalue |

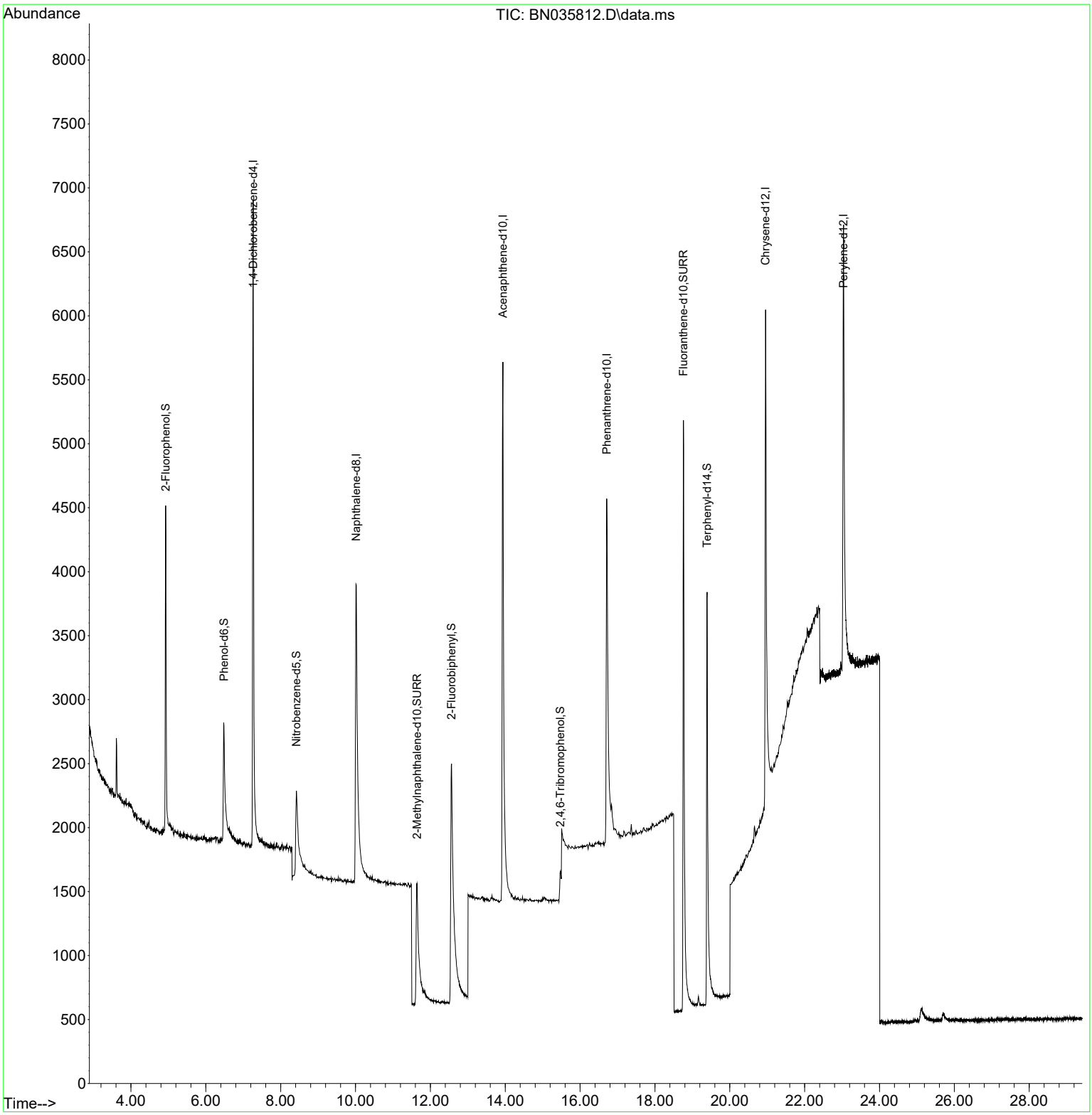
(#) = qualifier out of range (m) = manual integration (+) = signals summed

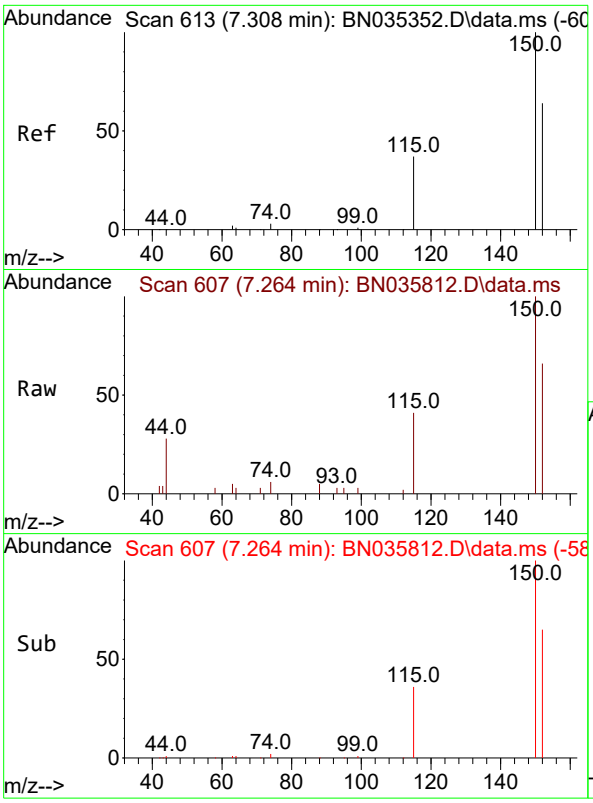
Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035812.D
Acq On : 24 Dec 2024 09:35
Operator : RC/JU
Sample : PB165828BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
PB165828BL

Quant Time: Dec 24 23:16:34 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



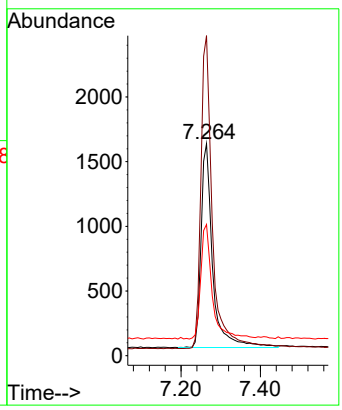


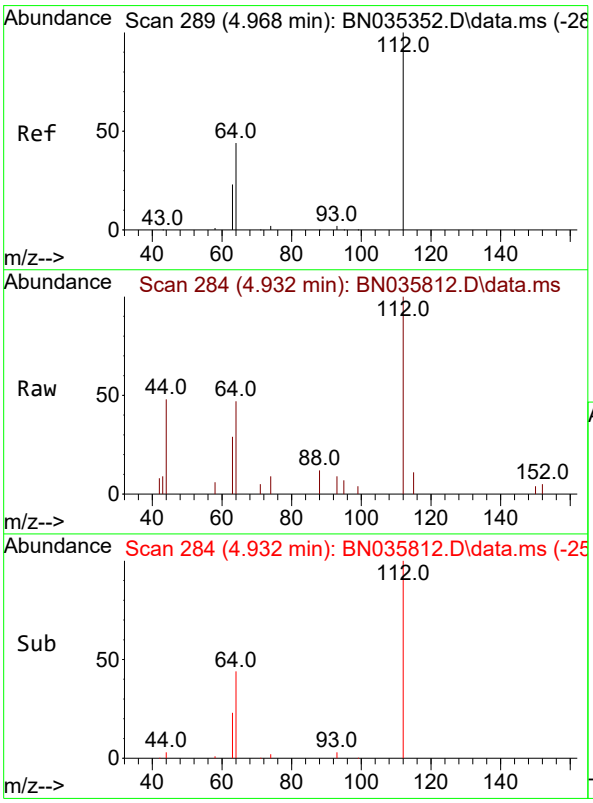

#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.264 min Scan# 6
Delta R.T. -0.008 min
Lab File: BN035812.D
Acq: 24 Dec 2024 09:35

**Instrument :**
BNA_N
**ClientSampleId :**
PB165828BL

Tgt Ion:152 Resp: 3197

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 150.9 | 124.0 | 186.0 |
| 115 | 61.9 | 49.6 | 74.4 |

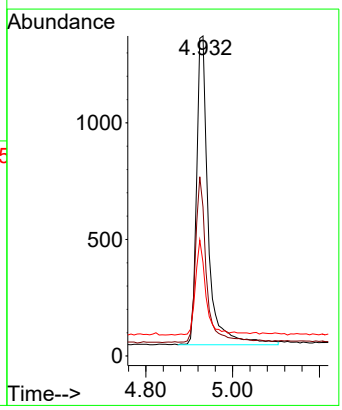


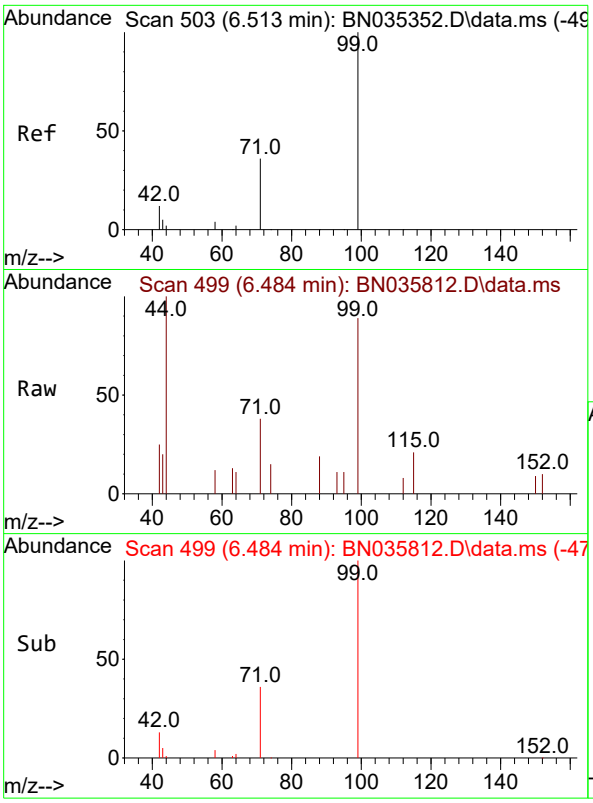




#4
2-Fluorophenol
Concen: 0.312 ng
RT: 4.932 min Scan# 284
Delta R.T. -0.007 min
Lab File: BN035812.D
Acq: 24 Dec 2024 09:35

Tgt Ion:112 Resp: 2496

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 49.3 | 39.8 | 59.8 |
| 63 | 27.1 | 21.0 | 31.6 |



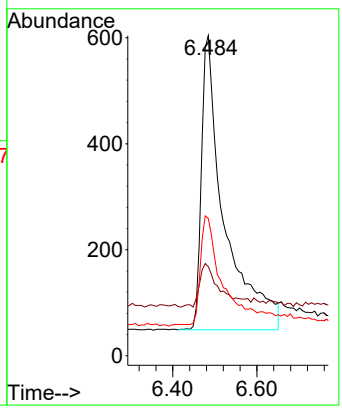


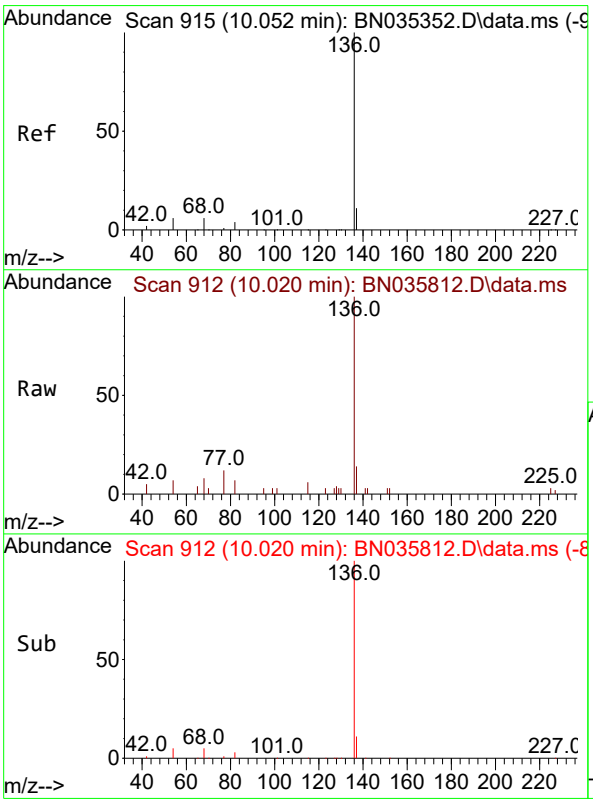

#5
Phenol-d6
Concen: 0.218 ng
RT: 6.484 min Scan# 4
Delta R.T. -0.007 min
Lab File: BN035812.D
Acq: 24 Dec 2024 09:35

**Instrument :**
BNA_N
**ClientSampleId :**
PB165828BL

Tgt Ion: 99 Resp: 2096

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 13.4 | 11.4 | 17.2 |
| 71 | 37.2 | 29.3 | 43.9 |

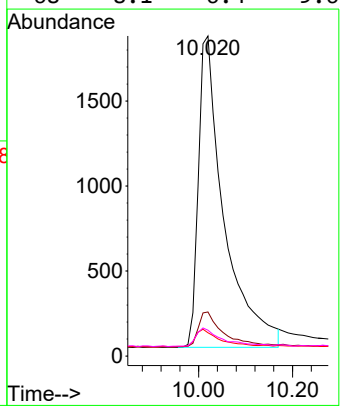


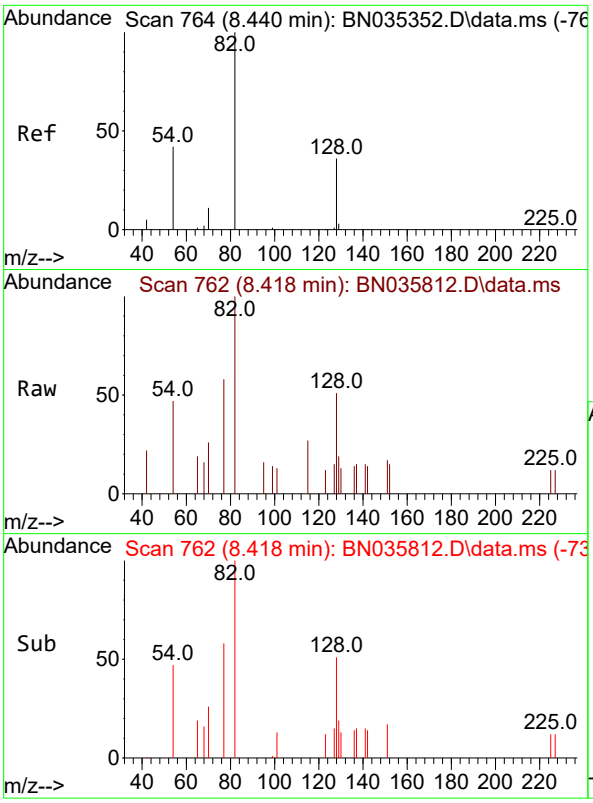




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.020 min Scan# 912
Delta R.T. -0.000 min
Lab File: BN035812.D
Acq: 24 Dec 2024 09:35

Tgt Ion:136 Resp: 6952

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 13.8 | 10.2 | 15.2 |
| 54 | 7.3 | 6.1 | 9.1 |
| 68 | 8.1 | 6.4 | 9.6 |



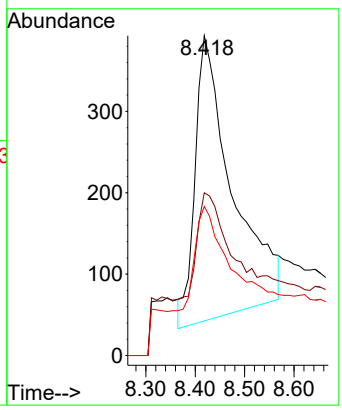


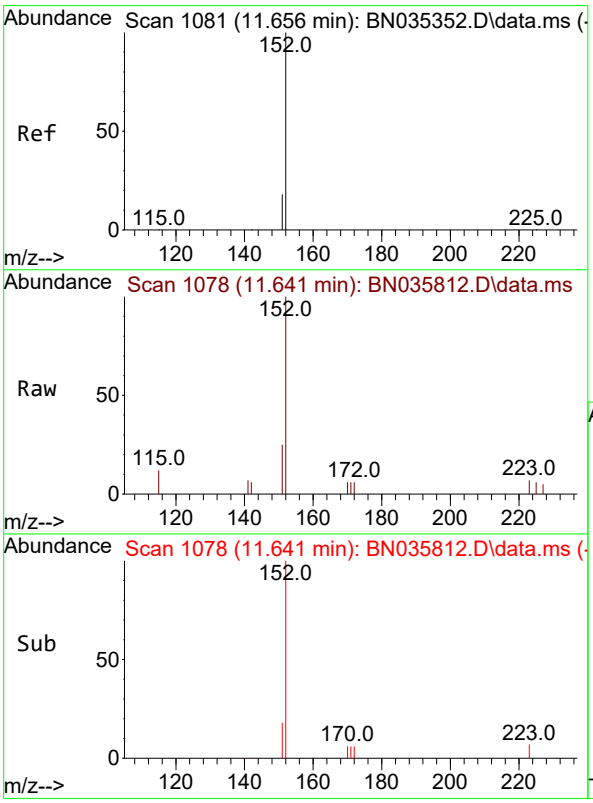

#8
Nitrobenzene-d5
Concen: 0.427 ng
RT: 8.418 min Scan# 7
Delta R.T. 0.010 min
Lab File: BN035812.D
Acq: 24 Dec 2024 09:35

**Instrument :**
BNA_N
**ClientSampleId :**
PB165828BL

Tgt Ion: 82 Resp: 1815

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 50.9 | 33.4 | 50.0# |
| 54 | 46.6 | 36.7 | 55.1 |

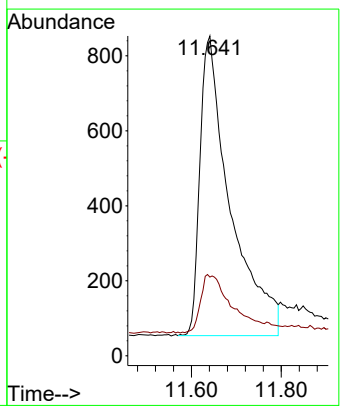


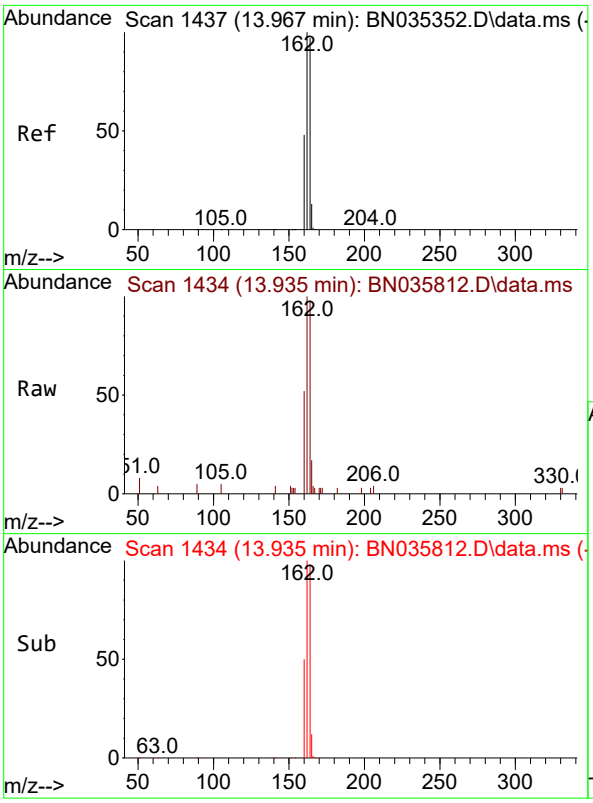




#11
2-Methylnaphthalene-d10
Concen: 0.344 ng
RT: 11.641 min Scan# 1078
Delta R.T. 0.020 min
Lab File: BN035812.D
Acq: 24 Dec 2024 09:35

Tgt Ion:152 Resp: 3741

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.1 | 16.6 | 25.0 |



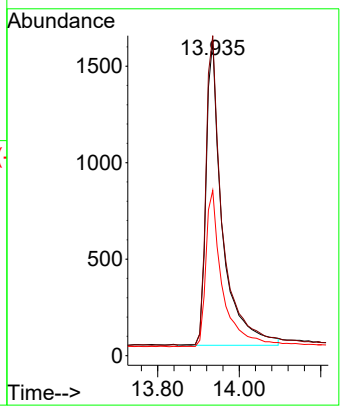


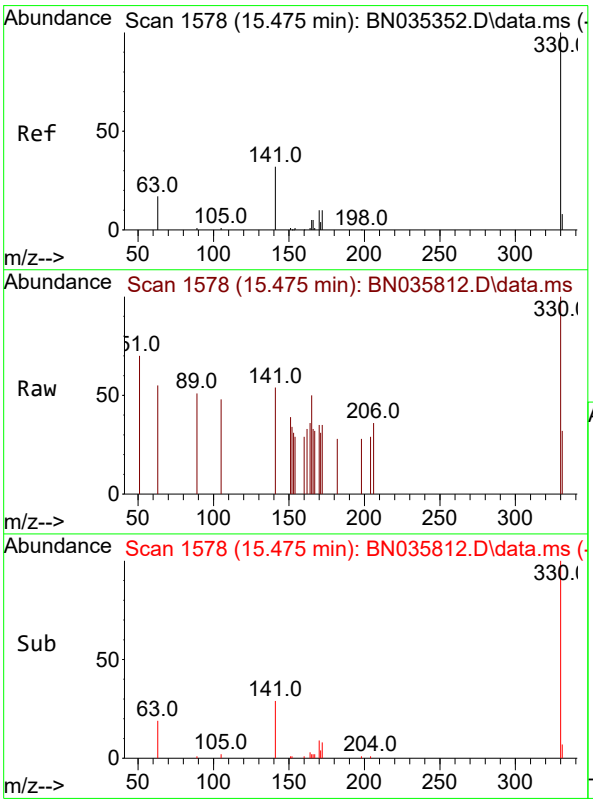

#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.935 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035812.D
Acq: 24 Dec 2024 09:35

**Instrument :**
BNA_N
**ClientSampleId :**
PB165828BL

Tgt Ion:164 Resp: 4346

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 101.6 | 82.2 | 123.2 |
| 160 | 52.5 | 40.1 | 60.1 |

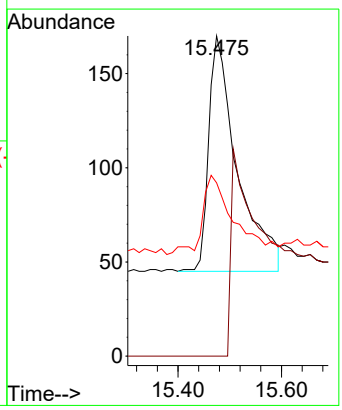


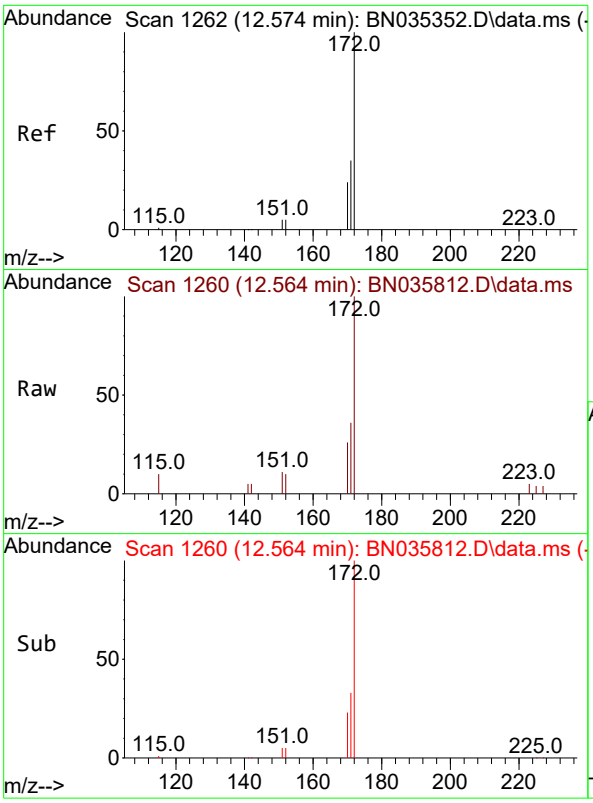




#14
2,4,6-Tribromophenol
Concen: 0.159 ng
RT: 15.475 min Scan# 1578
Delta R.T. 0.021 min
Lab File: BN035812.D
Acq: 24 Dec 2024 09:35

Tgt Ion:330 Resp: 490

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 0.0 | 0.0 | 0.0 |
| 141 | 37.3 | 26.6 | 40.0 |



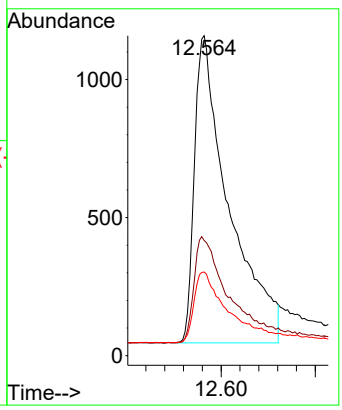


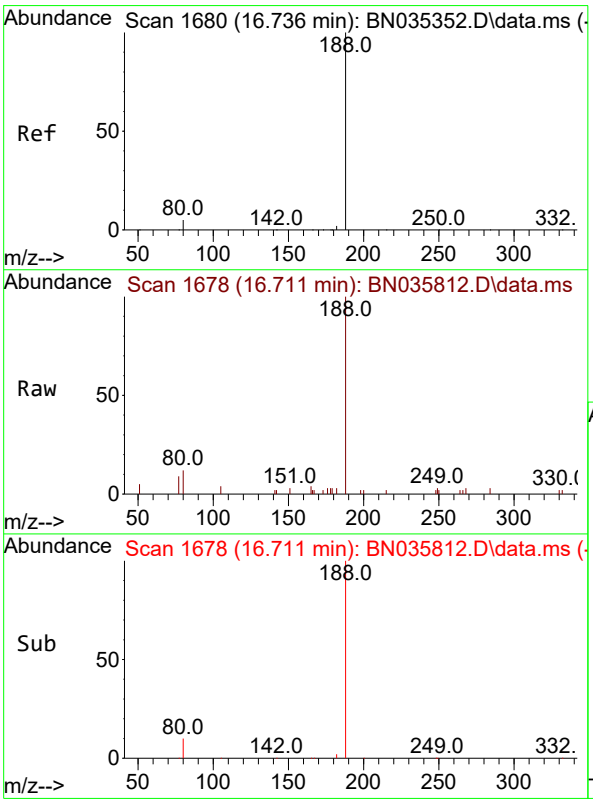

#15
2-Fluorobiphenyl
Concen: 0.344 ng
RT: 12.564 min Scan# 1
Delta R.T. 0.020 min
Lab File: BN035812.D
Acq: 24 Dec 2024 09:35

**Instrument :**
BNA_N
**ClientSampleId :**
PB165828BL

Tgt Ion:172 Resp: 5652

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 36.0 | 29.0 | 43.4 |
| 170 | 26.1 | 19.8 | 29.8 |

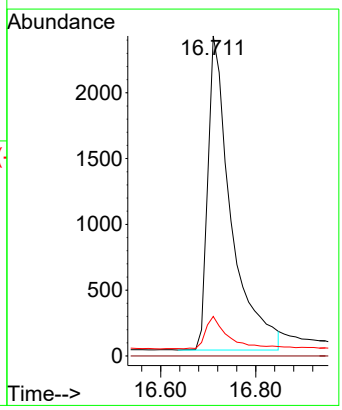


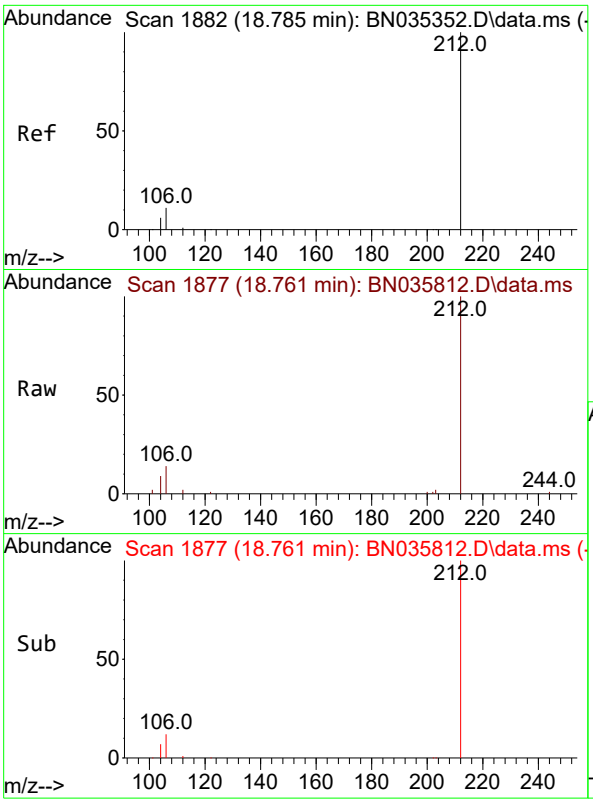




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.711 min Scan# 1678
Delta R.T. 0.012 min
Lab File: BN035812.D
Acq: 24 Dec 2024 09:35

Tgt Ion:188 Resp: 8099

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 12.3 | 4.6 | 6.8# |



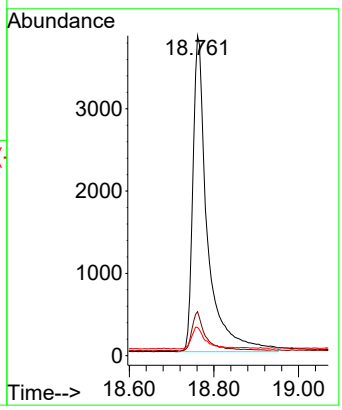


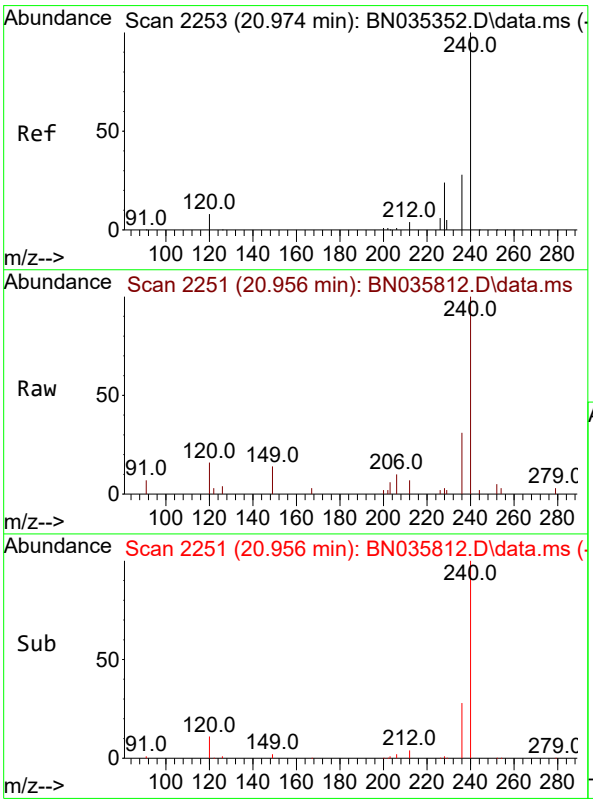

#27
Fluoranthene-d10
Concen: 0.400 ng
RT: 18.761 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035812.D
Acq: 24 Dec 2024 09:35

**Instrument :**
BNA_N
**ClientSampleId :**
PB165828BL

Tgt Ion:212 Resp: 9188

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 11.5 | 9.2 | 13.8 |
| 104 | 6.3 | 5.3 | 7.9 |

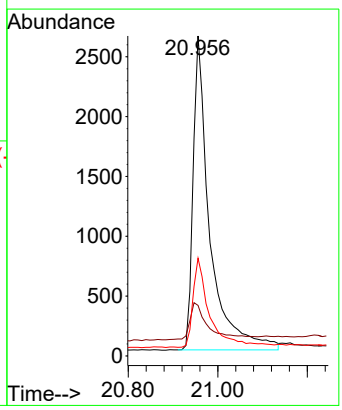


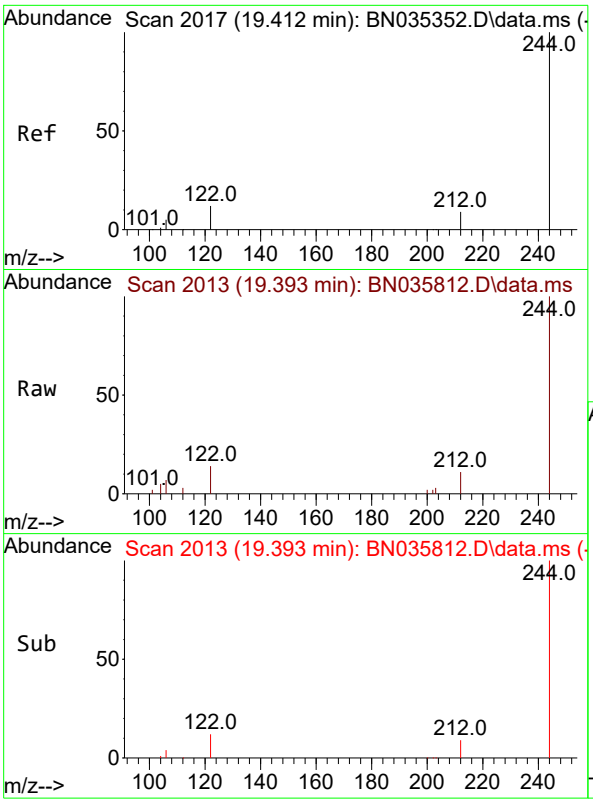




#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.956 min Scan# 2251
Delta R.T. -0.000 min
Lab File: BN035812.D
Acq: 24 Dec 2024 09:35

Tgt Ion:240 Resp: 6756

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 15.8 | 7.9 | 11.9# |
| 236 | 30.6 | 22.9 | 34.3 |



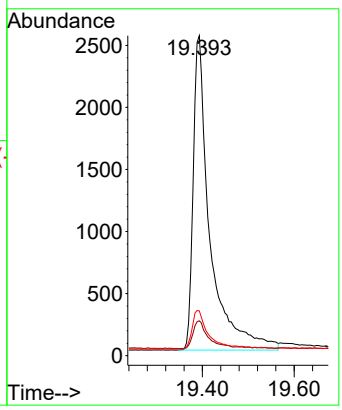


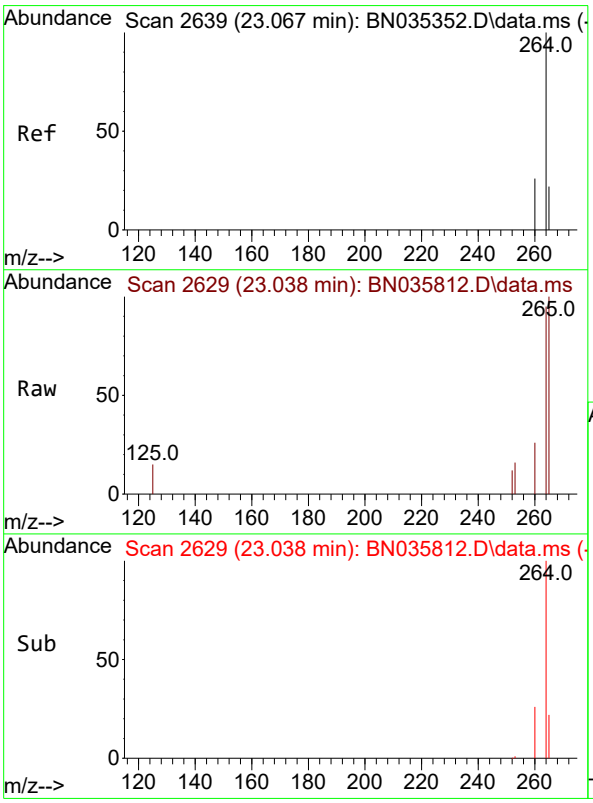

#31
Terphenyl-d14
Concen: 0.481 ng
RT: 19.393 min Scan# 2
Delta R.T. 0.004 min
Lab File: BN035812.D
Acq: 24 Dec 2024 09:35

**Instrument :**
BNA_N
**ClientSampleId :**
PB165828BL

Tgt Ion:244 Resp: 6413

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 10.9 | 8.1 | 12.1 |
| 122 | 14.0 | 10.3 | 15.5 |

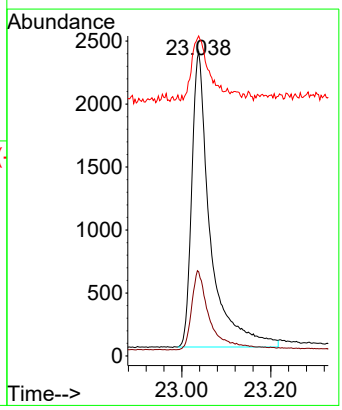



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.038 min Scan# 2629
Delta R.T. -0.003 min
Lab File: BN035812.D
Acq: 24 Dec 2024 09:35

Tgt Ion:264 Resp: 6747

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 27.6 | 21.4 | 32.2 |
| 265 | 105.1 | 40.2 | 60.4# |



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035815.D
Acq On : 24 Dec 2024 11:21
Operator : RC/JU
Sample : P5376-02
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
TT150S1-20241218

Quant Time: Dec 24 23:17:07 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.264 | 152 | 3146 | 0.400 | ng | | 0.00 |
| 7) Naphthalene-d8 | 10.009 | 136 | 7086 | 0.400 | ng | | -0.01 |
| 13) Acenaphthene-d10 | 13.925 | 164 | 4334 | 0.400 | ng | | -0.01 |
| 19) Phenanthrene-d10 | 16.698 | 188 | 8132 | 0.400 | ng | # | 0.00 |
| 29) Chrysene-d12 | 20.947 | 240 | 6728 | 0.400 | ng | # | 0.00 |
| 35) Perylene-d12 | 23.029 | 264 | 6588 | 0.400 | ng | # | -0.01 |
| System Monitoring Compounds | | | | | | | |
| 4) 2-Fluorophenol | 4.924 | 112 | 783 | 0.099 | ng | | -0.01 |
| 5) Phenol-d6 | 6.477 | 99 | 425 | 0.045 | ng | | -0.01 |
| 8) Nitrobenzene-d5 | 8.408 | 82 | 1907 | 0.441 | ng | | 0.00 |
| 11) 2-Methylnaphthalene-d10 | 11.616 | 152 | 3733 | 0.337 | ng | | 0.00 |
| 14) 2,4,6-Tribromophenol | 15.453 | 330 | 558 | 0.181 | ng | | 0.00 |
| 15) 2-Fluorobiphenyl | 12.539 | 172 | 6086 | 0.371 | ng | | 0.00 |
| 27) Fluoranthene-d10 | 18.747 | 212 | 9081 | 0.394 | ng | | -0.01 |
| 31) Terphenyl-d14 | 19.379 | 244 | 7115 | 0.536 | ng | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 2.982 | 88 | 735 | 0.244 | ng | | 91 |
| 9) Naphthalene | 10.052 | 128 | 3064 | 0.164 | ng | # | 93 |
| 12) 2-Methylnaphthalene | 11.697 | 142 | 1938 | 0.145 | ng | # | 95 |
| 16) Acenaphthylene | 13.636 | 152 | 3133 | 0.172 | ng | | 98 |
| 17) Acenaphthene | 13.989 | 154 | 1954 | 0.162 | ng | | 96 |
| 18) Fluorene | 14.994 | 166 | 2543 | 0.147 | ng | | 99 |
| 24) Pentachlorophenol | 16.388 | 266 | 52 | 0.021 | ng | | 96 |
| 25) Phenanthrene | 16.736 | 178 | 4749 | 0.213 | ng | | 99 |
| 26) Anthracene | 16.835 | 178 | 3615 | 0.179 | ng | | 99 |
| 28) Fluoranthene | 18.780 | 202 | 5217 | 0.173 | ng | | 100 |
| 30) Pyrene | 19.147 | 202 | 5398 | 0.217 | ng | | 99 |
| 32) Benzo(a)anthracene | 20.929 | 228 | 3164 | 0.134 | ng | | 96 |
| 33) Chrysene | 20.983 | 228 | 4527 | 0.187 | ng | | 97 |
| 34) Bis(2-ethylhexyl)phtha... | 20.893 | 149 | 357 | 0.038 | ng | # | 98 |
| 36) Indeno(1,2,3-cd)pyrene | 25.058 | 276 | 2949 | 0.115 | ng | | 96 |
| 37) Benzo(b)fluoranthene | 22.421 | 252 | 4545 | 0.189 | ng | # | 72 |
| 38) Benzo(k)fluoranthene | 22.465 | 252 | 3529 | 0.149 | ng | # | 71 |
| 39) Benzo(a)pyrene | 22.945 | 252 | 2673 | 0.135 | ng | # | 51 |
| 40) Dibenzo(a,h)anthracene | 25.082 | 278 | 2170 | 0.107 | ng | # | 55 |
| 41) Benzo(g,h,i)perylene | 25.672 | 276 | 2390 | 0.113 | ng | # | 83 |

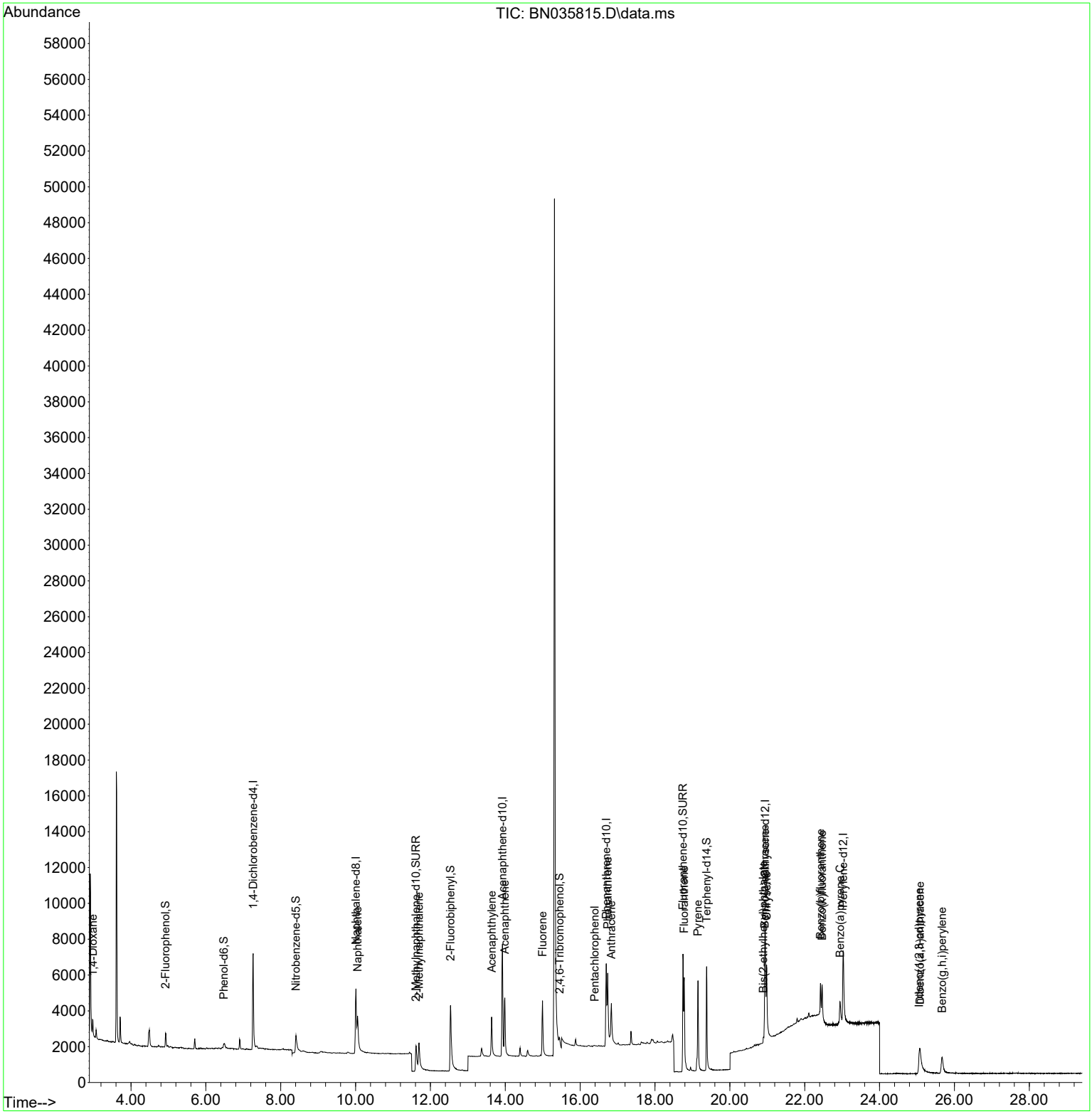
(#) = qualifier out of range (m) = manual integration (+) = signals summed

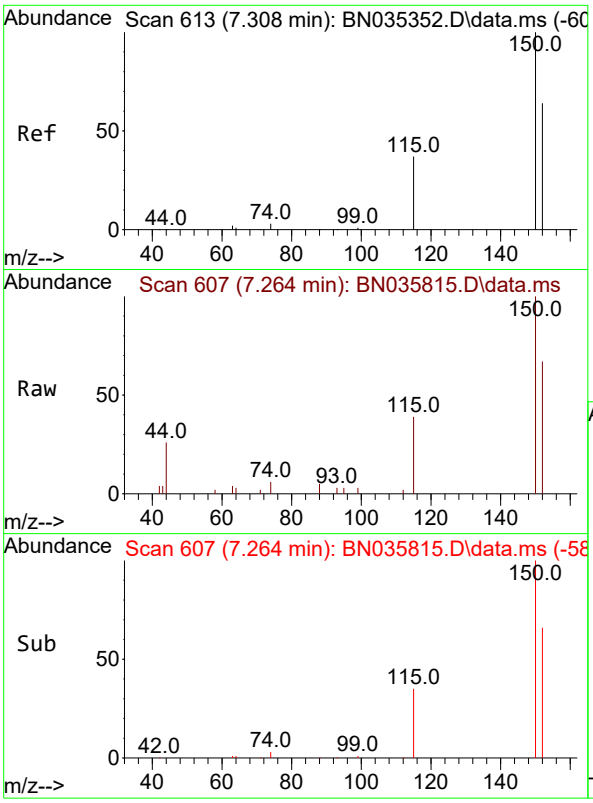
Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035815.D
Acq On : 24 Dec 2024 11:21
Operator : RC/JU
Sample : P5376-02
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
TT150S1-20241218

Quant Time: Dec 24 23:17:07 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



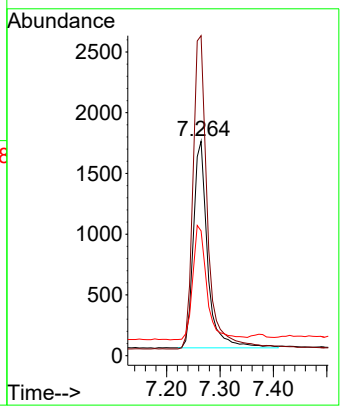


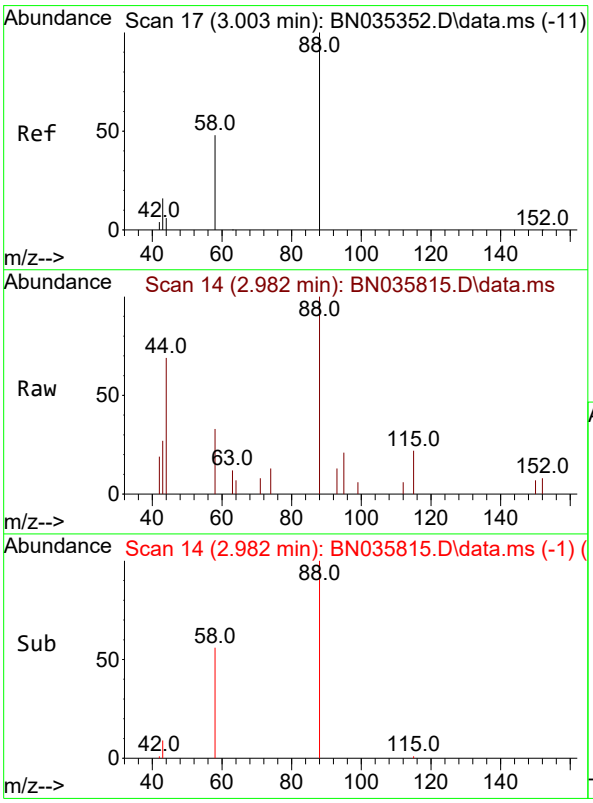

#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.264 min Scan# 6
Delta R.T. -0.008 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

**Instrument :**
BNA_N
**ClientSampleId :**
TT150S1-20241218

Tgt Ion:152 Resp: 3146

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 149.2 | 124.0 | 186.0 |
| 115 | 58.2 | 49.6 | 74.4 |

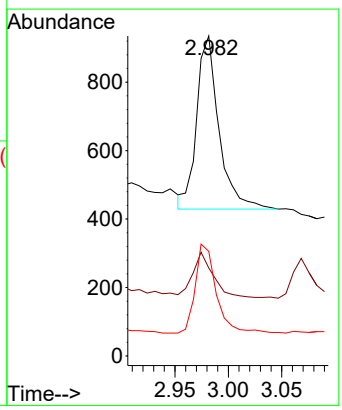


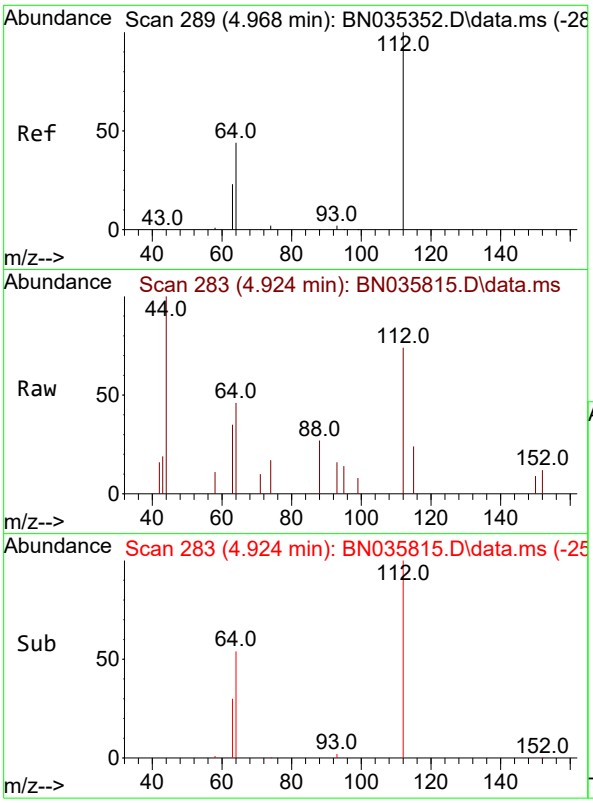




#2
1,4-Dioxane
Concen: 0.244 ng
RT: 2.982 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

Tgt Ion: 88 Resp: 735

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 23.5 | 17.2 | 25.8 |
| 58 | 48.2 | 44.5 | 66.7 |



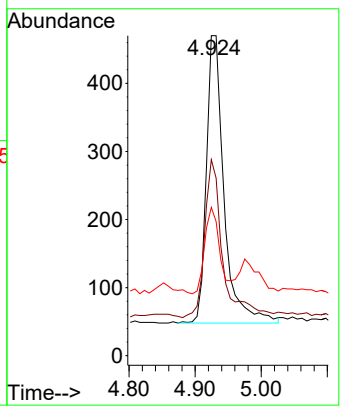


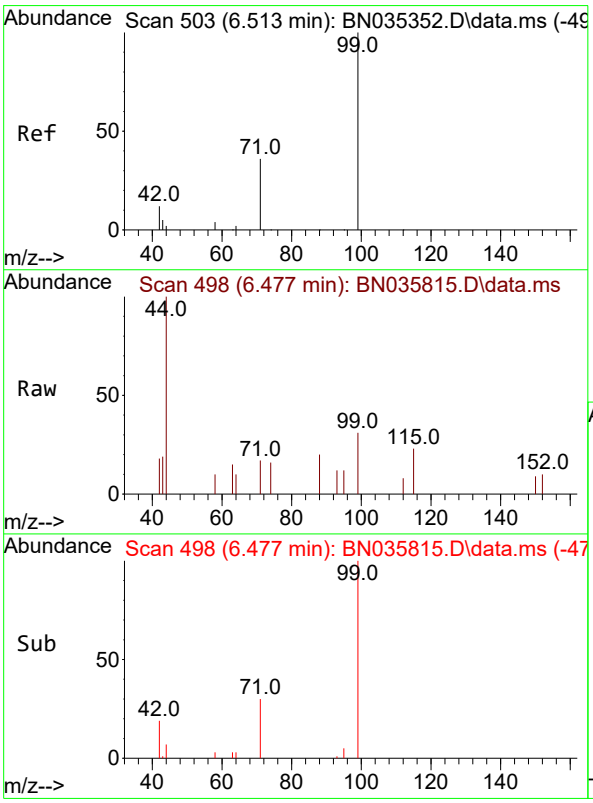

#4
2-Fluorophenol
Concen: 0.099 ng
RT: 4.924 min Scan# 2
Delta R.T. -0.015 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

**Instrument :**
BNA_N
**ClientSampleId :**
TT150S1-20241218

Tgt Ion:112 Resp: 783

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 55.9 | 39.8 | 59.8 |
| 63 | 25.3 | 21.0 | 31.6 |

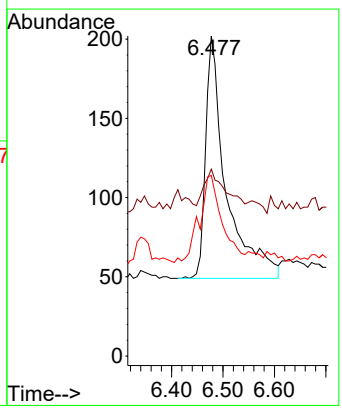


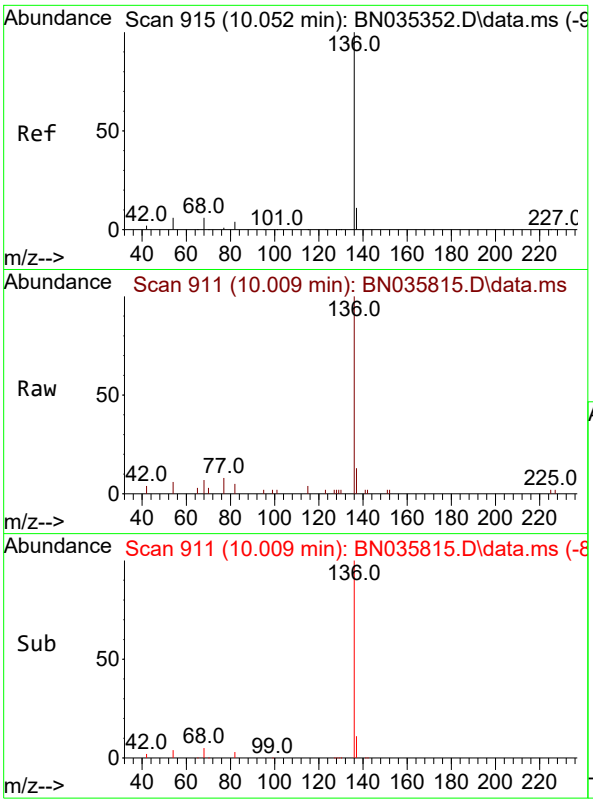




#5
Phenol-d6
Concen: 0.045 ng
RT: 6.477 min Scan# 498
Delta R.T. -0.015 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

Tgt Ion: 99 Resp: 425

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 14.4 | 11.4 | 17.2 |
| 71 | 40.0 | 29.3 | 43.9 |



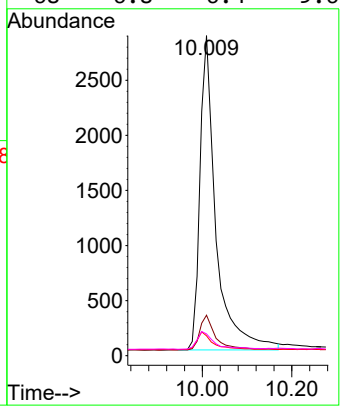


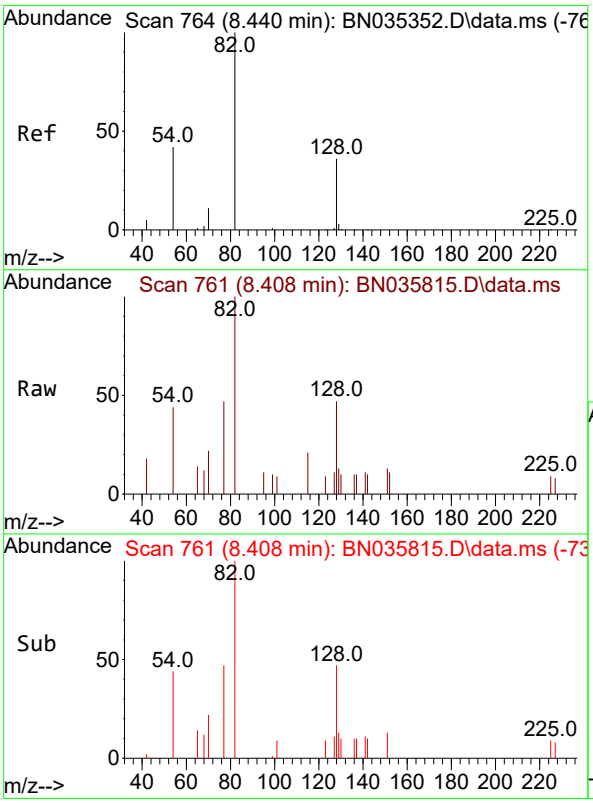

#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

**Instrument :**
BNA_N
**ClientSampleId :**
TT150S1-20241218

Tgt Ion:136 Resp: 7086

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 12.7 | 10.2 | 15.2 |
| 54 | 6.2 | 6.1 | 9.1 |
| 68 | 6.8 | 6.4 | 9.6 |

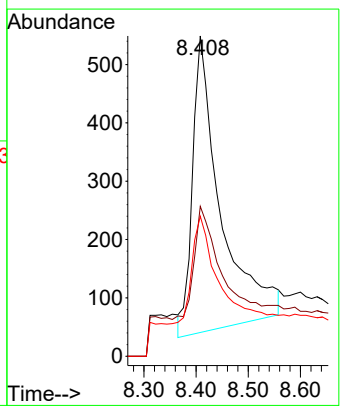


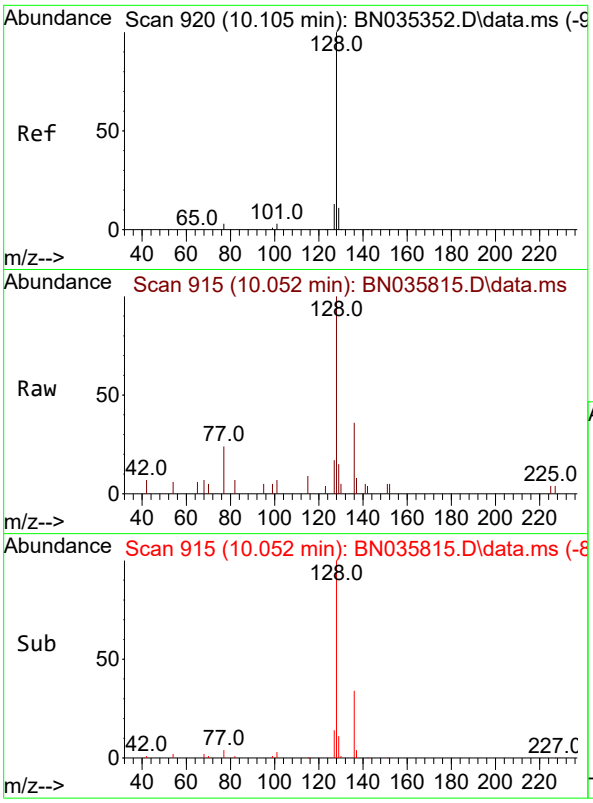




#8
Nitrobenzene-d5
Concen: 0.441 ng
RT: 8.408 min Scan# 761
Delta R.T. -0.000 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

Tgt Ion: 82 Resp: 1907

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 46.8 | 33.4 | 50.0 |
| 54 | 43.7 | 36.7 | 55.1 |



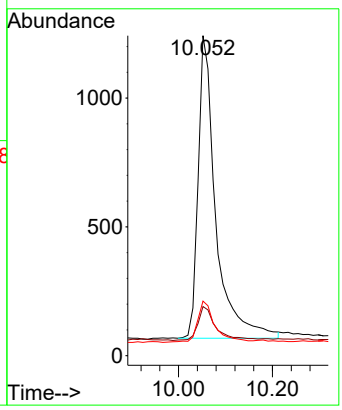


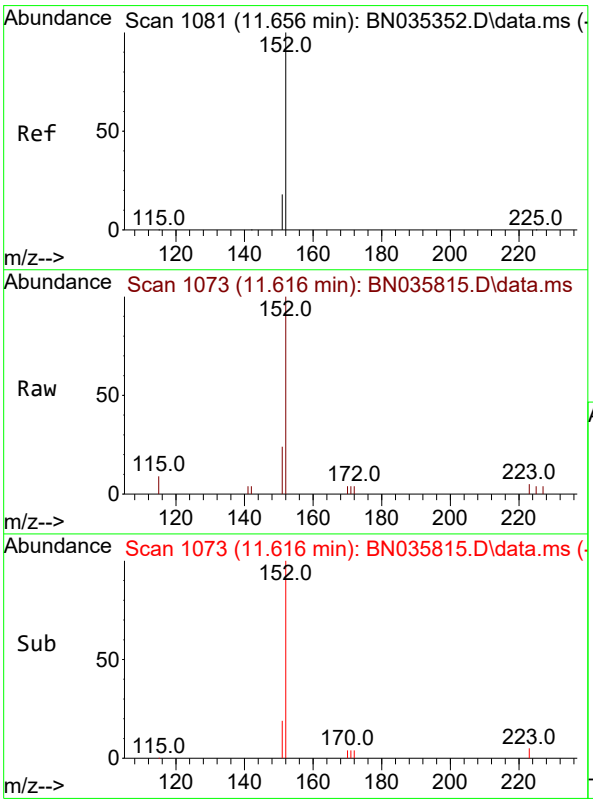

#9
Naphthalene
Concen: 0.164 ng
RT: 10.052 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

**Instrument :**
BNA_N
**ClientSampleId :**
TT150S1-20241218

Tgt Ion:128 Resp: 3064

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 15.4 | 9.8 | 14.6# |
| 127 | 17.1 | 11.4 | 17.2 |

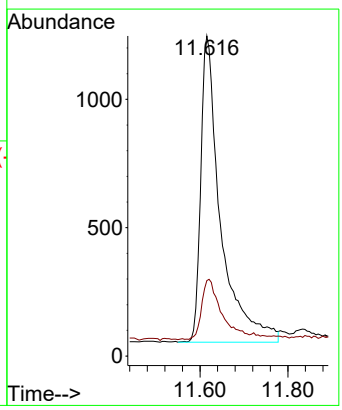


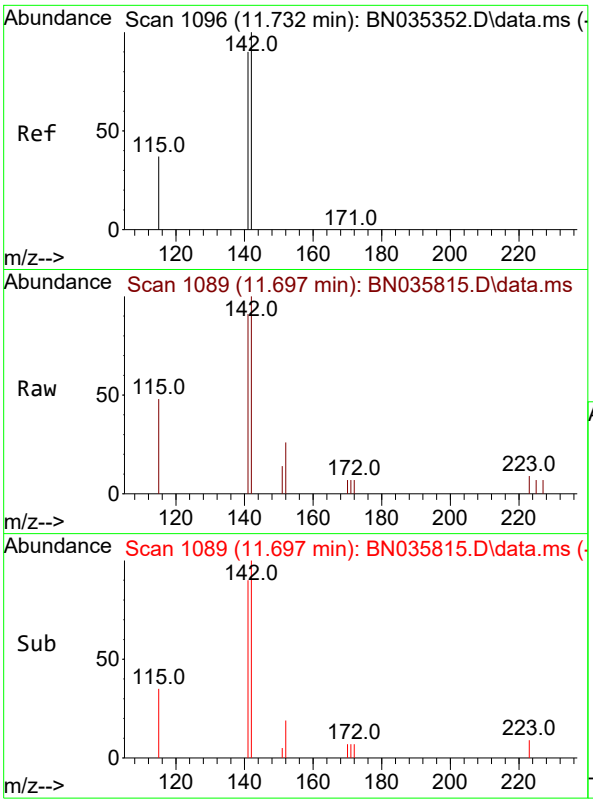




#11
2-Methylnaphthalene-d10
Concen: 0.337 ng
RT: 11.616 min Scan# 1073
Delta R.T. -0.005 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

Tgt Ion:152 Resp: 3733

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 19.6 | 16.6 | 25.0 |



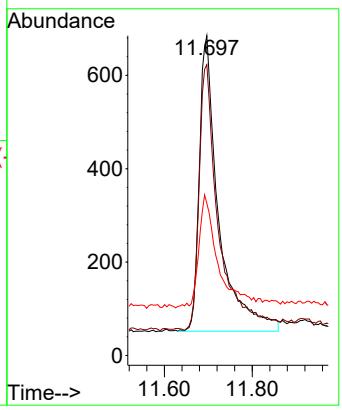


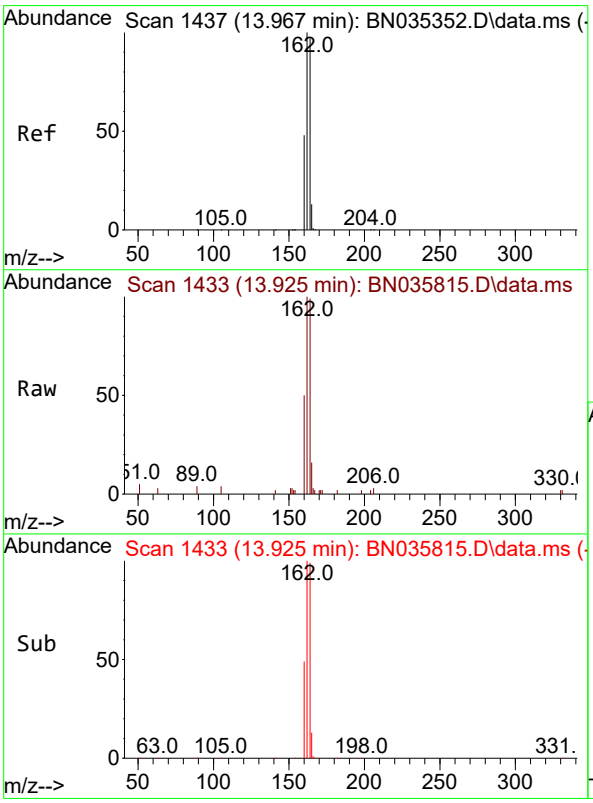

#12
2-Methylnaphthalene
Concen: 0.145 ng
RT: 11.697 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

**Instrument :**
BNA_N
**ClientSampleId :**
TT150S1-20241218

Tgt Ion:142 Resp: 1938

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 90.9 | 72.2 | 108.4 |
| 115 | 47.6 | 31.4 | 47.0# |

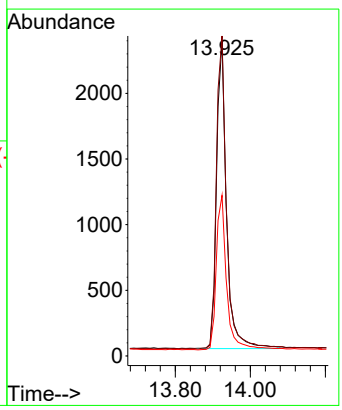


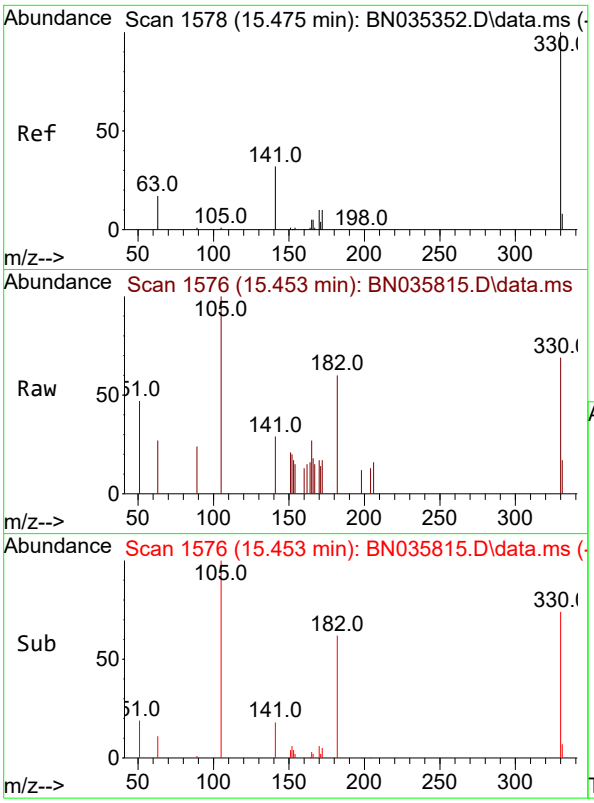




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.925 min Scan# 1433
Delta R.T. -0.011 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

Tgt Ion:164 Resp: 4334

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 101.3 | 82.2 | 123.2 |
| 160 | 50.9 | 40.1 | 60.1 |



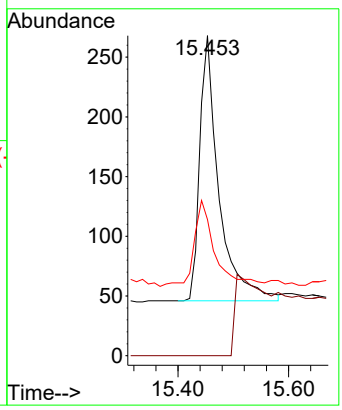


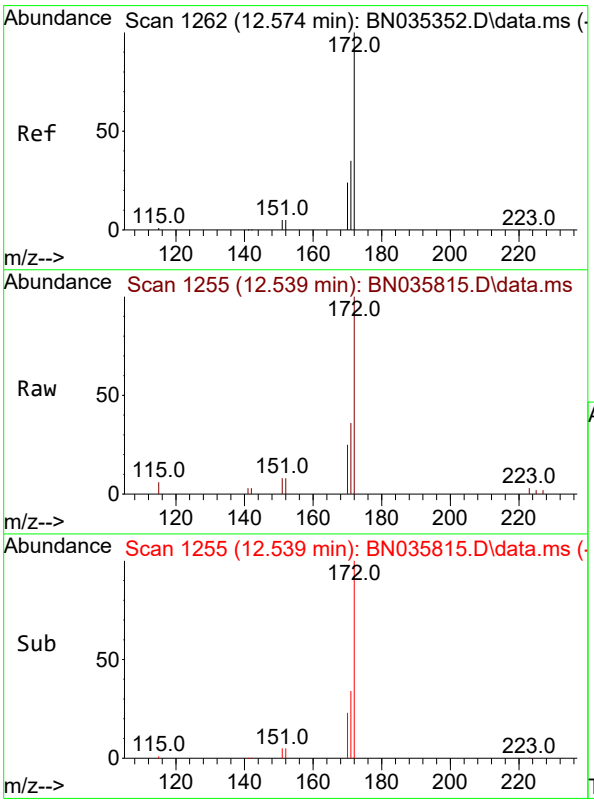

#14
2,4,6-Tribromophenol
Concen: 0.181 ng
RT: 15.453 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

**Instrument :**
BNA_N
**ClientSampleId :**
TT150S1-20241218

Tgt Ion:330 Resp: 558

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 0.0 | 0.0 | 0.0 |
| 141 | 35.7 | 26.6 | 40.0 |

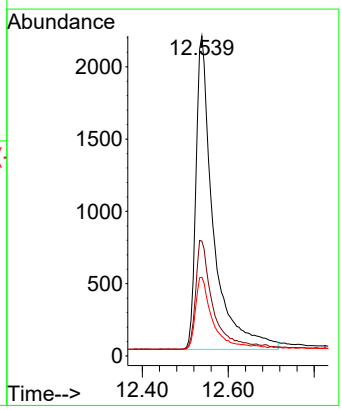


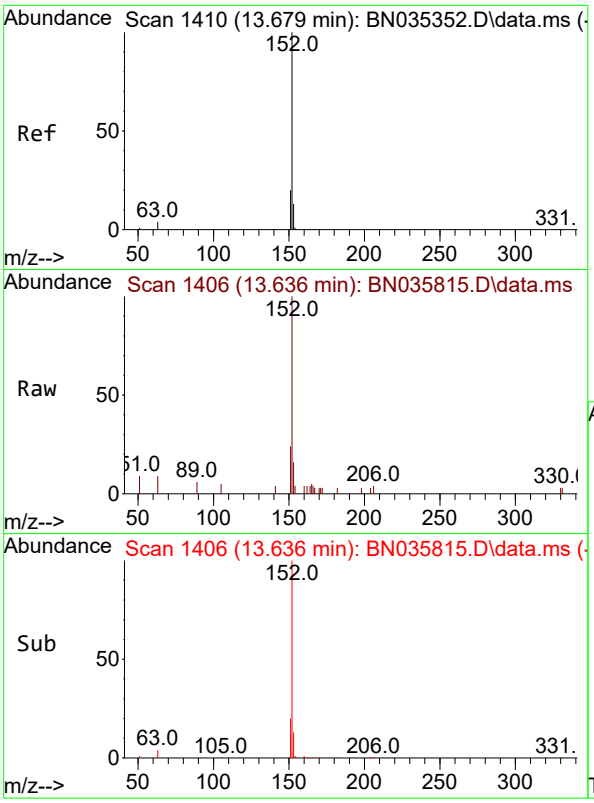




#15
2-Fluorobiphenyl
Concen: 0.371 ng
RT: 12.539 min Scan# 1255
Delta R.T. -0.005 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

Tgt Ion:172 Resp: 6086

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 35.9 | 29.0 | 43.4 |
| 170 | 24.6 | 19.8 | 29.8 |



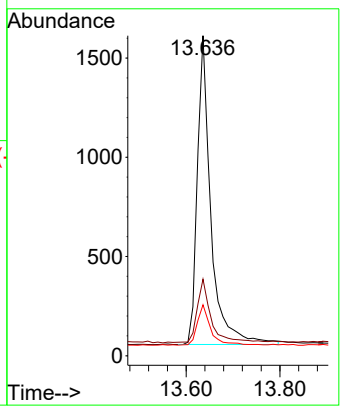


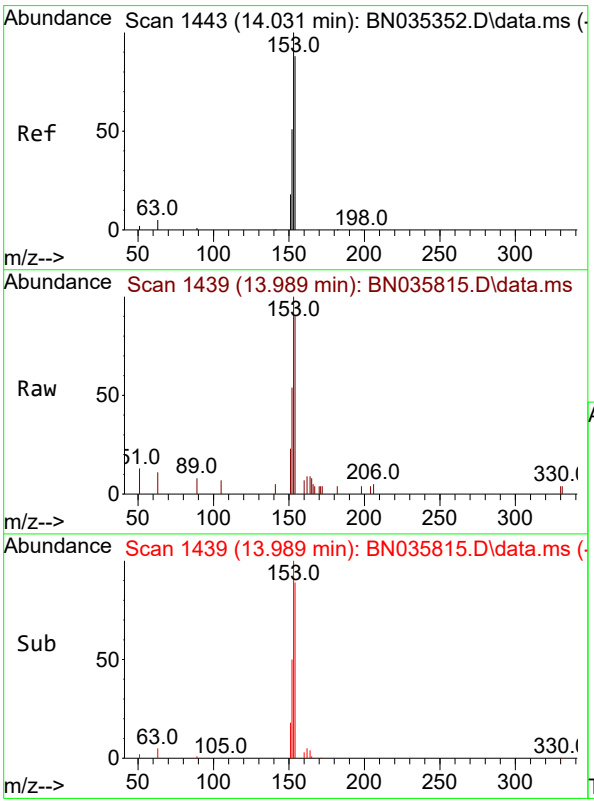

#16
Acenaphthylene
Concen: 0.172 ng
RT: 13.636 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

**Instrument :**
BNA_N
**ClientSampleId :**
TT150S1-20241218

Tgt Ion:152 Resp: 3133

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 21.5 | 16.2 | 24.2 |
| 153 | 12.7 | 10.4 | 15.6 |

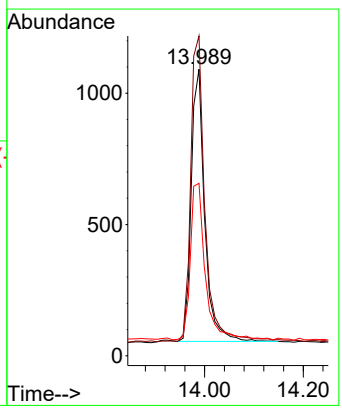


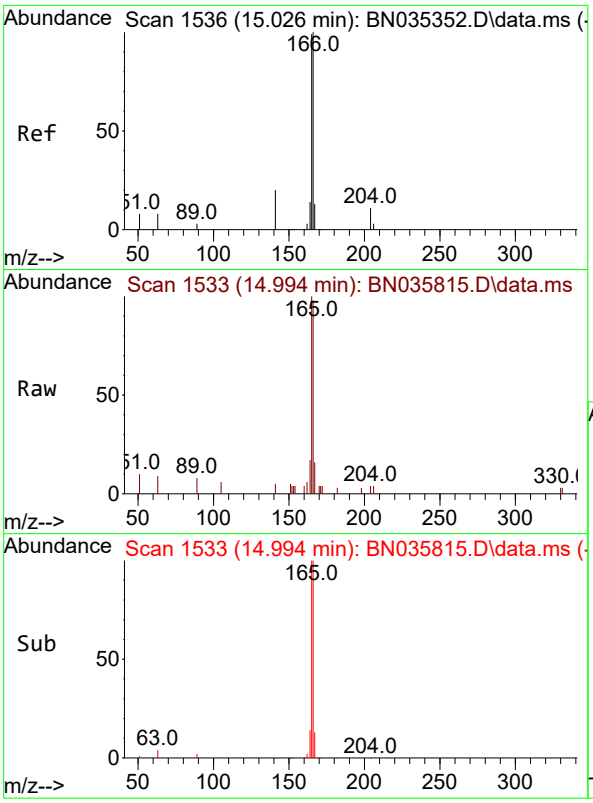




#17
Acenaphthene
Concen: 0.162 ng
RT: 13.989 min Scan# 1439
Delta R.T. -0.011 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

Tgt Ion:154 Resp: 1954

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 119.7 | 92.6 | 139.0 |
| 152 | 64.0 | 49.0 | 73.6 |



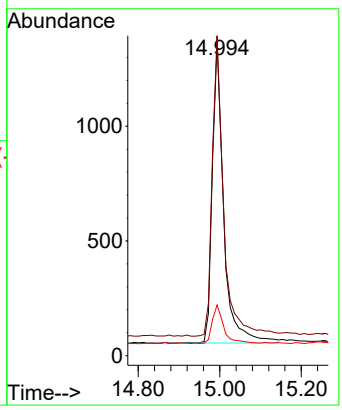


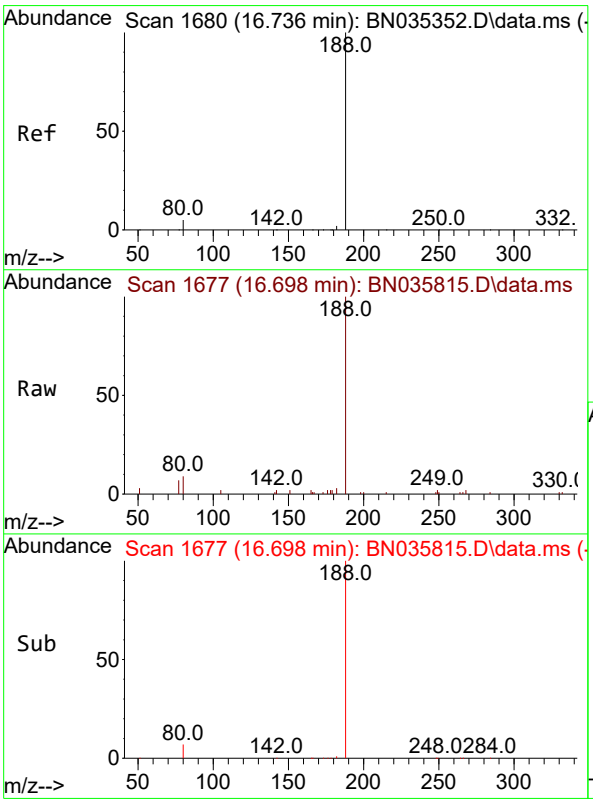

#18
Fluorene
Concen: 0.147 ng
RT: 14.994 min Scan# 1
Delta R.T. -0.011 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

**Instrument :**
BNA_N
**ClientSampleId :**
TT150S1-20241218

Tgt Ion:166 Resp: 2543

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 100.0 | 79.7 | 119.5 |
| 167 | 12.9 | 10.8 | 16.2 |

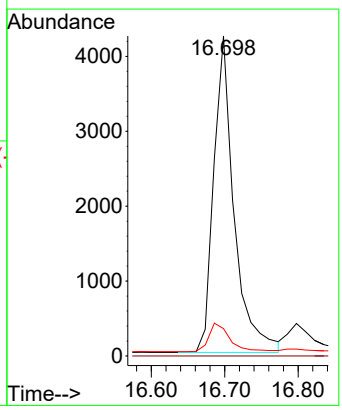


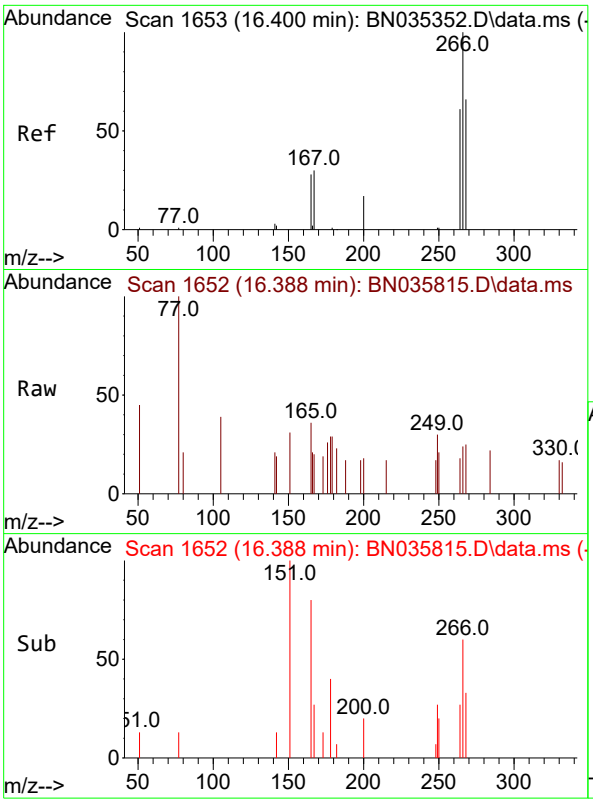




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1677
Delta R.T. -0.000 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

Tgt Ion:188 Resp: 8132

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 8.6 | 4.6 | 6.8# |



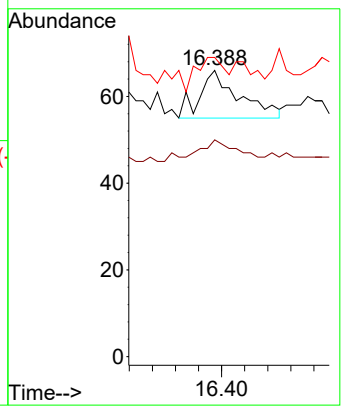


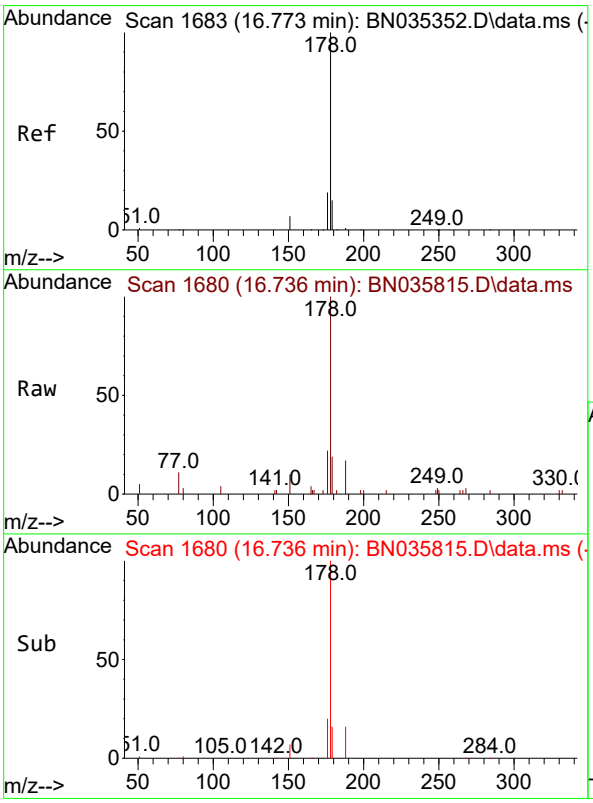

#24
Pentachlorophenol
Concen: 0.021 ng
RT: 16.388 min Scan# 1(
Delta R.T. 0.012 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

**Instrument :**
BNA_N
**ClientSampleId :**
TT150S1-20241218

Tgt Ion:266 Resp: 52

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 264 | 48.1 | 42.3 | 63.5 |
| 268 | 53.8 | 43.3 | 64.9 |

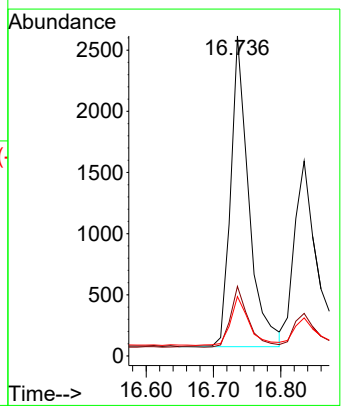


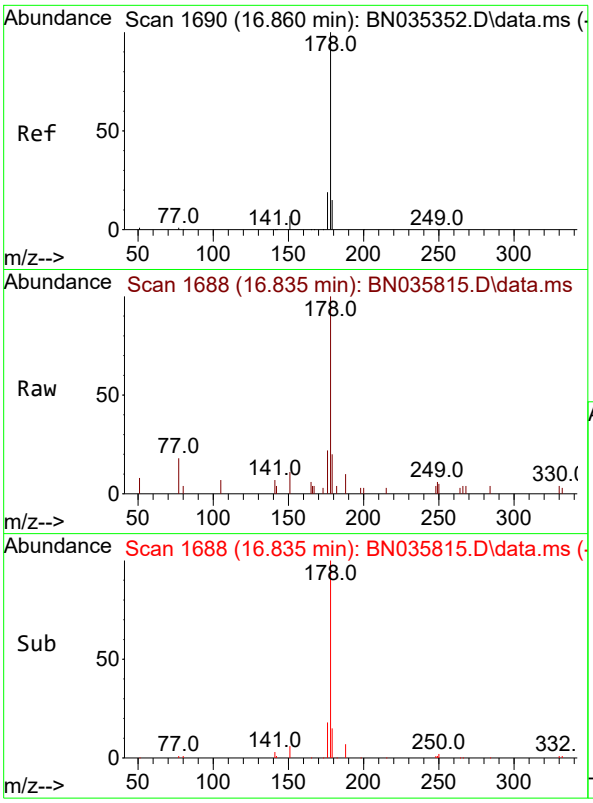




#25
Phenanthrene
Concen: 0.213 ng
RT: 16.736 min Scan# 1680
Delta R.T. -0.012 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

Tgt Ion:178 Resp: 4749

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.4 | 15.4 | 23.2 |
| 179 | 16.1 | 12.3 | 18.5 |



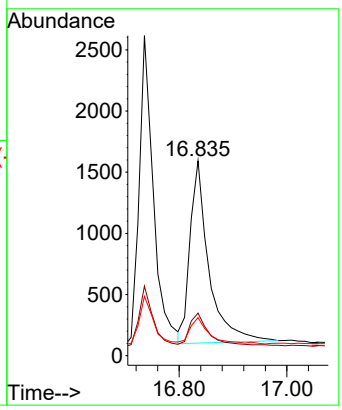


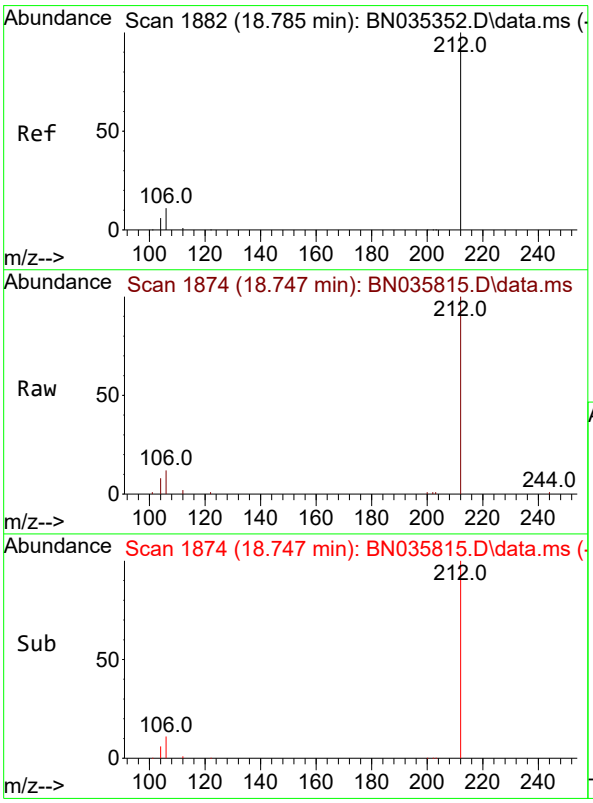

#26
Anthracene
Concen: 0.179 ng
RT: 16.835 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

**Instrument :**
BNA_N
**ClientSampleId :**
TT150S1-20241218

Tgt Ion:178 Resp: 3615

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.6 | 15.0 | 22.6 |
| 179 | 15.4 | 12.6 | 18.8 |

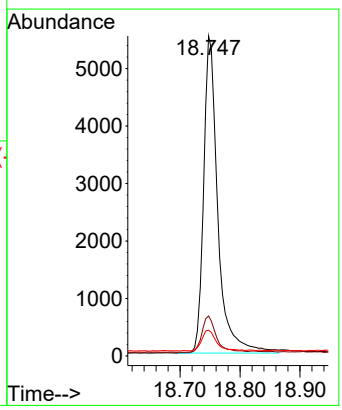


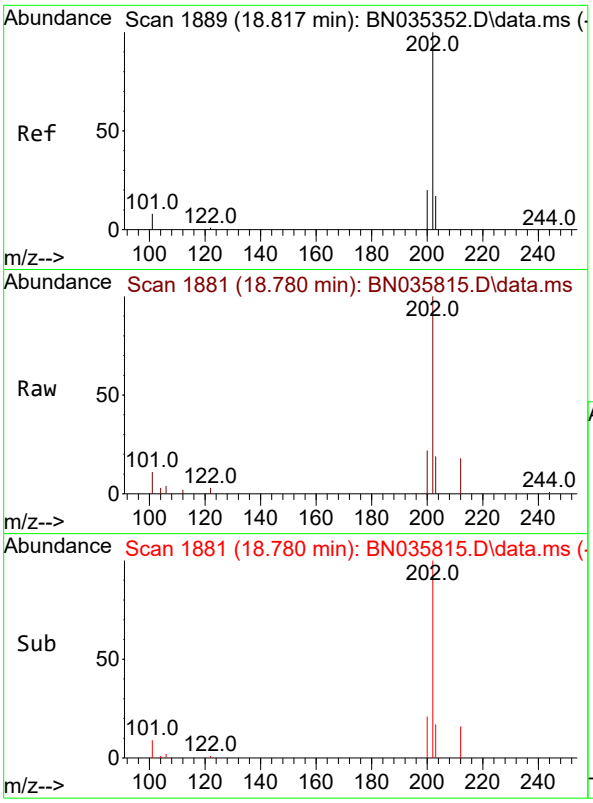




#27
Fluoranthene-d10
Concen: 0.394 ng
RT: 18.747 min Scan# 1874
Delta R.T. -0.014 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

Tgt Ion:212 Resp: 9081

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 11.4 | 9.2 | 13.8 |
| 104 | 6.7 | 5.3 | 7.9 |



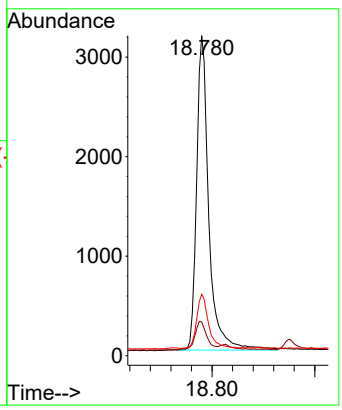


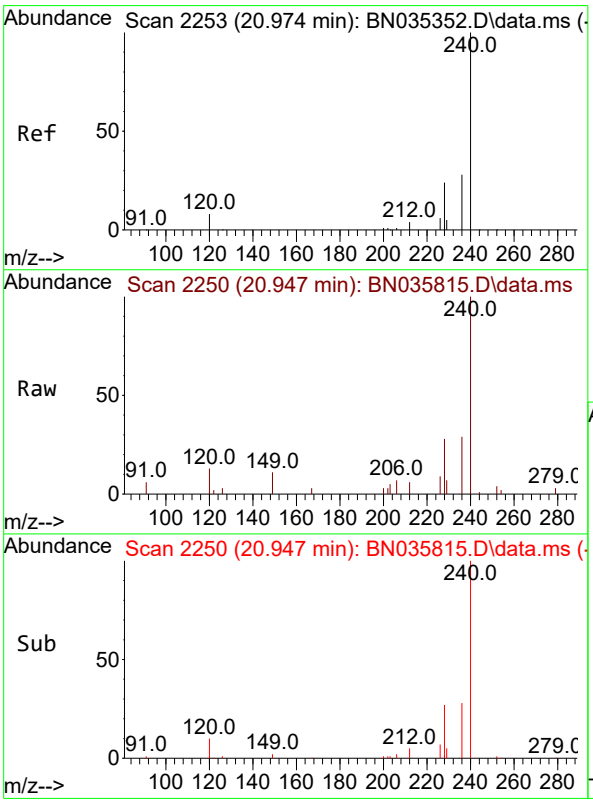

#28
Fluoranthene
Concen: 0.173 ng
RT: 18.780 min Scan# 1
Delta R.T. -0.009 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

**Instrument :**
BNA_N
**ClientSampleId :**
TT150S1-20241218

Tgt Ion:202 Resp: 5217

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 8.8 | 7.4 | 11.0 |
| 203 | 17.1 | 13.7 | 20.5 |

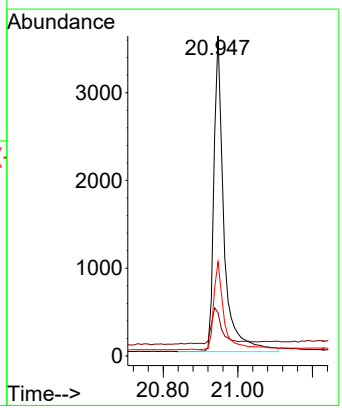


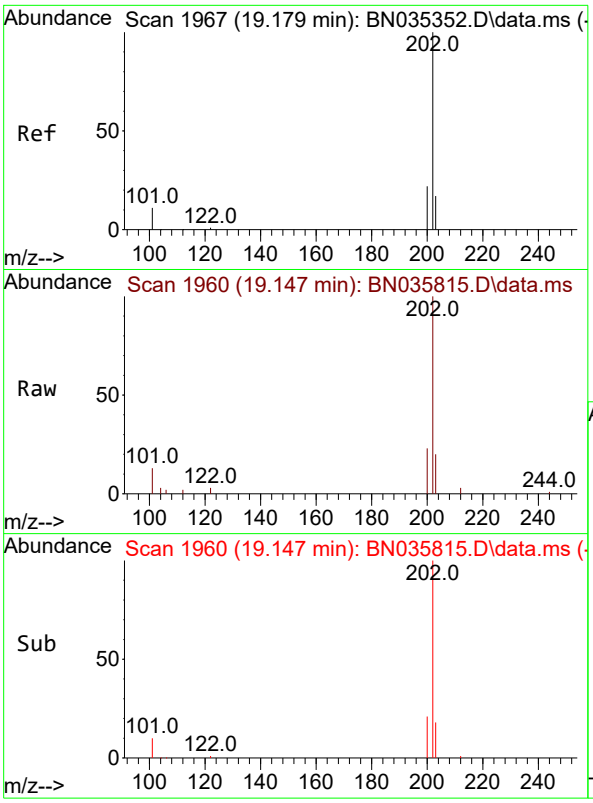




#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2250
Delta R.T. -0.009 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

Tgt Ion:240 Resp: 6728

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 13.5 | 7.9 | 11.9# |
| 236 | 29.4 | 22.9 | 34.3 |



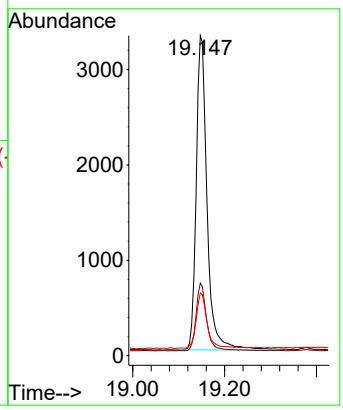


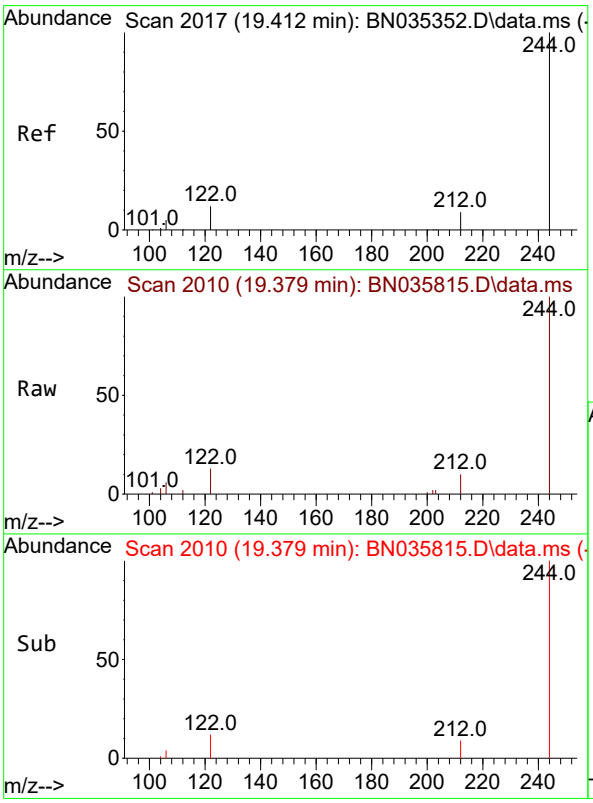

#30
Pyrene
Concen: 0.217 ng
RT: 19.147 min Scan# 1
Delta R.T. -0.014 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

**Instrument :**
BNA_N
**ClientSampleId :**
TT150S1-20241218

Tgt Ion:202 Resp: 5398

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 20.8 | 17.0 | 25.4 |
| 203 | 18.3 | 14.3 | 21.5 |

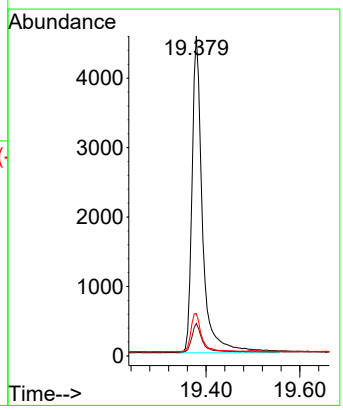


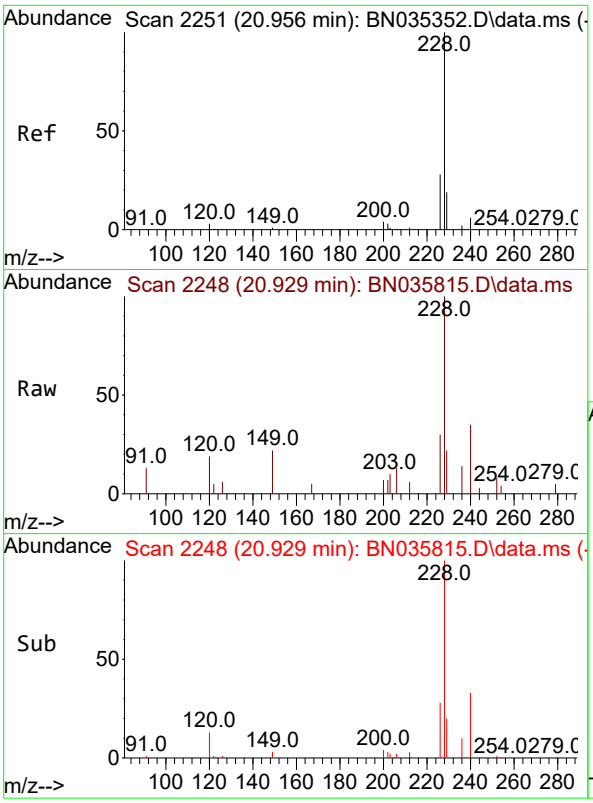




#31
Terphenyl-d14
Concen: 0.536 ng
RT: 19.379 min Scan# 2010
Delta R.T. -0.009 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

Tgt Ion:244 Resp: 7115

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 10.1 | 8.1 | 12.1 |
| 122 | 13.2 | 10.3 | 15.5 |



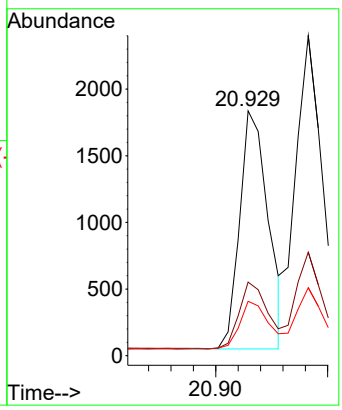


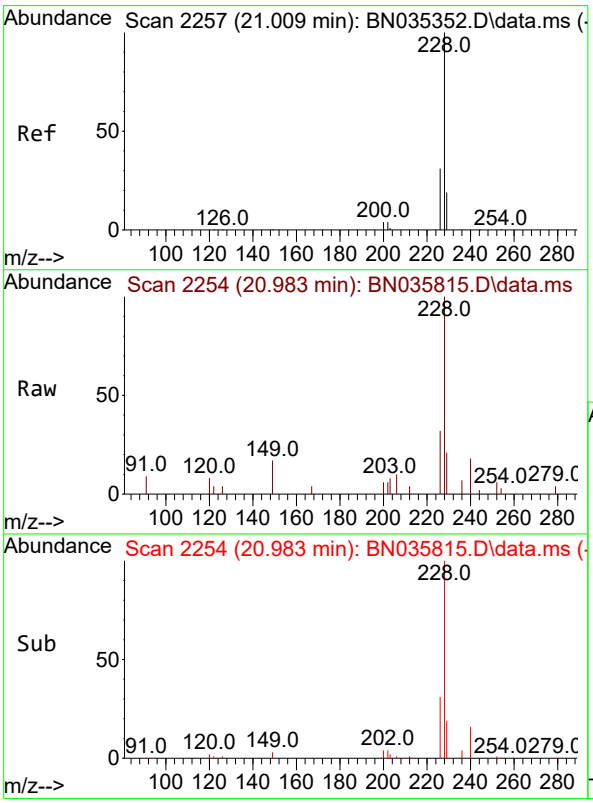

#32
Benzo(a)anthracene
Concen: 0.134 ng
RT: 20.929 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

**Instrument :**
BNA_N
**ClientSampleId :**
TT150S1-20241218

Tgt Ion:228 Resp: 3164

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 30.0 | 22.5 | 33.7 |
| 229 | 22.2 | 15.8 | 23.8 |

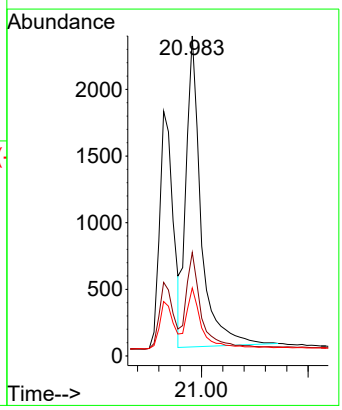


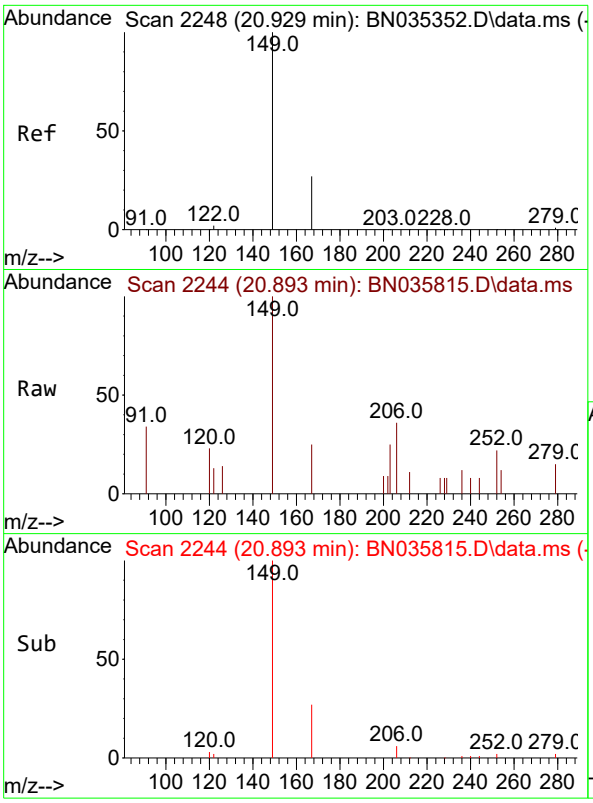




#33
Chrysene
Concen: 0.187 ng
RT: 20.983 min Scan# 2254
Delta R.T. -0.009 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

Tgt Ion:228 Resp: 4527

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 32.4 | 24.6 | 37.0 |
| 229 | 21.2 | 15.9 | 23.9 |



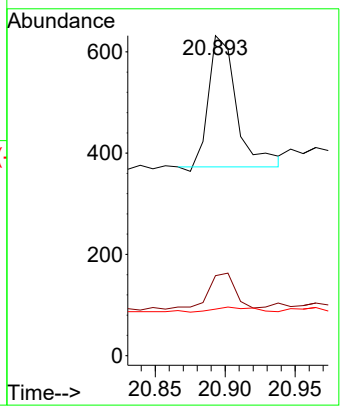


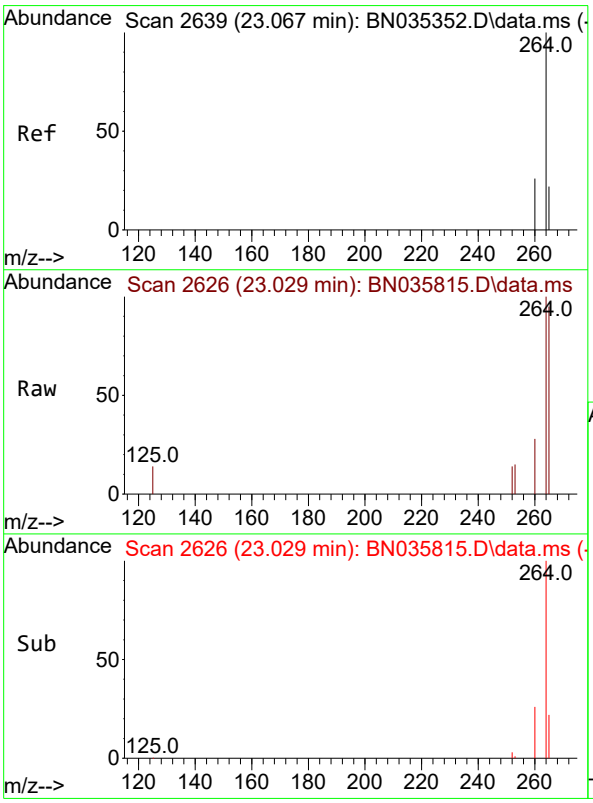

#34
Bis(2-ethylhexyl)phthalate
Concen: 0.038 ng
RT: 20.893 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

**Instrument :**
BNA_N
**ClientSampleId :**
TT150S1-20241218

Tgt Ion:149 Resp: 357

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 26.9 | 22.2 | 33.4 |
| 279 | 4.5 | 2.7 | 4.1# |

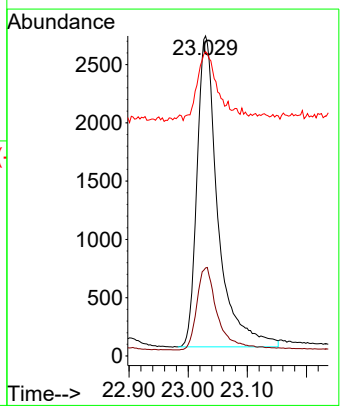


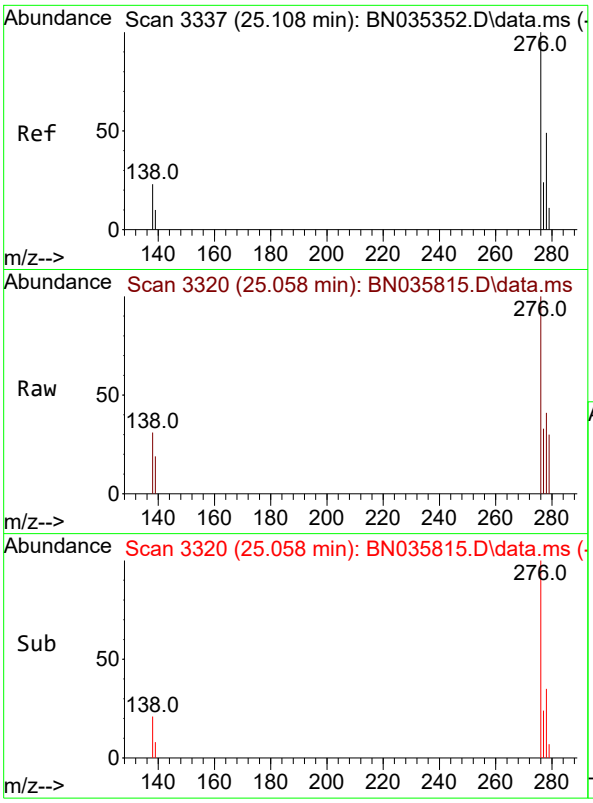




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.029 min Scan# 2626
Delta R.T. -0.012 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

Tgt Ion:264 Resp: 6588

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 27.5 | 21.4 | 32.2 |
| 265 | 95.1 | 40.2 | 60.4# |



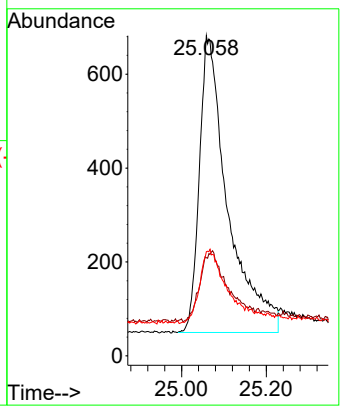


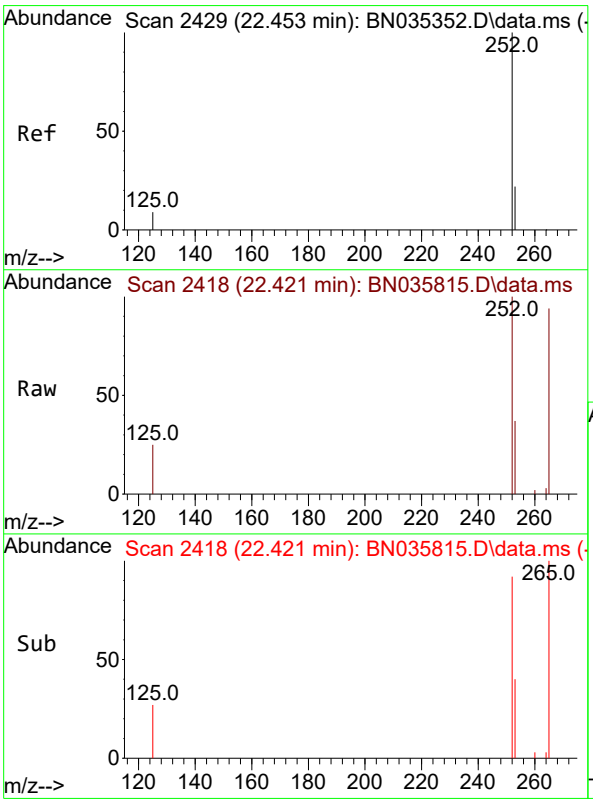

#36
Indeno(1,2,3-cd)pyrene
Concen: 0.115 ng
RT: 25.058 min Scan# 3
Delta R.T. -0.009 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

**Instrument :**
BNA_N
**ClientSampleId :**
TT150S1-20241218

Tgt Ion:276 Resp: 2949

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 22.4 | 19.4 | 29.0 |
| 277 | 22.2 | 19.8 | 29.6 |

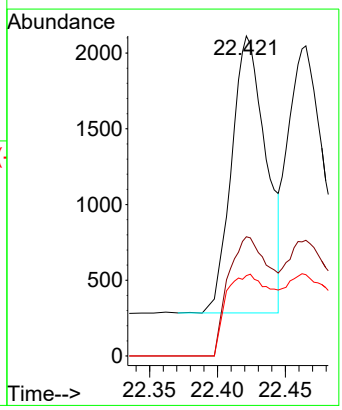


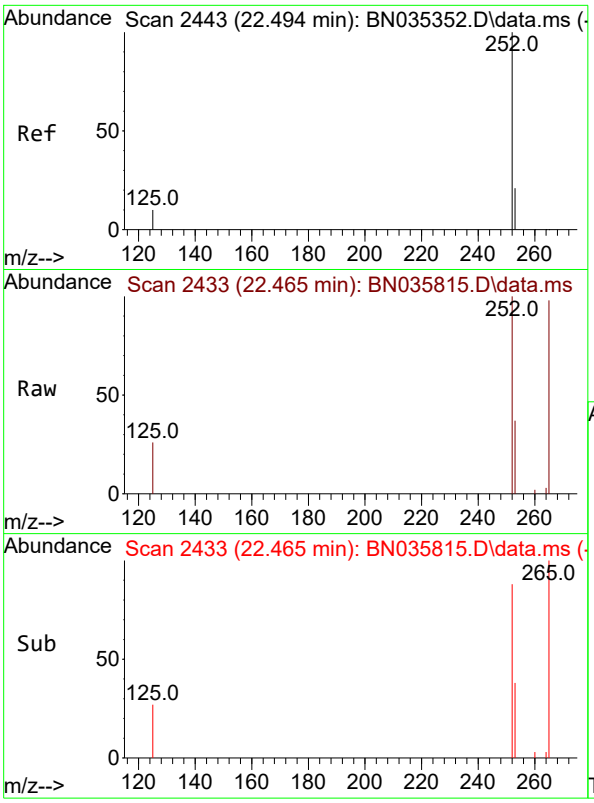




#37
Benzo(b)fluoranthene
Concen: 0.189 ng
RT: 22.421 min Scan# 2418
Delta R.T. -0.009 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

Tgt Ion:252 Resp: 4545

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 37.2 | 19.6 | 29.4# |
| 125 | 25.1 | 9.6 | 14.4# |



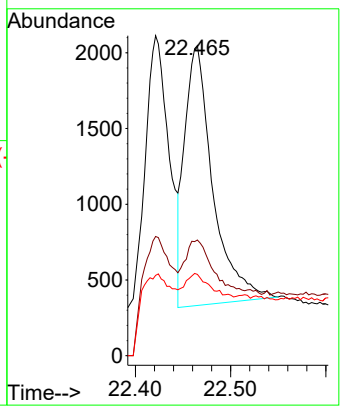


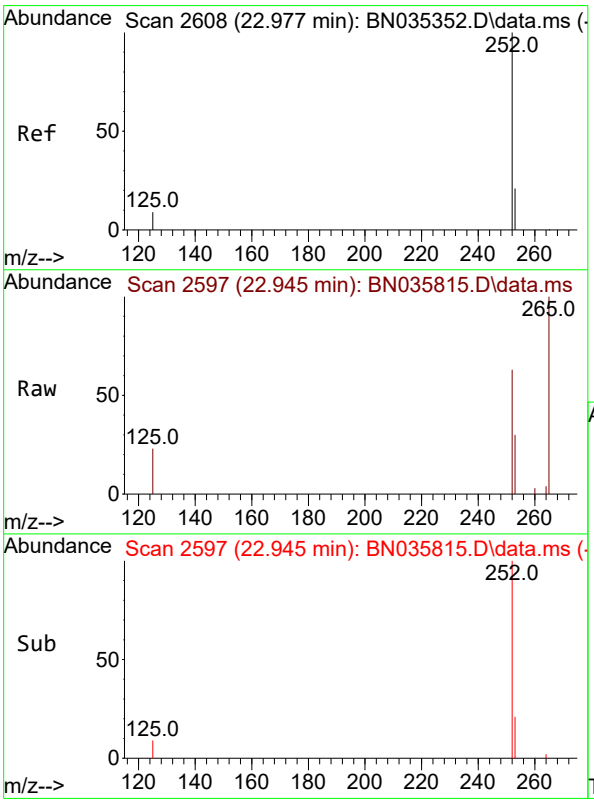

#38
Benzo(k)fluoranthene
Concen: 0.149 ng
RT: 22.465 min Scan# 24
Delta R.T. -0.006 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

**Instrument :**
BNA_N
**ClientSampleId :**
TT150S1-20241218

Tgt Ion:252 Resp: 3529

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 37.3 | 19.5 | 29.3# |
| 125 | 26.2 | 10.2 | 15.4# |

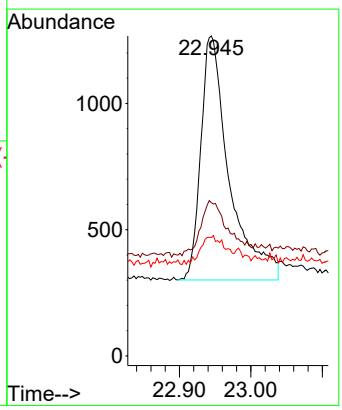


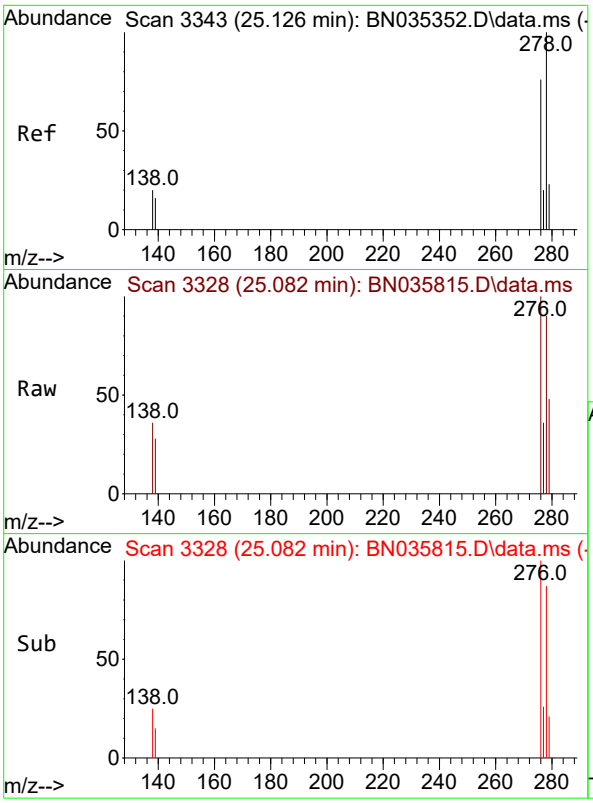




#39
Benzo(a)pyrene
Concen: 0.135 ng
RT: 22.945 min Scan# 2597
Delta R.T. -0.006 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

Tgt Ion:252 Resp: 2673

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 47.9 | 20.2 | 30.4# |
| 125 | 37.0 | 10.9 | 16.3# |



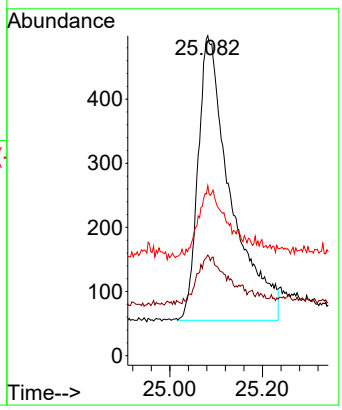


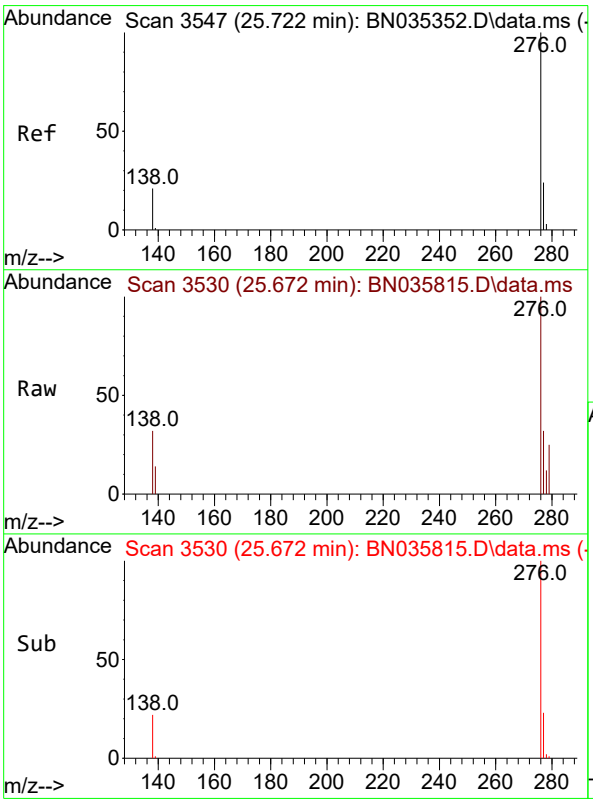

#40
Dibenzo(a,h)anthracene
Concen: 0.107 ng
RT: 25.082 min Scan# 3
Delta R.T. -0.000 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

**Instrument :**
BNA_N
**ClientSampleId :**
TT150S1-20241218

Tgt Ion:278 Resp: 2170

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 31.5 | 14.2 | 21.4# |
| 279 | 53.1 | 20.5 | 30.7# |

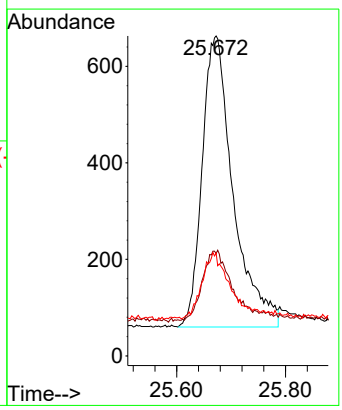



#41
Benzo(g,h,i)perylene
Concen: 0.113 ng
RT: 25.672 min Scan# 3530
Delta R.T. -0.006 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

Tgt Ion:276 Resp: 2390

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 32.0 | 19.9 | 29.9# |
| 138 | 32.1 | 17.8 | 26.8# |



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035816.D
Acq On : 24 Dec 2024 11:57
Operator : RC/JU
Sample : P5376-03
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
RE115D2-20241218

Quant Time: Dec 24 23:17:25 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.264 | 152 | 3275 | 0.400 | ng | | 0.00 |
| 7) Naphthalene-d8 | 10.009 | 136 | 7772 | 0.400 | ng | | -0.01 |
| 13) Acenaphthene-d10 | 13.925 | 164 | 4979 | 0.400 | ng | | -0.01 |
| 19) Phenanthrene-d10 | 16.698 | 188 | 10106 | 0.400 | ng | # | 0.00 |
| 29) Chrysene-d12 | 20.947 | 240 | 8871 | 0.400 | ng | | 0.00 |
| 35) Perylene-d12 | 23.032 | 264 | 8758 | 0.400 | ng | # | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 4) 2-Fluorophenol | 4.924 | 112 | 753 | 0.092 | ng | | -0.01 |
| 5) Phenol-d6 | 6.477 | 99 | 383 | 0.039 | ng | | -0.01 |
| 8) Nitrobenzene-d5 | 8.408 | 82 | 2504 | 0.527 | ng | | 0.00 |
| 11) 2-Methylnaphthalene-d10 | 11.621 | 152 | 3538 | 0.291 | ng | | 0.00 |
| 14) 2,4,6-Tribromophenol | 15.453 | 330 | 586 | 0.166 | ng | | 0.00 |
| 15) 2-Fluorobiphenyl | 12.539 | 172 | 6110 | 0.325 | ng | | 0.00 |
| 27) Fluoranthene-d10 | 18.752 | 212 | 10407 | 0.363 | ng | | 0.00 |
| 31) Terphenyl-d14 | 19.379 | 244 | 8030 | 0.459 | ng | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 2.974 | 88 | 23179 | 7.403 | ng | | 99 |
| 6) bis(2-Chloroethyl)ether | 6.723 | 93 | 310 | 0.037 | ng | | 93 |
| 9) Naphthalene | 10.052 | 128 | 1561 | 0.076 | ng | # | 80 |
| 12) 2-Methylnaphthalene | 11.697 | 142 | 932 | 0.064 | ng | # | 87 |
| 16) Acenaphthylene | 13.636 | 152 | 1554 | 0.074 | ng | | 99 |
| 17) Acenaphthene | 13.989 | 154 | 972 | 0.070 | ng | | 97 |
| 18) Fluorene | 14.994 | 166 | 1321 | 0.066 | ng | | 98 |
| 25) Phenanthrene | 16.736 | 178 | 2623 | 0.094 | ng | | 99 |
| 26) Anthracene | 16.835 | 178 | 1938 | 0.077 | ng | | 98 |
| 28) Fluoranthene | 18.780 | 202 | 3054 | 0.082 | ng | | 99 |
| 30) Pyrene | 19.152 | 202 | 3188 | 0.097 | ng | | 99 |
| 32) Benzo(a)anthracene | 20.929 | 228 | 1910 | 0.062 | ng | | 93 |
| 33) Chrysene | 20.983 | 228 | 2737 | 0.086 | ng | | 94 |
| 34) Bis(2-ethylhexyl)phtha... | 20.893 | 149 | 623 | 0.051 | ng | # | 94 |
| 36) Indeno(1,2,3-cd)pyrene | 25.073 | 276 | 1728 | 0.050 | ng | # | 68 |
| 37) Benzo(b)fluoranthene | 22.424 | 252 | 2429 | 0.076 | ng | # | 52 |
| 38) Benzo(k)fluoranthene | 22.465 | 252 | 1987 | 0.063 | ng | # | 51 |
| 39) Benzo(a)pyrene | 22.948 | 252 | 1503 | 0.057 | ng | # | 21 |
| 40) Dibenzo(a,h)anthracene | 25.088 | 278 | 1220 | 0.045 | ng | # | 30 |
| 41) Benzo(g,h,i)perylene | 25.678 | 276 | 1434 | 0.051 | ng | # | 72 |

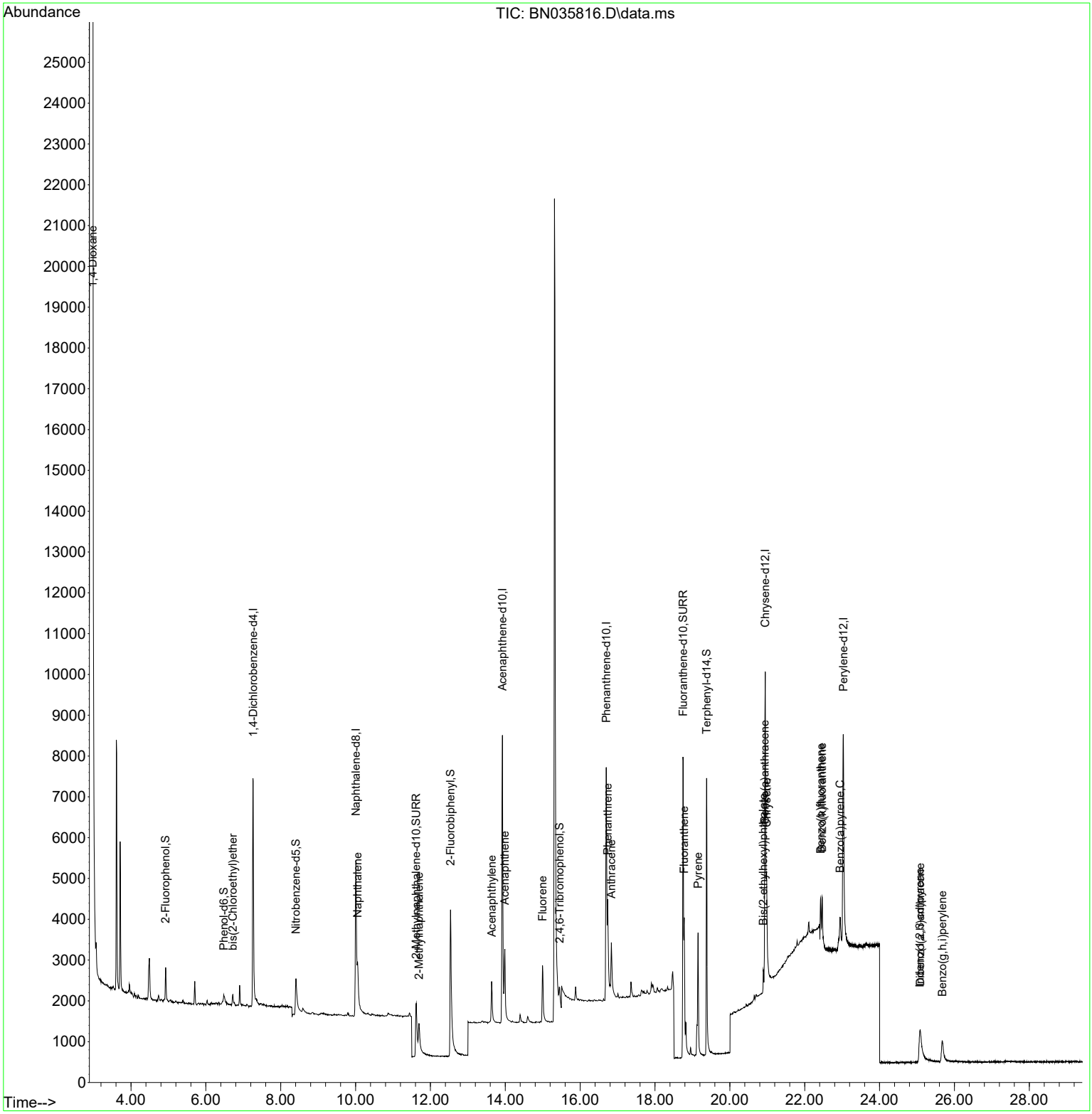
(#) = qualifier out of range (m) = manual integration (+) = signals summed

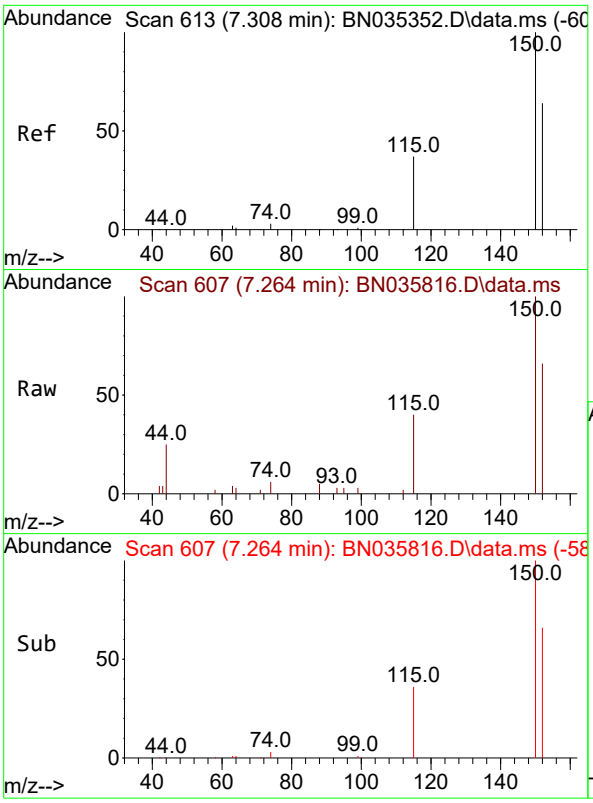
Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035816.D
Acq On : 24 Dec 2024 11:57
Operator : RC/JU
Sample : P5376-03
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
RE115D2-20241218

Quant Time: Dec 24 23:17:25 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



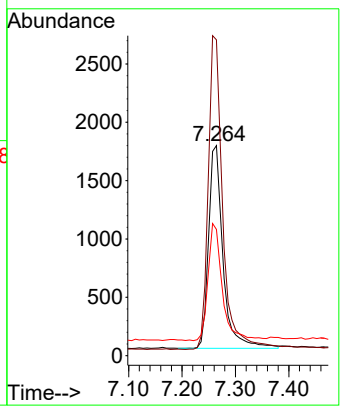


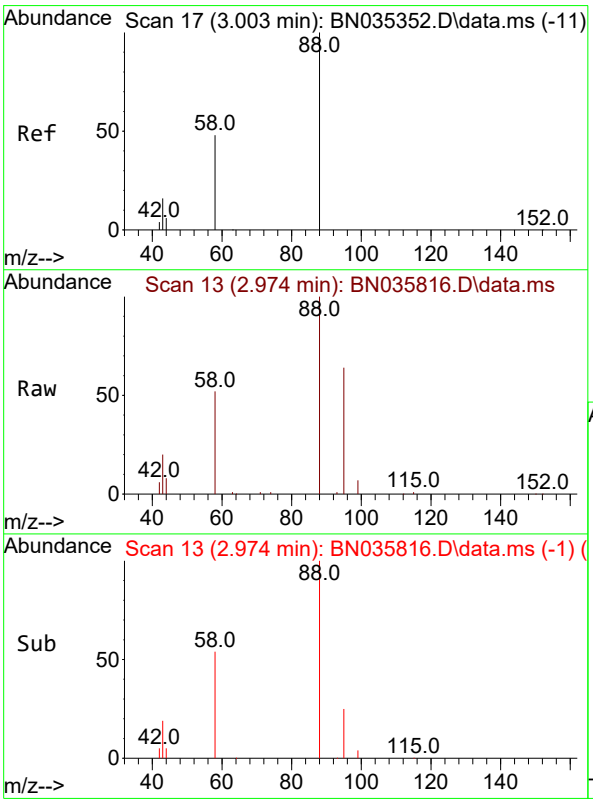

#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.264 min Scan# 6
Delta R.T. -0.008 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

**Instrument :**
BNA_N
**ClientSampleId :**
RE115D2-20241218

Tgt Ion:152 Resp: 3275

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 150.4 | 124.0 | 186.0 |
| 115 | 60.1 | 49.6 | 74.4 |

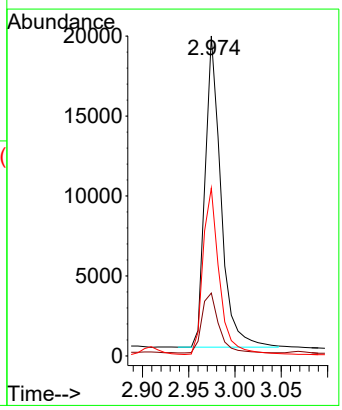


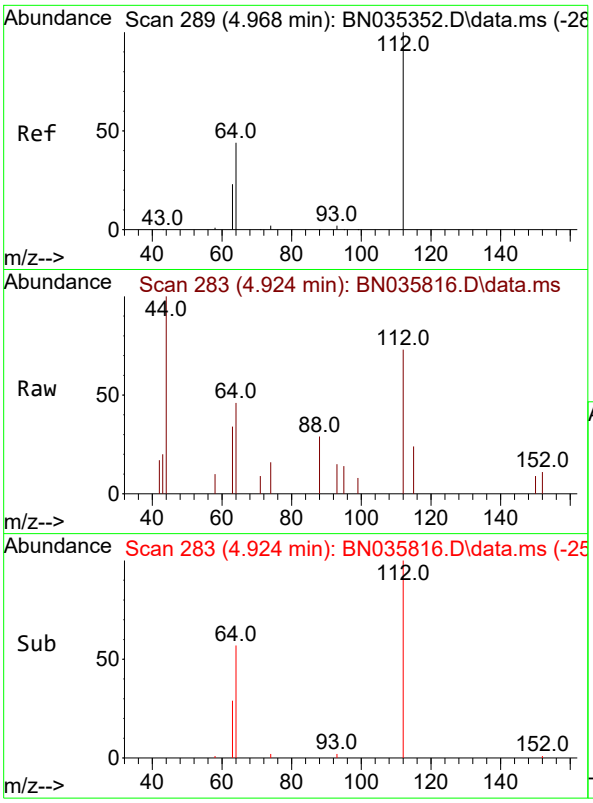




#2
1,4-Dioxane
Concen: 7.403 ng
RT: 2.974 min Scan# 13
Delta R.T. -0.007 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Tgt Ion: 88 Resp: 23179

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 20.6 | 17.2 | 25.8 |
| 58 | 55.1 | 44.5 | 66.7 |



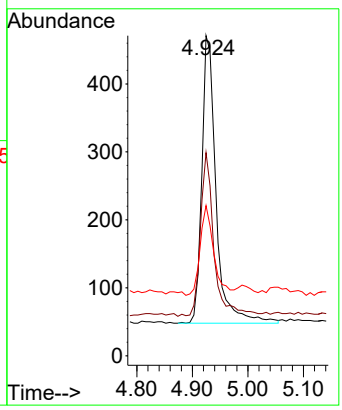


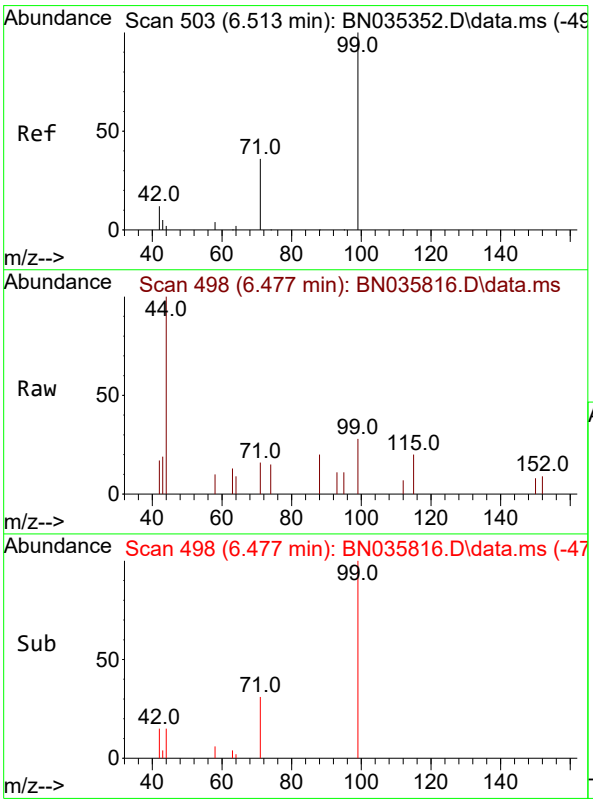

#4
2-Fluorophenol
Concen: 0.092 ng
RT: 4.924 min Scan# 2
Delta R.T. -0.015 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

**Instrument :**
BNA_N
**ClientSampleId :**
RE115D2-20241218

Tgt Ion:112 Resp: 753

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 53.0 | 39.8 | 59.8 |
| 63 | 29.3 | 21.0 | 31.6 |

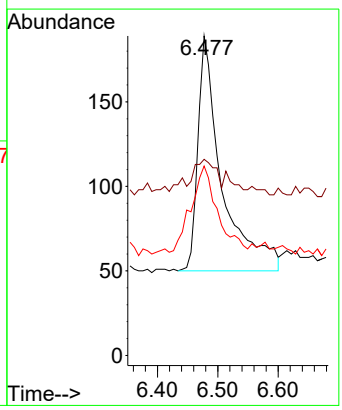


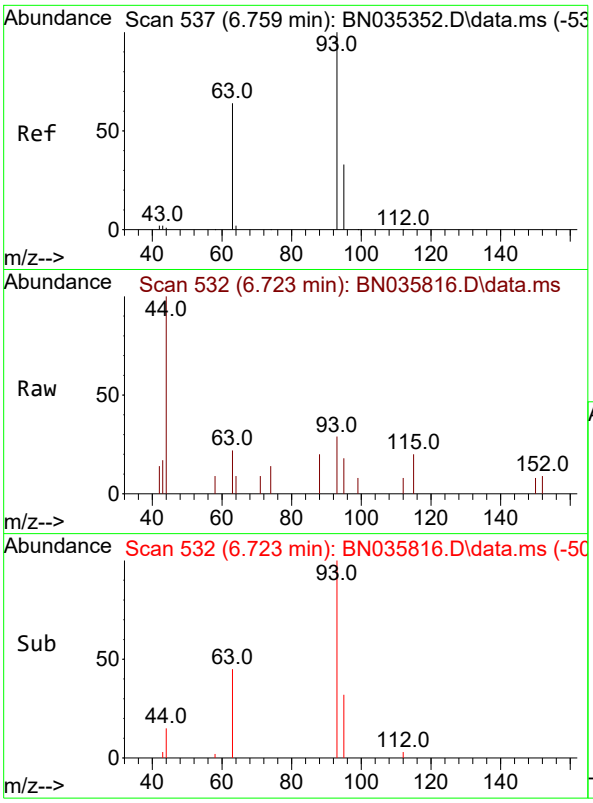




#5
Phenol-d6
Concen: 0.039 ng
RT: 6.477 min Scan# 498
Delta R.T. -0.015 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Tgt Ion: 99 Resp: 383

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 13.8 | 11.4 | 17.2 |
| 71 | 44.4 | 29.3 | 43.9# |



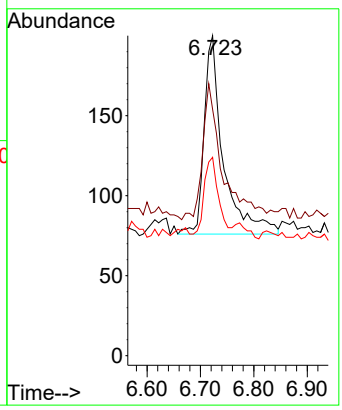


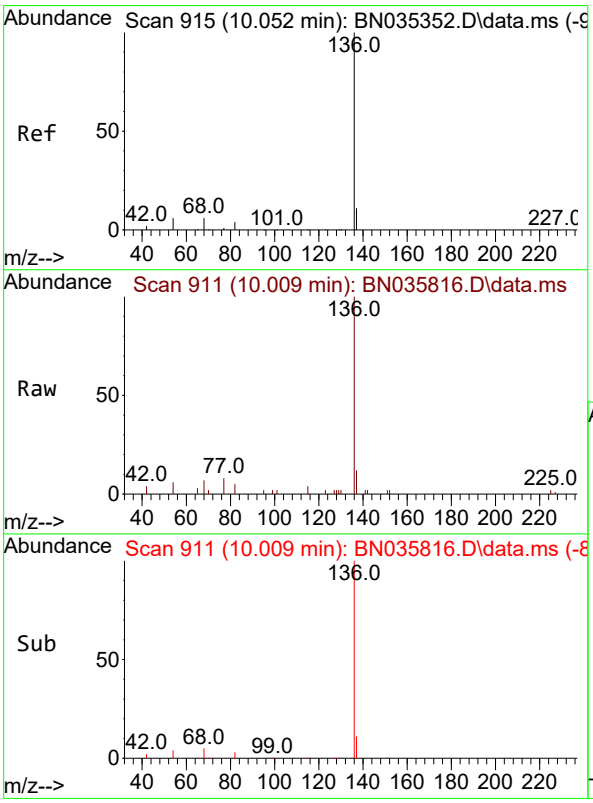

#6
bis(2-Chloroethyl)ether
Concen: 0.037 ng
RT: 6.723 min Scan# 5
Delta R.T. -0.007 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

**Instrument :**
BNA_N
**ClientSampleId :**
RE115D2-20241218

Tgt Ion: 93 Resp: 310

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 70.6 | 50.4 | 75.6 |
| 95 | 31.3 | 25.7 | 38.5 |

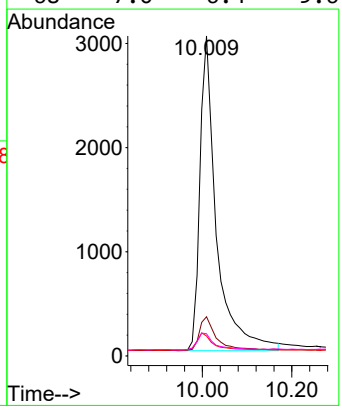


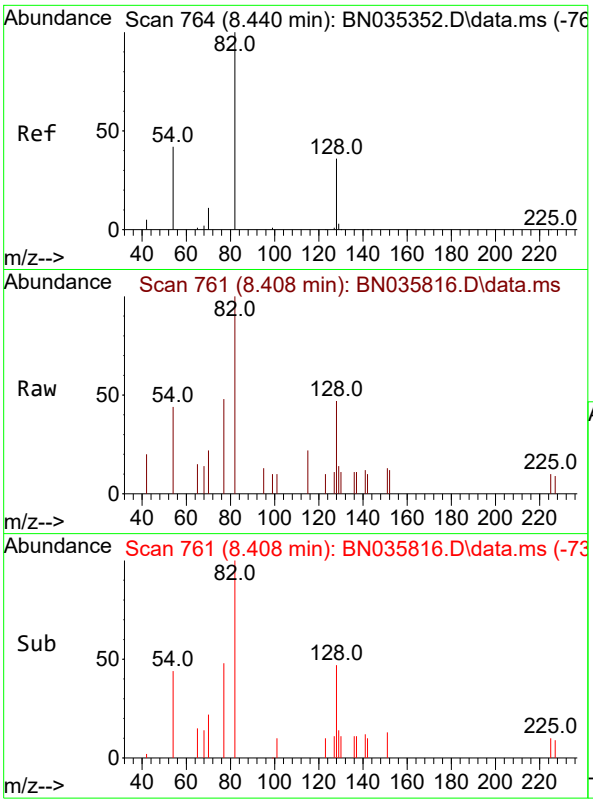




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 911
Delta R.T. -0.011 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Tgt Ion:136 Resp: 7772

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 12.2 | 10.2 | 15.2 |
| 54 | 6.3 | 6.1 | 9.1 |
| 68 | 7.0 | 6.4 | 9.6 |



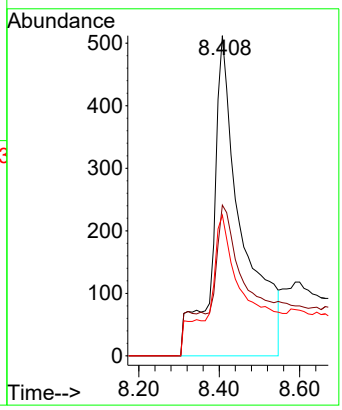


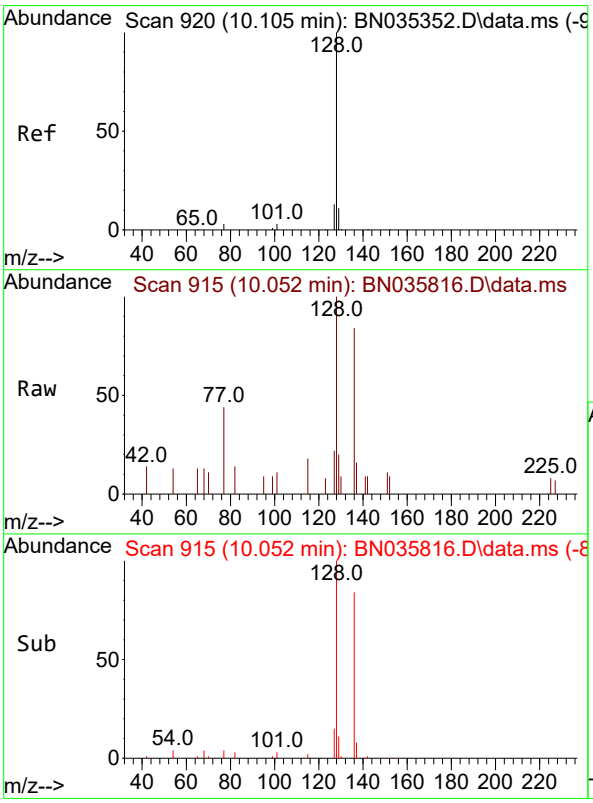

#8
Nitrobenzene-d5
Concen: 0.527 ng
RT: 8.408 min Scan# 7
Delta R.T. -0.000 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

**Instrument :**
BNA_N
**ClientSampleId :**
RE115D2-20241218

Tgt Ion: 82 Resp: 2504

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 47.1 | 33.4 | 50.0 |
| 54 | 43.9 | 36.7 | 55.1 |

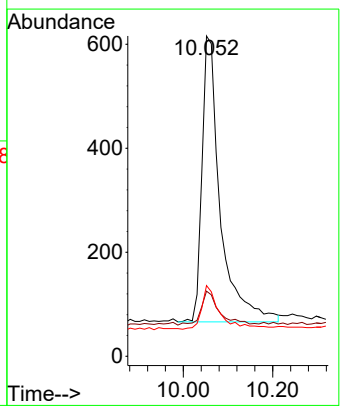


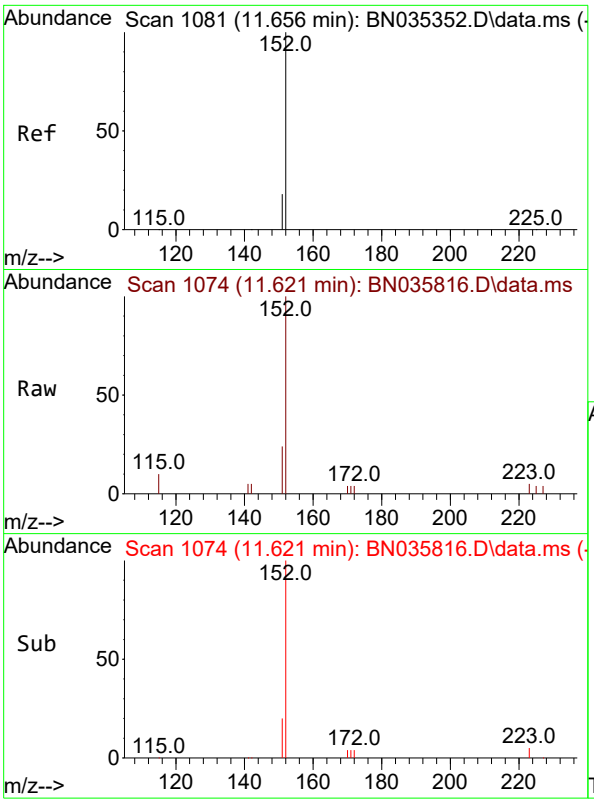




#9
Naphthalene
Concen: 0.076 ng
RT: 10.052 min Scan# 915
Delta R.T. -0.011 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Tgt Ion:128 Resp: 1561

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 20.3 | 9.8 | 14.6# |
| 127 | 22.1 | 11.4 | 17.2# |



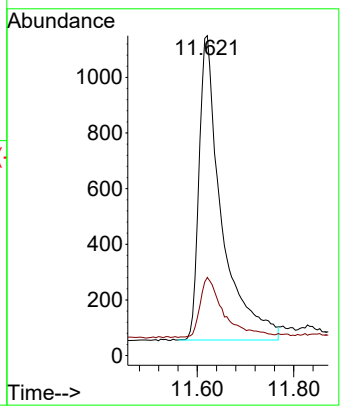


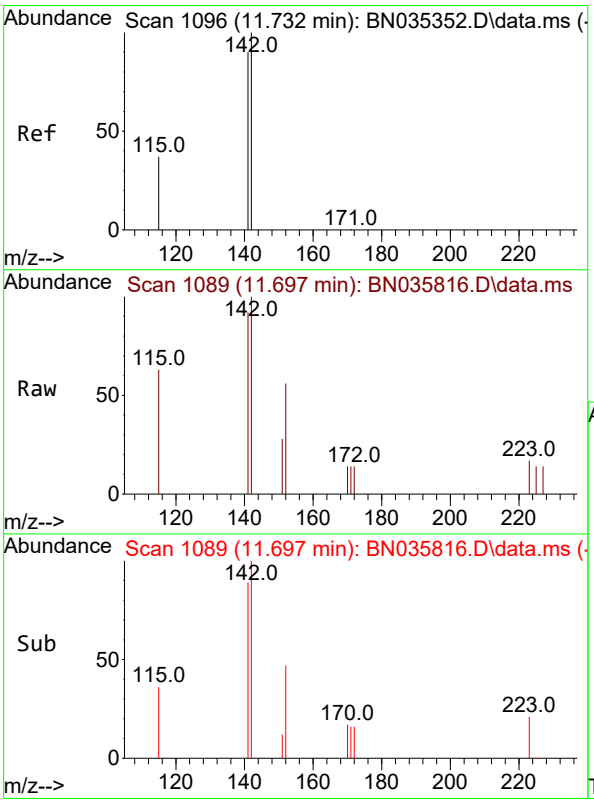

#11
2-Methylnaphthalene-d10
Concen: 0.291 ng
RT: 11.621 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

**Instrument :**
BNA_N
**ClientSampleId :**
RE115D2-20241218

Tgt Ion:152 Resp: 3538

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 21.1 | 16.6 | 25.0 |

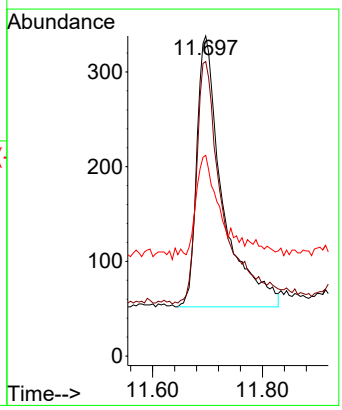


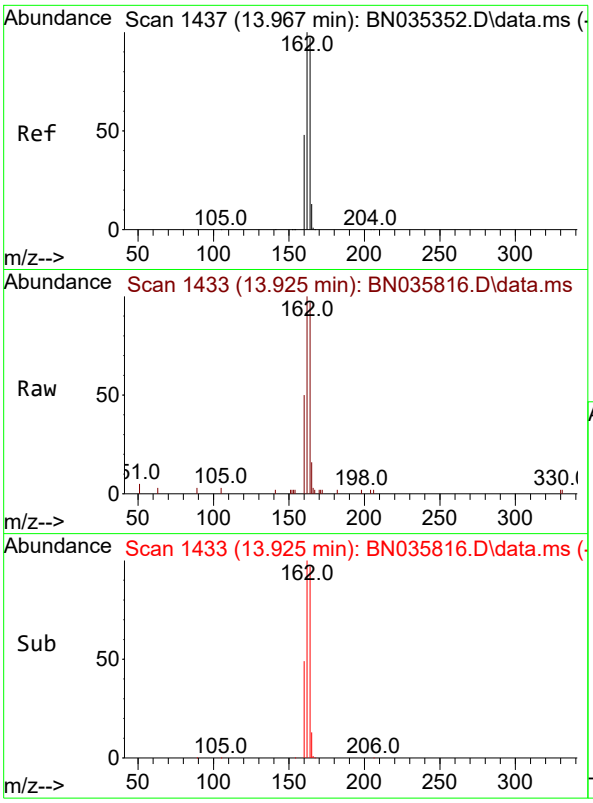




#12
2-Methylnaphthalene
Concen: 0.064 ng
RT: 11.697 min Scan# 1089
Delta R.T. -0.000 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Tgt Ion:142 Resp: 932

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 92.0 | 72.2 | 108.4 |
| 115 | 62.7 | 31.4 | 47.0# |



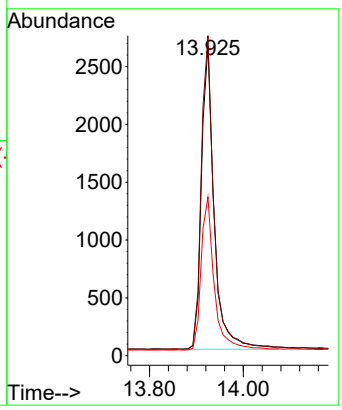


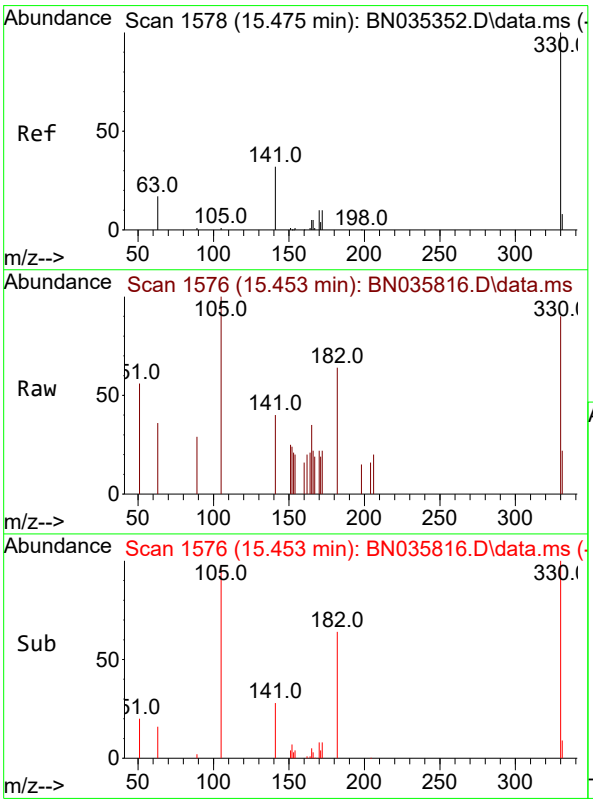

#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.925 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

**Instrument :**
BNA_N
**ClientSampleId :**
RE115D2-20241218

Tgt Ion:164 Resp: 4979

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 103.3 | 82.2 | 123.2 |
| 160 | 51.2 | 40.1 | 60.1 |

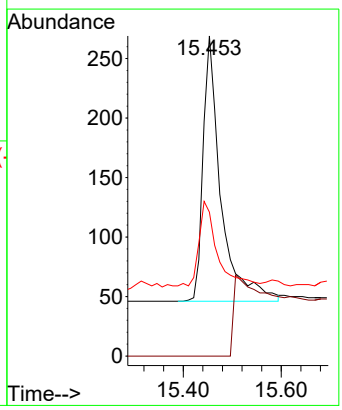


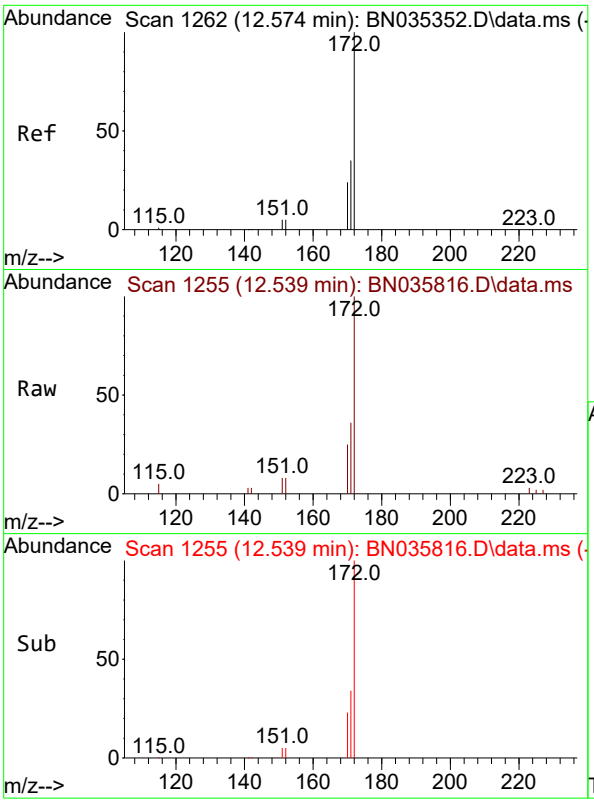




#14
2,4,6-Tribromophenol
Concen: 0.166 ng
RT: 15.453 min Scan# 1576
Delta R.T. -0.000 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Tgt Ion:330 Resp: 586

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 0.0 | 0.0 | 0.0 |
| 141 | 31.6 | 26.6 | 40.0 |



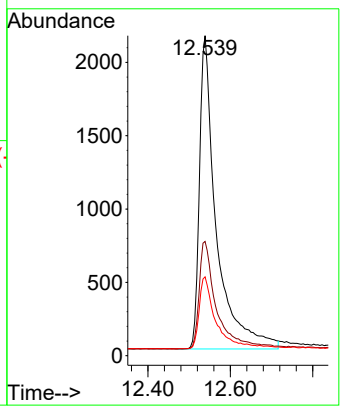


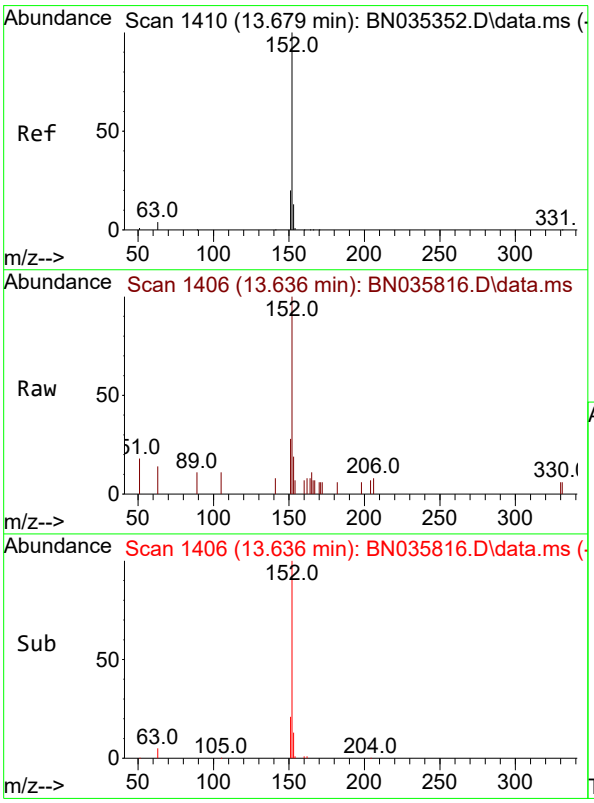

#15
2-Fluorobiphenyl
Concen: 0.325 ng
RT: 12.539 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

**Instrument :**
BNA_N
**ClientSampleId :**
RE115D2-20241218

Tgt Ion:172 Resp: 6110

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 35.7 | 29.0 | 43.4 |
| 170 | 24.7 | 19.8 | 29.8 |

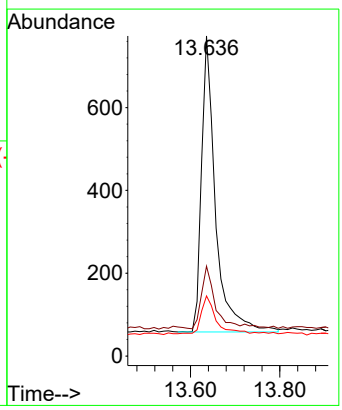


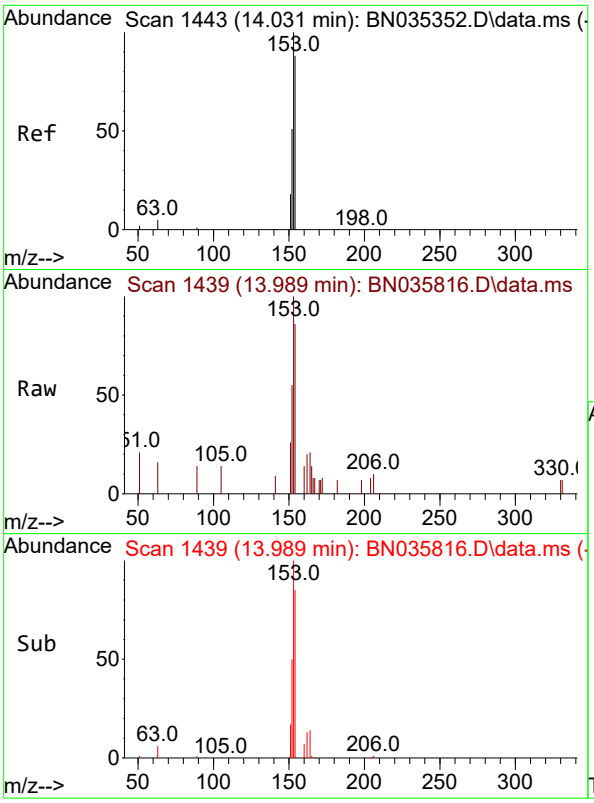




#16
Acenaphthylene
Concen: 0.074 ng
RT: 13.636 min Scan# 1406
Delta R.T. -0.011 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Tgt Ion:152 Resp: 1554

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 21.0 | 16.2 | 24.2 |
| 153 | 13.4 | 10.4 | 15.6 |



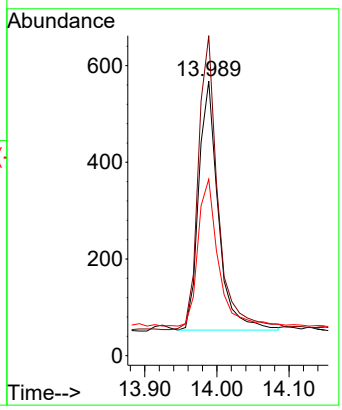


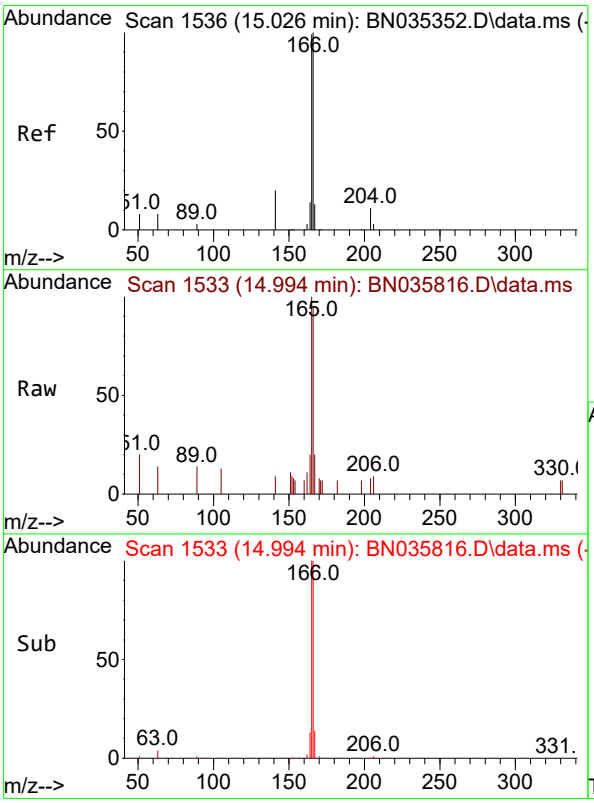

#17
Acenaphthene
Concen: 0.070 ng
RT: 13.989 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

**Instrument :**
BNA_N
**ClientSampleId :**
RE115D2-20241218

Tgt Ion:154 Resp: 972

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 119.9 | 92.6 | 139.0 |
| 152 | 61.5 | 49.0 | 73.6 |

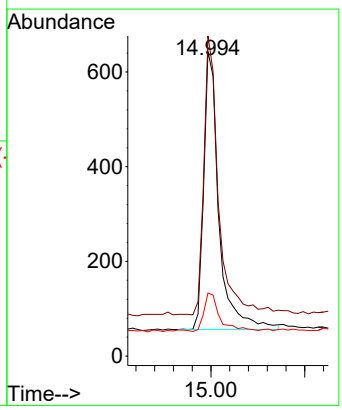


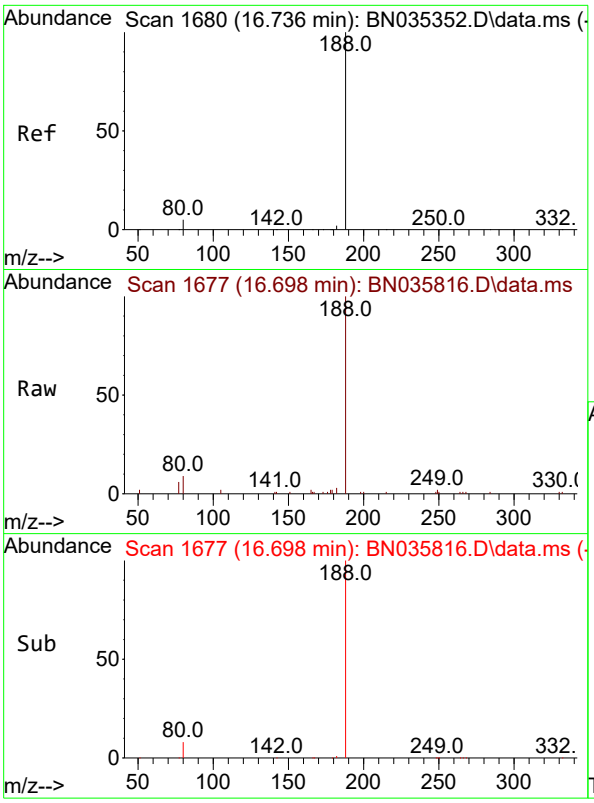




#18
Fluorene
Concen: 0.066 ng
RT: 14.994 min Scan# 1533
Delta R.T. -0.011 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Tgt Ion:166 Resp: 1321

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 97.3 | 79.7 | 119.5 |
| 167 | 14.5 | 10.8 | 16.2 |



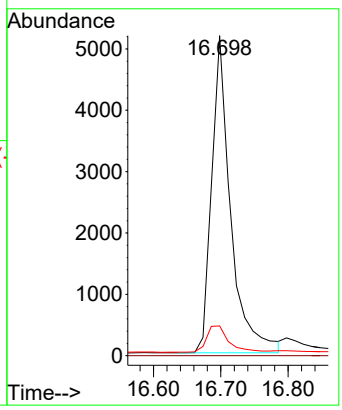


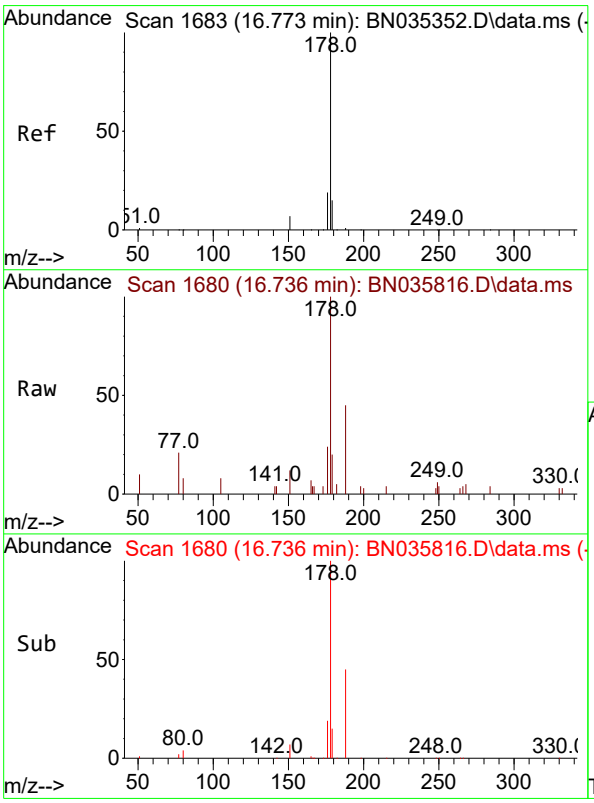

#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

**Instrument :**
BNA_N
**ClientSampleId :**
RE115D2-20241218

Tgt Ion:188 Resp: 10106

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 9.3 | 4.6 | 6.8# |

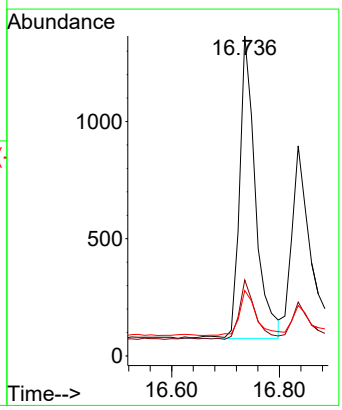


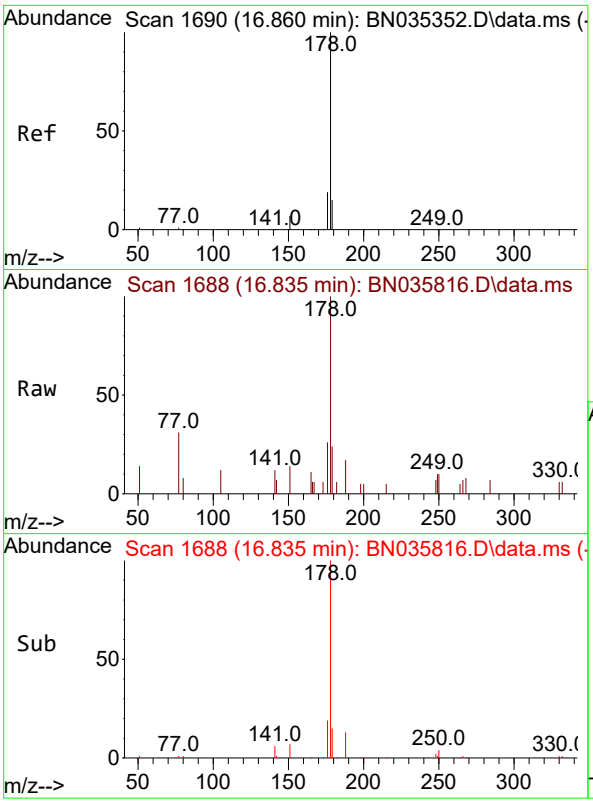




#25
Phenanthrene
Concen: 0.094 ng
RT: 16.736 min Scan# 1680
Delta R.T. -0.013 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Tgt Ion:178 Resp: 2623

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.8 | 15.4 | 23.2 |
| 179 | 15.7 | 12.3 | 18.5 |



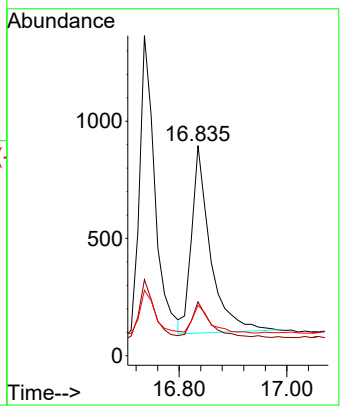


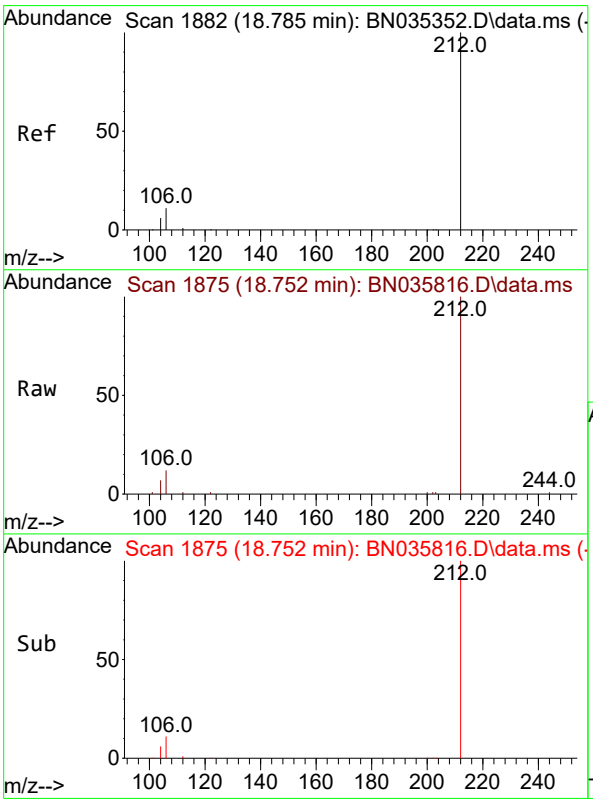

#26
Anthracene
Concen: 0.077 ng
RT: 16.835 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

**Instrument :**
BNA_N
**ClientSampleId :**
RE115D2-20241218

Tgt Ion:178 Resp: 1938

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.3 | 15.0 | 22.6 |
| 179 | 14.3 | 12.6 | 18.8 |

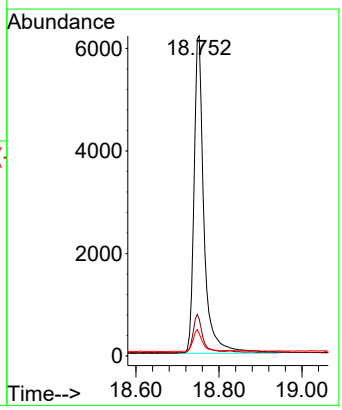


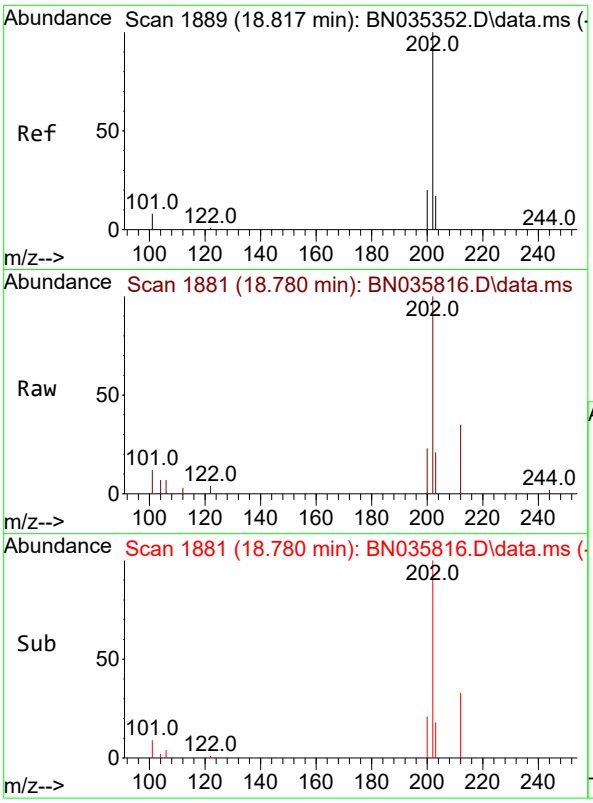




#27
Fluoranthene-d10
Concen: 0.363 ng
RT: 18.752 min Scan# 1875
Delta R.T. -0.009 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Tgt Ion:212 Resp: 10407

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 11.4 | 9.2 | 13.8 |
| 104 | 6.4 | 5.3 | 7.9 |



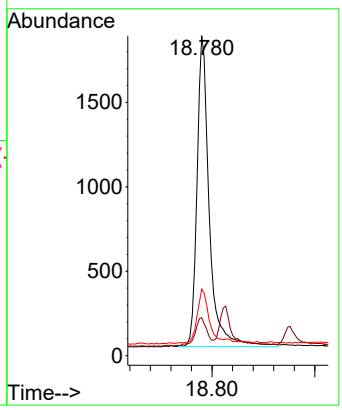


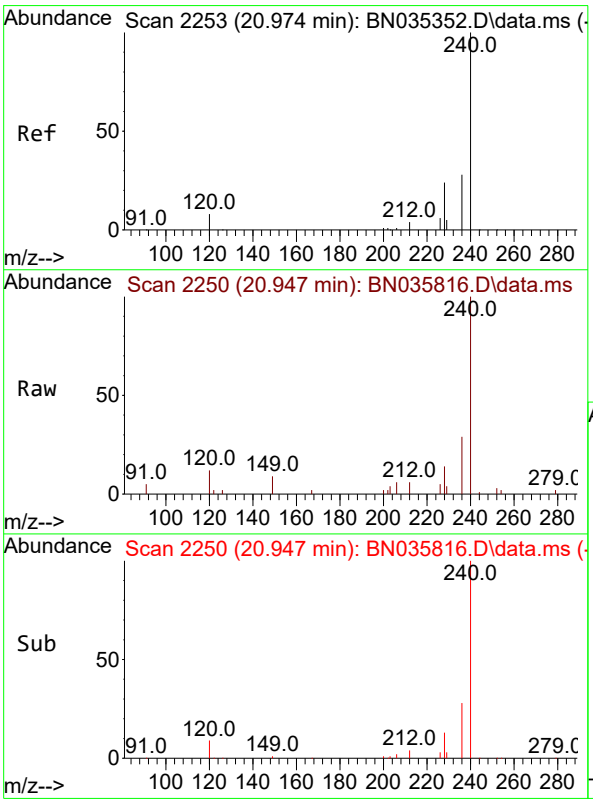

#28
Fluoranthene
Concen: 0.082 ng
RT: 18.780 min Scan# 1
Delta R.T. -0.009 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

**Instrument :**
BNA_N
**ClientSampleId :**
RE115D2-20241218

Tgt Ion:202 Resp: 3054

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 8.8 | 7.4 | 11.0 |
| 203 | 16.4 | 13.7 | 20.5 |

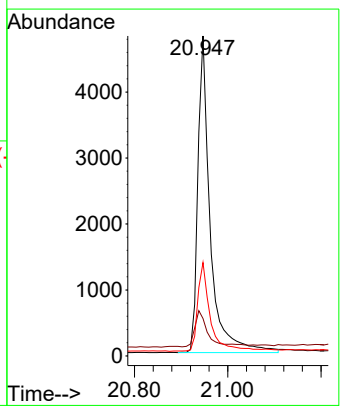


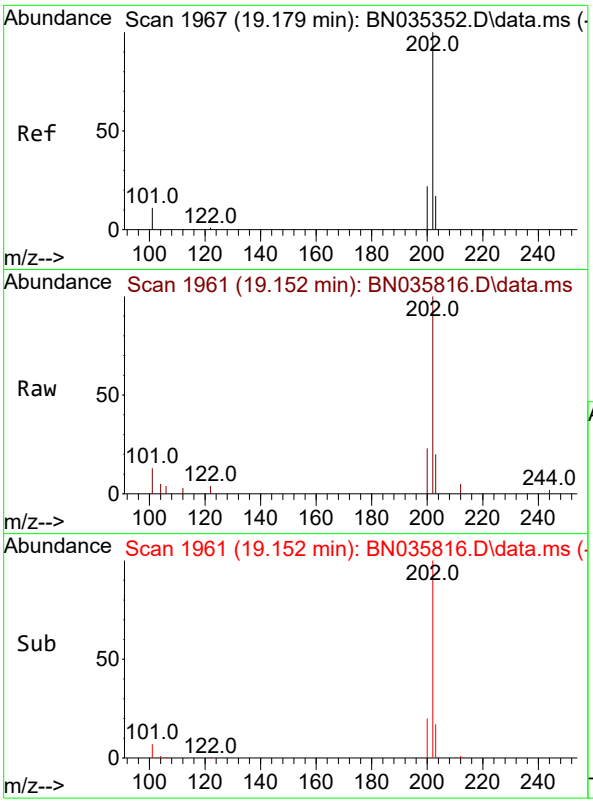




#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2250
Delta R.T. -0.009 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Tgt Ion:240 Resp: 8871

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 11.7 | 7.9 | 11.9 |
| 236 | 29.2 | 22.9 | 34.3 |



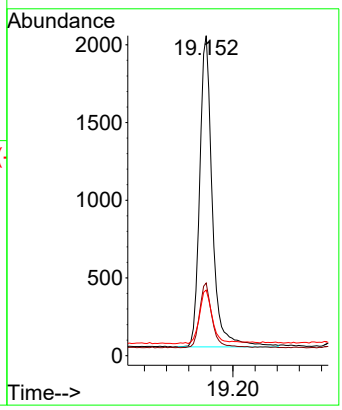


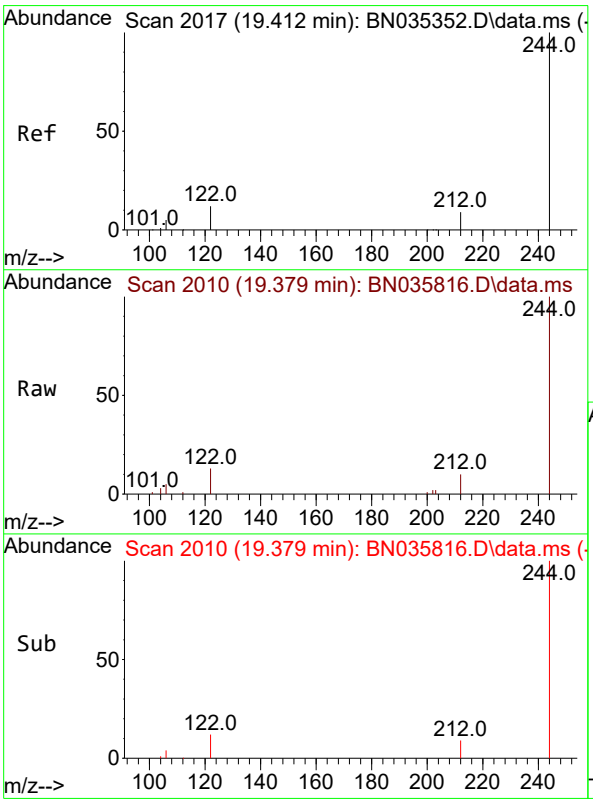

#30
Pyrene
Concen: 0.097 ng
RT: 19.152 min Scan# 1
Delta R.T. -0.009 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

**Instrument :**
BNA_N
**ClientSampleId :**
RE115D2-20241218

Tgt Ion:202 Resp: 3188

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 20.5 | 17.0 | 25.4 |
| 203 | 17.3 | 14.3 | 21.5 |

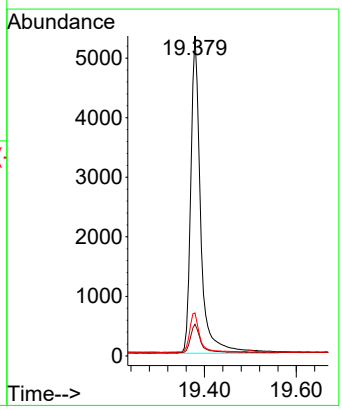


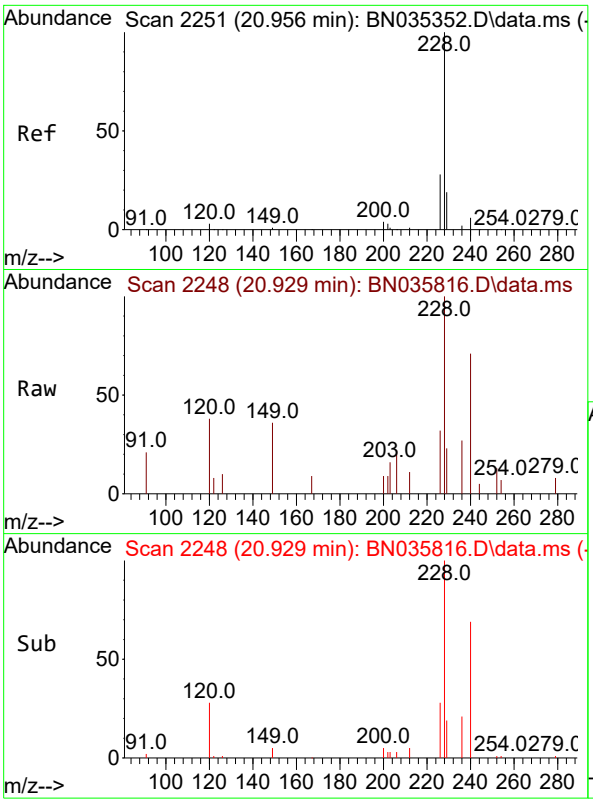




#31
Terphenyl-d14
Concen: 0.459 ng
RT: 19.379 min Scan# 2010
Delta R.T. -0.009 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Tgt Ion:244 Resp: 8030

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 9.9 | 8.1 | 12.1 |
| 122 | 13.5 | 10.3 | 15.5 |



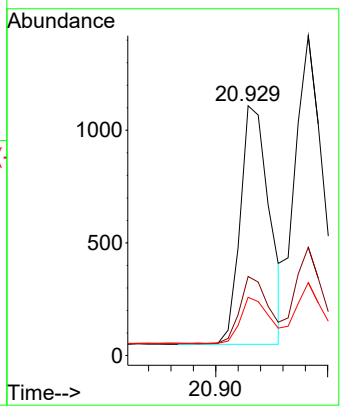


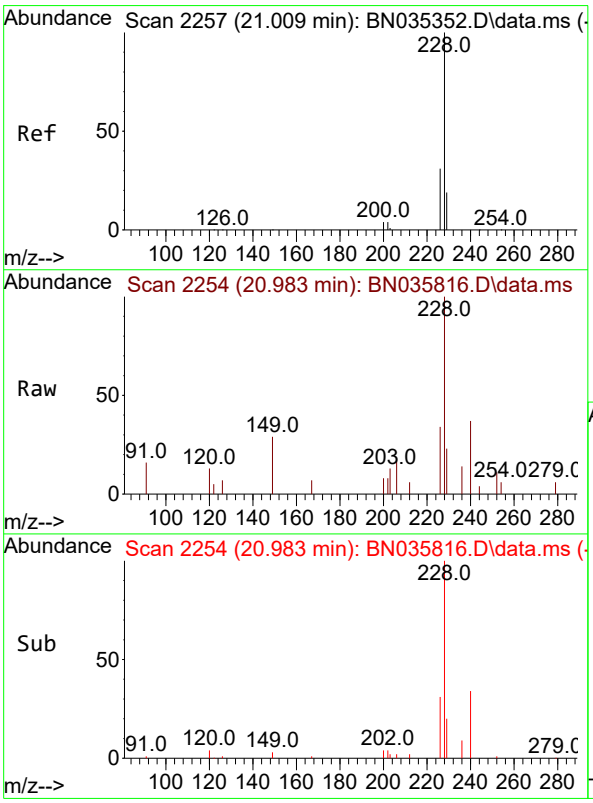

#32
Benzo(a)anthracene
Concen: 0.062 ng
RT: 20.929 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

**Instrument :**
BNA_N
**ClientSampleId :**
RE115D2-20241218

Tgt Ion:228 Resp: 1910

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 31.7 | 22.5 | 33.7 |
| 229 | 23.4 | 15.8 | 23.8 |

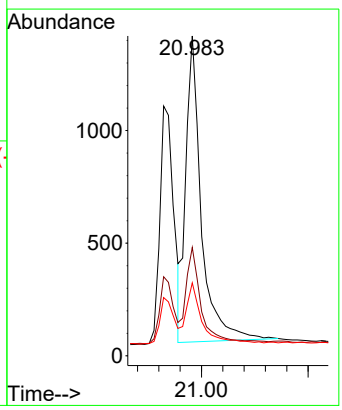


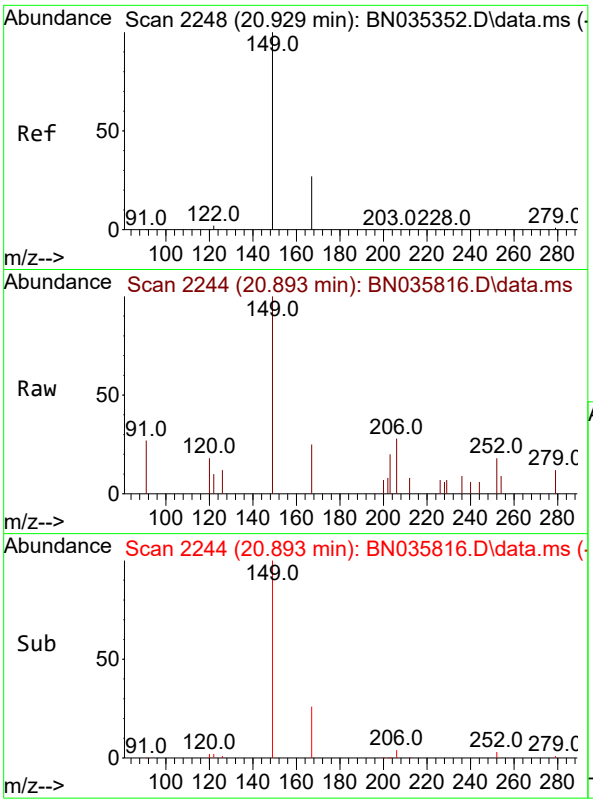




#33
Chrysene
Concen: 0.086 ng
RT: 20.983 min Scan# 2254
Delta R.T. -0.009 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Tgt Ion:228 Resp: 2737

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 33.9 | 24.6 | 37.0 |
| 229 | 22.8 | 15.9 | 23.9 |



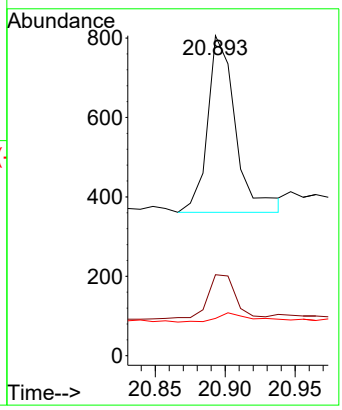


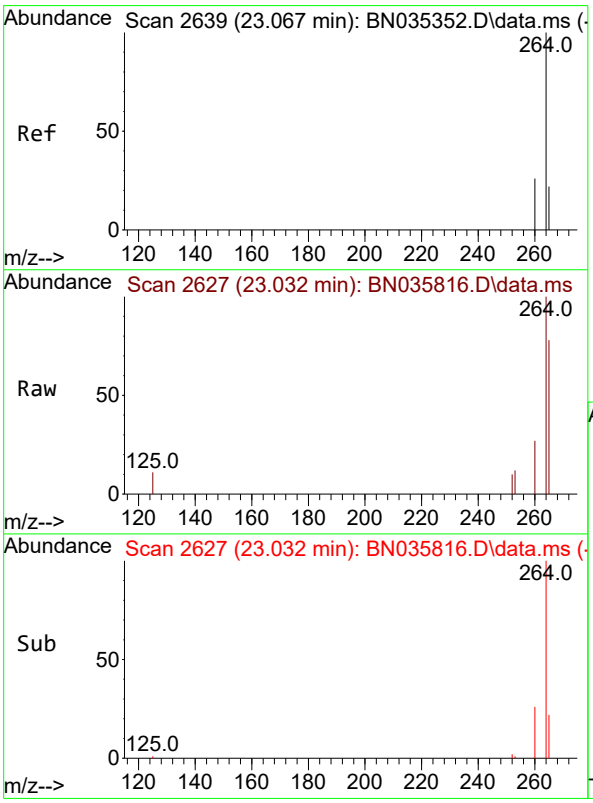

#34
Bis(2-ethylhexyl)phthalate
Concen: 0.051 ng
RT: 20.893 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

**Instrument :**
BNA_N
**ClientSampleId :**
RE115D2-20241218

Tgt Ion:149 Resp: 623

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 24.7 | 22.2 | 33.4 |
| 279 | 6.7 | 2.7 | 4.1# |

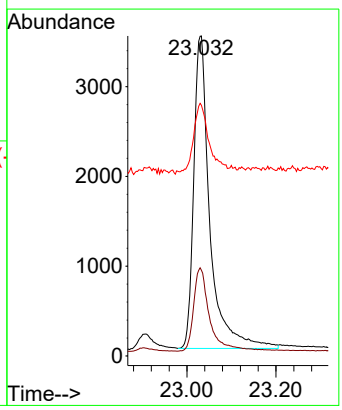


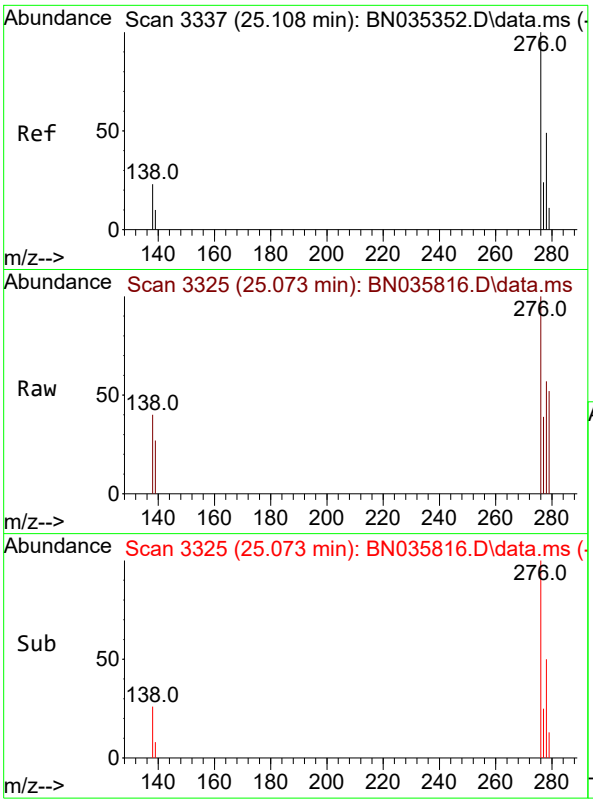




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.032 min Scan# 2627
Delta R.T. -0.009 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Tgt Ion:264 Resp: 8758

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 26.8 | 21.4 | 32.2 |
| 265 | 78.4 | 40.2 | 60.4# |



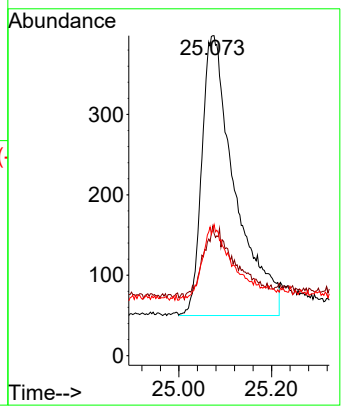


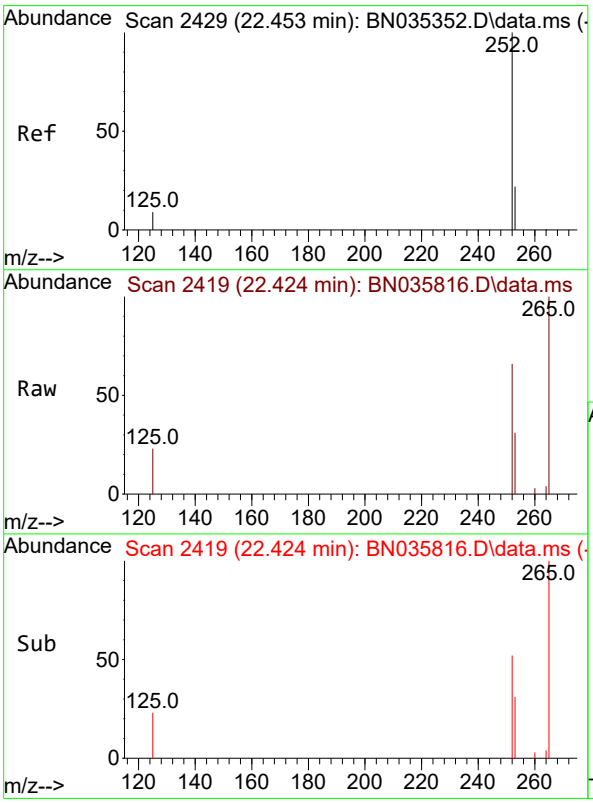

#36
Indeno(1,2,3-cd)pyrene
Concen: 0.050 ng
RT: 25.073 min Scan# 3
Delta R.T. 0.006 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

**Instrument :**
BNA_N
**ClientSampleId :**
RE115D2-20241218

Tgt Ion:276 Resp: 1728

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 10.1 | 19.4 | 29.0# |
| 277 | 7.3 | 19.8 | 29.6# |

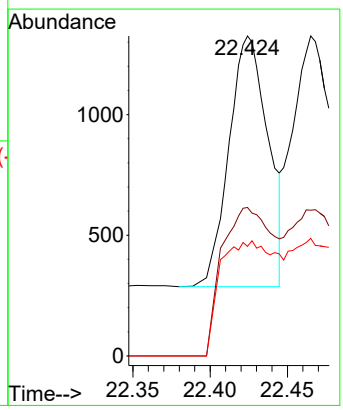


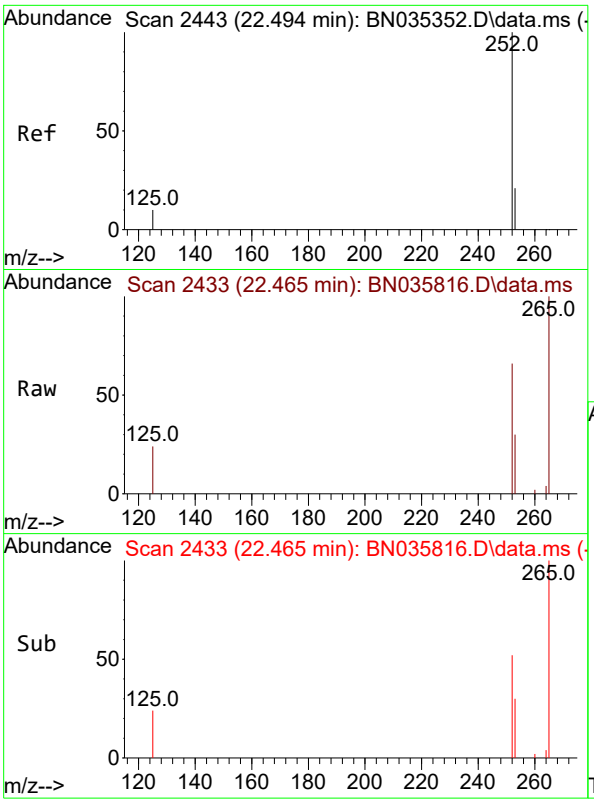




#37
Benzo(b)fluoranthene
Concen: 0.076 ng
RT: 22.424 min Scan# 2419
Delta R.T. -0.006 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Tgt Ion:252 Resp: 2429

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 46.4 | 19.6 | 29.4# |
| 125 | 34.2 | 9.6 | 14.4# |



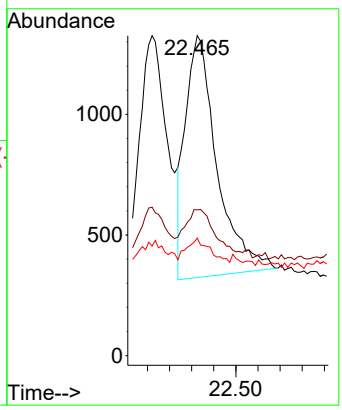


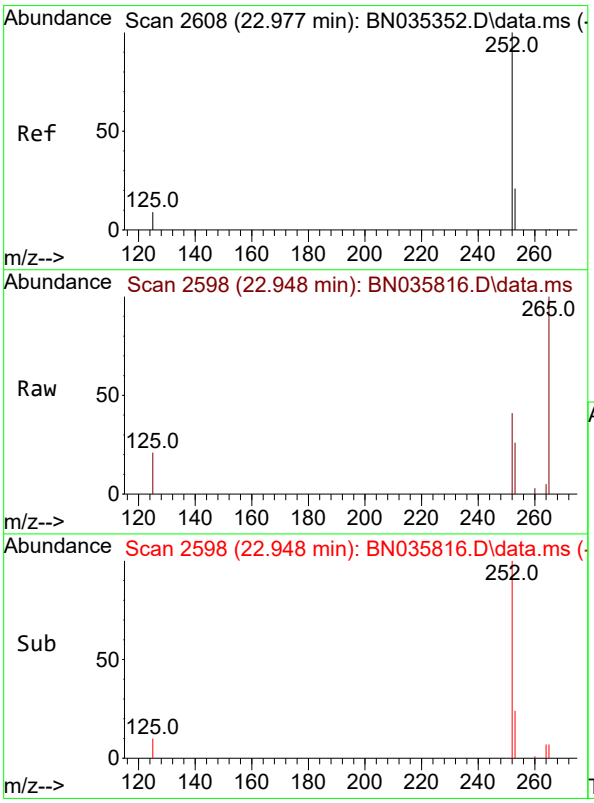

#38
Benzo(k)fluoranthene
Concen: 0.063 ng
RT: 22.465 min Scan# 24
Delta R.T. -0.006 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

**Instrument :**
BNA_N
**ClientSampleId :**
RE115D2-20241218

Tgt Ion:252 Resp: 1987

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 45.6 | 19.5 | 29.3# |
| 125 | 36.7 | 10.2 | 15.4# |

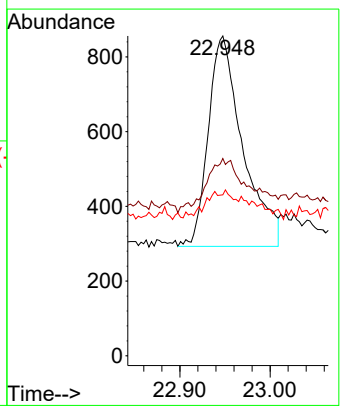


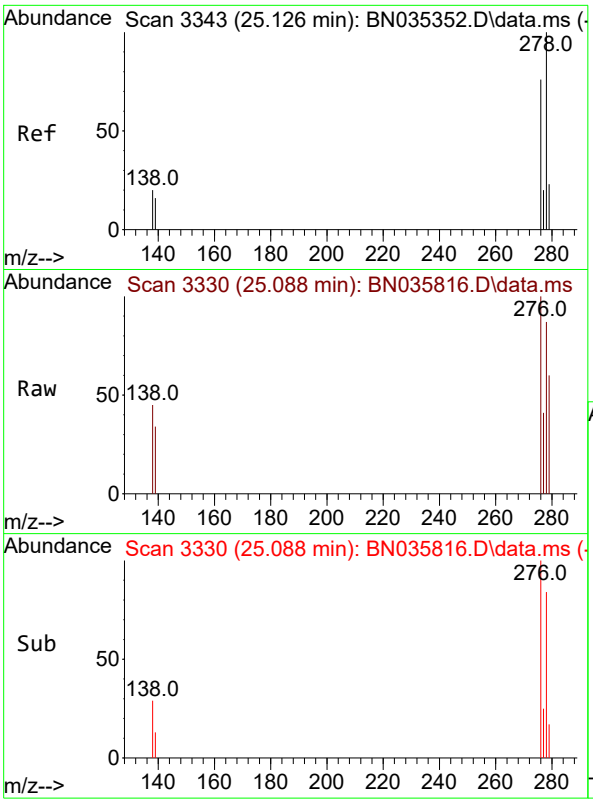




#39
Benzo(a)pyrene
Concen: 0.057 ng
RT: 22.948 min Scan# 2598
Delta R.T. -0.003 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Tgt Ion:252 Resp: 1503

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 61.7 | 20.2 | 30.4# |
| 125 | 50.4 | 10.9 | 16.3# |



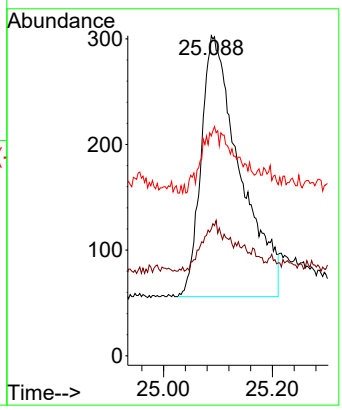


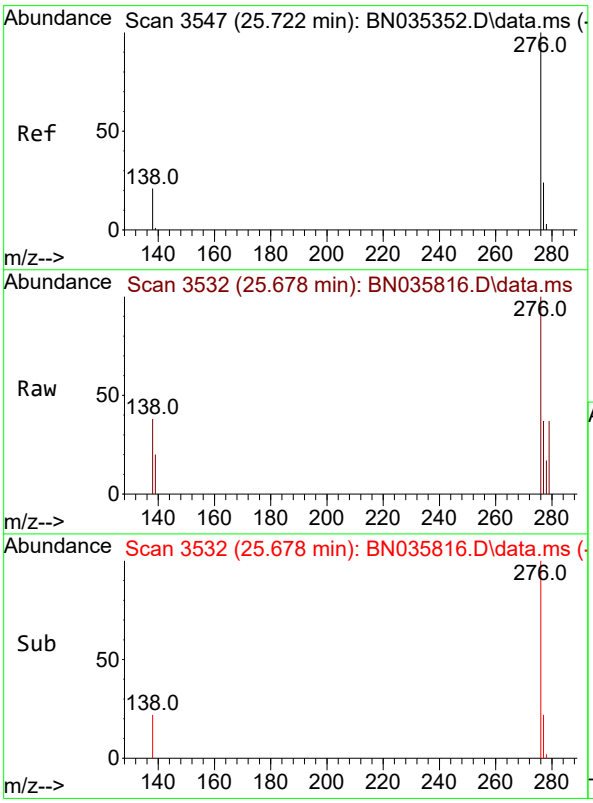

#40
Dibenzo(a,h)anthracene
Concen: 0.045 ng
RT: 25.088 min Scan# 3
Delta R.T. 0.006 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

**Instrument :**
BNA_N
**ClientSampleId :**
RE115D2-20241218

Tgt Ion:278 Resp: 1220

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 39.6 | 14.2 | 21.4# |
| 279 | 68.6 | 20.5 | 30.7# |

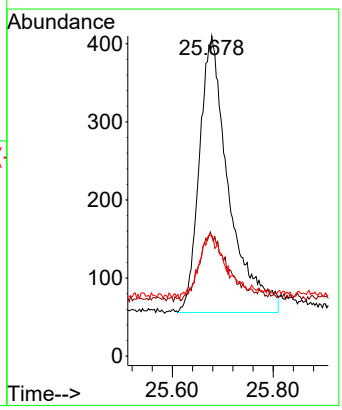



#41
Benzo(g,h,i)perylene
Concen: 0.051 ng
RT: 25.678 min Scan# 3532
Delta R.T. -0.000 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Tgt Ion:276 Resp: 1434

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 37.3 | 19.9 | 29.9# |
| 138 | 37.8 | 17.8 | 26.8# |



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035817.D
Acq On : 24 Dec 2024 12:33
Operator : RC/JU
Sample : P5376-04
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
TT149S1-20241218

Quant Time: Dec 24 23:17:43 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

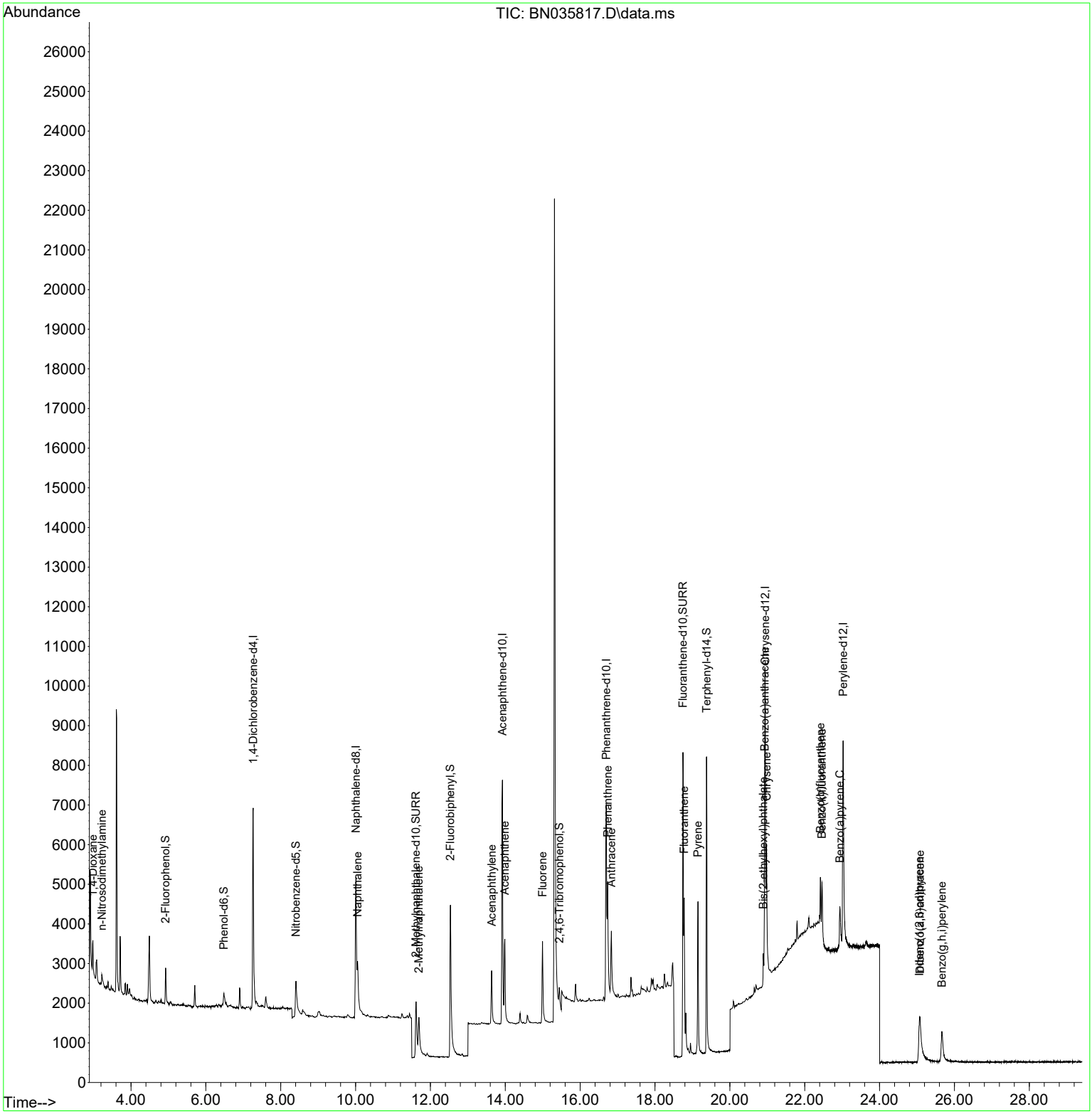
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.264 | 152 | 2882 | 0.400 | ng | 0.00 |
| 7) Naphthalene-d8 | 10.009 | 136 | 6877 | 0.400 | ng | -0.01 |
| 13) Acenaphthene-d10 | 13.925 | 164 | 4352 | 0.400 | ng | -0.01 |
| 19) Phenanthrene-d10 | 16.698 | 188 | 9250 | 0.400 | ng | # 0.00 |
| 29) Chrysene-d12 | 20.947 | 240 | 8129 | 0.400 | ng | 0.00 |
| 35) Perylene-d12 | 23.027 | 264 | 8126 | 0.400 | ng | #-0.01 |
| System Monitoring Compounds | | | | | | |
| 4) 2-Fluorophenol | 4.924 | 112 | 816 | 0.113 | ng | -0.01 |
| 5) Phenol-d6 | 6.477 | 99 | 466 | 0.054 | ng | -0.01 |
| 8) Nitrobenzene-d5 | 8.408 | 82 | 2530 | 0.602 | ng | 0.00 |
| 11) 2-Methylnaphthalene-d10 | 11.616 | 152 | 3542 | 0.329 | ng | 0.00 |
| 14) 2,4,6-Tribromophenol | 15.443 | 330 | 609 | 0.197 | ng | -0.01 |
| 15) 2-Fluorobiphenyl | 12.534 | 172 | 5853 | 0.356 | ng | -0.01 |
| 27) Fluoranthene-d10 | 18.748 | 212 | 10238 | 0.390 | ng | -0.01 |
| 31) Terphenyl-d14 | 19.379 | 244 | 8867 | 0.553 | ng | 0.00 |
| Target Compounds | | | | | | Qvalue |
| 2) 1,4-Dioxane | 2.982 | 88 | 759 | 0.275 | ng | # 85 |
| 3) n-Nitrosodimethylamine | 3.220 | 42 | 64 | 0.028 | ng | # 1 |
| 9) Naphthalene | 10.052 | 128 | 1895 | 0.104 | ng | # 86 |
| 12) 2-Methylnaphthalene | 11.692 | 142 | 1157 | 0.089 | ng | # 90 |
| 16) Acenaphthylene | 13.636 | 152 | 1924 | 0.105 | ng | 98 |
| 17) Acenaphthene | 13.989 | 154 | 1204 | 0.099 | ng | 99 |
| 18) Fluorene | 14.994 | 166 | 1680 | 0.097 | ng | 99 |
| 25) Phenanthrene | 16.736 | 178 | 3237 | 0.127 | ng | 100 |
| 26) Anthracene | 16.835 | 178 | 2442 | 0.106 | ng | 98 |
| 28) Fluoranthene | 18.780 | 202 | 3731 | 0.109 | ng | 99 |
| 30) Pyrene | 19.147 | 202 | 4005 | 0.133 | ng | 99 |
| 32) Benzo(a)anthracene | 20.929 | 228 | 2676 | 0.094 | ng | 95 |
| 33) Chrysene | 20.983 | 228 | 3497 | 0.119 | ng | 97 |
| 34) Bis(2-ethylhexyl)phtha... | 20.893 | 149 | 786 | 0.070 | ng | # 98 |
| 36) Indeno(1,2,3-cd)pyrene | 25.064 | 276 | 2211 | 0.070 | ng | 99 |
| 37) Benzo(b)fluoranthene | 22.421 | 252 | 3364 | 0.113 | ng | # 65 |
| 38) Benzo(k)fluoranthene | 22.462 | 252 | 2940 | 0.100 | ng | # 60 |
| 39) Benzo(a)pyrene | 22.942 | 252 | 2085 | 0.085 | ng | # 38 |
| 40) Dibenzo(a,h)anthracene | 25.079 | 278 | 1701 | 0.068 | ng | # 44 |
| 41) Benzo(g,h,i)perylene | 25.667 | 276 | 1967 | 0.075 | ng | # 84 |

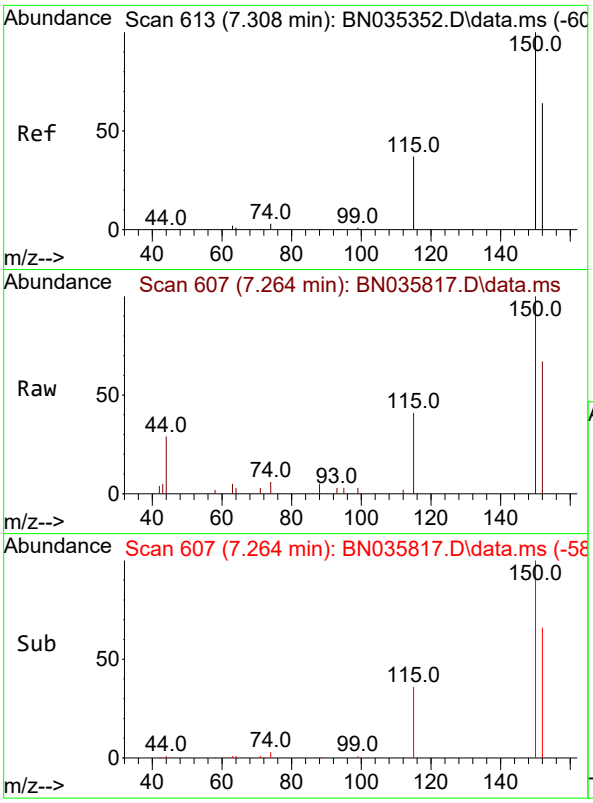
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035817.D
Acq On : 24 Dec 2024 12:33
Operator : RC/JU
Sample : P5376-04
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
TT149S1-20241218

Quant Time: Dec 24 23:17:43 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



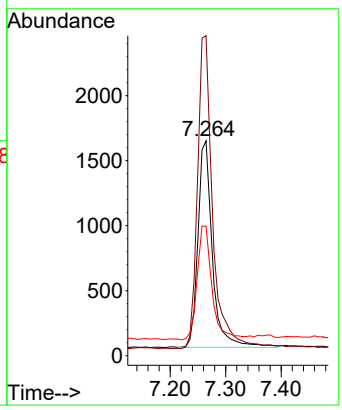


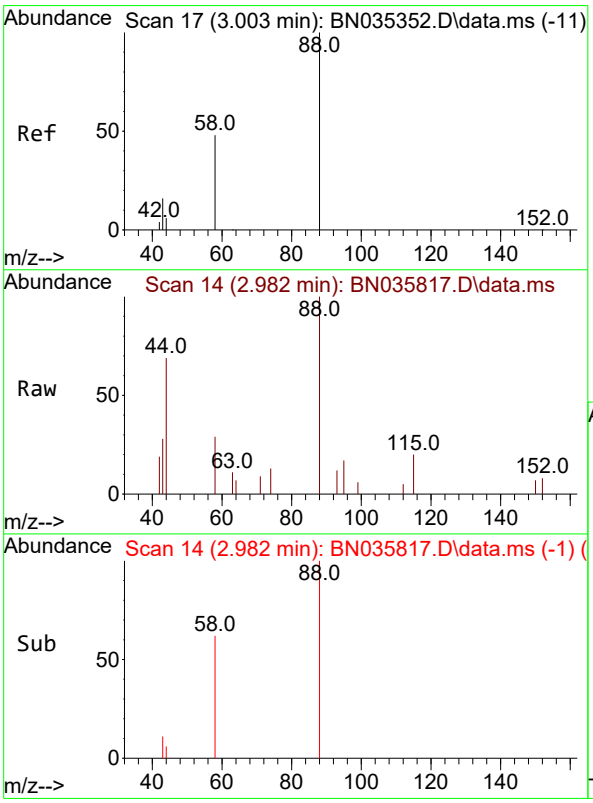

#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.264 min Scan# 6
Delta R.T. -0.008 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

**Instrument :**
BNA_N
**ClientSampleId :**
TT149S1-20241218

Tgt Ion:152 Resp: 2882

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 148.9 | 124.0 | 186.0 |
| 115 | 60.3 | 49.6 | 74.4 |

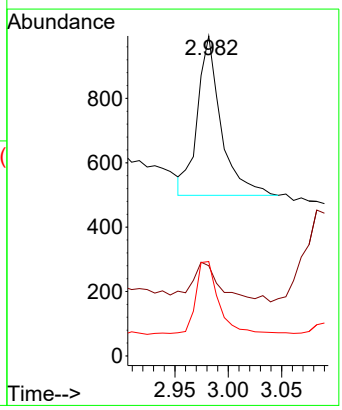


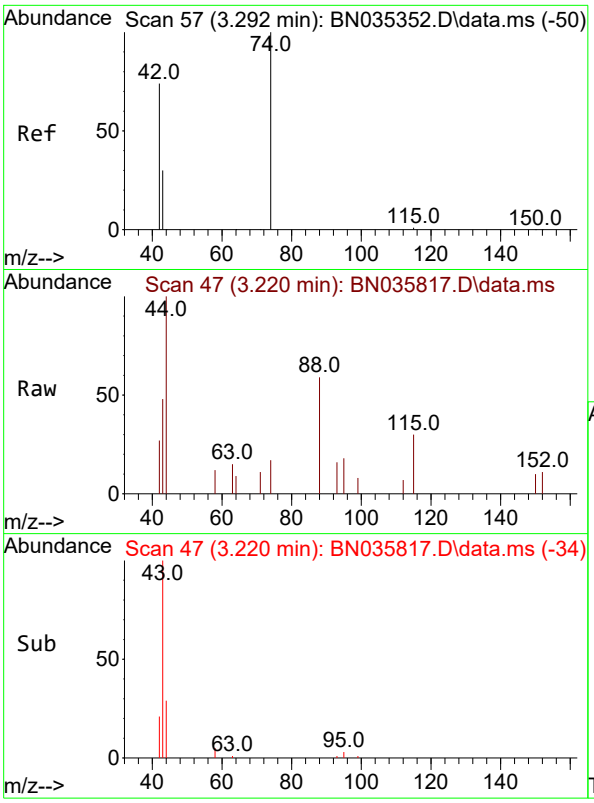




#2
1,4-Dioxane
Concen: 0.275 ng
RT: 2.982 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

Tgt Ion: 88 Resp: 759

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 31.1 | 17.2 | 25.8# |
| 58 | 45.8 | 44.5 | 66.7 |



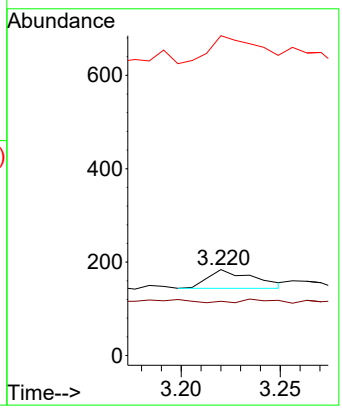


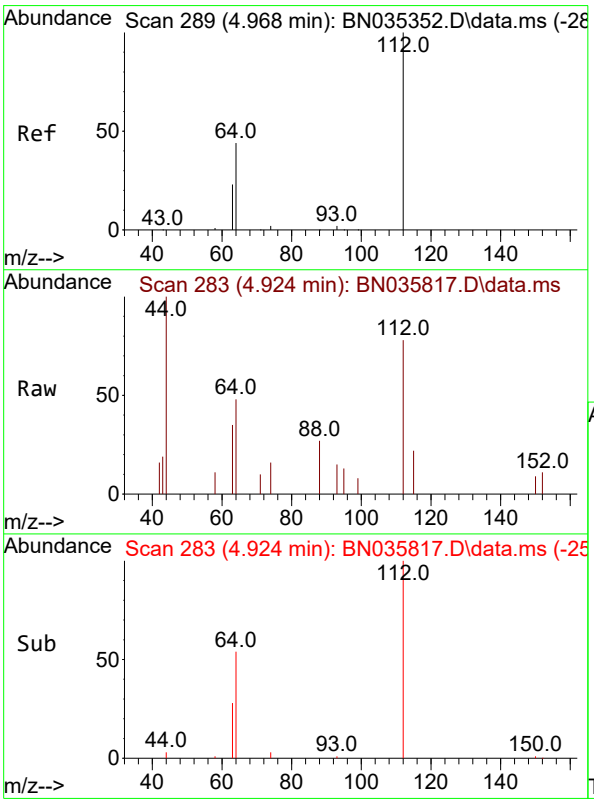

#3
n-Nitrosodimethylamine
Concen: 0.028 ng
RT: 3.220 min Scan# 4
Delta R.T. -0.058 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

**Instrument :**
BNA_N
**ClientSampleId :**
TT149S1-20241218

Tgt Ion: 42 Resp: 64

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 17.2 | 124.9 | 187.3# |
| 44 | 159.4 | 2.2 | 3.4# |

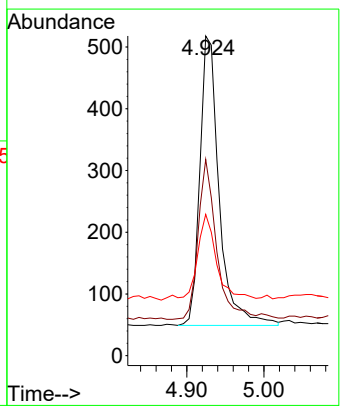


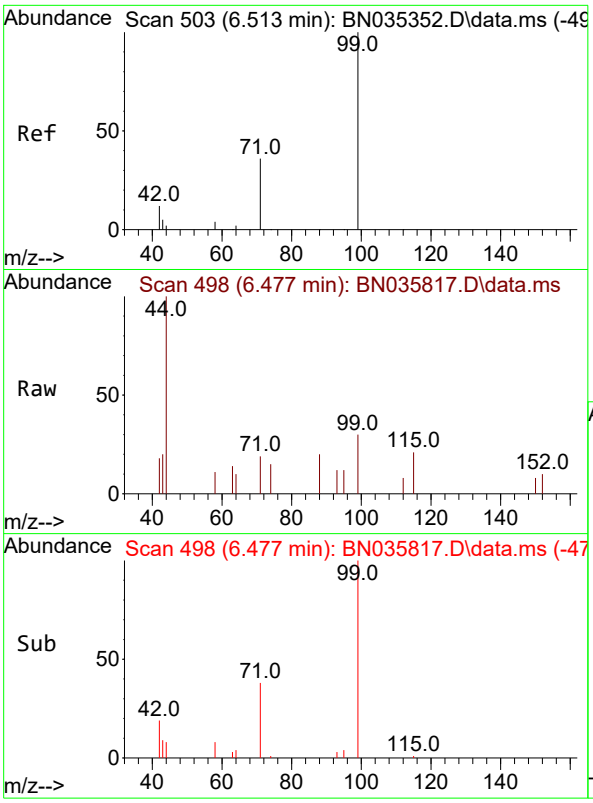




#4
2-Fluorophenol
Concen: 0.113 ng
RT: 4.924 min Scan# 283
Delta R.T. -0.014 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

Tgt Ion:112 Resp: 816

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 52.1 | 39.8 | 59.8 |
| 63 | 30.0 | 21.0 | 31.6 |



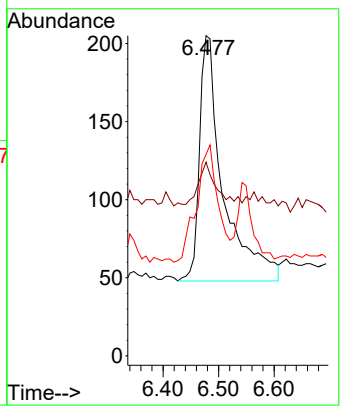


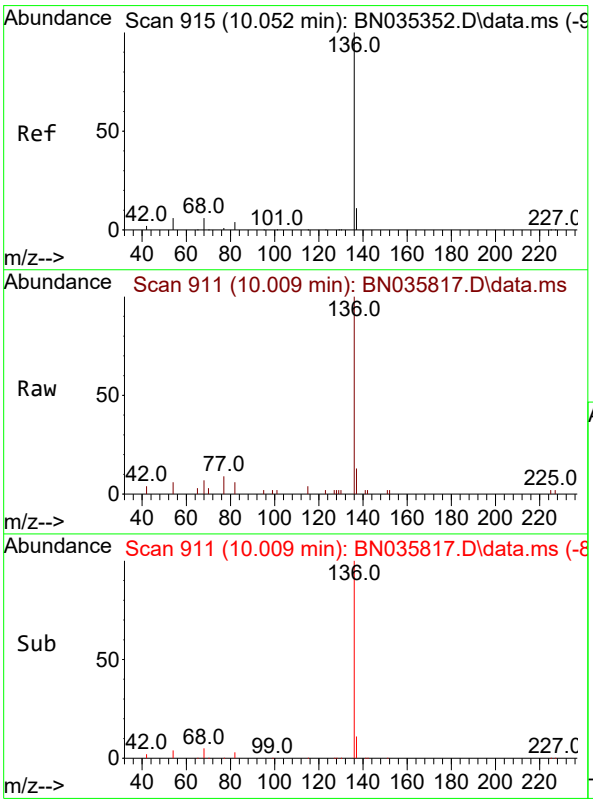

#5
Phenol-d6
Concen: 0.054 ng
RT: 6.477 min Scan# 4
Delta R.T. -0.014 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

**Instrument :**
BNA_N
**ClientSampleId :**
TT149S1-20241218

Tgt Ion: 99 Resp: 466

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 12.9 | 11.4 | 17.2 |
| 71 | 43.6 | 29.3 | 43.9 |

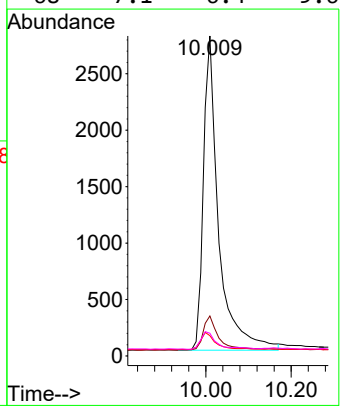


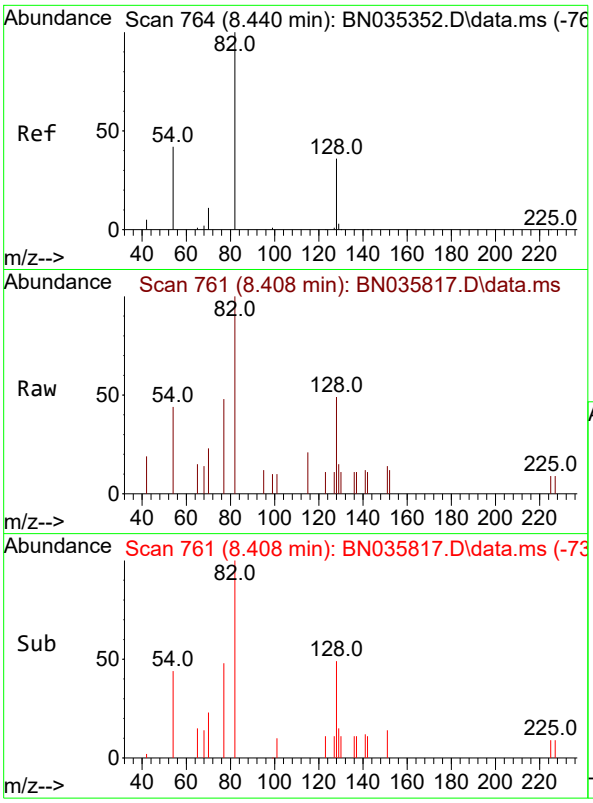




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 911
Delta R.T. -0.011 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

Tgt Ion:136 Resp: 6877

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 12.5 | 10.2 | 15.2 |
| 54 | 6.3 | 6.1 | 9.1 |
| 68 | 7.1 | 6.4 | 9.6 |



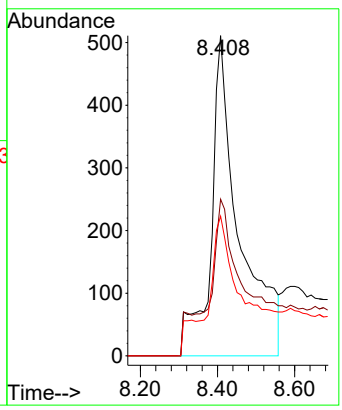


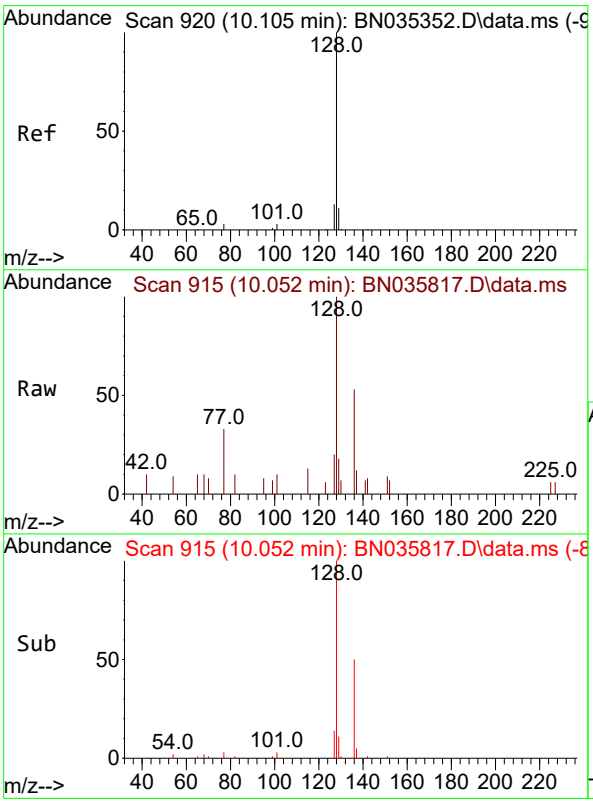

#8
Nitrobenzene-d5
Concen: 0.602 ng
RT: 8.408 min Scan# 7
Delta R.T. -0.000 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

**Instrument :**
BNA_N
**ClientSampleId :**
TT149S1-20241218

Tgt Ion: 82 Resp: 2530

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 48.9 | 33.4 | 50.0 |
| 54 | 43.6 | 36.7 | 55.1 |

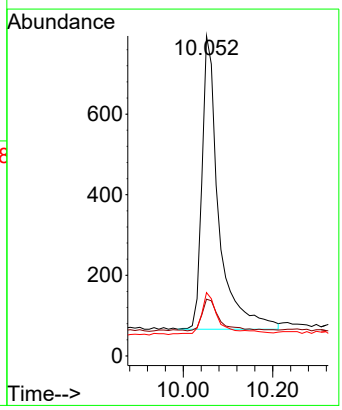


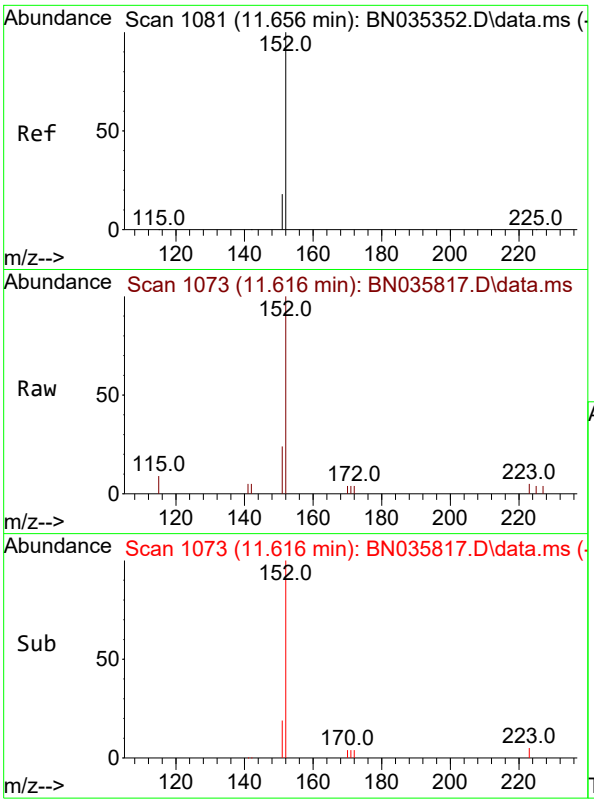




#9
Naphthalene
Concen: 0.104 ng
RT: 10.052 min Scan# 915
Delta R.T. -0.011 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

Tgt Ion:128 Resp: 1895

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 17.8 | 9.8 | 14.6# |
| 127 | 19.8 | 11.4 | 17.2# |



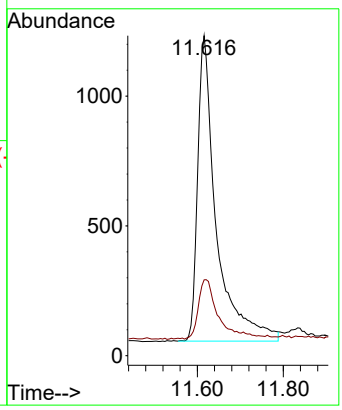


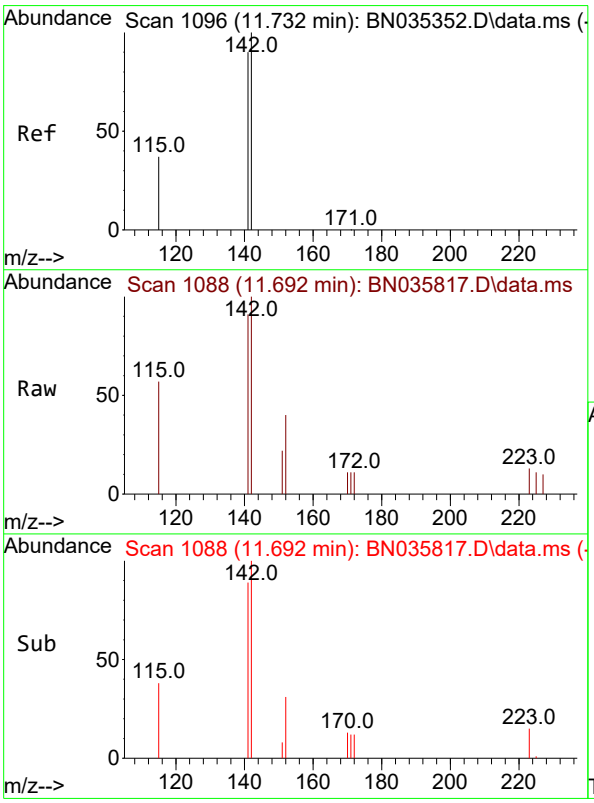

#11
2-Methylnaphthalene-d10
Concen: 0.329 ng
RT: 11.616 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

**Instrument :**
BNA_N
**ClientSampleId :**
TT149S1-20241218

Tgt Ion:152 Resp: 3542

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 21.1 | 16.6 | 25.0 |

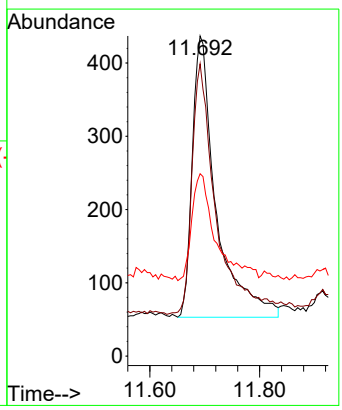


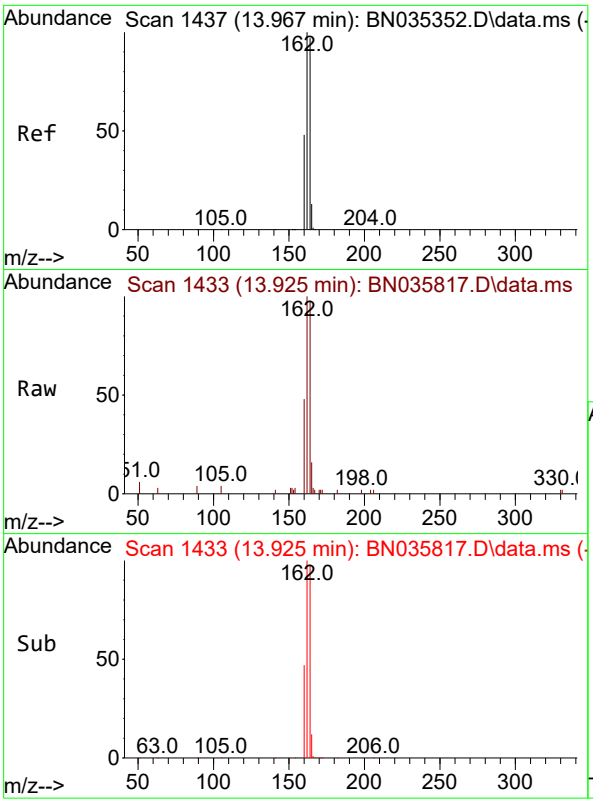




#12
2-Methylnaphthalene
Concen: 0.089 ng
RT: 11.692 min Scan# 1088
Delta R.T. -0.005 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

Tgt Ion:142 Resp: 1157

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 91.3 | 72.2 | 108.4 |
| 115 | 57.0 | 31.4 | 47.0# |



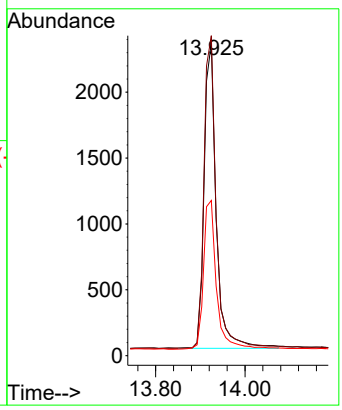


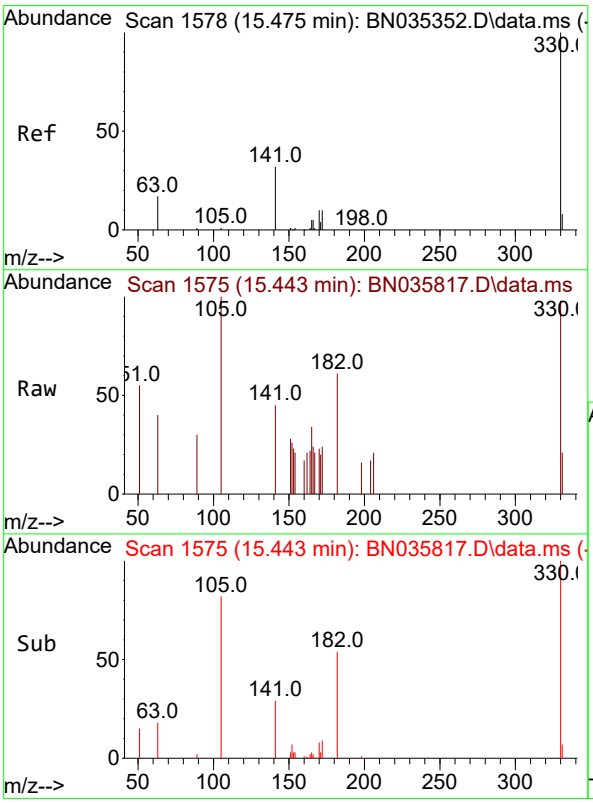

#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.925 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

**Instrument :**
BNA_N
**ClientSampleId :**
TT149S1-20241218

Tgt Ion:164 Resp: 4352

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 102.2 | 82.2 | 123.2 |
| 160 | 49.6 | 40.1 | 60.1 |

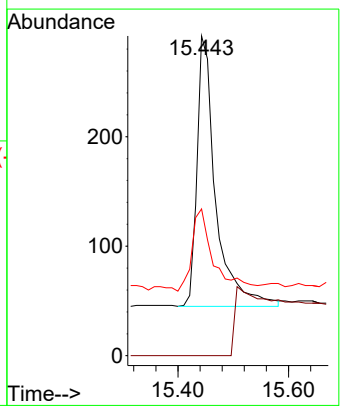


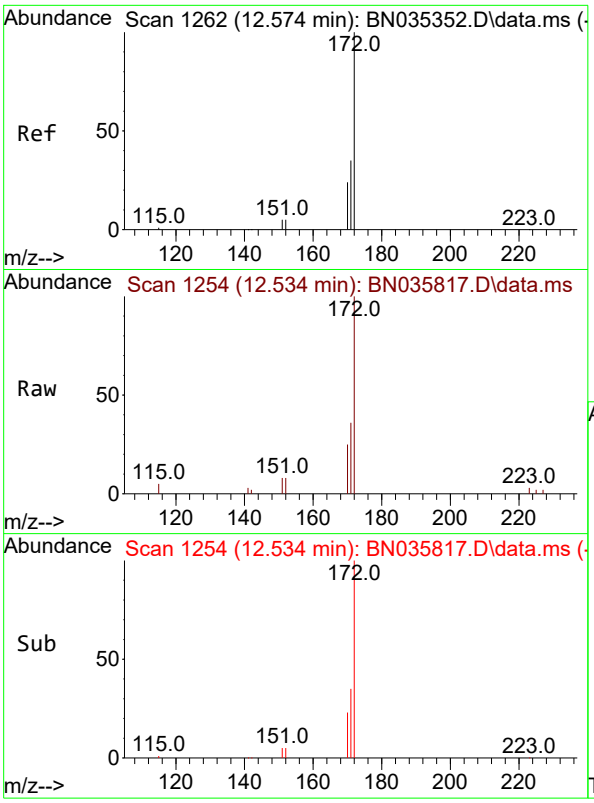




#14
2,4,6-Tribromophenol
Concen: 0.197 ng
RT: 15.443 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

Tgt Ion:330 Resp: 609

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 0.0 | 0.0 | 0.0 |
| 141 | 34.3 | 26.6 | 40.0 |



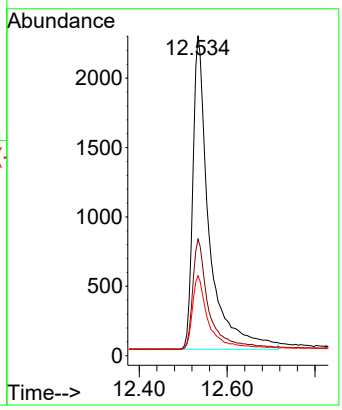


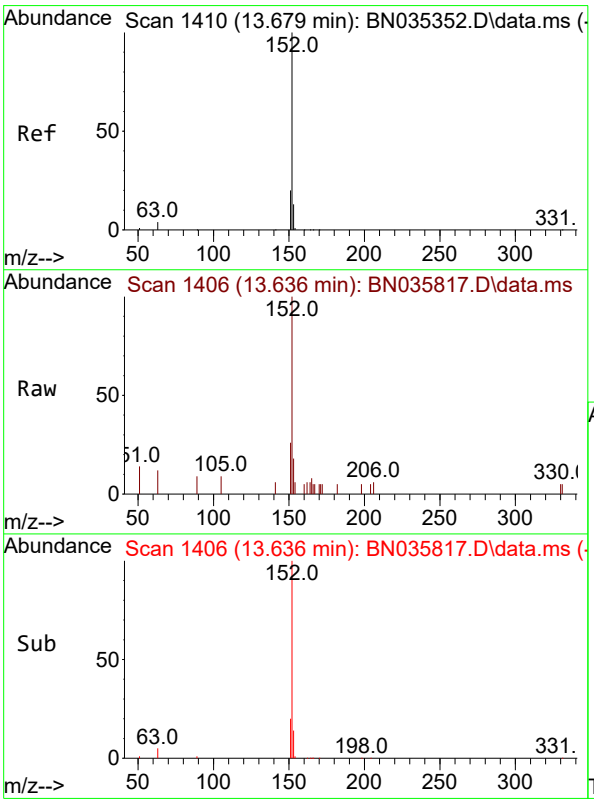

#15
2-Fluorobiphenyl
Concen: 0.356 ng
RT: 12.534 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

**Instrument :**
BNA_N
**ClientSampleId :**
TT149S1-20241218

Tgt Ion:172 Resp: 5853

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 36.4 | 29.0 | 43.4 |
| 170 | 25.0 | 19.8 | 29.8 |

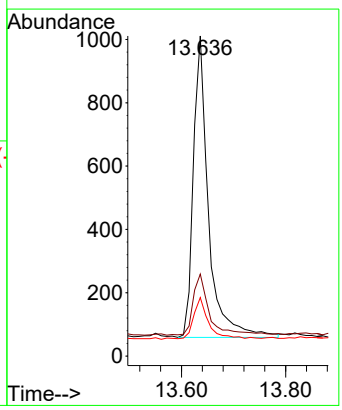


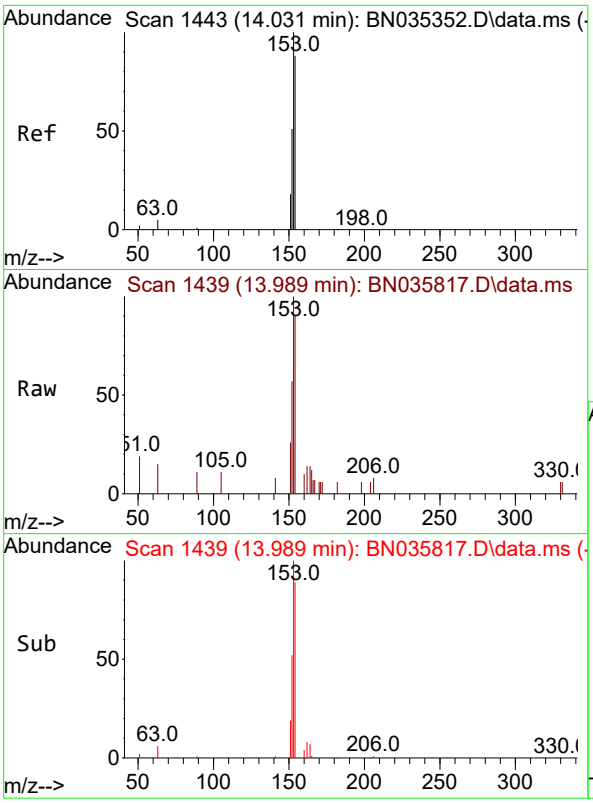




#16
Acenaphthylene
Concen: 0.105 ng
RT: 13.636 min Scan# 1406
Delta R.T. -0.011 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

Tgt Ion:152 Resp: 1924

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.9 | 16.2 | 24.2 |
| 153 | 14.4 | 10.4 | 15.6 |



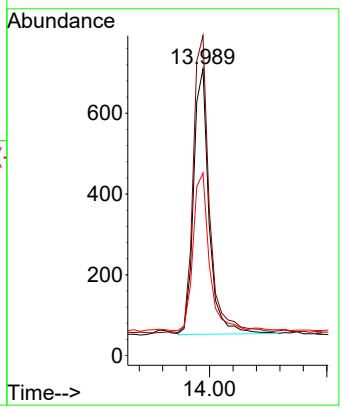


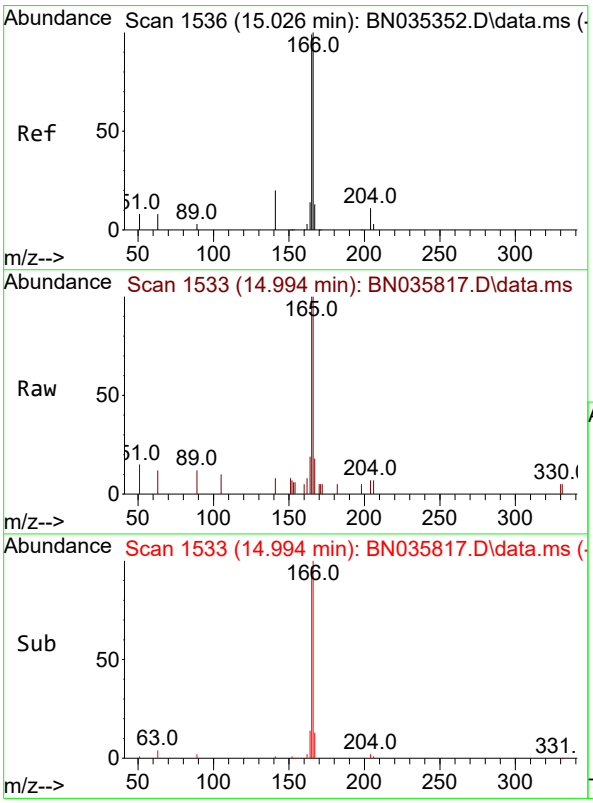

#17
Acenaphthene
Concen: 0.099 ng
RT: 13.989 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

**Instrument :**
BNA_N
**ClientSampleId :**
TT149S1-20241218

Tgt Ion:154 Resp: 1204

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 117.5 | 92.6 | 139.0 |
| 152 | 62.0 | 49.0 | 73.6 |

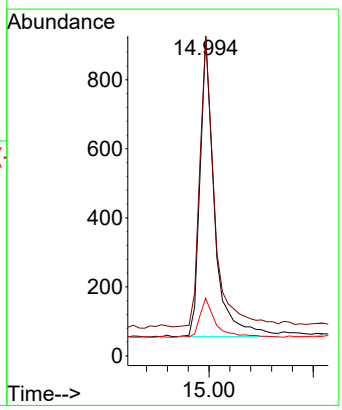


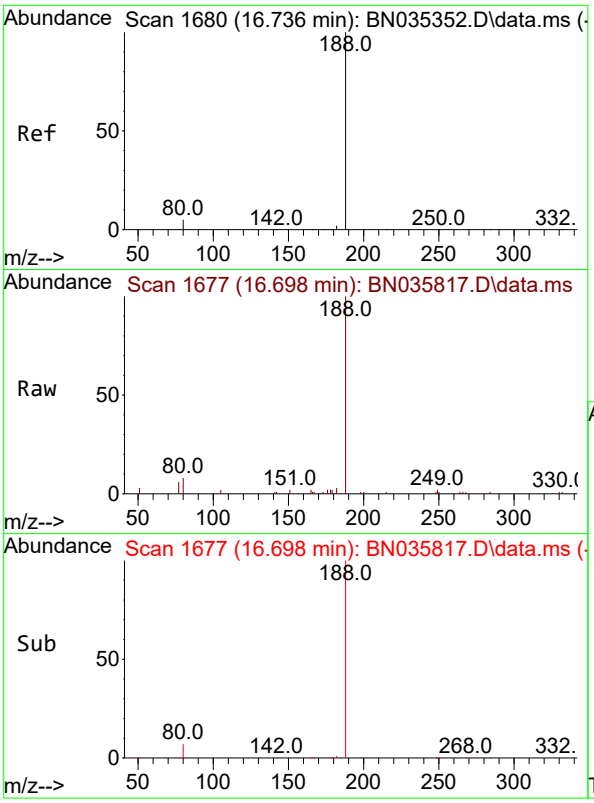




#18
Fluorene
Concen: 0.097 ng
RT: 14.994 min Scan# 1533
Delta R.T. -0.011 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

Tgt Ion:166 Resp: 1680

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 99.0 | 79.7 | 119.5 |
| 167 | 14.3 | 10.8 | 16.2 |



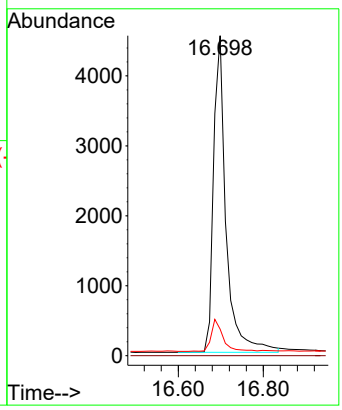


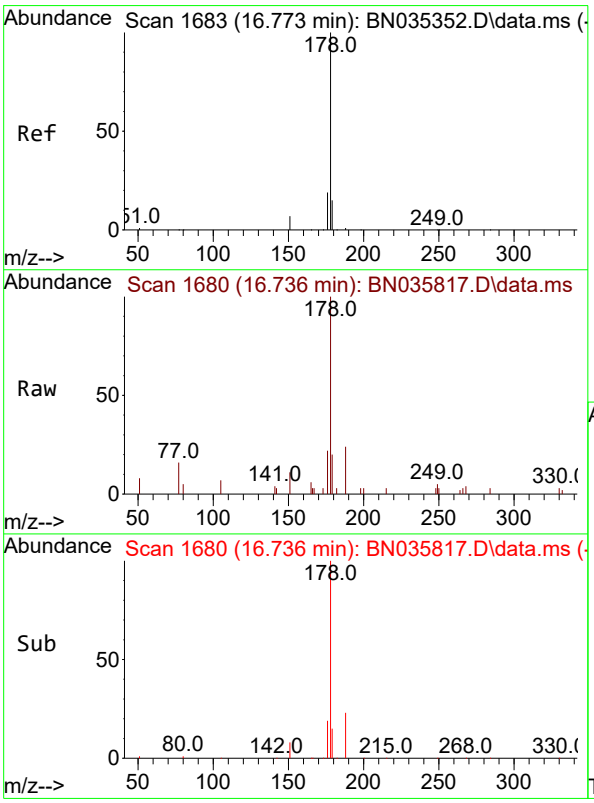

#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

**Instrument :**
BNA_N
**ClientSampleId :**
TT149S1-20241218

Tgt Ion:188 Resp: 9250

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 8.3 | 4.6 | 6.8# |

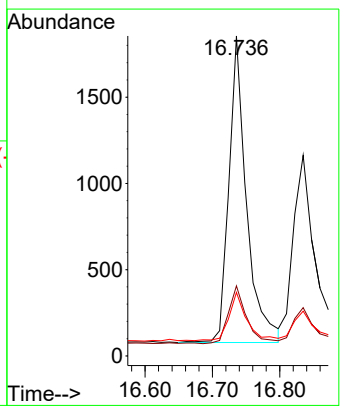


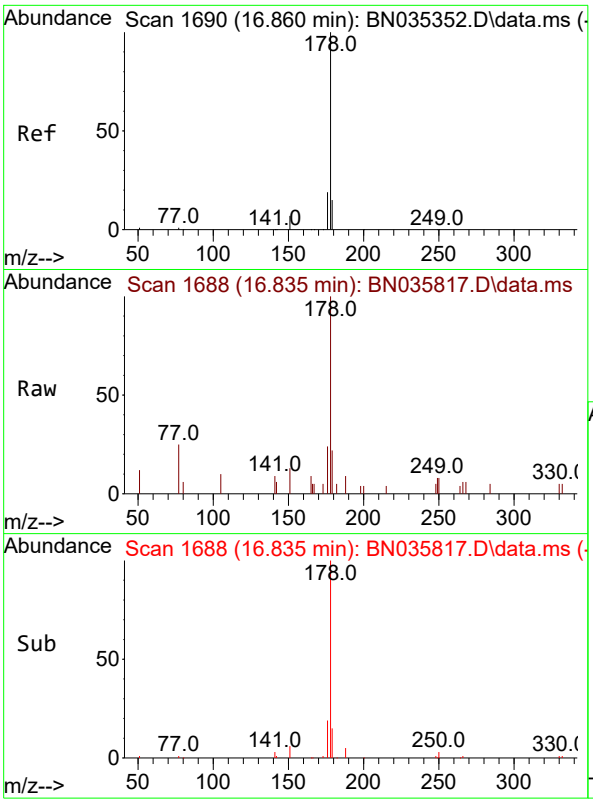




#25
Phenanthrene
Concen: 0.127 ng
RT: 16.736 min Scan# 1680
Delta R.T. -0.012 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

Tgt Ion:178 Resp: 3237

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.5 | 15.4 | 23.2 |
| 179 | 15.6 | 12.3 | 18.5 |



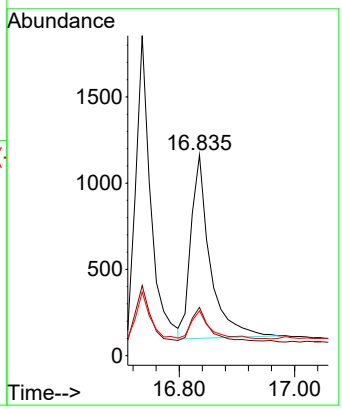


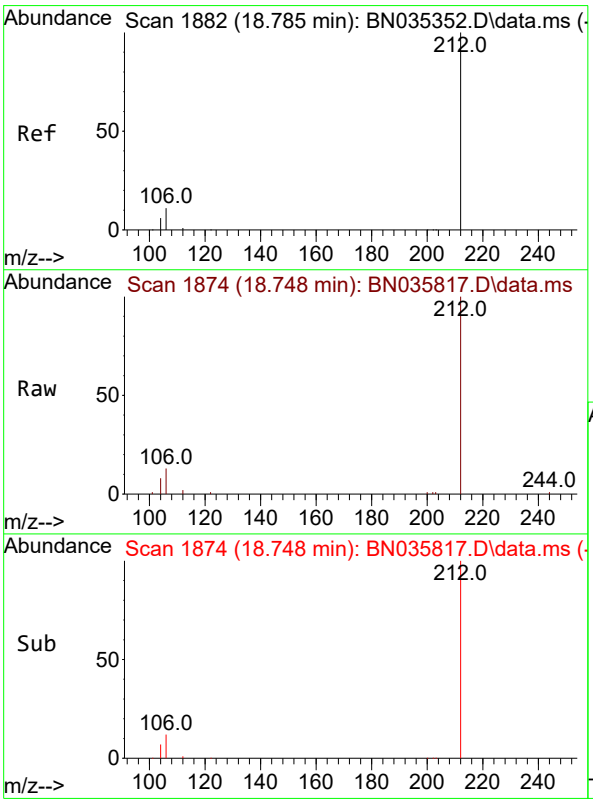

#26
Anthracene
Concen: 0.106 ng
RT: 16.835 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

**Instrument :**
BNA_N
**ClientSampleId :**
TT149S1-20241218

Tgt Ion:178 Resp: 2442

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 20.4 | 15.0 | 22.6 |
| 179 | 16.1 | 12.6 | 18.8 |

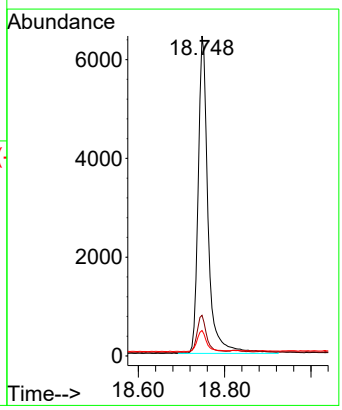


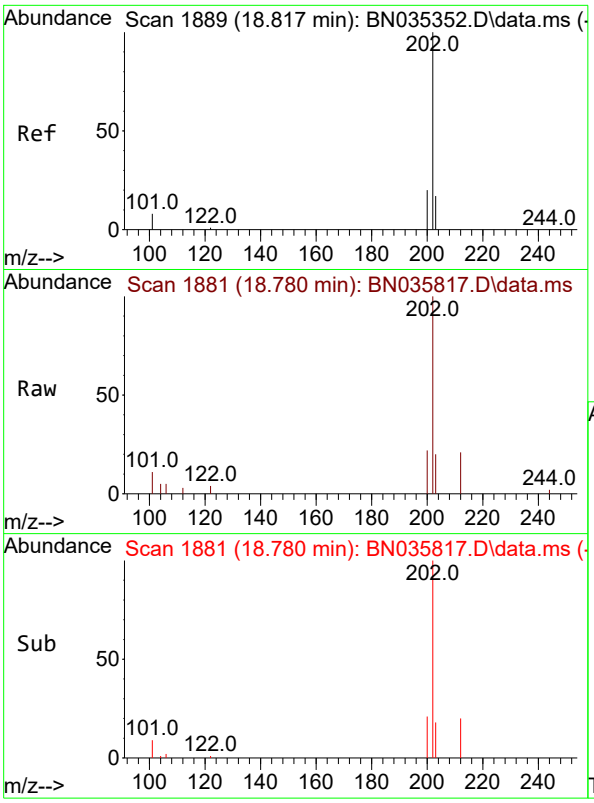




#27
Fluoranthene-d10
Concen: 0.390 ng
RT: 18.748 min Scan# 1874
Delta R.T. -0.014 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

Tgt Ion:212 Resp: 10238

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 11.4 | 9.2 | 13.8 |
| 104 | 6.4 | 5.3 | 7.9 |



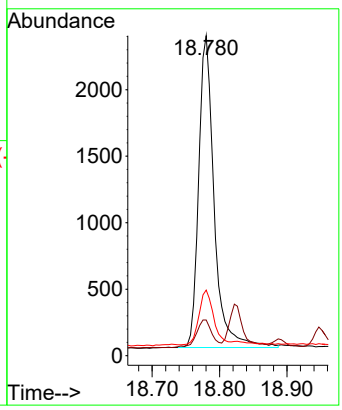


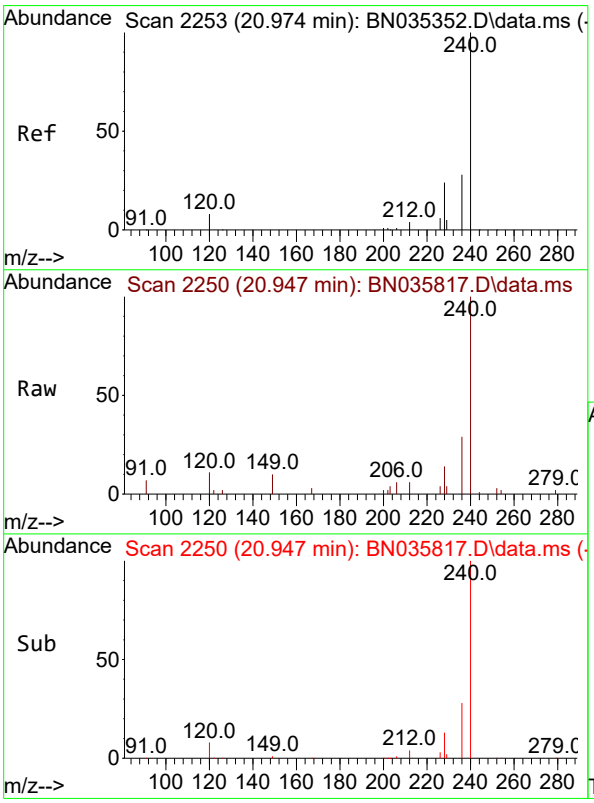

#28
Fluoranthene
Concen: 0.109 ng
RT: 18.780 min Scan# 1
Delta R.T. -0.009 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

**Instrument :**
BNA_N
**ClientSampleId :**
TT149S1-20241218

Tgt Ion:202 Resp: 3731

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 8.9 | 7.4 | 11.0 |
| 203 | 16.6 | 13.7 | 20.5 |

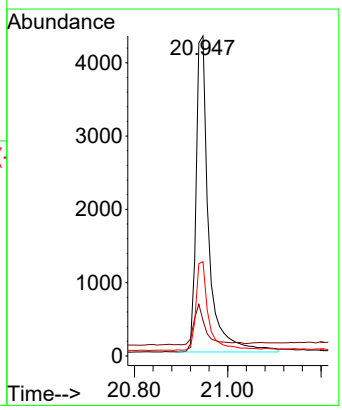


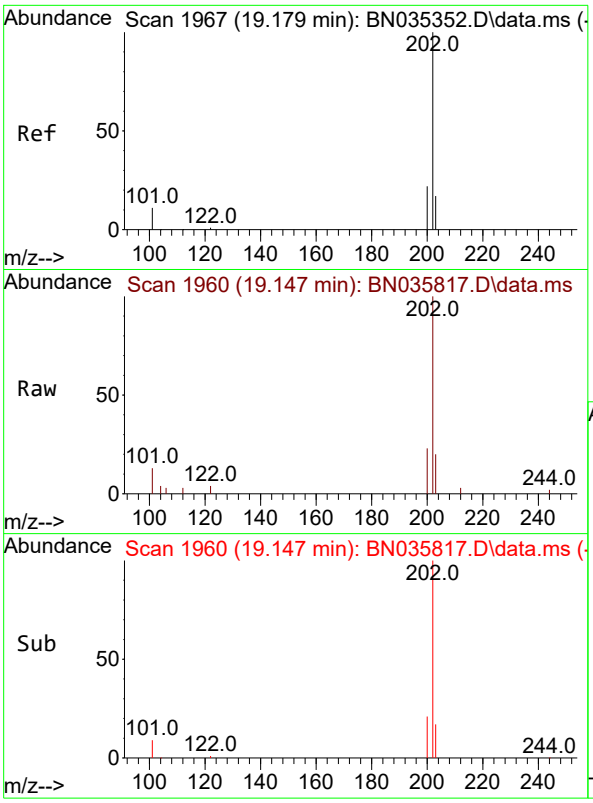




#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2250
Delta R.T. -0.009 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

Tgt Ion:240 Resp: 8129

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 11.1 | 7.9 | 11.9 |
| 236 | 29.4 | 22.9 | 34.3 |



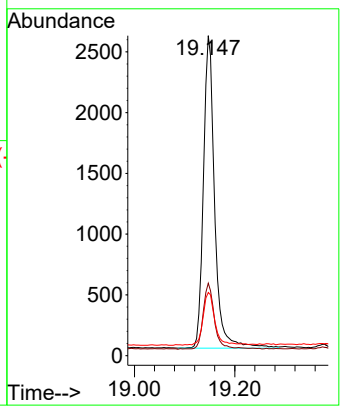


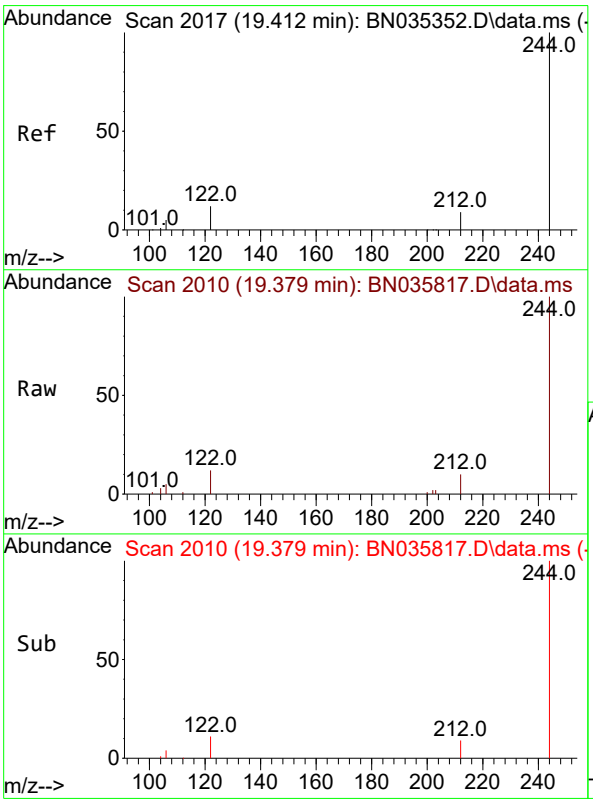

#30
Pyrene
Concen: 0.133 ng
RT: 19.147 min Scan# 1
Delta R.T. -0.014 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

**Instrument :**
BNA_N
**ClientSampleId :**
TT149S1-20241218

Tgt Ion:202 Resp: 4005

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 20.6 | 17.0 | 25.4 |
| 203 | 17.4 | 14.3 | 21.5 |

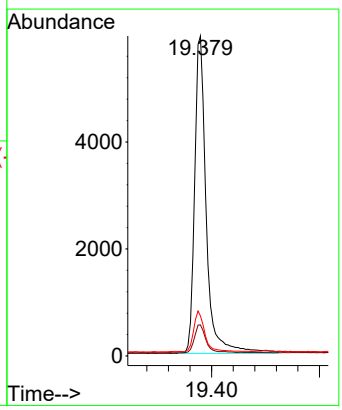


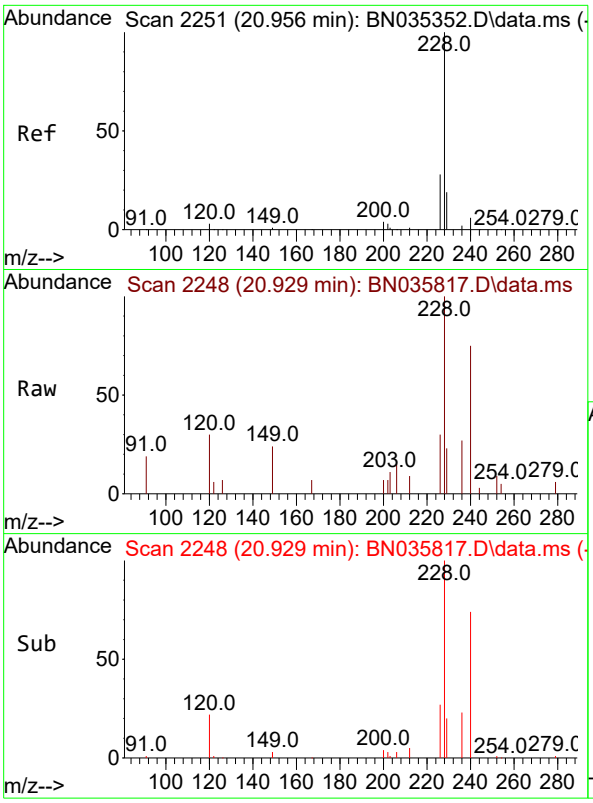




#31
Terphenyl-d14
Concen: 0.553 ng
RT: 19.379 min Scan# 2010
Delta R.T. -0.009 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

Tgt Ion:244 Resp: 8867

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 9.7 | 8.1 | 12.1 |
| 122 | 12.5 | 10.3 | 15.5 |



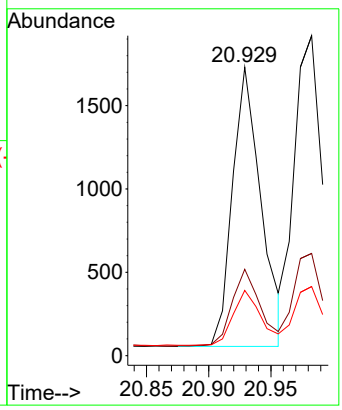


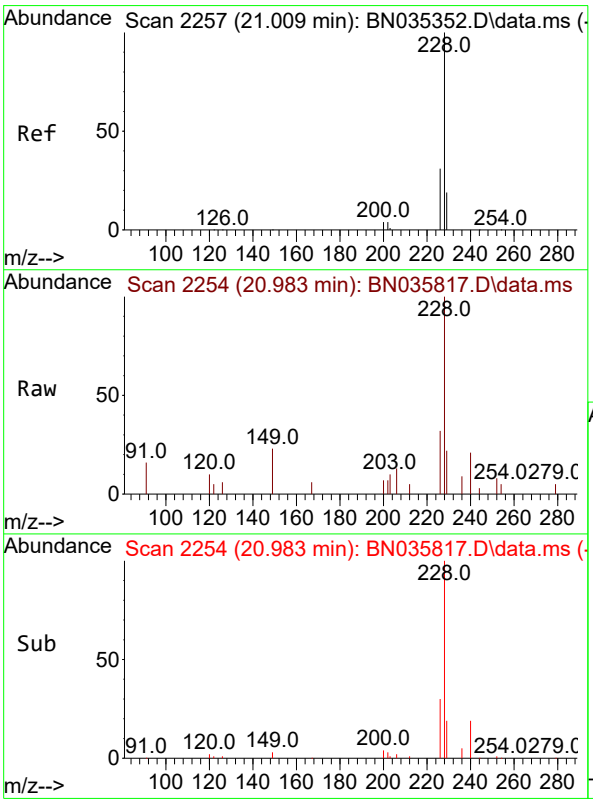

#32
Benzo(a)anthracene
Concen: 0.094 ng
RT: 20.929 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

**Instrument :**
BNA_N
**ClientSampleId :**
TT149S1-20241218

Tgt Ion:228 Resp: 2676

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 29.9 | 22.5 | 33.7 |
| 229 | 22.6 | 15.8 | 23.8 |

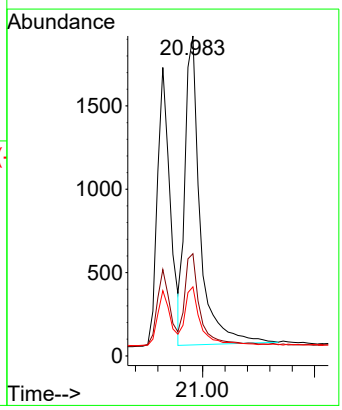


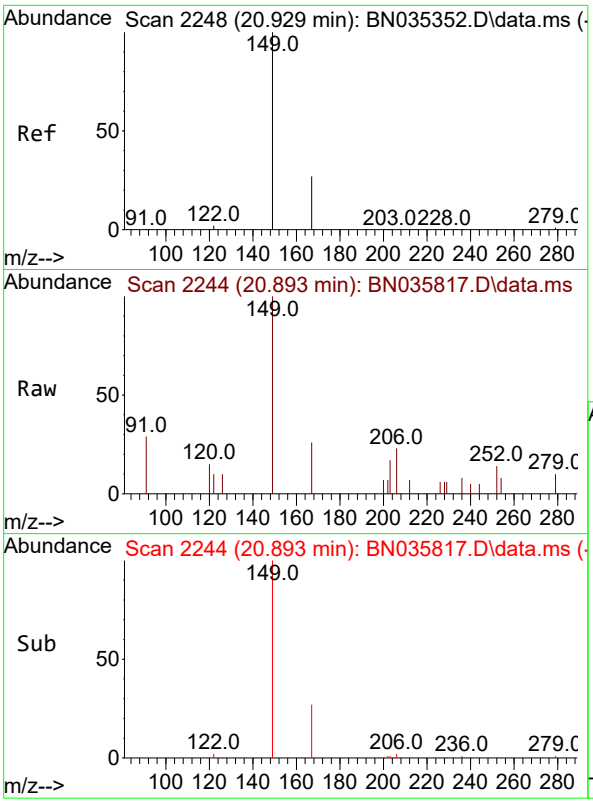




#33
Chrysene
Concen: 0.119 ng
RT: 20.983 min Scan# 2254
Delta R.T. -0.009 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

Tgt Ion:228 Resp: 3497

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 31.9 | 24.6 | 37.0 |
| 229 | 21.6 | 15.9 | 23.9 |



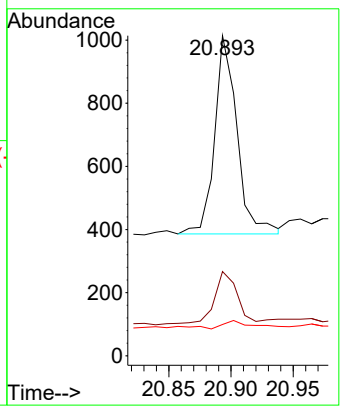


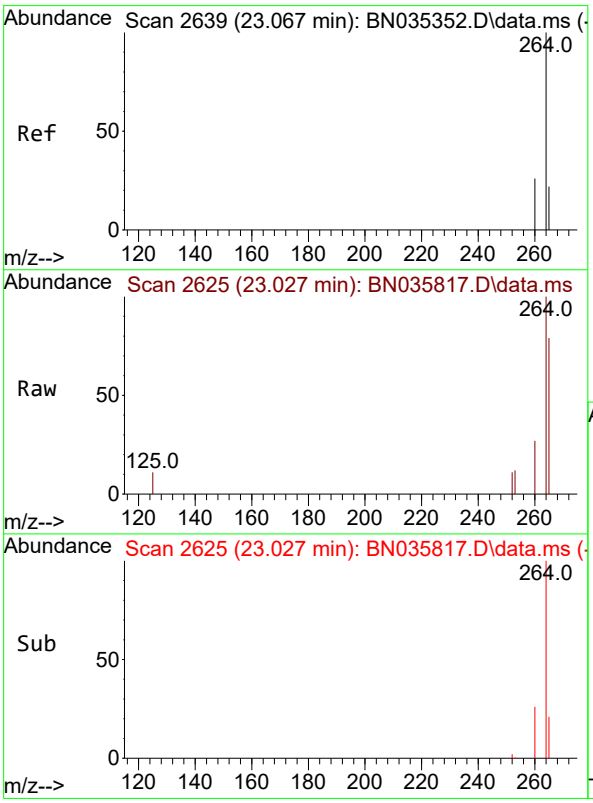

#34
Bis(2-ethylhexyl)phthalate
Concen: 0.070 ng
RT: 20.893 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

**Instrument :**
BNA_N
**ClientSampleId :**
TT149S1-20241218

Tgt Ion:149 Resp: 786

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 27.0 | 22.2 | 33.4 |
| 279 | 6.1 | 2.7 | 4.1# |

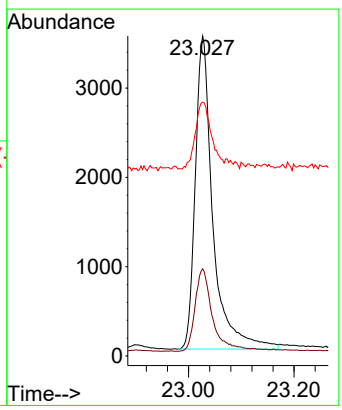


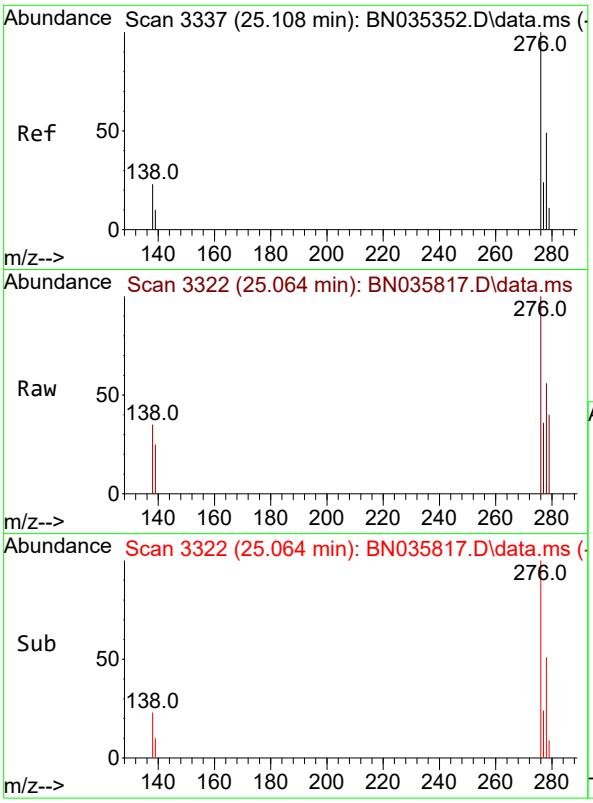




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.027 min Scan# 2625
Delta R.T. -0.015 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

Tgt Ion:264 Resp: 8126

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 27.2 | 21.4 | 32.2 |
| 265 | 79.3 | 40.2 | 60.4# |



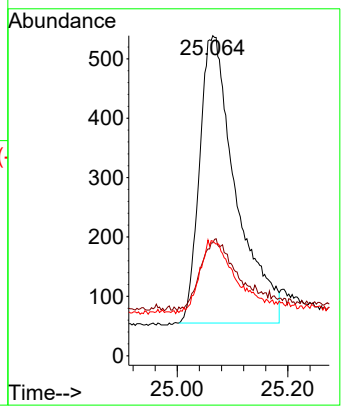


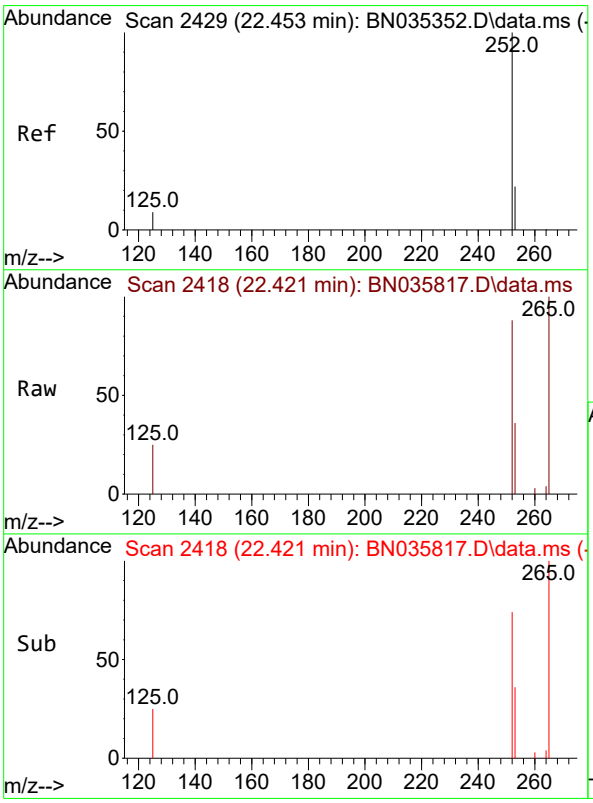

#36
Indeno(1,2,3-cd)pyrene
Concen: 0.070 ng
RT: 25.064 min Scan# 3
Delta R.T. -0.003 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

**Instrument :**
BNA_N
**ClientSampleId :**
TT149S1-20241218

Tgt Ion:276 Resp: 2211

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 23.7 | 19.4 | 29.0 |
| 277 | 25.1 | 19.8 | 29.6 |

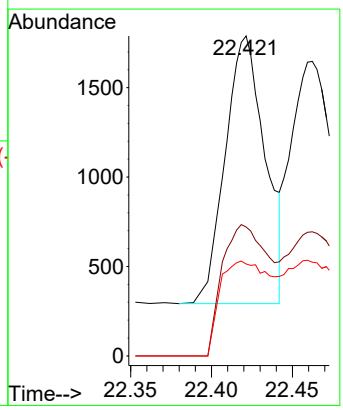


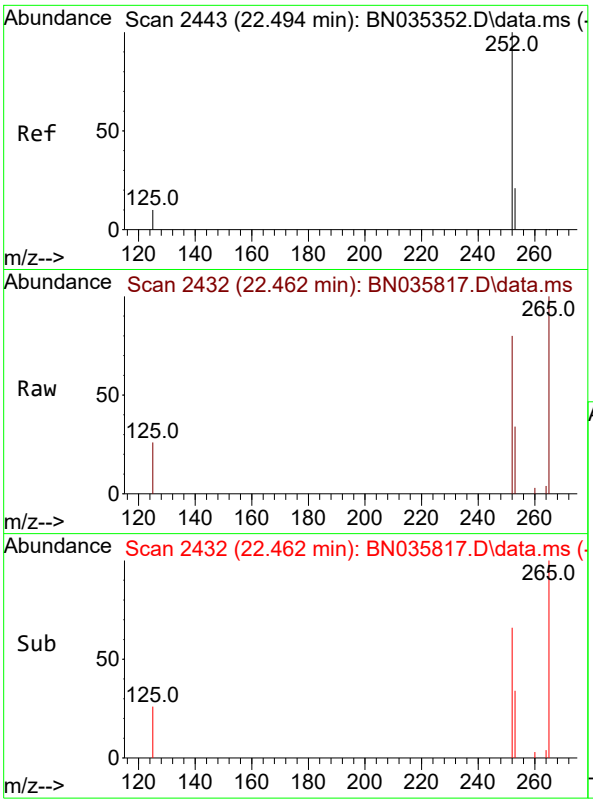




#37
Benzo(b)fluoranthene
Concen: 0.113 ng
RT: 22.421 min Scan# 2418
Delta R.T. -0.009 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

Tgt Ion:252 Resp: 3364

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 40.3 | 19.6 | 29.4# |
| 125 | 28.7 | 9.6 | 14.4# |



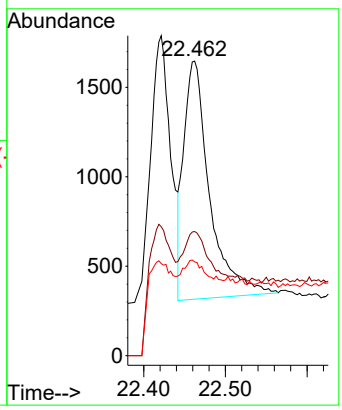


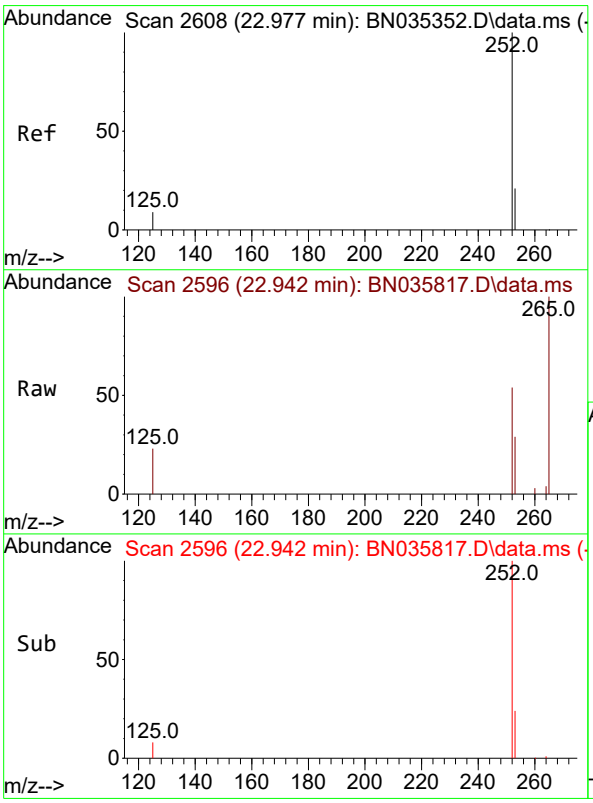

#38
Benzo(k)fluoranthene
Concen: 0.100 ng
RT: 22.462 min Scan# 24
Delta R.T. -0.009 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

**Instrument :**
BNA_N
**ClientSampleId :**
TT149S1-20241218

Tgt Ion:252 Resp: 2940

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 42.1 | 19.5 | 29.3# |
| 125 | 31.8 | 10.2 | 15.4# |

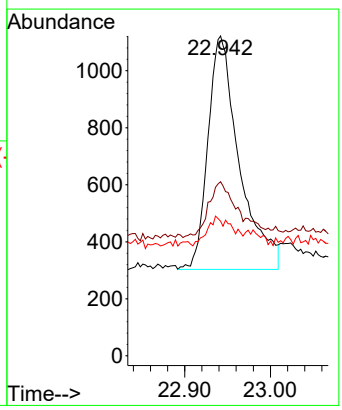


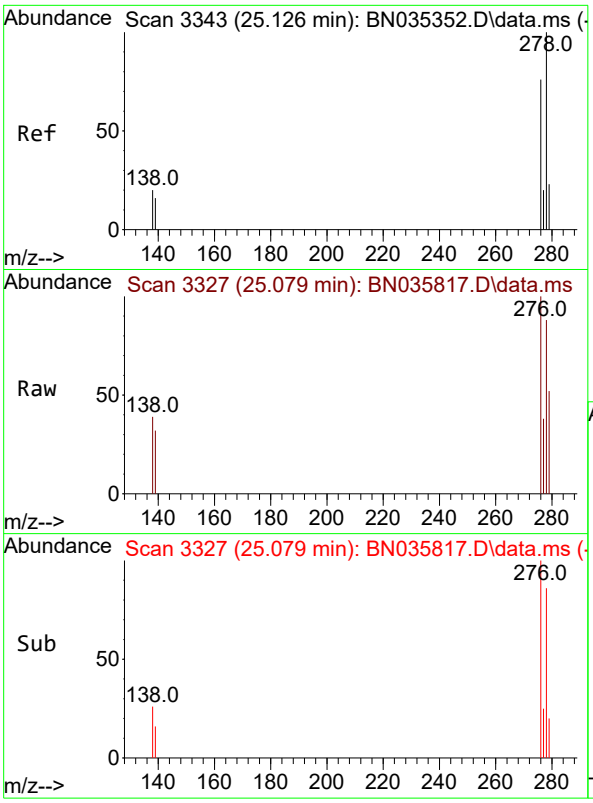




#39
Benzo(a)pyrene
Concen: 0.085 ng
RT: 22.942 min Scan# 2596
Delta R.T. -0.009 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

Tgt Ion:252 Resp: 2085

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 54.5 | 20.2 | 30.4# |
| 125 | 42.1 | 10.9 | 16.3# |



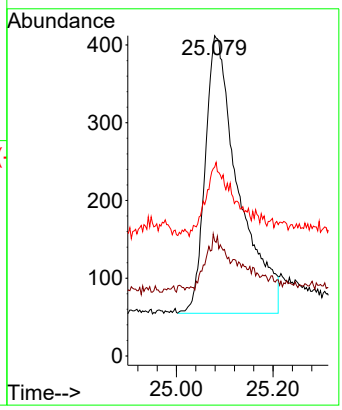


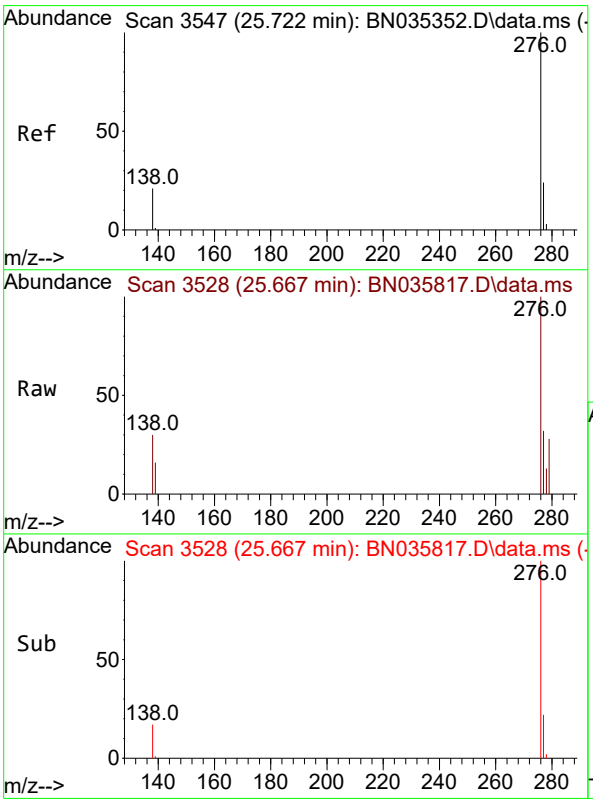

#40
Dibenzo(a,h)anthracene
Concen: 0.068 ng
RT: 25.079 min Scan# 3
Delta R.T. -0.003 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

**Instrument :**
BNA_N
**ClientSampleId :**
TT149S1-20241218

Tgt Ion:278 Resp: 1701

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 35.9 | 14.2 | 21.4# |
| 279 | 59.0 | 20.5 | 30.7# |

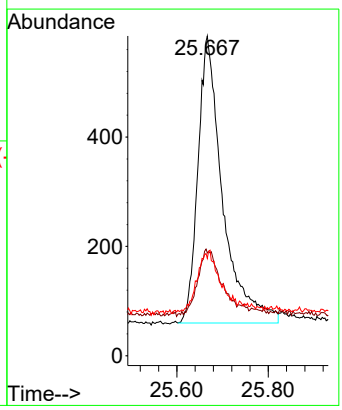



#41
Benzo(g,h,i)perylene
Concen: 0.075 ng
RT: 25.667 min Scan# 3528
Delta R.T. -0.012 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

Tgt Ion:276 Resp: 1967

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 32.1 | 19.9 | 29.9# |
| 138 | 30.4 | 17.8 | 26.8# |



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035818.D
Acq On : 24 Dec 2024 13:08
Operator : RC/JU
Sample : P5376-05
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
DUP-07-20241218

Quant Time: Dec 24 23:18:00 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.257 | 152 | 3045 | 0.400 | ng | | -0.01 |
| 7) Naphthalene-d8 | 10.009 | 136 | 7417 | 0.400 | ng | | #-0.01 |
| 13) Acenaphthene-d10 | 13.925 | 164 | 4769 | 0.400 | ng | | -0.01 |
| 19) Phenanthrene-d10 | 16.698 | 188 | 10054 | 0.400 | ng | | # 0.00 |
| 29) Chrysene-d12 | 20.947 | 240 | 8730 | 0.400 | ng | | 0.00 |
| 35) Perylene-d12 | 23.026 | 264 | 8948 | 0.400 | ng | | #-0.01 |
| System Monitoring Compounds | | | | | | | |
| 4) 2-Fluorophenol | 4.924 | 112 | 828 | 0.109 | ng | | -0.01 |
| 5) Phenol-d6 | 6.477 | 99 | 491 | 0.054 | ng | | -0.01 |
| 8) Nitrobenzene-d5 | 8.408 | 82 | 1989 | 0.439 | ng | | 0.00 |
| 11) 2-Methylnaphthalene-d10 | 11.611 | 152 | 4011 | 0.346 | ng | | -0.01 |
| 14) 2,4,6-Tribromophenol | 15.443 | 330 | 736 | 0.217 | ng | | -0.01 |
| 15) 2-Fluorobiphenyl | 12.534 | 172 | 6868 | 0.381 | ng | | -0.01 |
| 27) Fluoranthene-d10 | 18.747 | 212 | 11709 | 0.411 | ng | | -0.01 |
| 31) Terphenyl-d14 | 19.379 | 244 | 9932 | 0.577 | ng | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 2.982 | 88 | 761 | 0.261 | ng | | 89 |
| 9) Naphthalene | 10.052 | 128 | 2140 | 0.109 | ng | # | 90 |
| 12) 2-Methylnaphthalene | 11.687 | 142 | 1347 | 0.096 | ng | # | 92 |
| 16) Acenaphthylene | 13.636 | 152 | 2222 | 0.111 | ng | | 98 |
| 17) Acenaphthene | 13.978 | 154 | 1464 | 0.110 | ng | | 99 |
| 18) Fluorene | 14.994 | 166 | 2023 | 0.106 | ng | | 99 |
| 24) Pentachlorophenol | 16.363 | 266 | 64 | 0.021 | ng | # | 69 |
| 25) Phenanthrene | 16.736 | 178 | 3999 | 0.145 | ng | | 98 |
| 26) Anthracene | 16.835 | 178 | 3041 | 0.122 | ng | | 99 |
| 28) Fluoranthene | 18.780 | 202 | 4605 | 0.124 | ng | | 98 |
| 30) Pyrene | 19.147 | 202 | 4782 | 0.148 | ng | | 99 |
| 32) Benzo(a)anthracene | 20.929 | 228 | 3217 | 0.105 | ng | | 95 |
| 33) Chrysene | 20.983 | 228 | 4153 | 0.132 | ng | | 98 |
| 34) Bis(2-ethylhexyl)phtha... | 20.893 | 149 | 1111 | 0.092 | ng | | 99 |
| 36) Indeno(1,2,3-cd)pyrene | 25.064 | 276 | 2885 | 0.082 | ng | | 97 |
| 37) Benzo(b)fluoranthene | 22.418 | 252 | 5898 | 0.180 | ng | # | 67 |
| 38) Benzo(k)fluoranthene | 22.459 | 252 | 3643 | 0.113 | ng | # | 65 |
| 39) Benzo(a)pyrene | 22.942 | 252 | 2686 | 0.100 | ng | # | 49 |
| 40) Dibenzo(a,h)anthracene | 25.085 | 278 | 2103 | 0.076 | ng | # | 58 |
| 41) Benzo(g,h,i)perylene | 25.667 | 276 | 2516 | 0.087 | ng | # | 83 |

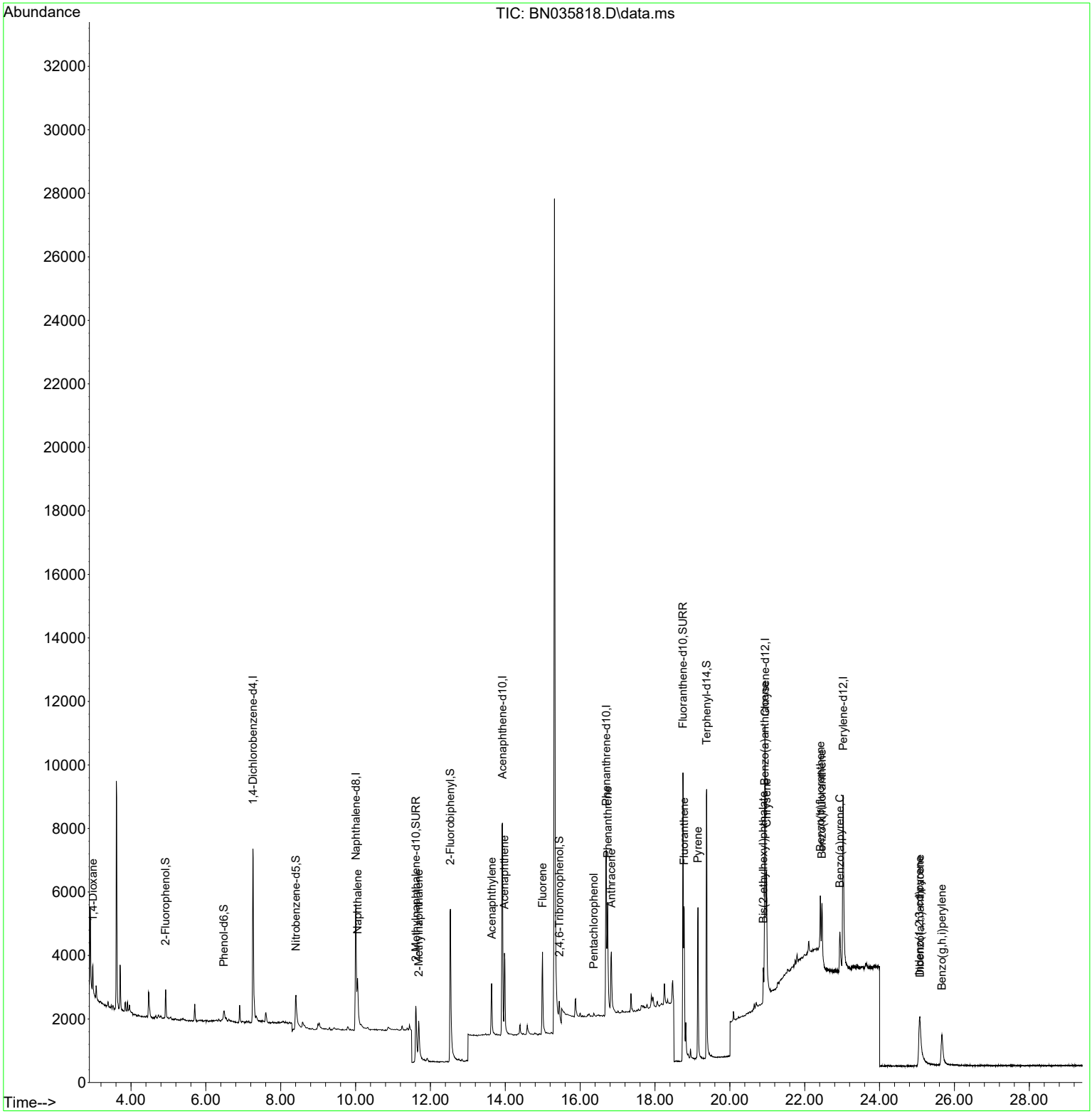
(#) = qualifier out of range (m) = manual integration (+) = signals summed

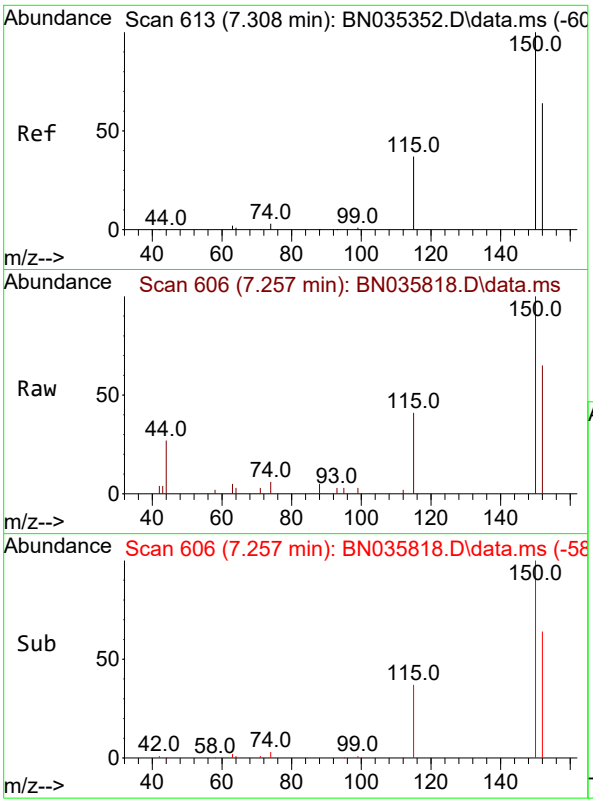
Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035818.D
Acq On : 24 Dec 2024 13:08
Operator : RC/JU
Sample : P5376-05
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
DUP-07-20241218

Quant Time: Dec 24 23:18:00 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



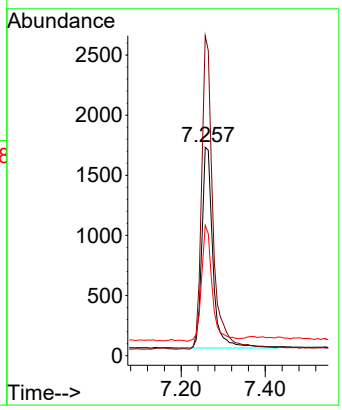


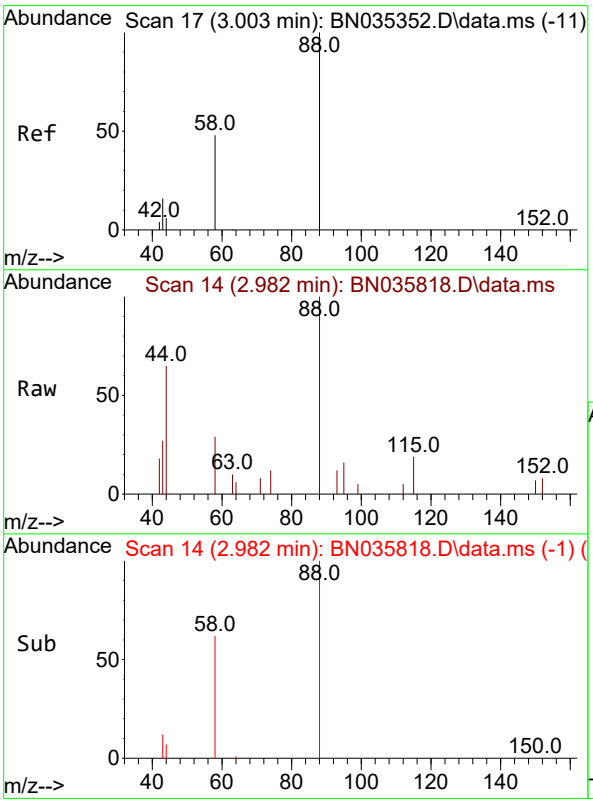

#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 6(
Delta R.T. -0.015 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

**Instrument :**
BNA_N
**ClientSampleId :**
DUP-07-20241218

Tgt Ion:152 Resp: 3045

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 153.5 | 124.0 | 186.0 |
| 115 | 62.5 | 49.6 | 74.4 |

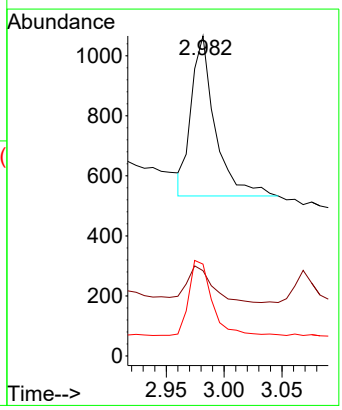


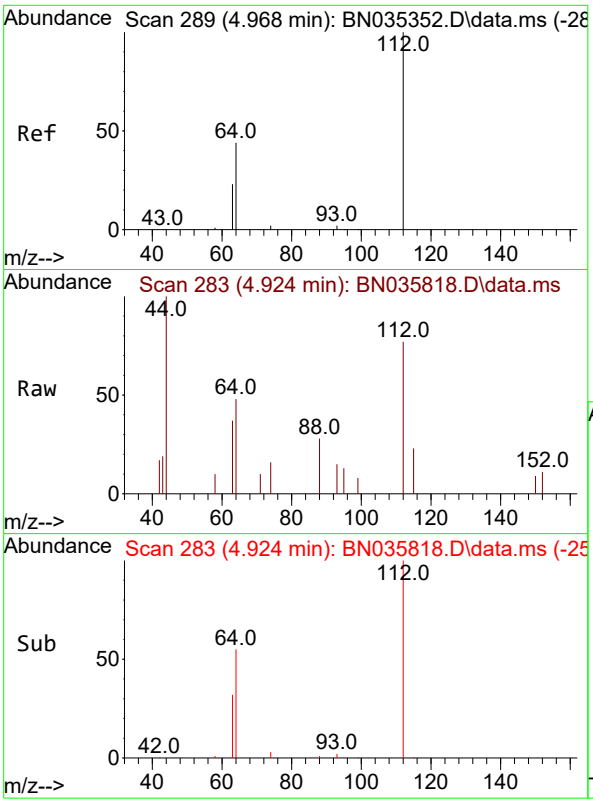




#2
1,4-Dioxane
Concen: 0.261 ng
RT: 2.982 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

Tgt Ion: 88 Resp: 761

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 24.3 | 17.2 | 25.8 |
| 58 | 45.9 | 44.5 | 66.7 |



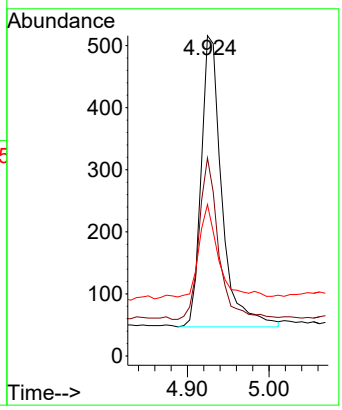


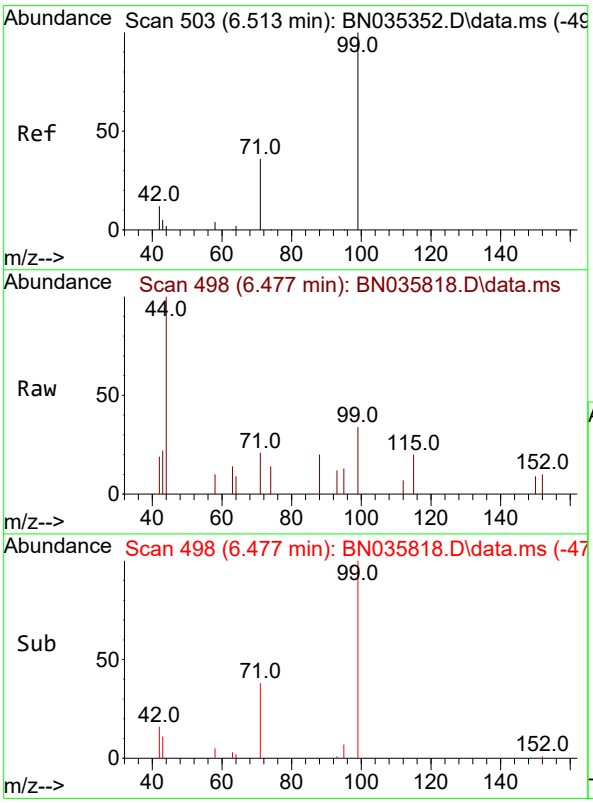

#4
2-Fluorophenol
Concen: 0.109 ng
RT: 4.924 min Scan# 2
Delta R.T. -0.015 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

**Instrument :**
BNA_N
**ClientSampleId :**
DUP-07-20241218

Tgt Ion:112 Resp: 828

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 52.1 | 39.8 | 59.8 |
| 63 | 31.0 | 21.0 | 31.6 |

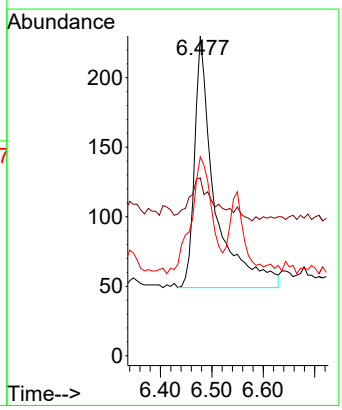


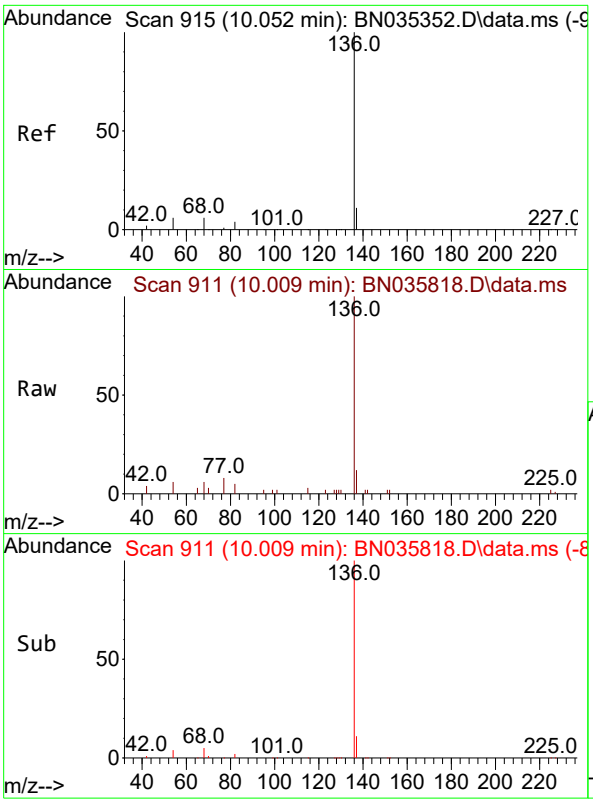




#5
Phenol-d6
Concen: 0.054 ng
RT: 6.477 min Scan# 498
Delta R.T. -0.014 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

Tgt Ion: 99 Resp: 491

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 23.8 | 11.4 | 17.2# |
| 71 | 47.9 | 29.3 | 43.9# |



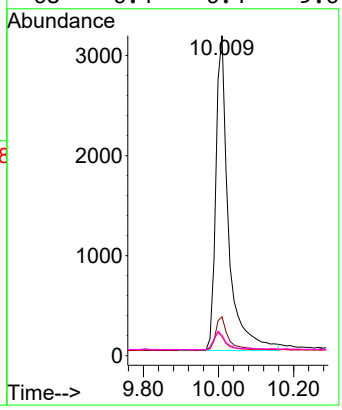


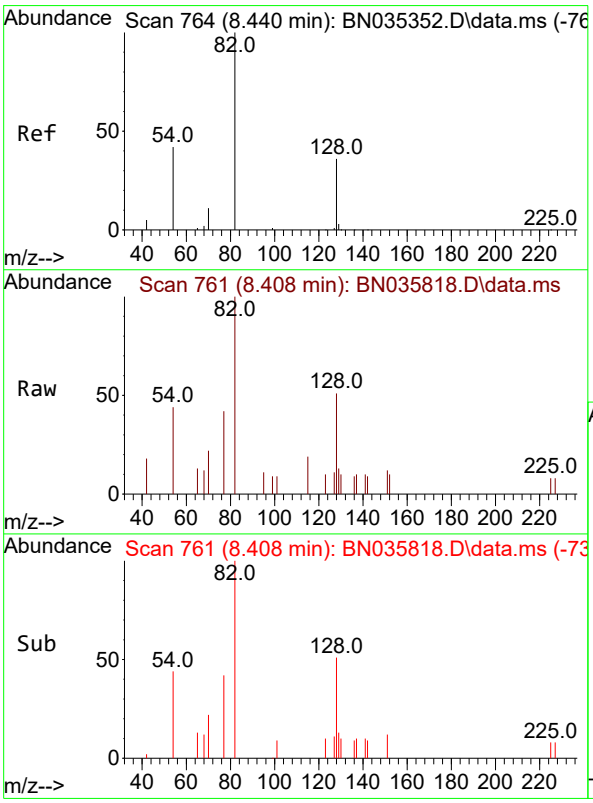

#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

**Instrument :**
BNA_N
**ClientSampleId :**
DUP-07-20241218

Tgt Ion:136 Resp: 7417

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 12.2 | 10.2 | 15.2 |
| 54 | 5.9 | 6.1 | 9.1# |
| 68 | 6.4 | 6.4 | 9.6 |

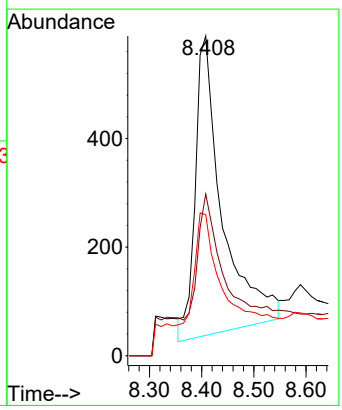


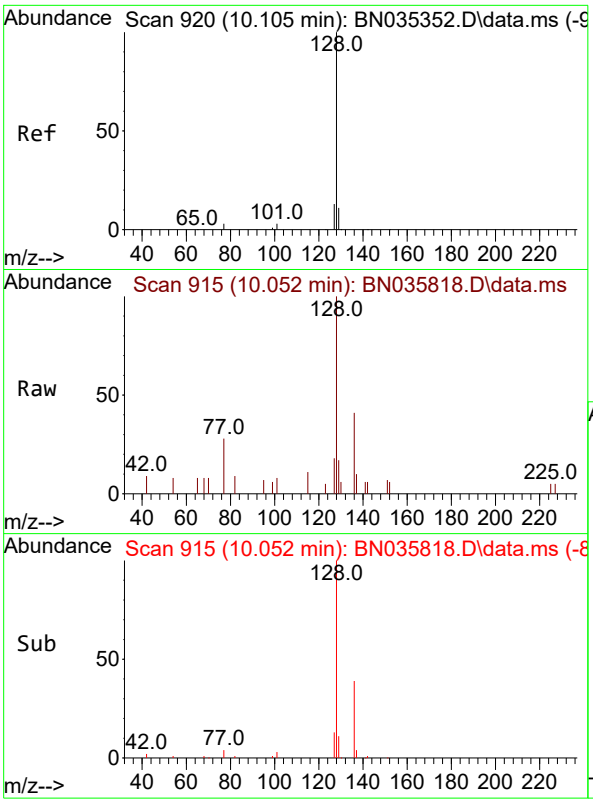




#8
Nitrobenzene-d5
Concen: 0.439 ng
RT: 8.408 min Scan# 761
Delta R.T. -0.000 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

Tgt Ion: 82 Resp: 1989

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 50.6 | 33.4 | 50.0# |
| 54 | 44.1 | 36.7 | 55.1 |



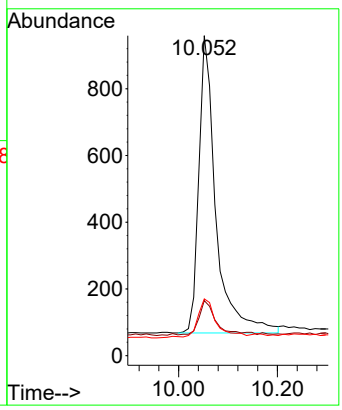


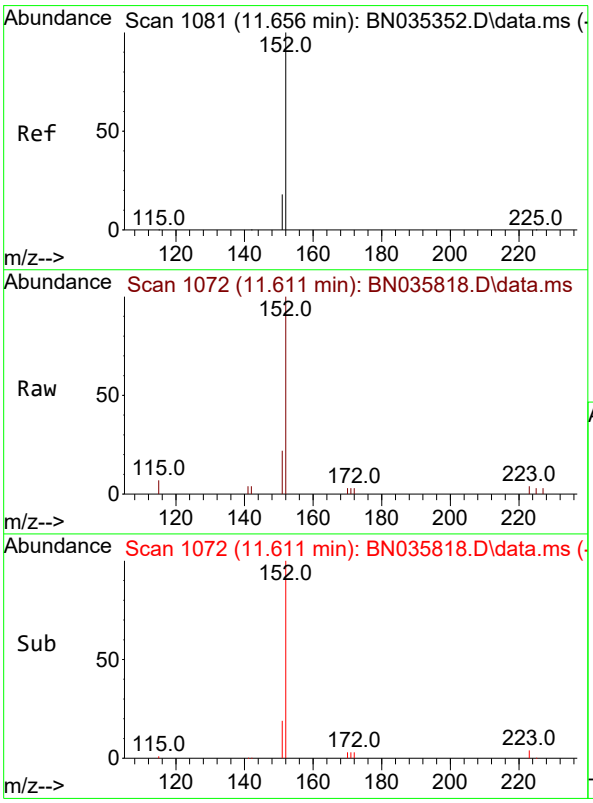

#9
Naphthalene
Concen: 0.109 ng
RT: 10.052 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

**Instrument :**
BNA_N
**ClientSampleId :**
DUP-07-20241218

Tgt Ion:128 Resp: 2140

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 17.2 | 9.8 | 14.6# |
| 127 | 17.7 | 11.4 | 17.2# |

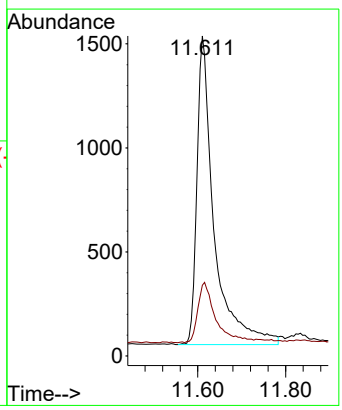


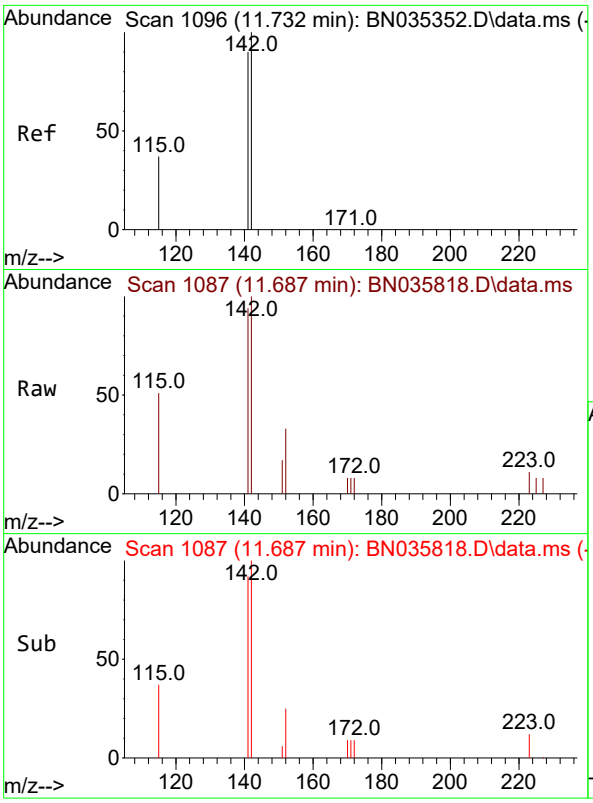




#11
2-Methylnaphthalene-d10
Concen: 0.346 ng
RT: 11.611 min Scan# 1072
Delta R.T. -0.010 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

Tgt Ion:152 Resp: 4011

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.3 | 16.6 | 25.0 |



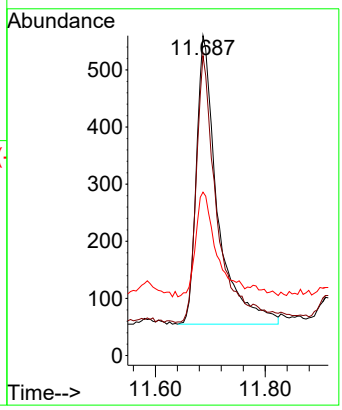


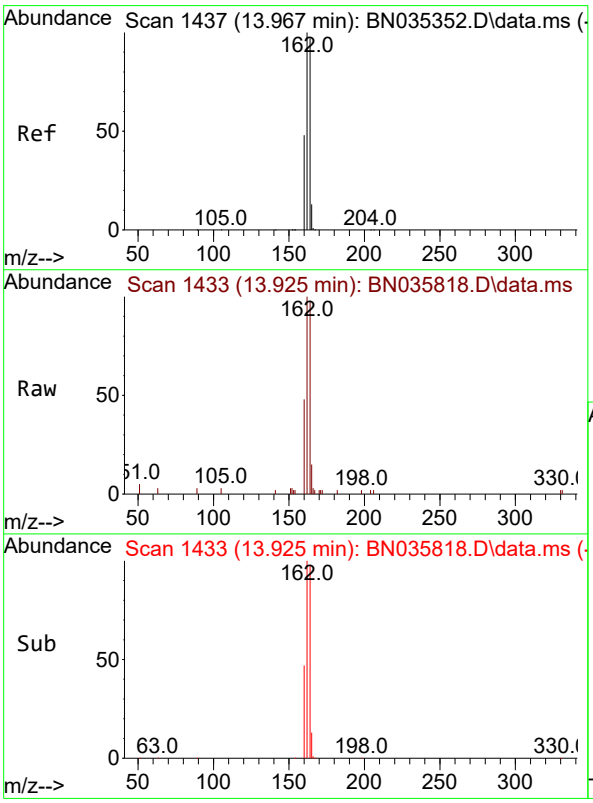

#12
2-Methylnaphthalene
Concen: 0.096 ng
RT: 11.687 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

**Instrument :**
BNA_N
**ClientSampleId :**
DUP-07-20241218

Tgt Ion:142 Resp: 1347

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 93.8 | 72.2 | 108.4 |
| 115 | 51.1 | 31.4 | 47.0# |

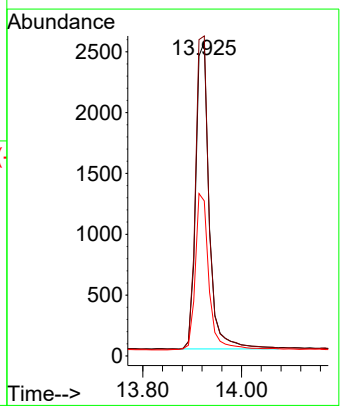


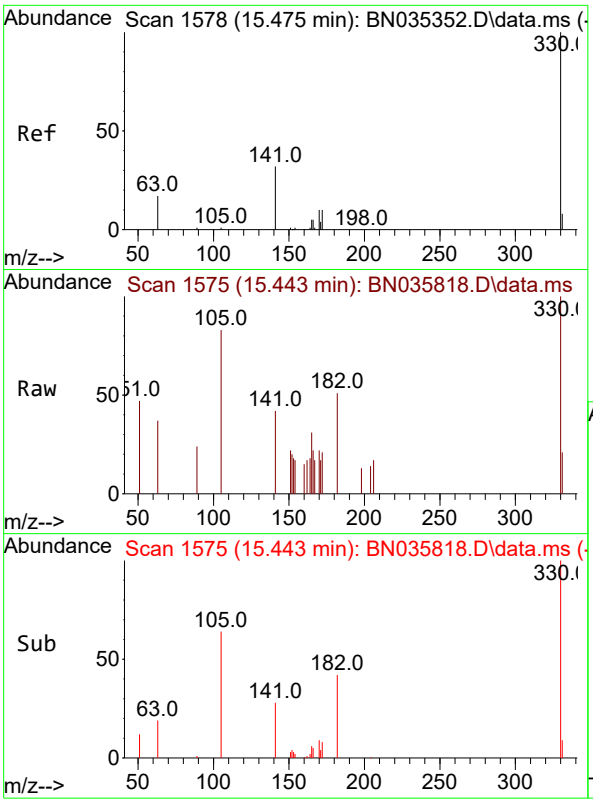




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.925 min Scan# 1433
Delta R.T. -0.011 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

Tgt Ion:164 Resp: 4769

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 102.0 | 82.2 | 123.2 |
| 160 | 49.4 | 40.1 | 60.1 |



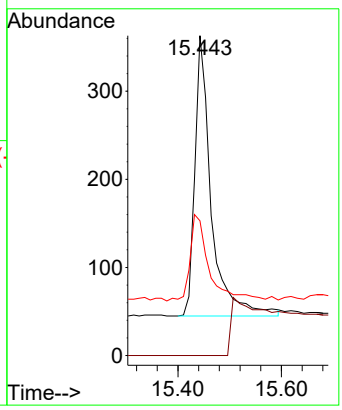


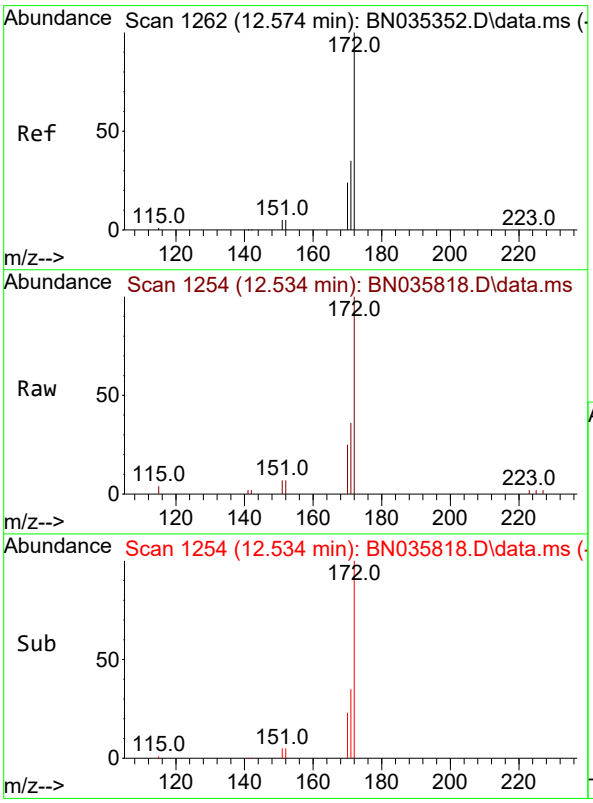

#14
2,4,6-Tribromophenol
Concen: 0.217 ng
RT: 15.443 min Scan# 1
Delta R.T. -0.011 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

**Instrument :**
BNA_N
**ClientSampleId :**
DUP-07-20241218

Tgt Ion:330 Resp: 736

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 0.0 | 0.0 | 0.0 |
| 141 | 35.9 | 26.6 | 40.0 |

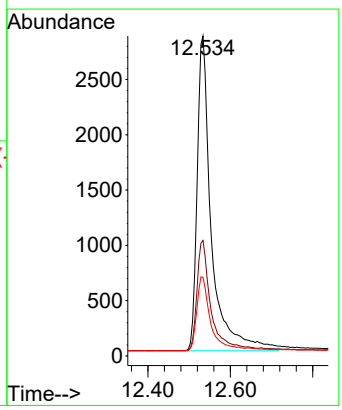


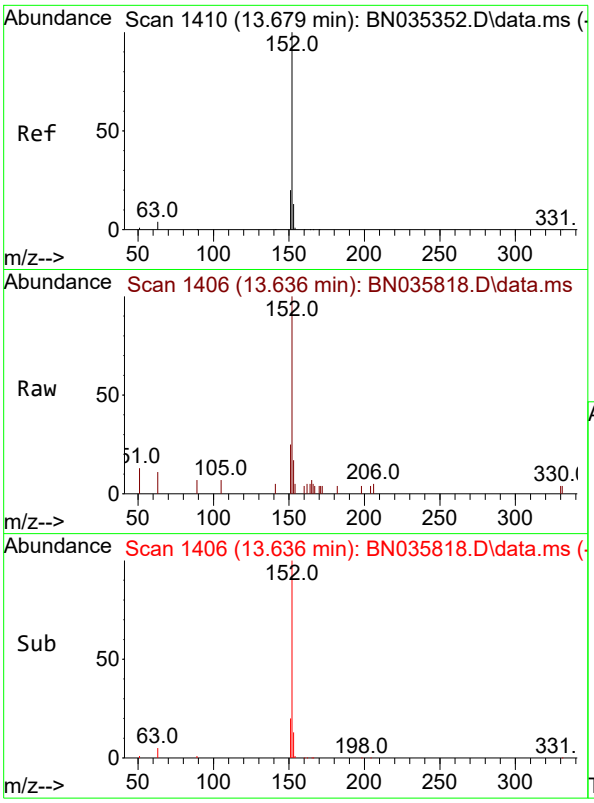




#15
2-Fluorobiphenyl
Concen: 0.381 ng
RT: 12.534 min Scan# 1254
Delta R.T. -0.010 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

Tgt Ion:172 Resp: 6868

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 36.1 | 29.0 | 43.4 |
| 170 | 24.6 | 19.8 | 29.8 |



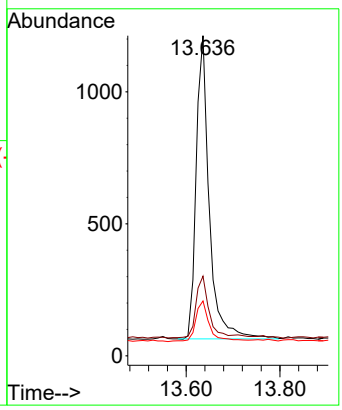


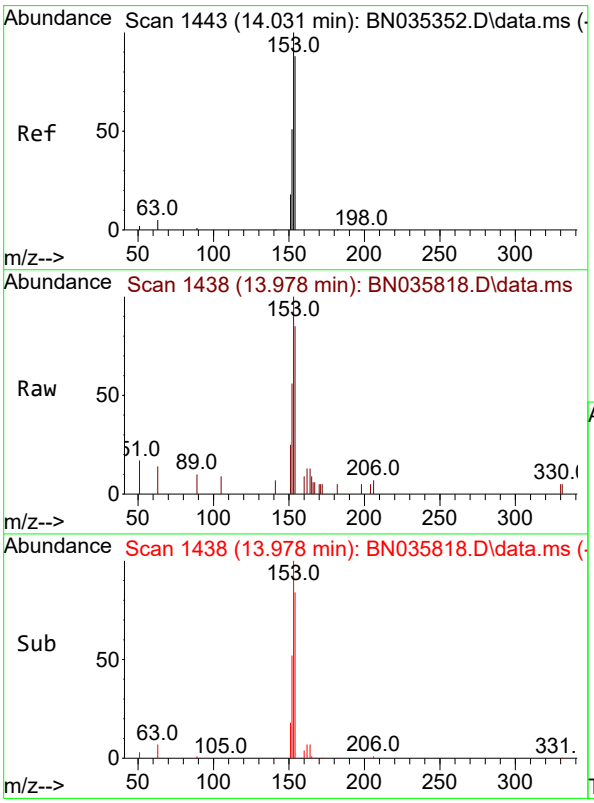

#16
Acenaphthylene
Concen: 0.111 ng
RT: 13.636 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

**Instrument :**
BNA_N
**ClientSampleId :**
DUP-07-20241218

Tgt Ion:152 Resp: 2222

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.4 | 16.2 | 24.2 |
| 153 | 14.4 | 10.4 | 15.6 |

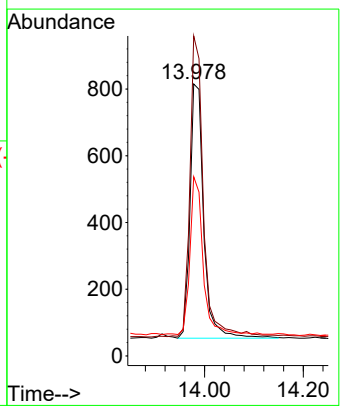


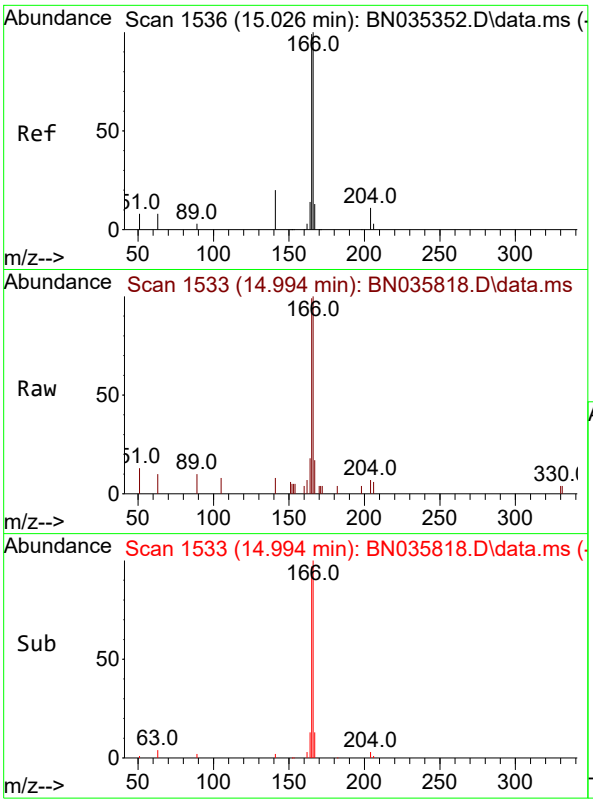




#17
Acenaphthene
Concen: 0.110 ng
RT: 13.978 min Scan# 1438
Delta R.T. -0.021 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

Tgt Ion:154 Resp: 1464

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 116.3 | 92.6 | 139.0 |
| 152 | 58.9 | 49.0 | 73.6 |



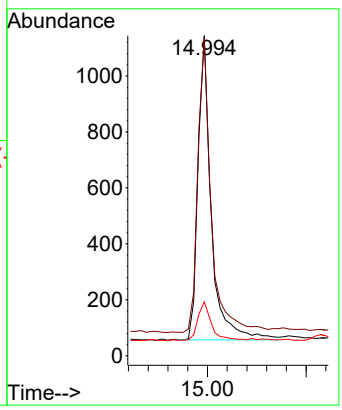


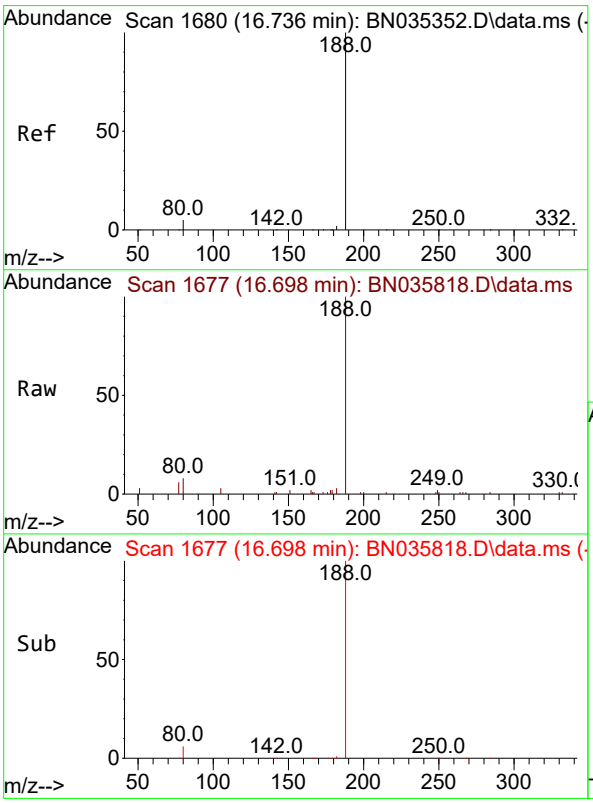

#18
Fluorene
Concen: 0.106 ng
RT: 14.994 min Scan# 1
Delta R.T. -0.011 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

**Instrument :**
BNA_N
**ClientSampleId :**
DUP-07-20241218

Tgt Ion:166 Resp: 2023

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 98.2 | 79.7 | 119.5 |
| 167 | 13.4 | 10.8 | 16.2 |

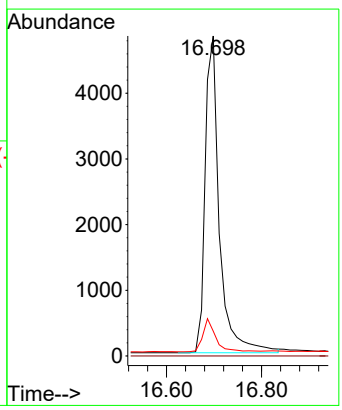


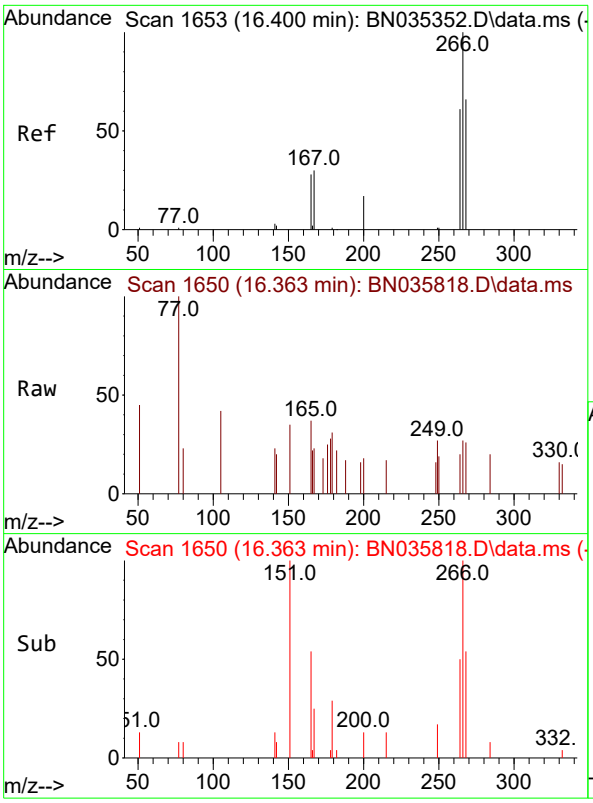




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1677
Delta R.T. -0.000 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

Tgt Ion:188 Resp: 10054

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 7.7 | 4.6 | 6.8# |



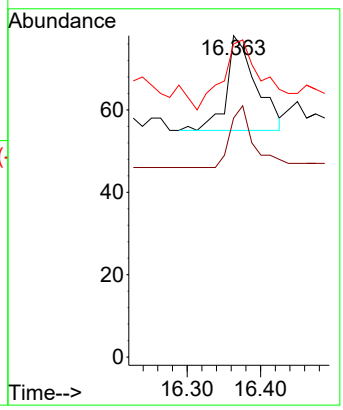


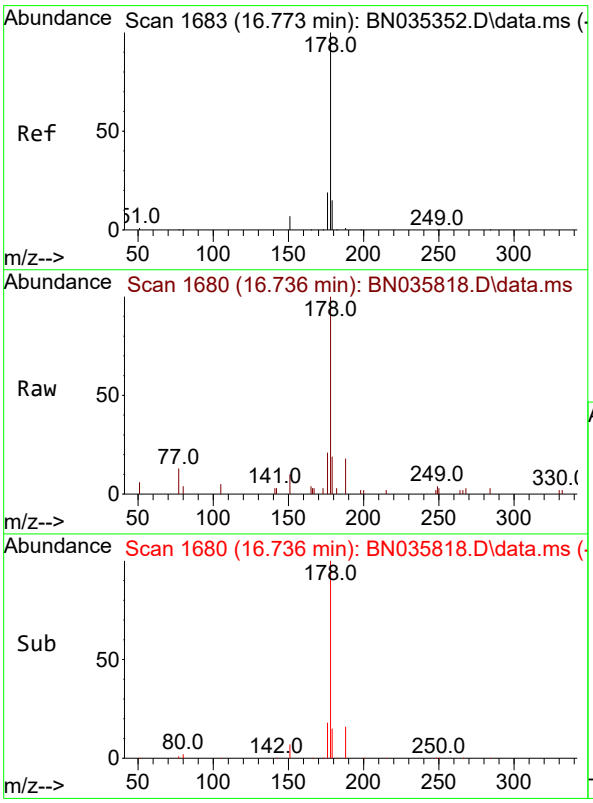

#24
Pentachlorophenol
Concen: 0.021 ng
RT: 16.363 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

**Instrument :**
BNA_N
**ClientSampleId :**
DUP-07-20241218

Tgt Ion:266 Resp: 64

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 264 | 53.1 | 42.3 | 63.5 |
| 268 | 98.4 | 43.3 | 64.9# |

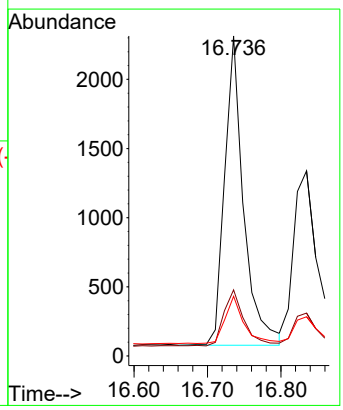


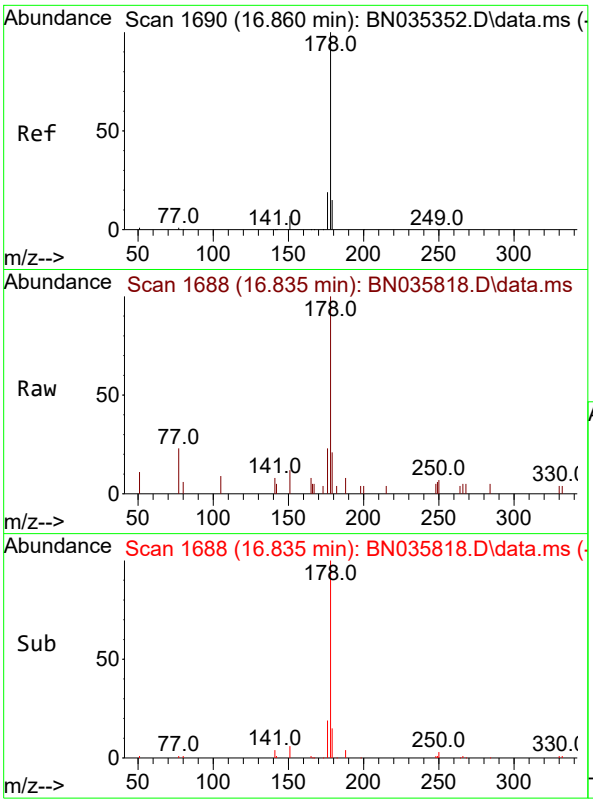




#25
Phenanthrene
Concen: 0.145 ng
RT: 16.736 min Scan# 1680
Delta R.T. -0.012 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

Tgt Ion:178 Resp: 3999

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 20.0 | 15.4 | 23.2 |
| 179 | 16.2 | 12.3 | 18.5 |



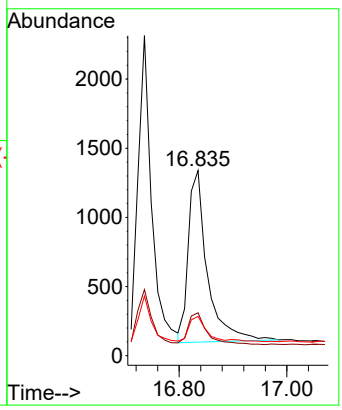


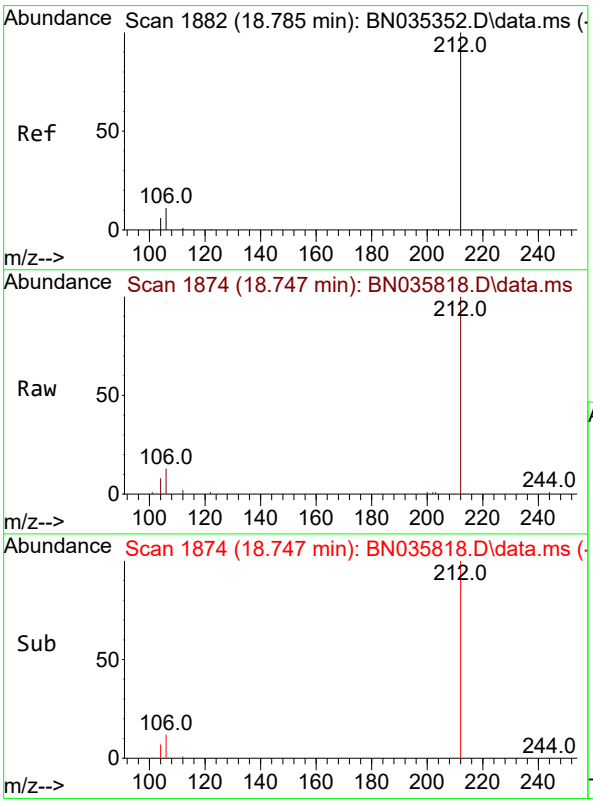

#26
Anthracene
Concen: 0.122 ng
RT: 16.835 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

**Instrument :**
BNA_N
**ClientSampleId :**
DUP-07-20241218

Tgt Ion:178 Resp: 3041

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.8 | 15.0 | 22.6 |
| 179 | 15.2 | 12.6 | 18.8 |

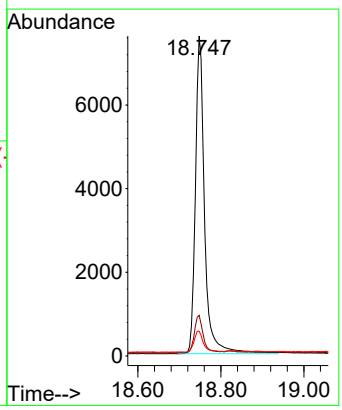


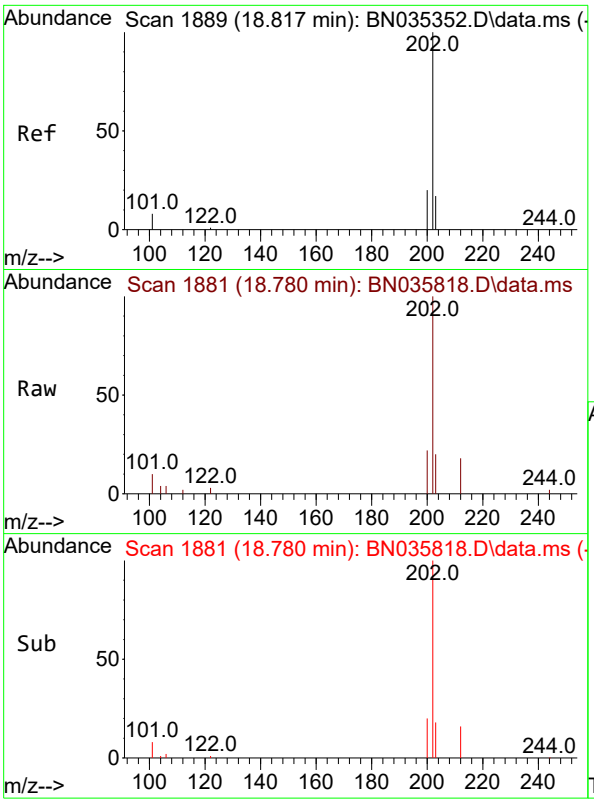




#27
Fluoranthene-d10
Concen: 0.411 ng
RT: 18.747 min Scan# 1874
Delta R.T. -0.014 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

Tgt Ion:212 Resp: 11709

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 11.3 | 9.2 | 13.8 |
| 104 | 6.8 | 5.3 | 7.9 |



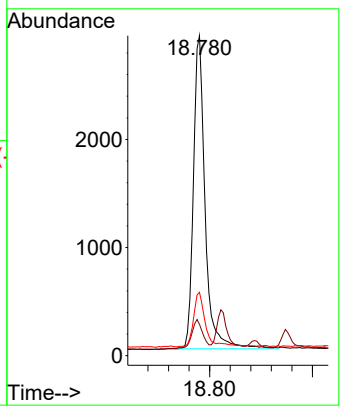


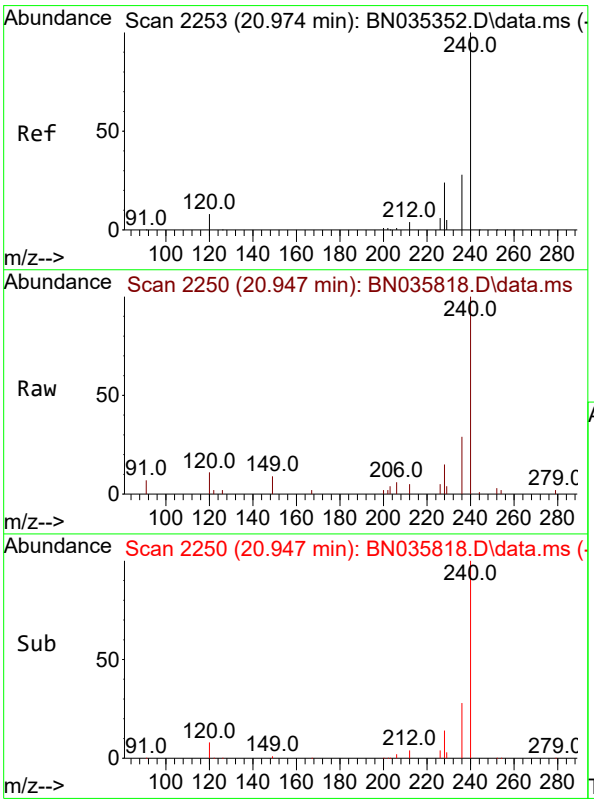

#28
Fluoranthene
Concen: 0.124 ng
RT: 18.780 min Scan# 1
Delta R.T. -0.009 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

**Instrument :**
BNA_N
**ClientSampleId :**
DUP-07-20241218

Tgt Ion:202 Resp: 4605

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 9.4 | 7.4 | 11.0 |
| 203 | 18.0 | 13.7 | 20.5 |

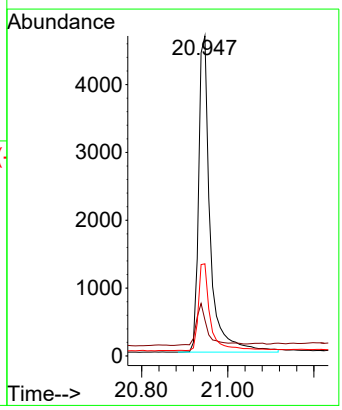


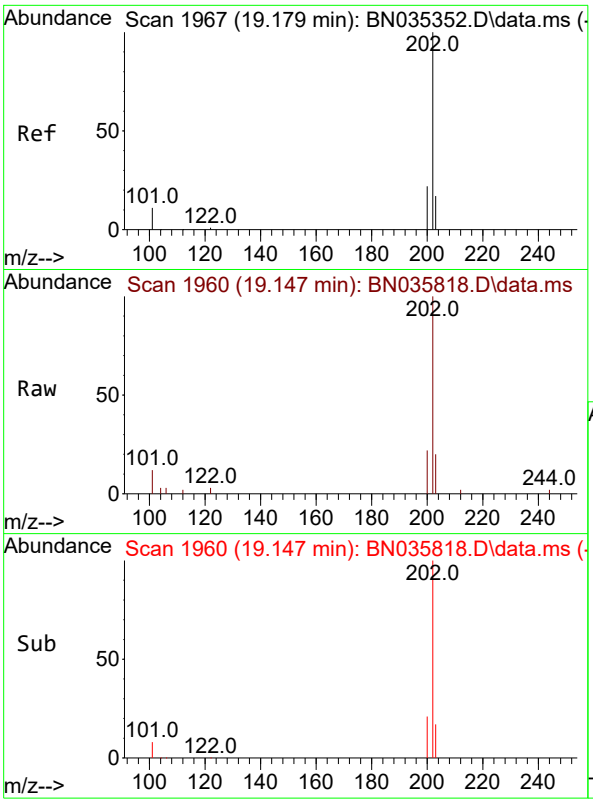




#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2250
Delta R.T. -0.009 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

Tgt Ion:240 Resp: 8730

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 11.3 | 7.9 | 11.9 |
| 236 | 28.8 | 22.9 | 34.3 |



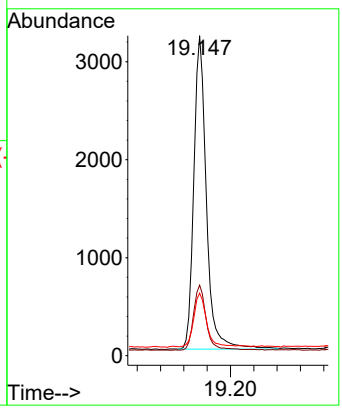


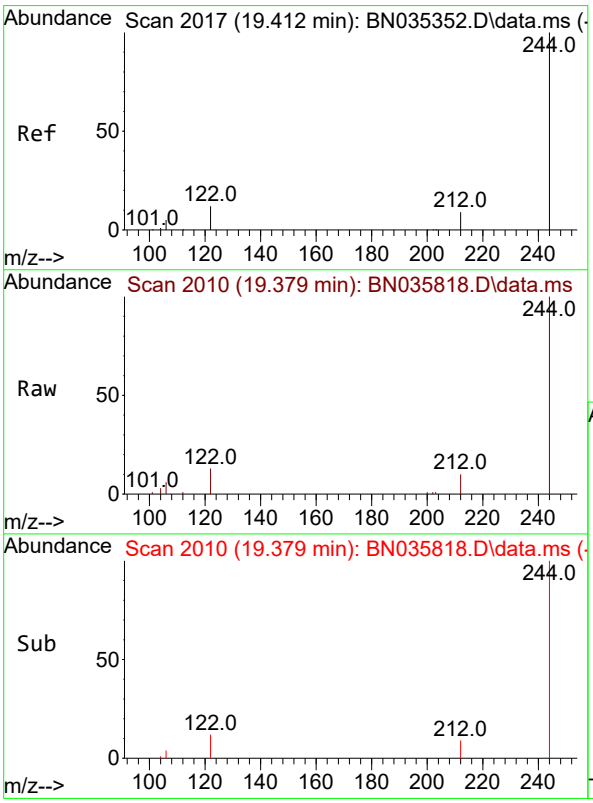

#30
Pyrene
Concen: 0.148 ng
RT: 19.147 min Scan# 1
Delta R.T. -0.014 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

**Instrument :**
BNA_N
**ClientSampleId :**
DUP-07-20241218

Tgt Ion:202 Resp: 4782

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.1 | 17.0 | 25.4 |
| 203 | 17.1 | 14.3 | 21.5 |

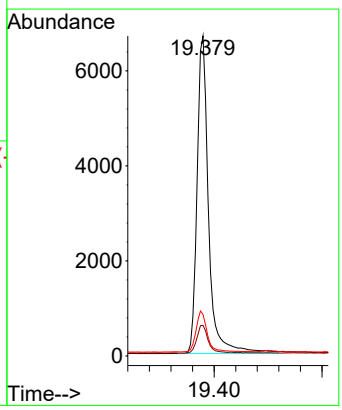


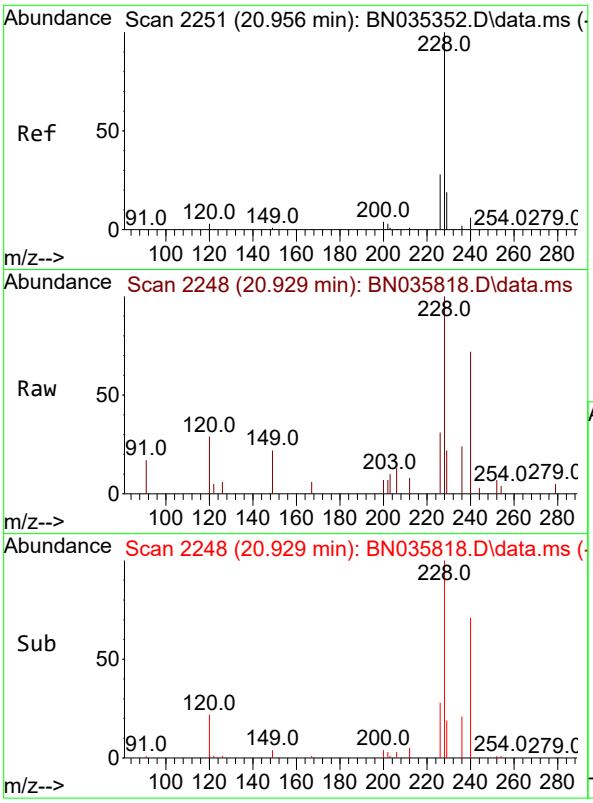




#31
Terphenyl-d14
Concen: 0.577 ng
RT: 19.379 min Scan# 2010
Delta R.T. -0.009 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

Tgt Ion:244 Resp: 9932

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 9.6 | 8.1 | 12.1 |
| 122 | 13.0 | 10.3 | 15.5 |



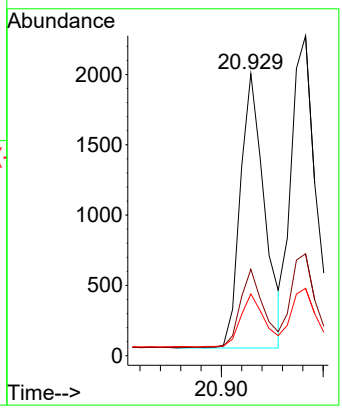


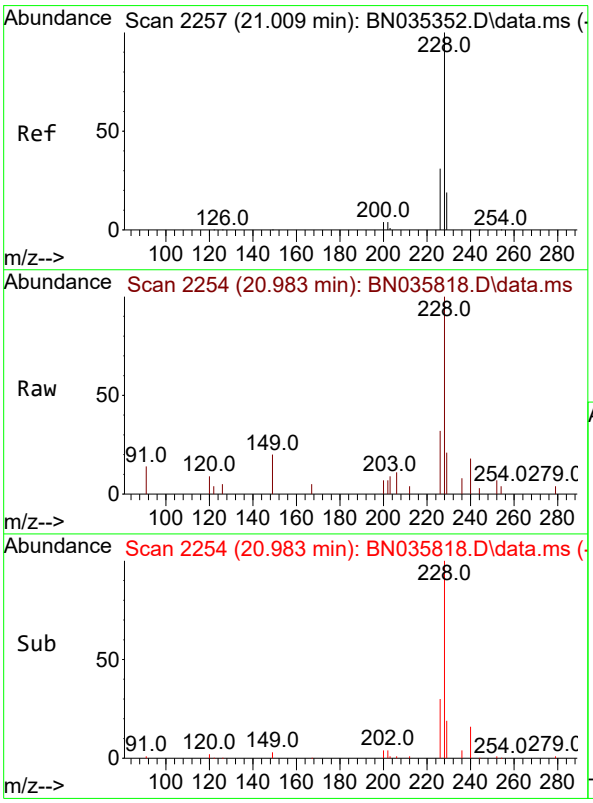

#32
Benzo(a)anthracene
Concen: 0.105 ng
RT: 20.929 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

**Instrument :**
BNA_N
**ClientSampleId :**
DUP-07-20241218

Tgt Ion:228 Resp: 3217

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 30.7 | 22.5 | 33.7 |
| 229 | 21.9 | 15.8 | 23.8 |

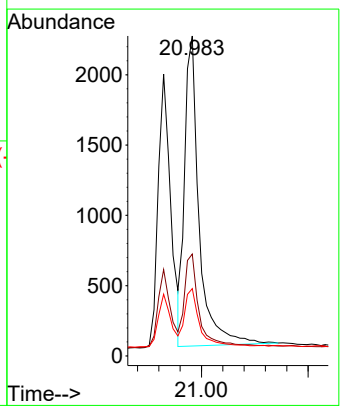


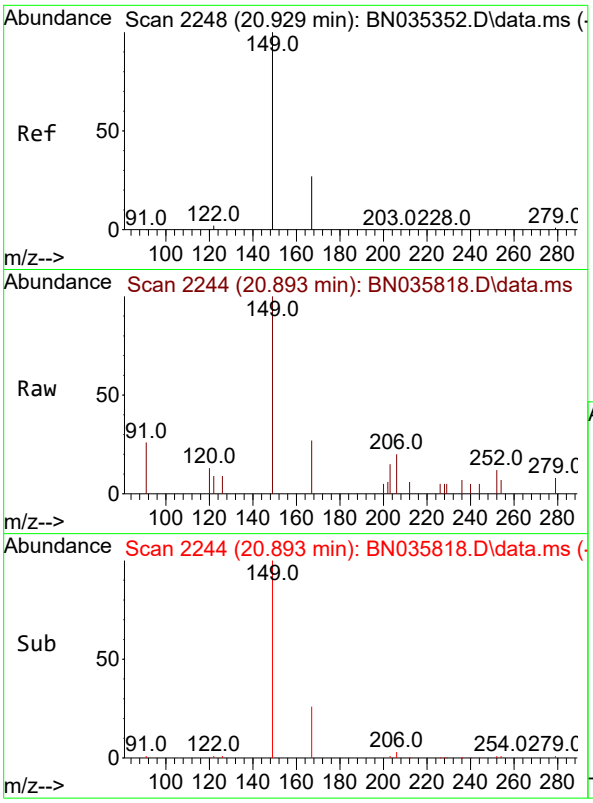




#33
Chrysene
Concen: 0.132 ng
RT: 20.983 min Scan# 2254
Delta R.T. -0.009 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

Tgt Ion:228 Resp: 4153

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 31.9 | 24.6 | 37.0 |
| 229 | 21.0 | 15.9 | 23.9 |



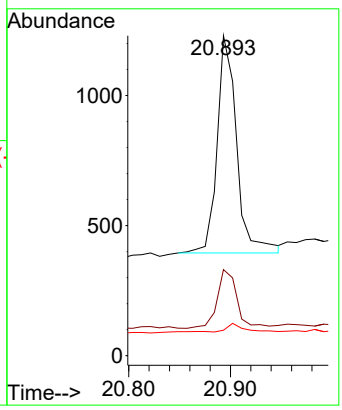


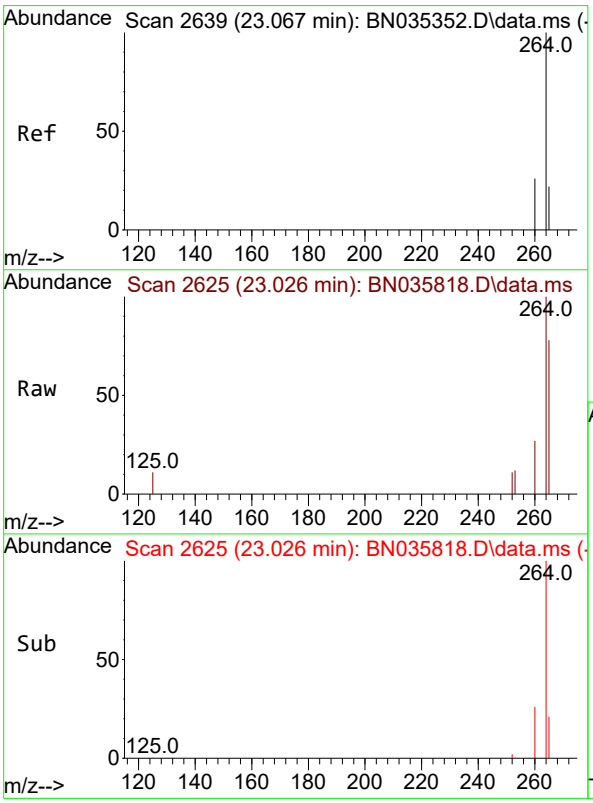

#34
Bis(2-ethylhexyl)phthalate
Concen: 0.092 ng
RT: 20.893 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

**Instrument :**
BNA_N
**ClientSampleId :**
DUP-07-20241218

Tgt Ion:149 Resp: 1111

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 27.5 | 22.2 | 33.4 |
| 279 | 3.2 | 2.7 | 4.1 |

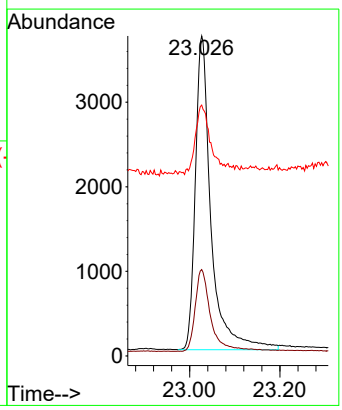


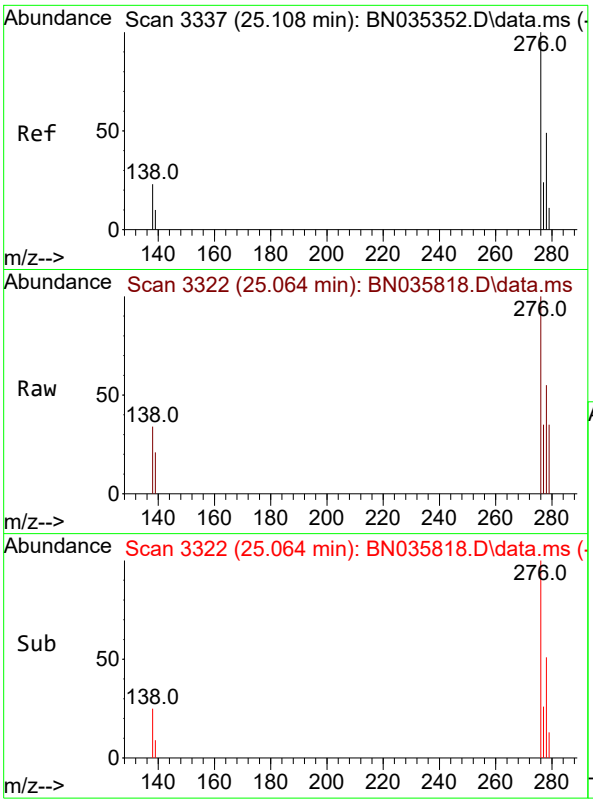




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.026 min Scan# 2625
Delta R.T. -0.015 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

Tgt Ion:264 Resp: 8948

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 27.0 | 21.4 | 32.2 |
| 265 | 78.4 | 40.2 | 60.4# |



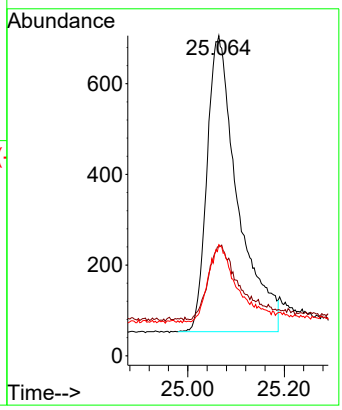


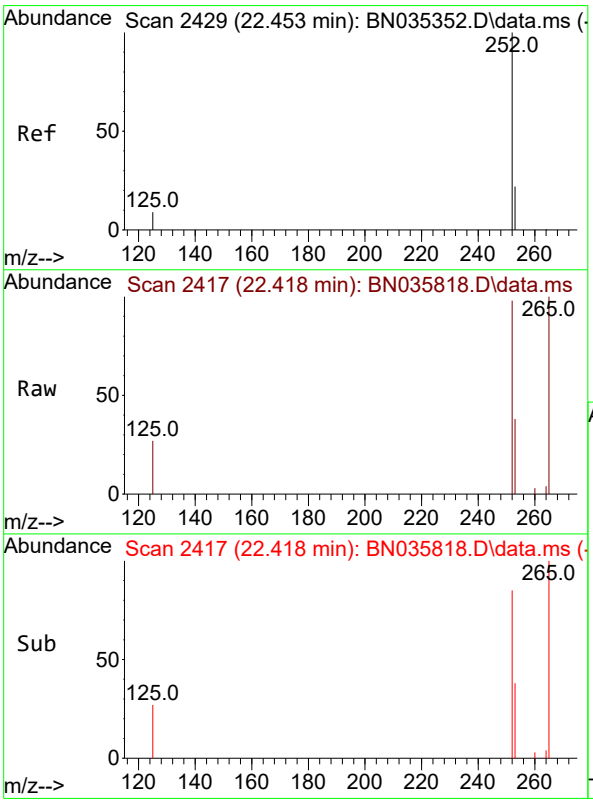

#36
Indeno(1,2,3-cd)pyrene
Concen: 0.082 ng
RT: 25.064 min Scan# 3
Delta R.T. -0.003 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

**Instrument :**
BNA_N
**ClientSampleId :**
DUP-07-20241218

Tgt Ion:276 Resp: 2885

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 24.9 | 19.4 | 29.0 |
| 277 | 22.5 | 19.8 | 29.6 |

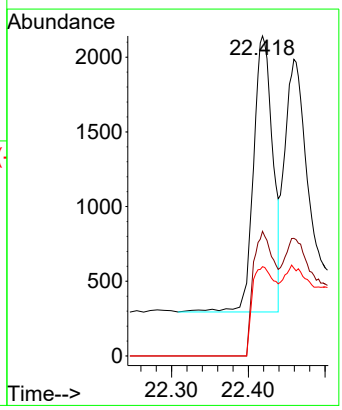


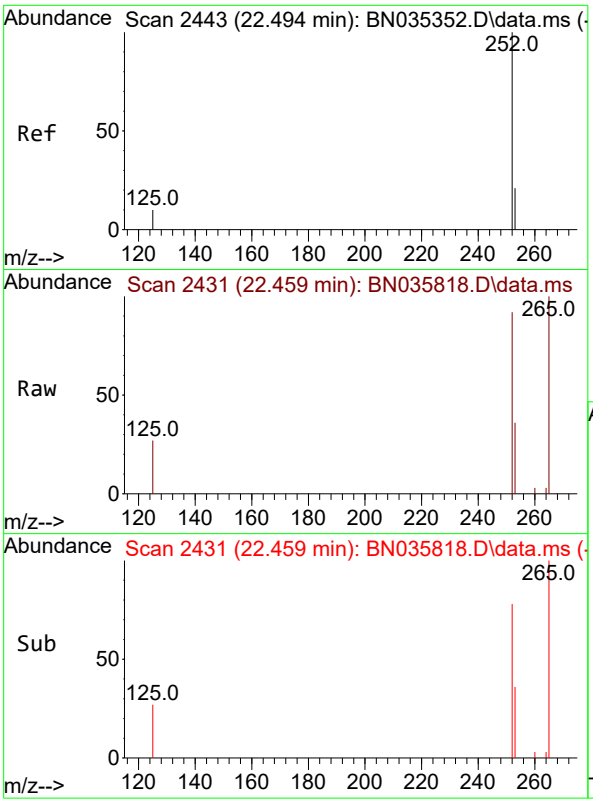




#37
Benzo(b)fluoranthene
Concen: 0.180 ng
RT: 22.418 min Scan# 2417
Delta R.T. -0.012 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

Tgt Ion:252 Resp: 5898

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 38.9 | 19.6 | 29.4# |
| 125 | 27.9 | 9.6 | 14.4# |



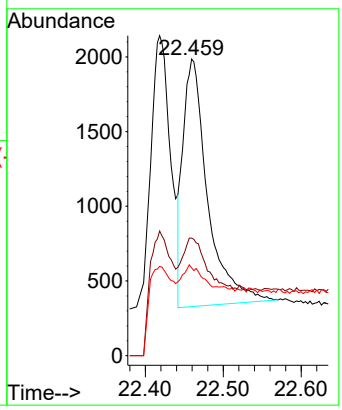


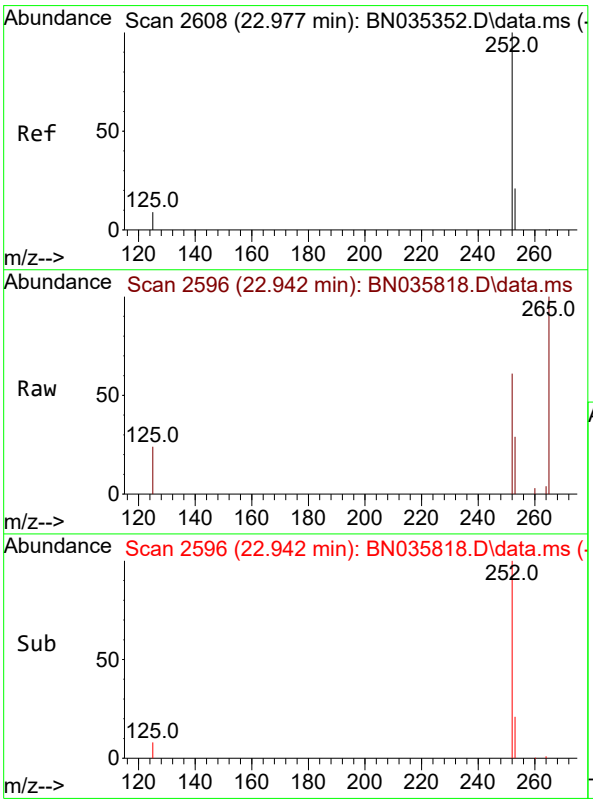

#38
Benzo(k)fluoranthene
Concen: 0.113 ng
RT: 22.459 min Scan# 24
Delta R.T. -0.012 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

**Instrument :**
BNA_N
**ClientSampleId :**
DUP-07-20241218

Tgt Ion:252 Resp: 3643

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 39.6 | 19.5 | 29.3# |
| 125 | 29.6 | 10.2 | 15.4# |

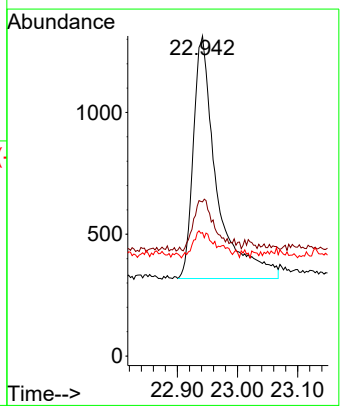


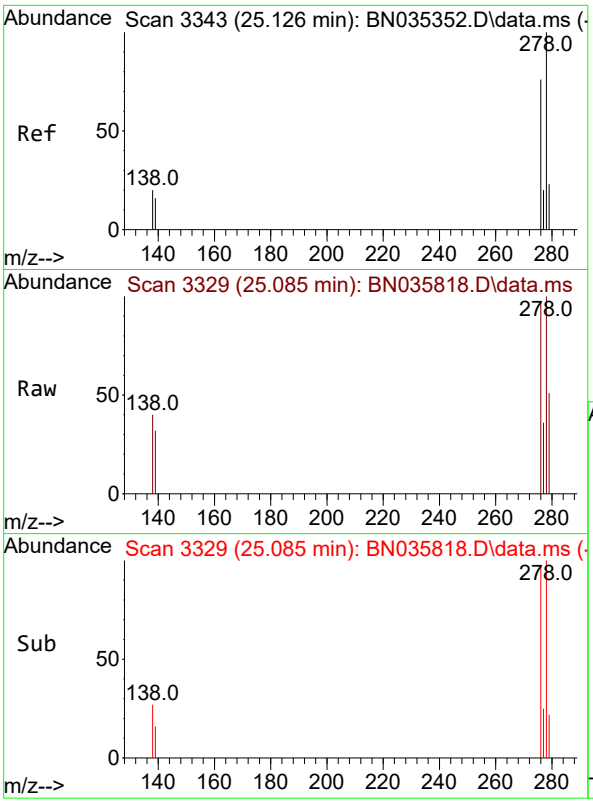




#39
Benzo(a)pyrene
Concen: 0.100 ng
RT: 22.942 min Scan# 2596
Delta R.T. -0.009 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

Tgt Ion:252 Resp: 2686

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 48.2 | 20.2 | 30.4# |
| 125 | 38.6 | 10.9 | 16.3# |



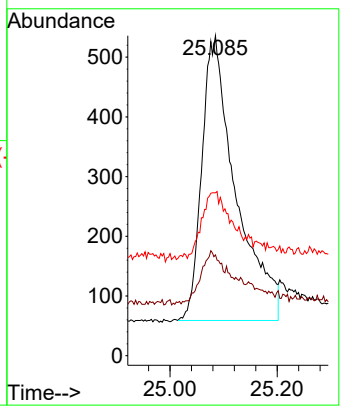


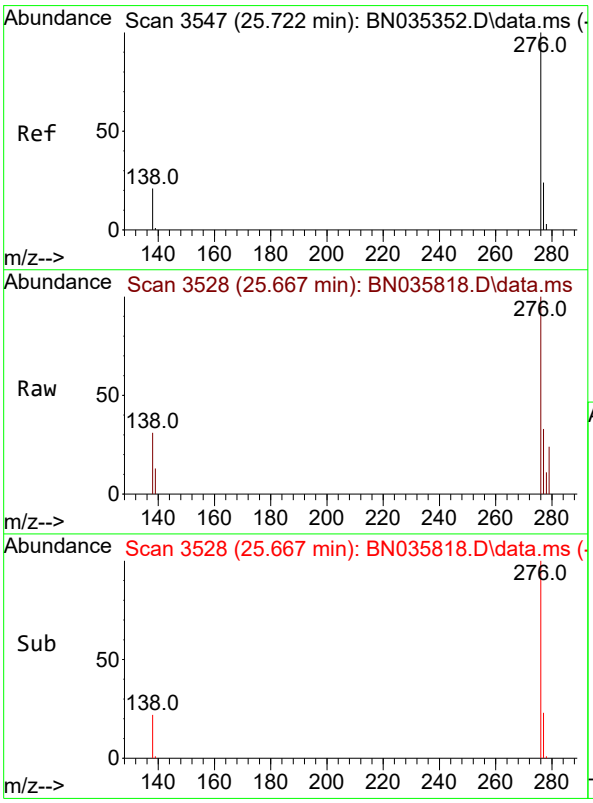

#40
Dibenzo(a,h)anthracene
Concen: 0.076 ng
RT: 25.085 min Scan# 3
Delta R.T. 0.003 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

**Instrument :**
BNA_N
**ClientSampleId :**
DUP-07-20241218

Tgt Ion:278 Resp: 2103

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 31.5 | 14.2 | 21.4# |
| 279 | 50.9 | 20.5 | 30.7# |

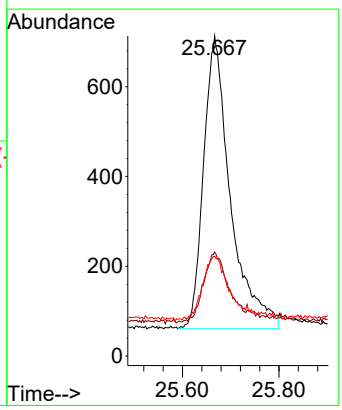



#41
Benzo(g,h,i)perylene
Concen: 0.087 ng
RT: 25.667 min Scan# 3528
Delta R.T. -0.012 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

Tgt Ion:276 Resp: 2516

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 32.5 | 19.9 | 29.9# |
| 138 | 31.1 | 17.8 | 26.8# |



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035819.D
Acq On : 24 Dec 2024 13:44
Operator : RC/JU
Sample : P5376-06
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
TT174I1-20241218

Quant Time: Dec 24 23:18:17 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

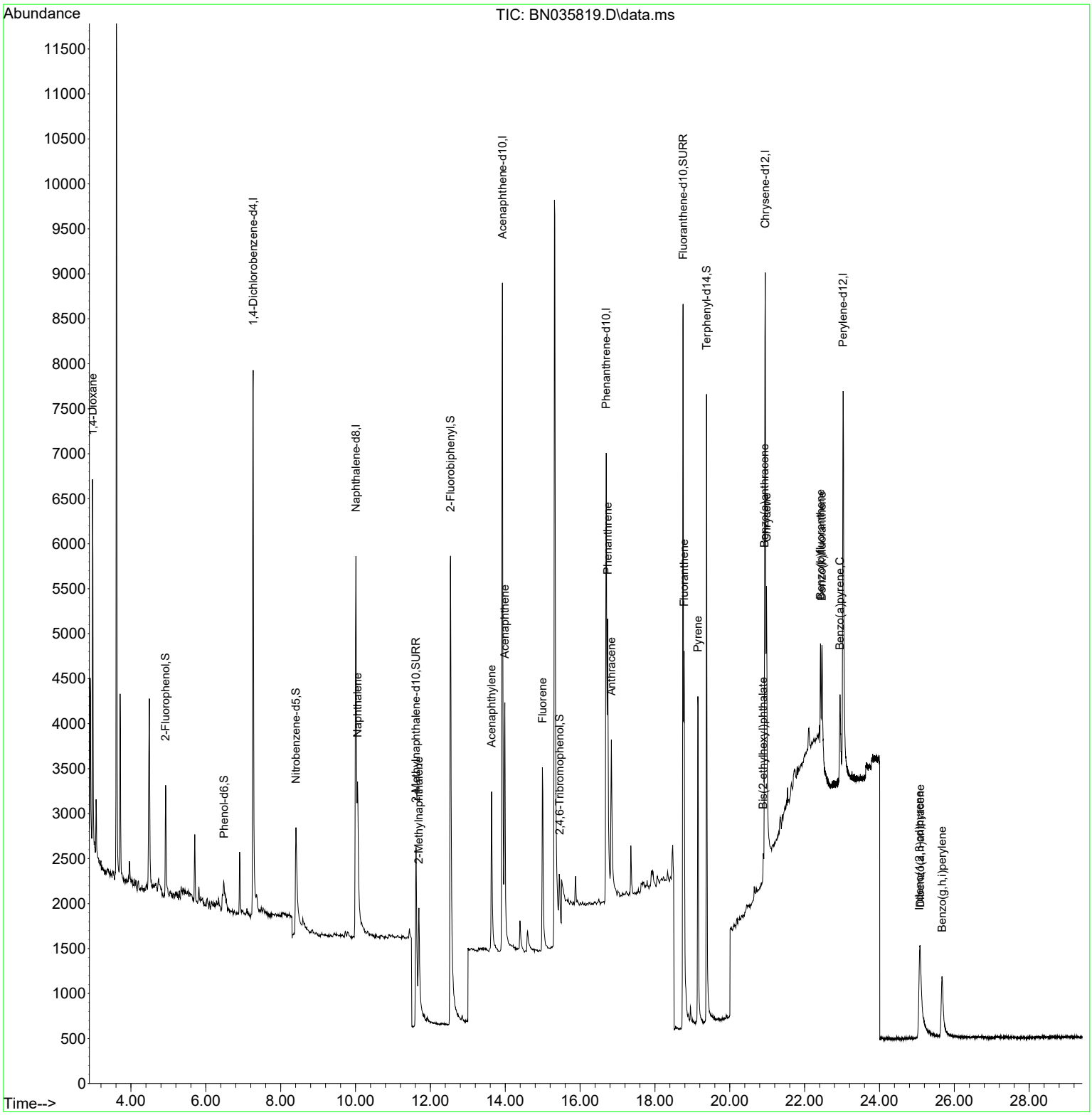
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.264 | 152 | 3689 | 0.400 | ng | 0.00 |
| 7) Naphthalene-d8 | 10.009 | 136 | 8470 | 0.400 | ng | -0.01 |
| 13) Acenaphthene-d10 | 13.924 | 164 | 5265 | 0.400 | ng | -0.01 |
| 19) Phenanthrene-d10 | 16.698 | 188 | 9421 | 0.400 | ng | # 0.00 |
| 29) Chrysene-d12 | 20.947 | 240 | 7347 | 0.400 | ng | # 0.00 |
| 35) Perylene-d12 | 23.026 | 264 | 7210 | 0.400 | ng | #-0.01 |
| System Monitoring Compounds | | | | | | |
| 4) 2-Fluorophenol | 4.924 | 112 | 1128 | 0.122 | ng | -0.01 |
| 5) Phenol-d6 | 6.484 | 99 | 578 | 0.052 | ng | 0.00 |
| 8) Nitrobenzene-d5 | 8.407 | 82 | 3126 | 0.604 | ng | 0.00 |
| 11) 2-Methylnaphthalene-d10 | 11.615 | 152 | 4896 | 0.369 | ng | 0.00 |
| 14) 2,4,6-Tribromophenol | 15.453 | 330 | 747 | 0.200 | ng | 0.00 |
| 15) 2-Fluorobiphenyl | 12.538 | 172 | 8403 | 0.422 | ng | 0.00 |
| 27) Fluoranthene-d10 | 18.752 | 212 | 11207 | 0.420 | ng | 0.00 |
| 31) Terphenyl-d14 | 19.379 | 244 | 8308 | 0.573 | ng | 0.00 |
| Target Compounds | | | | | | Qvalue |
| 2) 1,4-Dioxane | 2.974 | 88 | 2834 | 0.804 | ng | 99 |
| 9) Naphthalene | 10.052 | 128 | 2295 | 0.103 | ng | # 90 |
| 12) 2-Methylnaphthalene | 11.691 | 142 | 1434 | 0.090 | ng | # 92 |
| 16) Acenaphthylene | 13.636 | 152 | 2575 | 0.116 | ng | 99 |
| 17) Acenaphthene | 13.988 | 154 | 1536 | 0.105 | ng | 96 |
| 18) Fluorene | 14.993 | 166 | 1937 | 0.092 | ng | 99 |
| 25) Phenanthrene | 16.735 | 178 | 3558 | 0.137 | ng | 99 |
| 26) Anthracene | 16.835 | 178 | 2627 | 0.112 | ng | 99 |
| 28) Fluoranthene | 18.780 | 202 | 3772 | 0.108 | ng | 99 |
| 30) Pyrene | 19.147 | 202 | 3996 | 0.147 | ng | 100 |
| 32) Benzo(a)anthracene | 20.929 | 228 | 2328 | 0.091 | ng | 95 |
| 33) Chrysene | 20.982 | 228 | 3355 | 0.127 | ng | 96 |
| 34) Bis(2-ethylhexyl)phtha... | 20.893 | 149 | 357 | 0.035 | ng | # 96 |
| 36) Indeno(1,2,3-cd)pyrene | 25.067 | 276 | 2032 | 0.072 | ng | # 86 |
| 37) Benzo(b)fluoranthene | 22.421 | 252 | 3012 | 0.114 | ng | # 58 |
| 38) Benzo(k)fluoranthene | 22.462 | 252 | 2589 | 0.100 | ng | # 56 |
| 39) Benzo(a)pyrene | 22.944 | 252 | 1842 | 0.085 | ng | # 32 |
| 40) Dibenzo(a,h)anthracene | 25.090 | 278 | 1565 | 0.070 | ng | # 43 |
| 41) Benzo(g,h,i)perylene | 25.672 | 276 | 1852 | 0.080 | ng | # 78 |

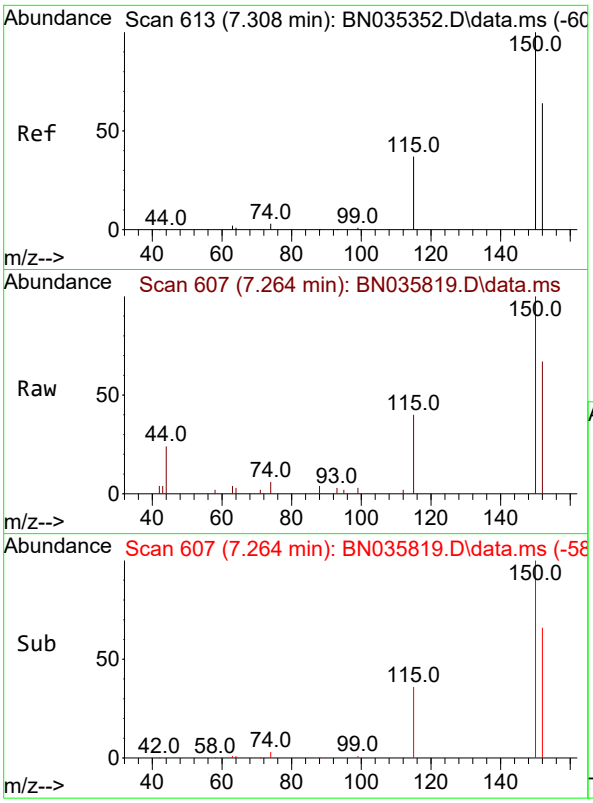
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035819.D
Acq On : 24 Dec 2024 13:44
Operator : RC/JU
Sample : P5376-06
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
TT174I1-20241218

Quant Time: Dec 24 23:18:17 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



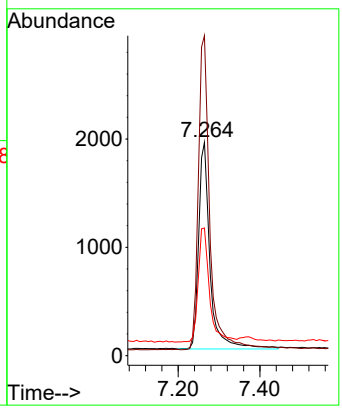


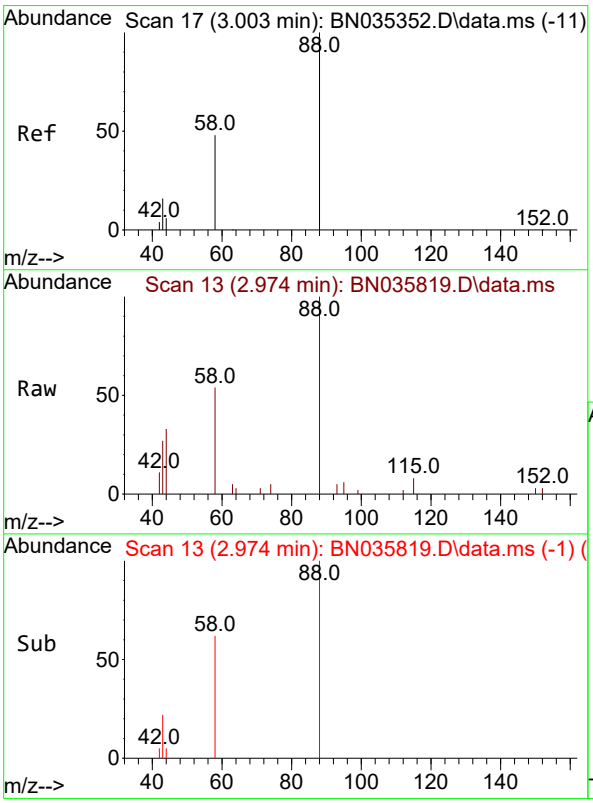

#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.264 min Scan# 6
Delta R.T. -0.008 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

**Instrument :**
BNA_N
**ClientSampleId :**
TT174l1-20241218

Tgt Ion:152 Resp: 3689

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 150.0 | 124.0 | 186.0 |
| 115 | 59.8 | 49.6 | 74.4 |

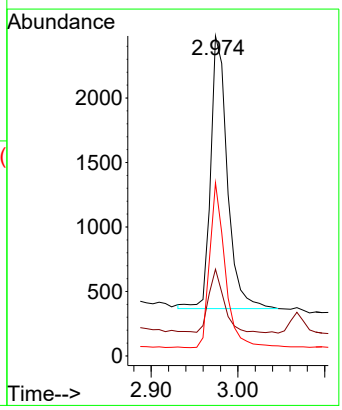


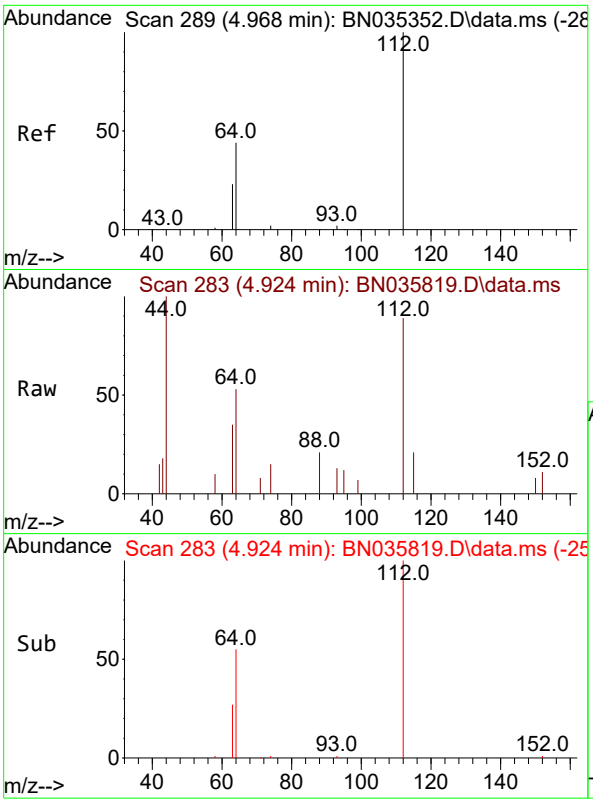




#2
1,4-Dioxane
Concen: 0.804 ng
RT: 2.974 min Scan# 13
Delta R.T. -0.008 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

Tgt Ion: 88 Resp: 2834

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 21.2 | 17.2 | 25.8 |
| 58 | 56.3 | 44.5 | 66.7 |



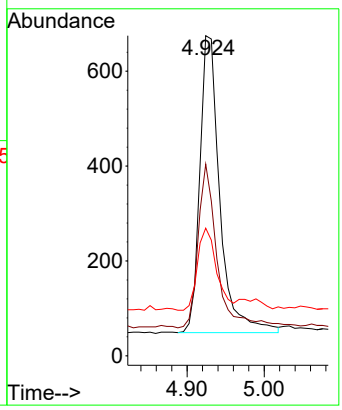


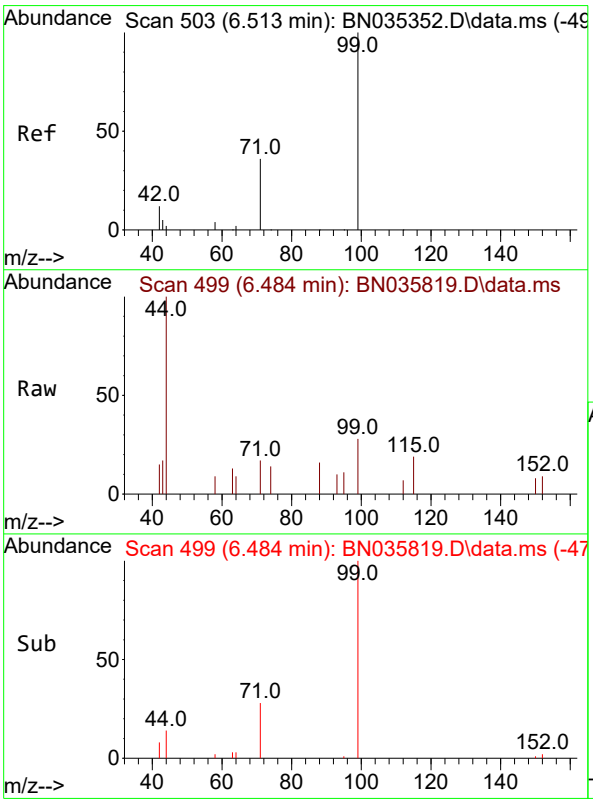

#4
2-Fluorophenol
Concen: 0.122 ng
RT: 4.924 min Scan# 2
Delta R.T. -0.015 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

**Instrument :**
BNA_N
**ClientSampleId :**
TT174I1-20241218

Tgt Ion:112 Resp: 1128

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 53.3 | 39.8 | 59.8 |
| 63 | 26.3 | 21.0 | 31.6 |

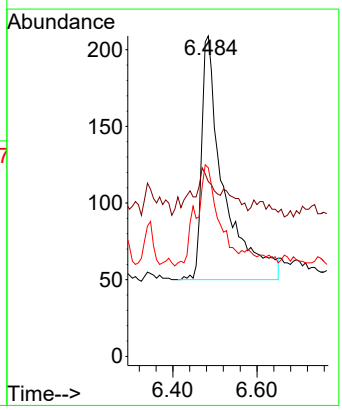


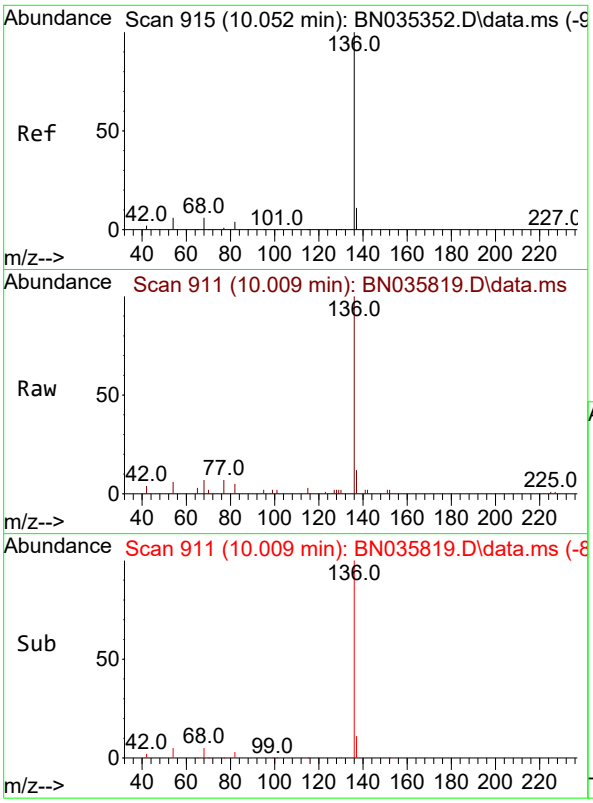




#5
Phenol-d6
Concen: 0.052 ng
RT: 6.484 min Scan# 499
Delta R.T. -0.008 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

Tgt Ion: 99 Resp: 578

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 5.5 | 11.4 | 17.2# |
| 71 | 42.2 | 29.3 | 43.9 |



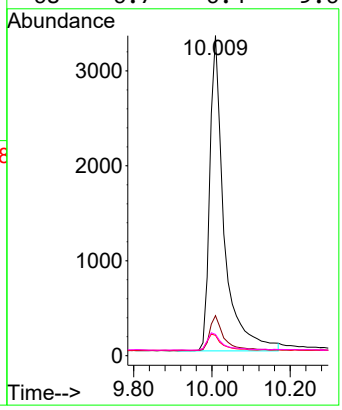


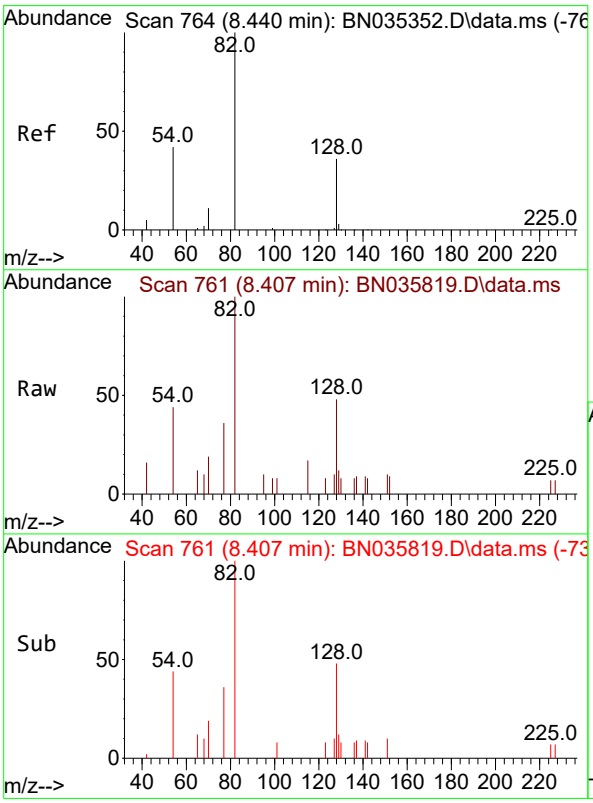

#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

**Instrument :**
BNA_N
**ClientSampleId :**
TT174l1-20241218

Tgt Ion:136 Resp: 8470

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 12.5 | 10.2 | 15.2 |
| 54 | 6.4 | 6.1 | 9.1 |
| 68 | 6.7 | 6.4 | 9.6 |

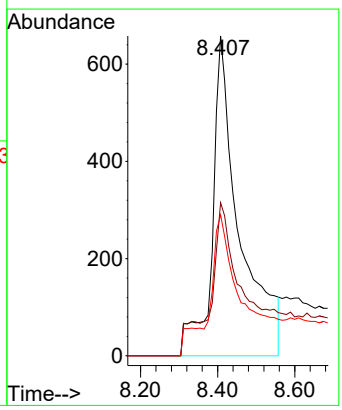


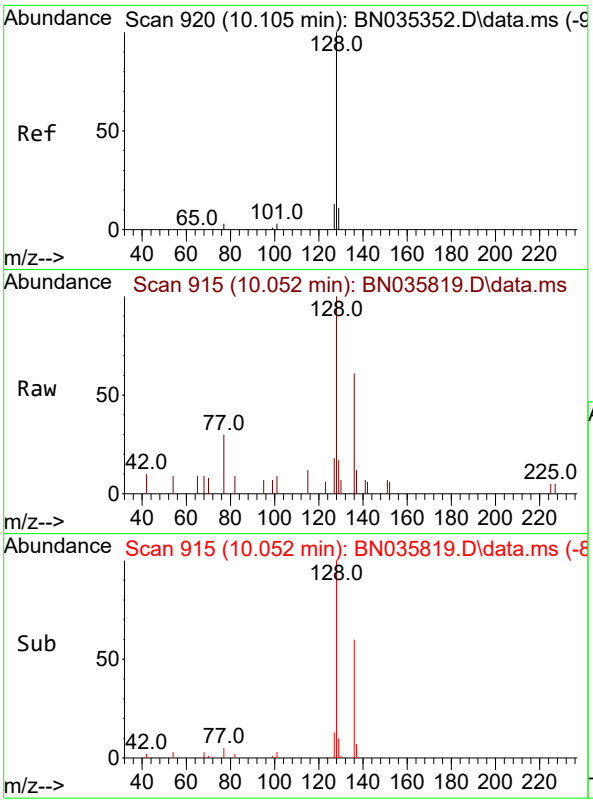




#8
Nitrobenzene-d5
Concen: 0.604 ng
RT: 8.407 min Scan# 761
Delta R.T. -0.000 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

Tgt Ion: 82 Resp: 3126

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 47.9 | 33.4 | 50.0 |
| 54 | 44.1 | 36.7 | 55.1 |



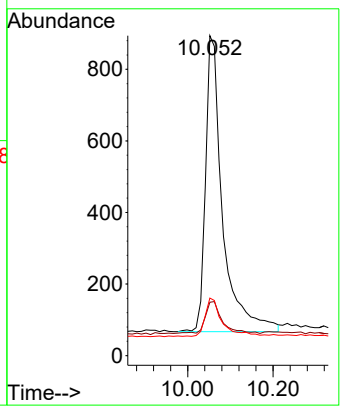


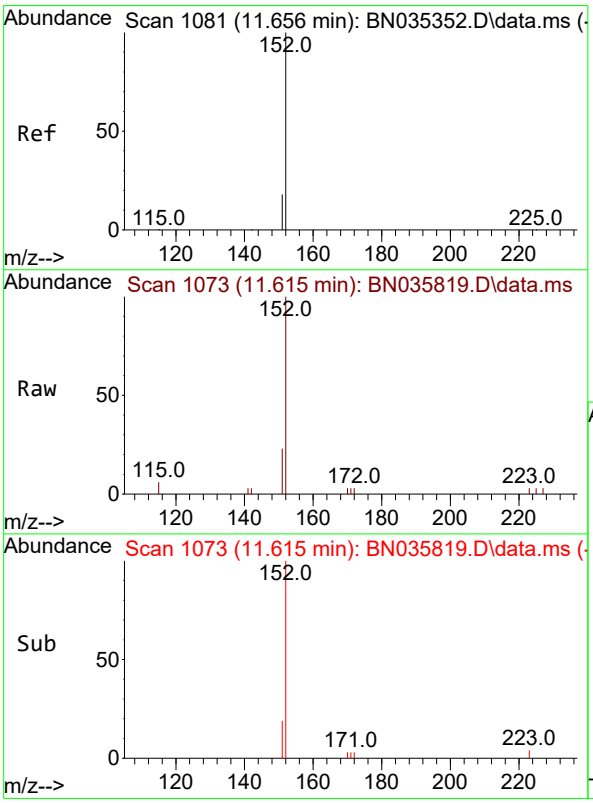

#9
Naphthalene
Concen: 0.103 ng
RT: 10.052 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

**Instrument :**
BNA_N
**ClientSampleId :**
TT174I1-20241218

Tgt Ion:128 Resp: 2295

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 16.7 | 9.8 | 14.6# |
| 127 | 18.0 | 11.4 | 17.2# |

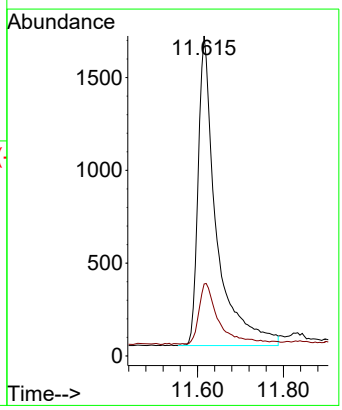


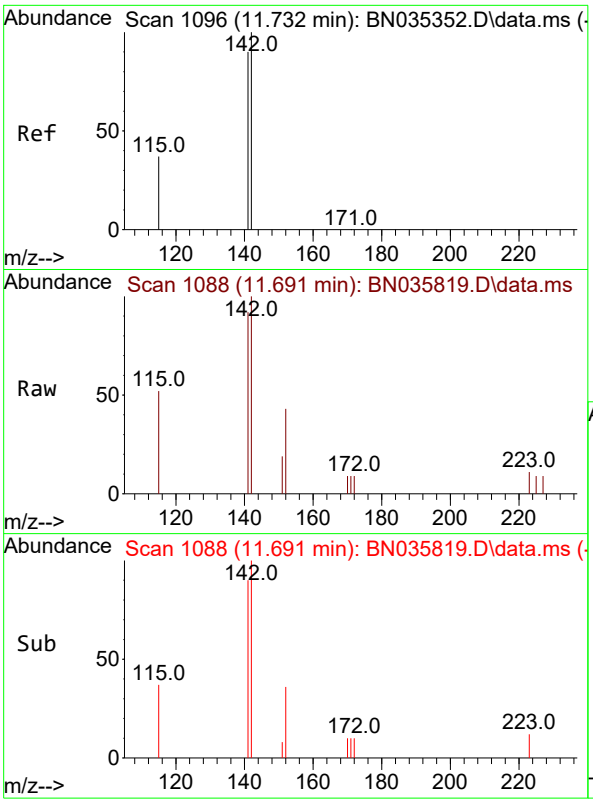




#11
2-Methylnaphthalene-d10
Concen: 0.369 ng
RT: 11.615 min Scan# 1073
Delta R.T. -0.005 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

Tgt Ion:152 Resp: 4896

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 21.1 | 16.6 | 25.0 |



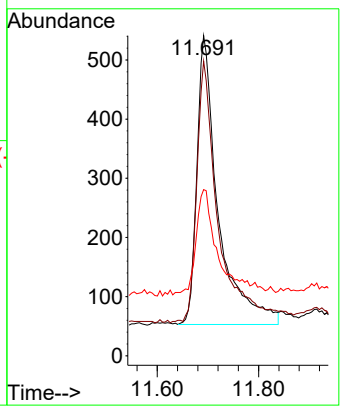


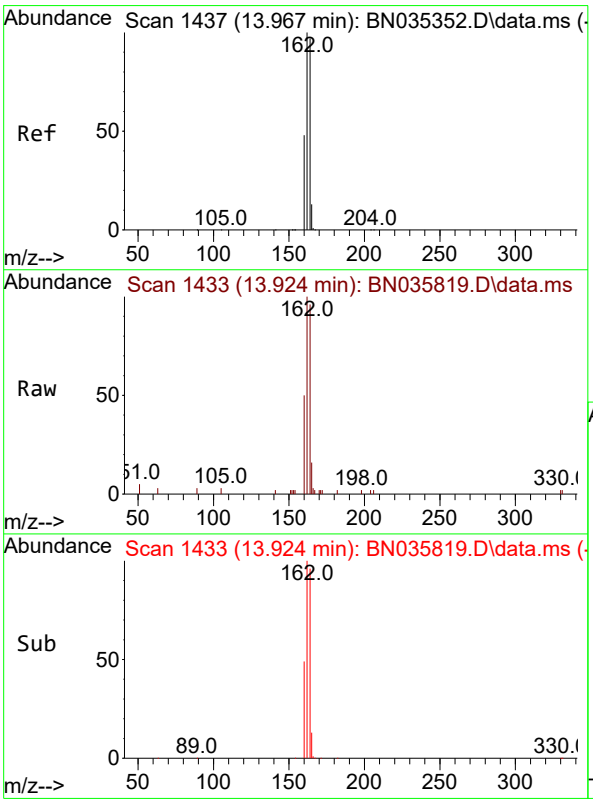

#12
2-Methylnaphthalene
Concen: 0.090 ng
RT: 11.691 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

**Instrument :**
BNA_N
**ClientSampleId :**
TT174I1-20241218

Tgt Ion:142 Resp: 1434

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 92.1 | 72.2 | 108.4 |
| 115 | 51.9 | 31.4 | 47.0# |

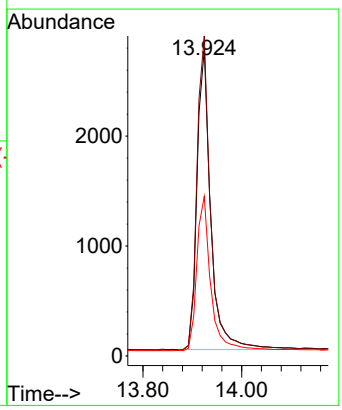


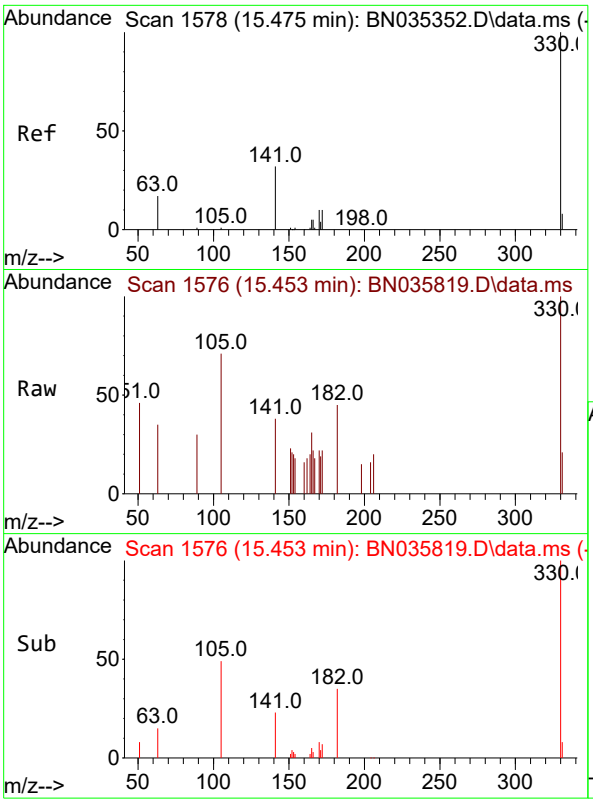




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.924 min Scan# 1433
Delta R.T. -0.011 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

Tgt Ion:164 Resp: 5265

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 104.3 | 82.2 | 123.2 |
| 160 | 52.0 | 40.1 | 60.1 |



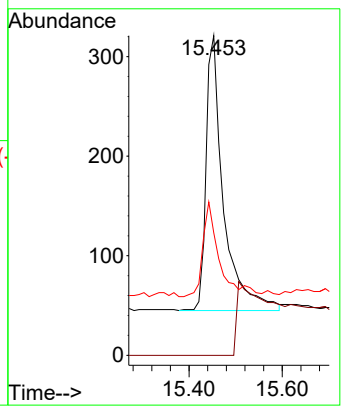


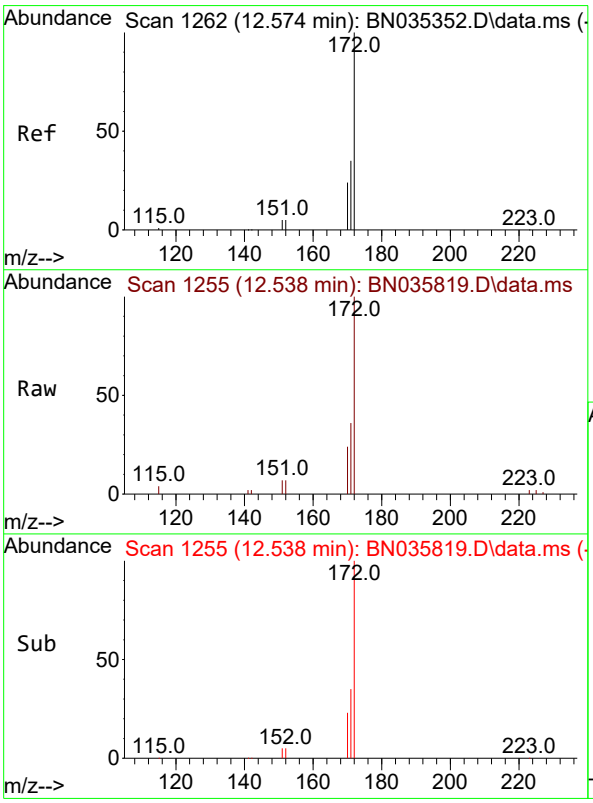

#14
2,4,6-Tribromophenol
Concen: 0.200 ng
RT: 15.453 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

**Instrument :**
BNA_N
**ClientSampleId :**
TT174l1-20241218

Tgt Ion:330 Resp: 747

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 0.0 | 0.0 | 0.0 |
| 141 | 32.3 | 26.6 | 40.0 |

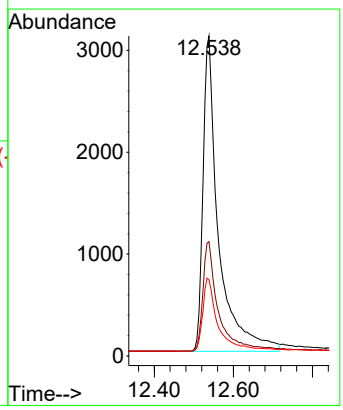


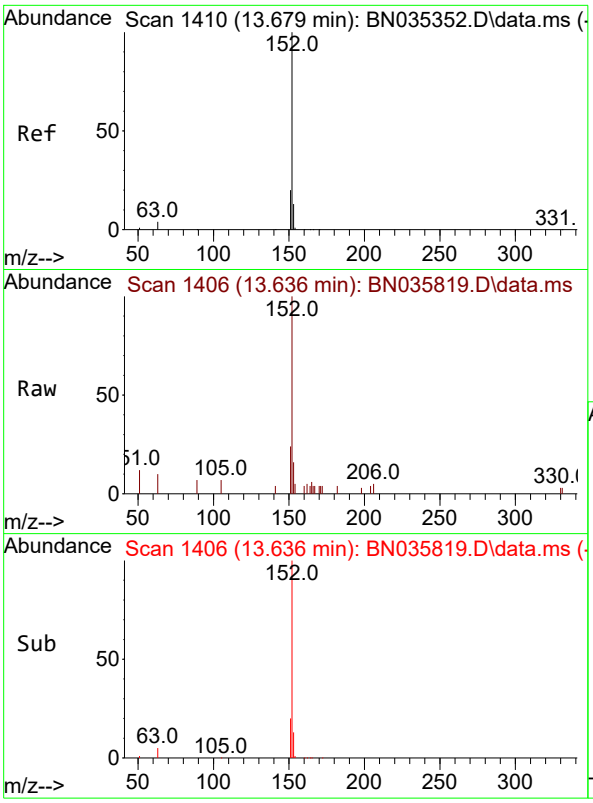




#15
2-Fluorobiphenyl
Concen: 0.422 ng
RT: 12.538 min Scan# 1255
Delta R.T. -0.005 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

Tgt Ion:172 Resp: 8403

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 35.7 | 29.0 | 43.4 |
| 170 | 23.8 | 19.8 | 29.8 |



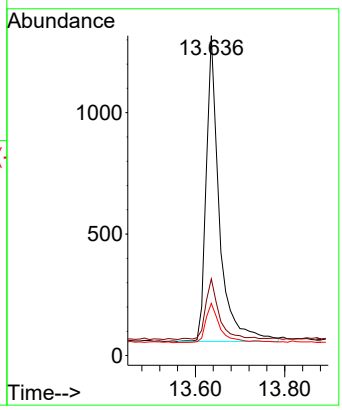


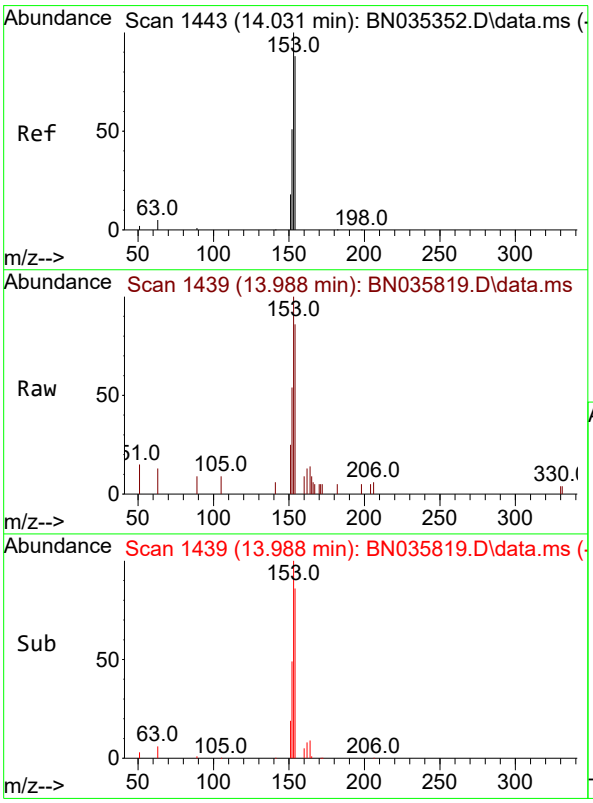

#16
Acenaphthylene
Concen: 0.116 ng
RT: 13.636 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

**Instrument :**
BNA_N
**ClientSampleId :**
TT174l1-20241218

Tgt Ion:152 Resp: 2575

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.7 | 16.2 | 24.2 |
| 153 | 13.3 | 10.4 | 15.6 |

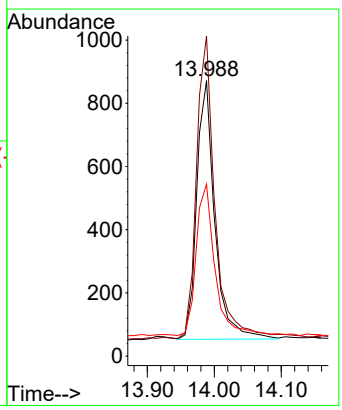


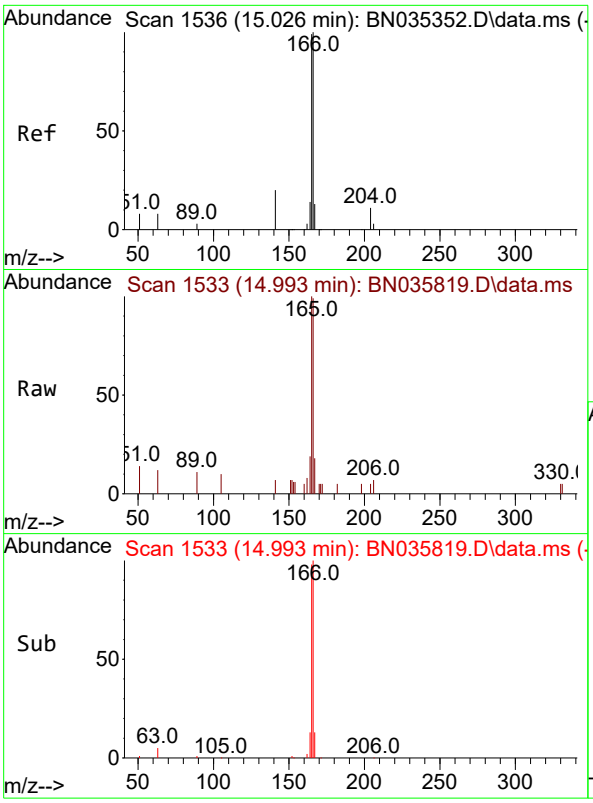




#17
Acenaphthene
Concen: 0.105 ng
RT: 13.988 min Scan# 1439
Delta R.T. -0.011 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

Tgt Ion:154 Resp: 1536

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 122.4 | 92.6 | 139.0 |
| 152 | 61.7 | 49.0 | 73.6 |



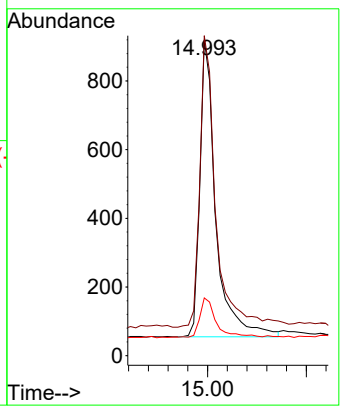


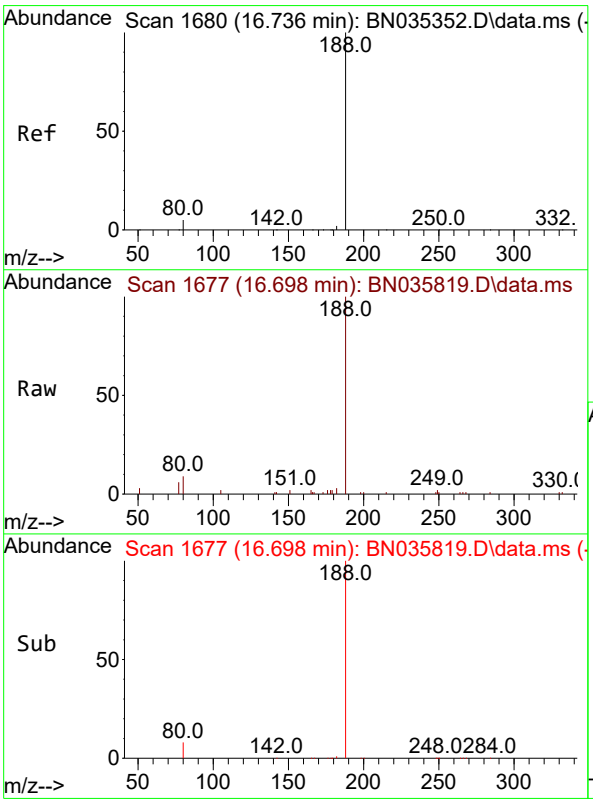

#18
Fluorene
Concen: 0.092 ng
RT: 14.993 min Scan# 1
Delta R.T. -0.011 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

**Instrument :**
BNA_N
**ClientSampleId :**
TT174I1-20241218

Tgt Ion:166 Resp: 1937

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 98.9 | 79.7 | 119.5 |
| 167 | 13.8 | 10.8 | 16.2 |

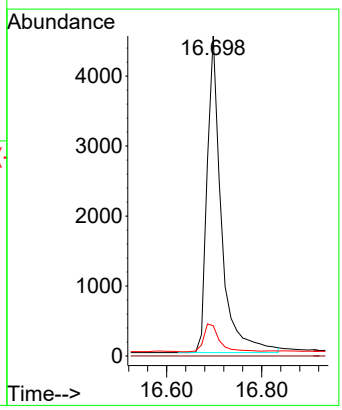


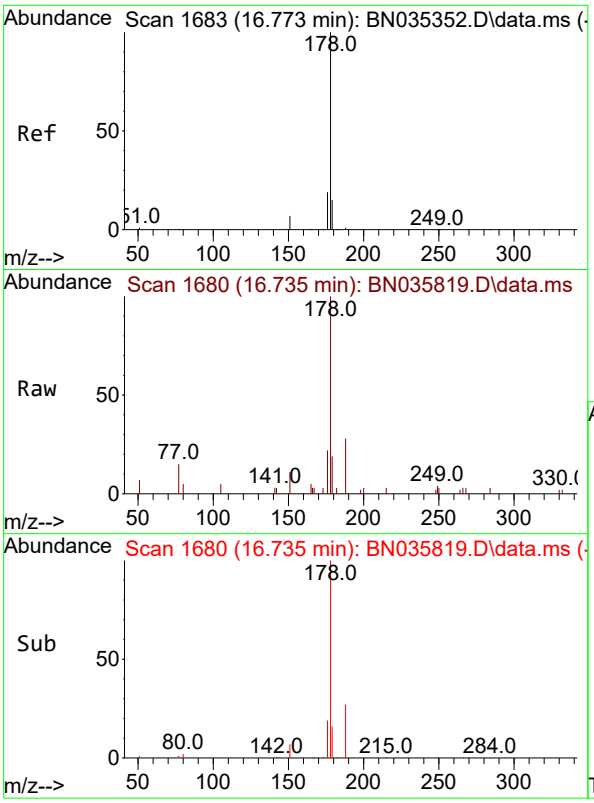




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1677
Delta R.T. -0.000 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

Tgt Ion:188 Resp: 9421

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 9.4 | 4.6 | 6.8# |



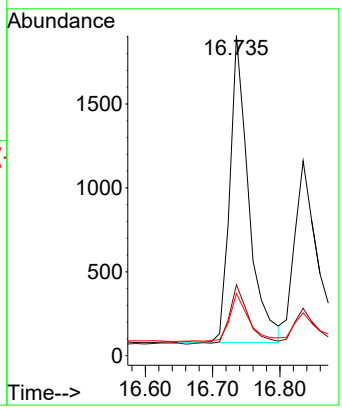


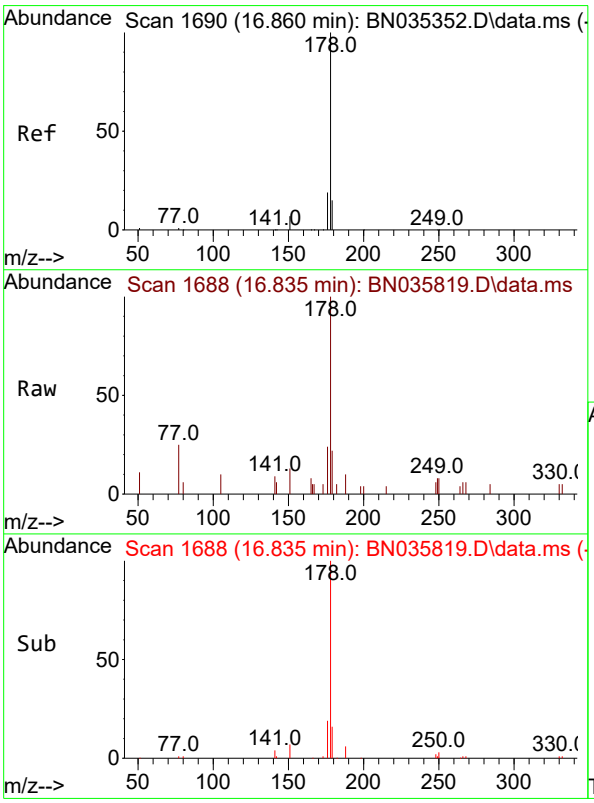

#25
Phenanthrene
Concen: 0.137 ng
RT: 16.735 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

**Instrument :**
BNA_N
**ClientSampleId :**
TT174I1-20241218

Tgt Ion:178 Resp: 3558

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.7 | 15.4 | 23.2 |
| 179 | 16.1 | 12.3 | 18.5 |

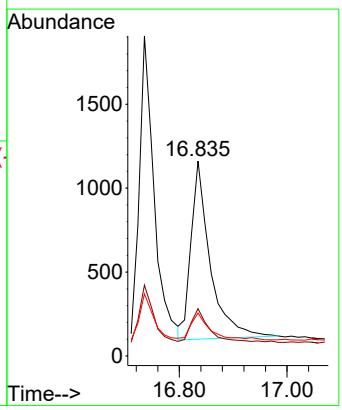


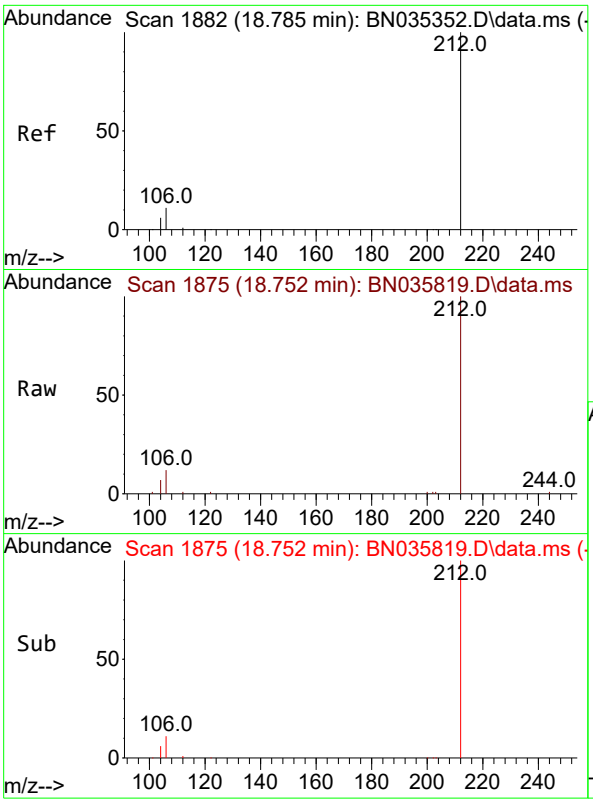




#26
Anthracene
Concen: 0.112 ng
RT: 16.835 min Scan# 1688
Delta R.T. -0.000 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

Tgt Ion:178 Resp: 2627

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.8 | 15.0 | 22.6 |
| 179 | 15.8 | 12.6 | 18.8 |



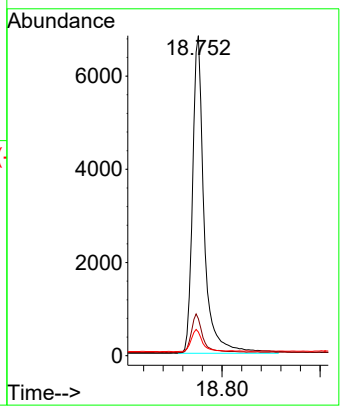


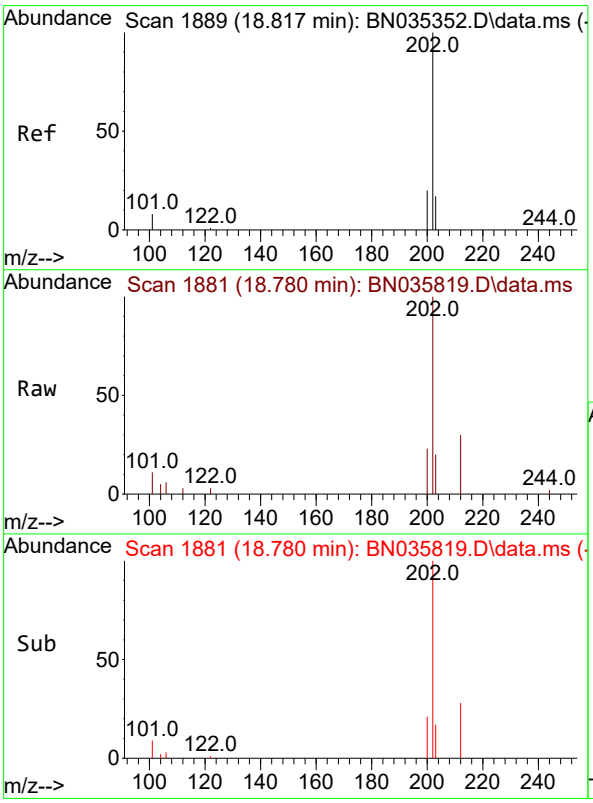

#27
Fluoranthene-d10
Concen: 0.420 ng
RT: 18.752 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

**Instrument :**
BNA_N
**ClientSampleId :**
TT174l1-20241218

Tgt Ion:212 Resp: 11207

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 12.1 | 9.2 | 13.8 |
| 104 | 6.8 | 5.3 | 7.9 |

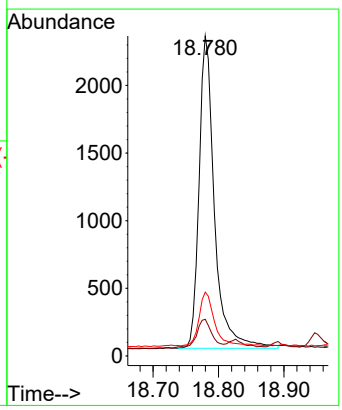


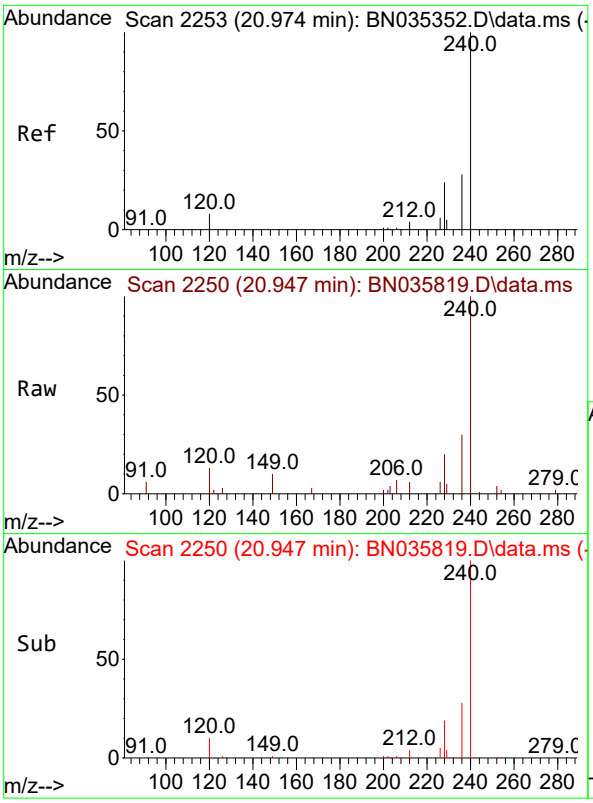




#28
Fluoranthene
Concen: 0.108 ng
RT: 18.780 min Scan# 1881
Delta R.T. -0.010 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

Tgt Ion:202 Resp: 3772

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 9.2 | 7.4 | 11.0 |
| 203 | 17.9 | 13.7 | 20.5 |



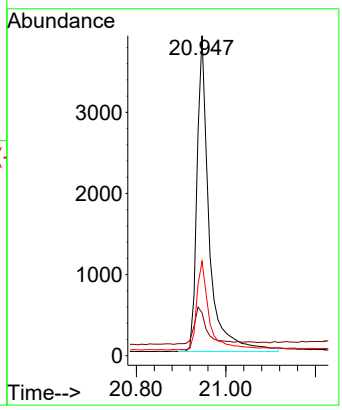


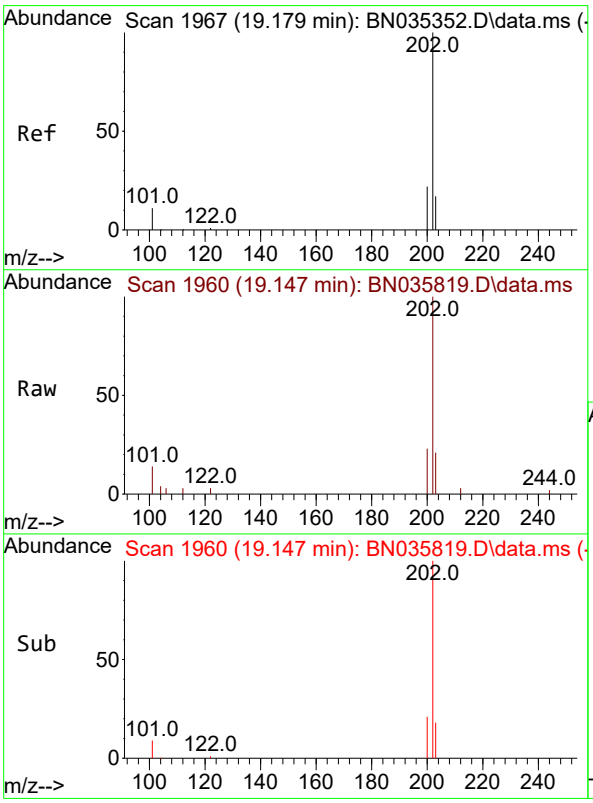

#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

**Instrument :**
BNA_N
**ClientSampleId :**
TT174l1-20241218

Tgt Ion:240 Resp: 7347

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 13.4 | 7.9 | 11.9# |
| 236 | 29.5 | 22.9 | 34.3 |

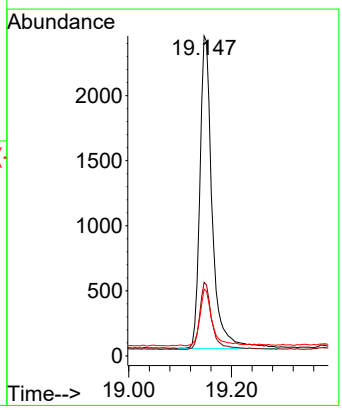


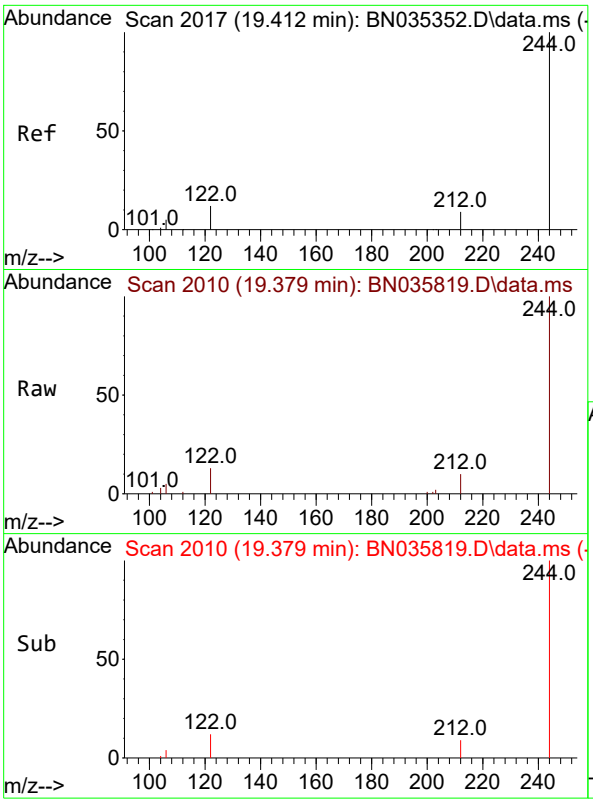




#30
Pyrene
Concen: 0.147 ng
RT: 19.147 min Scan# 1960
Delta R.T. -0.014 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

Tgt Ion:202 Resp: 3996

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 20.9 | 17.0 | 25.4 |
| 203 | 17.7 | 14.3 | 21.5 |



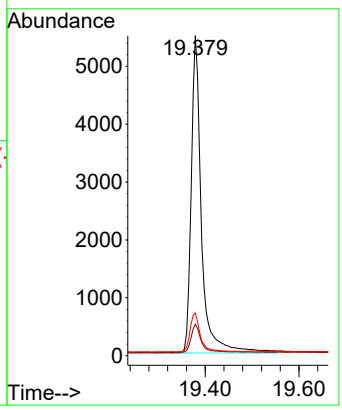


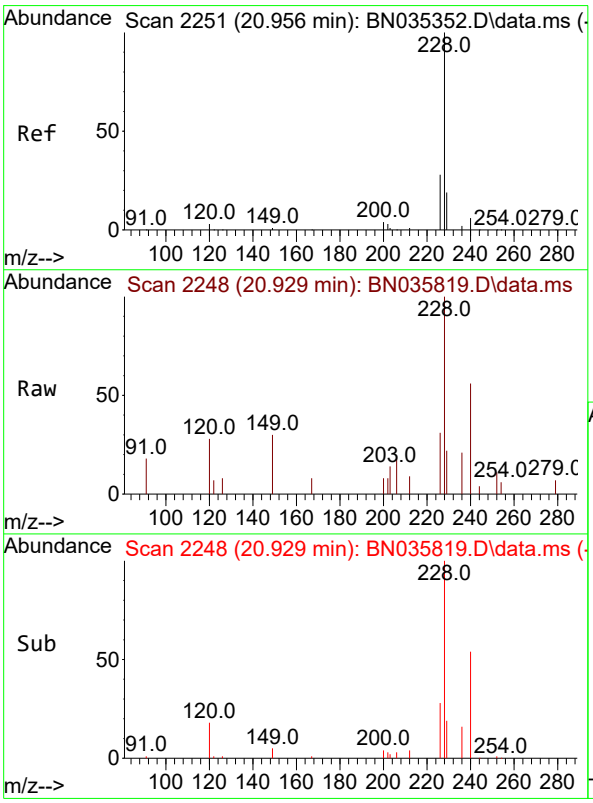

#31
Terphenyl-d14
Concen: 0.573 ng
RT: 19.379 min Scan# 2
Delta R.T. -0.010 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

**Instrument :**
BNA_N
**ClientSampleId :**
TT174I1-20241218

Tgt Ion:244 Resp: 8308

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 9.8 | 8.1 | 12.1 |
| 122 | 13.3 | 10.3 | 15.5 |

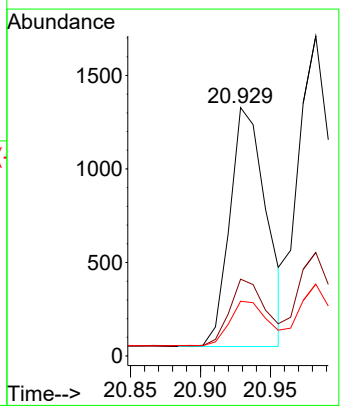


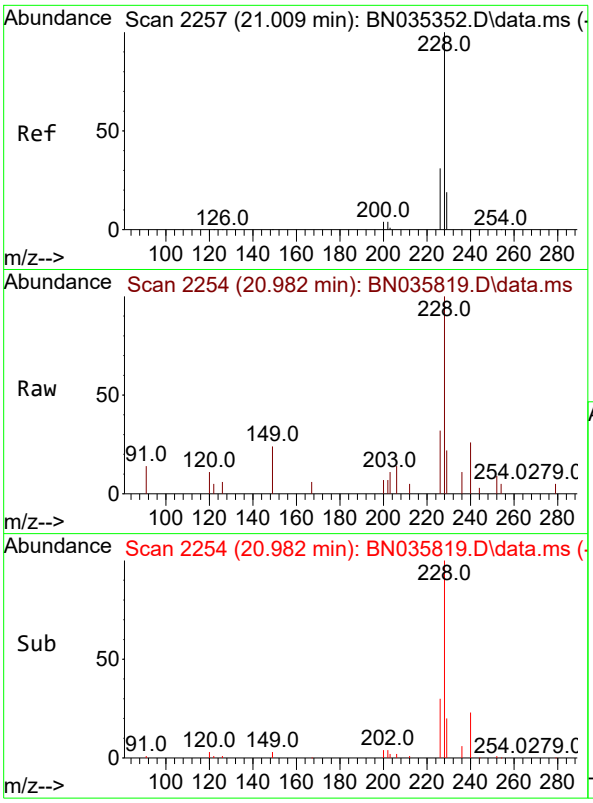




#32
Benzo(a)anthracene
Concen: 0.091 ng
RT: 20.929 min Scan# 2248
Delta R.T. -0.009 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

Tgt Ion:228 Resp: 2328

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 30.9 | 22.5 | 33.7 |
| 229 | 22.1 | 15.8 | 23.8 |



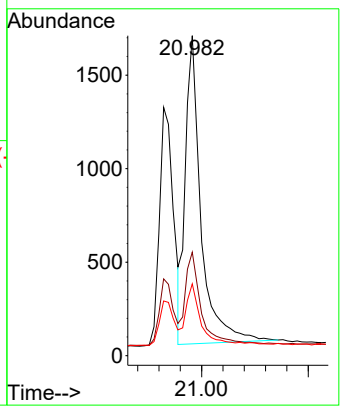


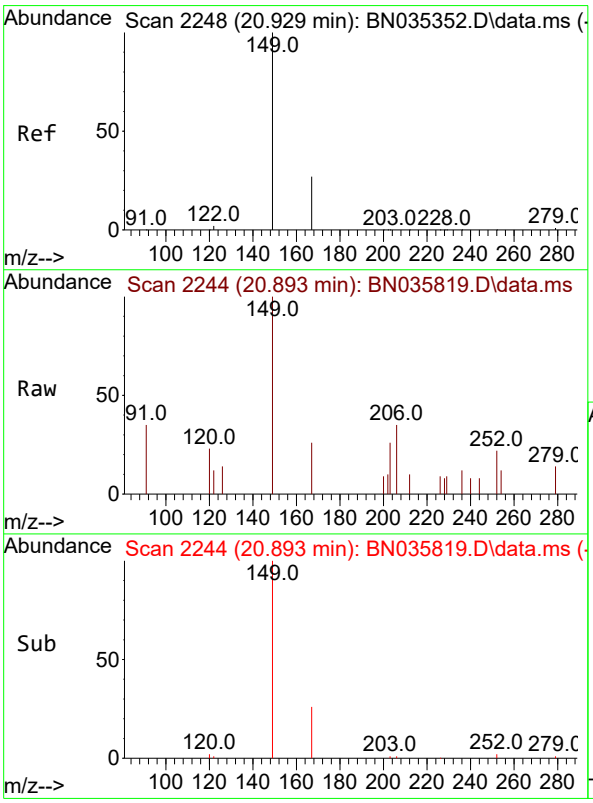

#33
Chrysene
Concen: 0.127 ng
RT: 20.982 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

**Instrument :**
BNA_N
**ClientSampleId :**
TT174l1-20241218

Tgt Ion:228 Resp: 3355

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 32.4 | 24.6 | 37.0 |
| 229 | 22.4 | 15.9 | 23.9 |

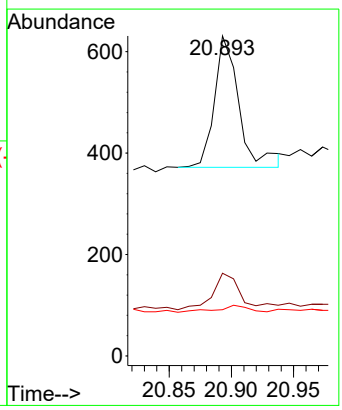


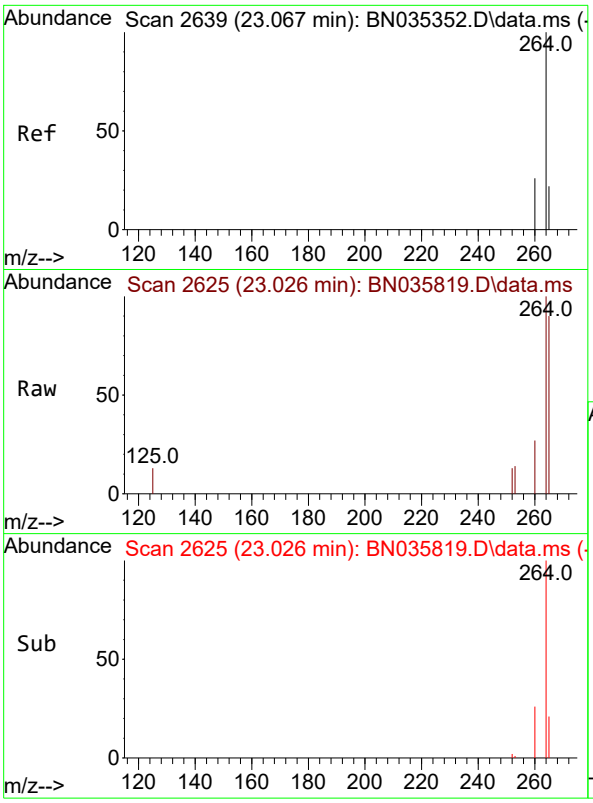




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.035 ng
RT: 20.893 min Scan# 2244
Delta R.T. -0.018 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

Tgt Ion:149 Resp: 357

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 29.4 | 22.2 | 33.4 |
| 279 | 6.7 | 2.7 | 4.1# |



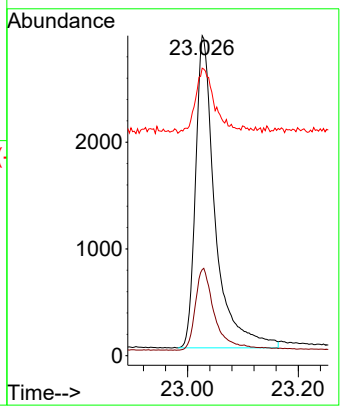


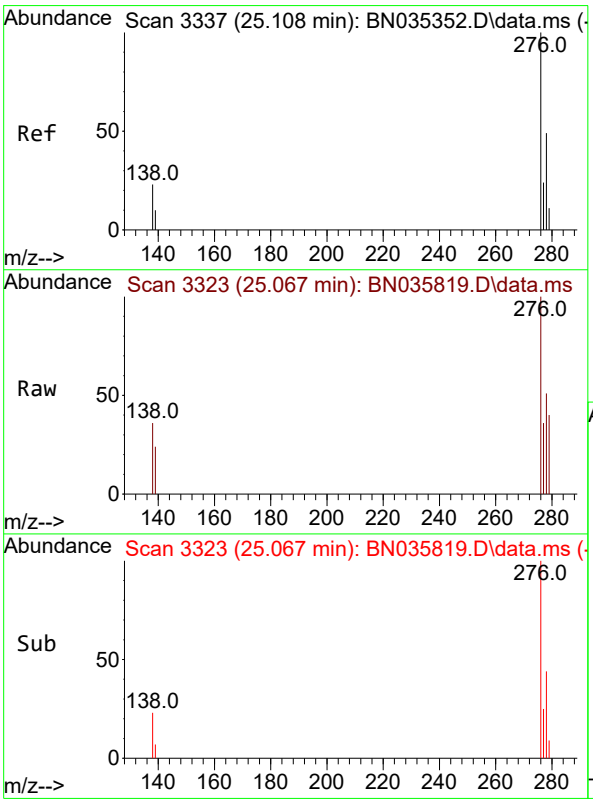

#35
Perylene-d12
Concen: 0.400 ng
RT: 23.026 min Scan# 2
Delta R.T. -0.015 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

**Instrument :**
BNA_N
**ClientSampleId :**
TT174l1-20241218

Tgt Ion:264 Resp: 7210

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 26.9 | 21.4 | 32.2 |
| 265 | 89.9 | 40.2 | 60.4# |

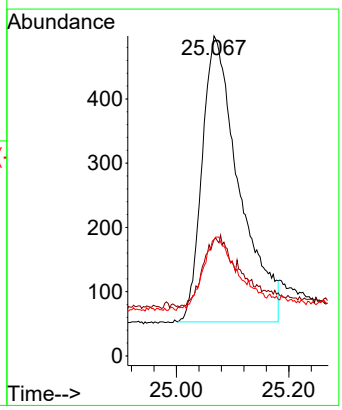


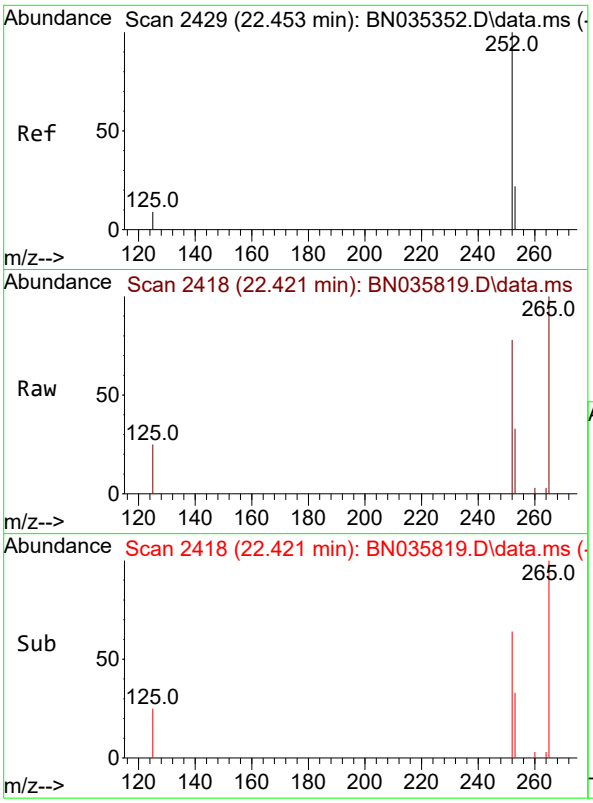




#36
Indeno(1,2,3-cd)pyrene
Concen: 0.072 ng
RT: 25.067 min Scan# 3323
Delta R.T. -0.000 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

Tgt Ion:276 Resp: 2032

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 10.6 | 19.4 | 29.0# |
| 277 | 24.9 | 19.8 | 29.6 |



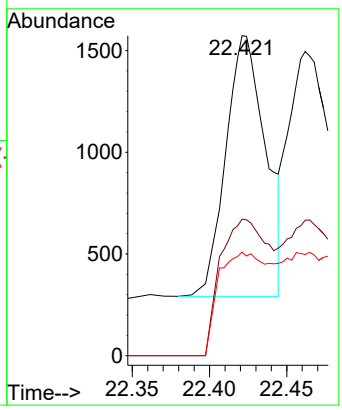


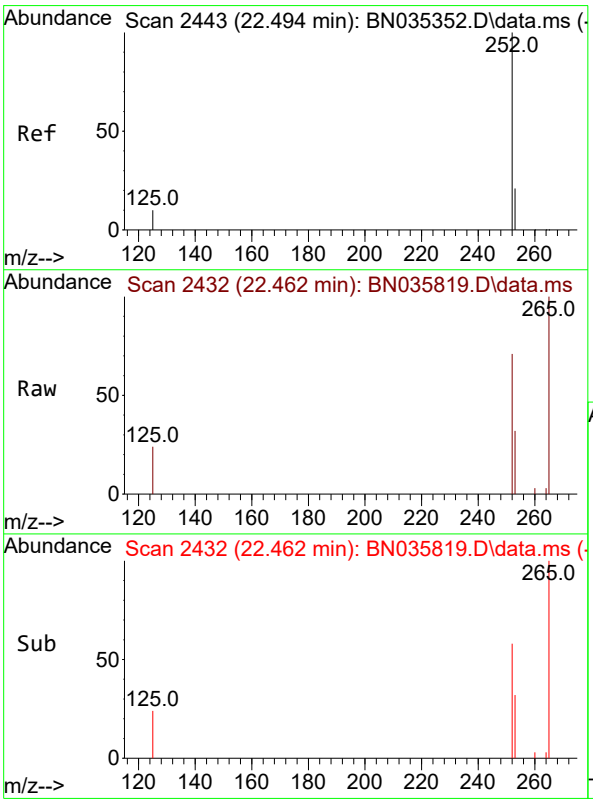

#37
Benzo(b)fluoranthene
Concen: 0.114 ng
RT: 22.421 min Scan# 24
Delta R.T. -0.009 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

**Instrument :**
BNA_N
**ClientSampleId :**
TT174l1-20241218

Tgt Ion:252 Resp: 3012

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 42.7 | 19.6 | 29.4# |
| 125 | 32.4 | 9.6 | 14.4# |

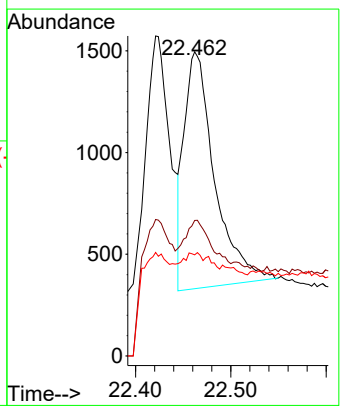


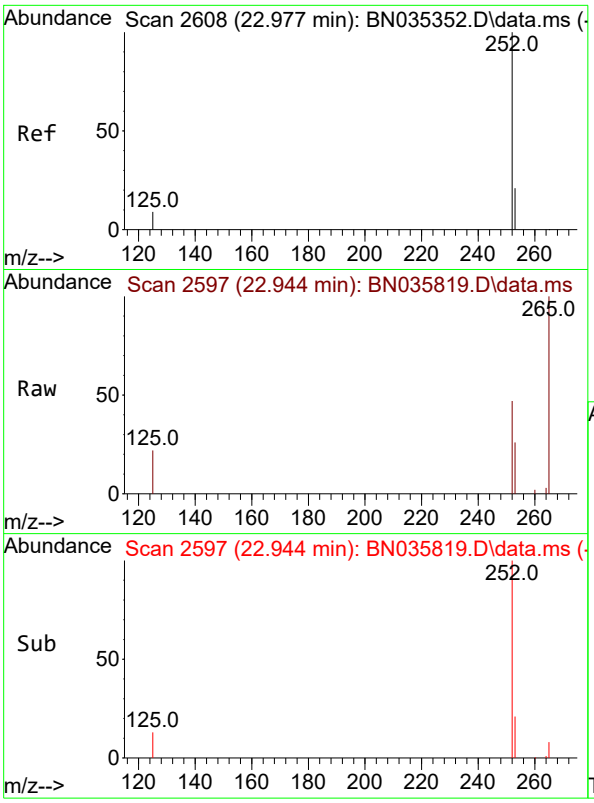




#38
Benzo(k)fluoranthene
Concen: 0.100 ng
RT: 22.462 min Scan# 2432
Delta R.T. -0.009 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

Tgt Ion:252 Resp: 2589

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 44.5 | 19.5 | 29.3# |
| 125 | 33.2 | 10.2 | 15.4# |



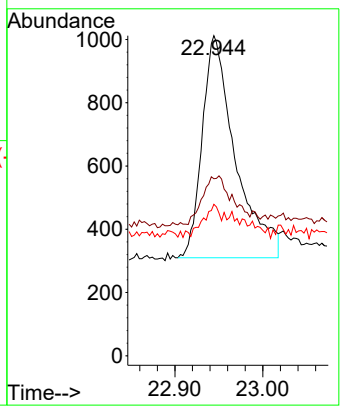


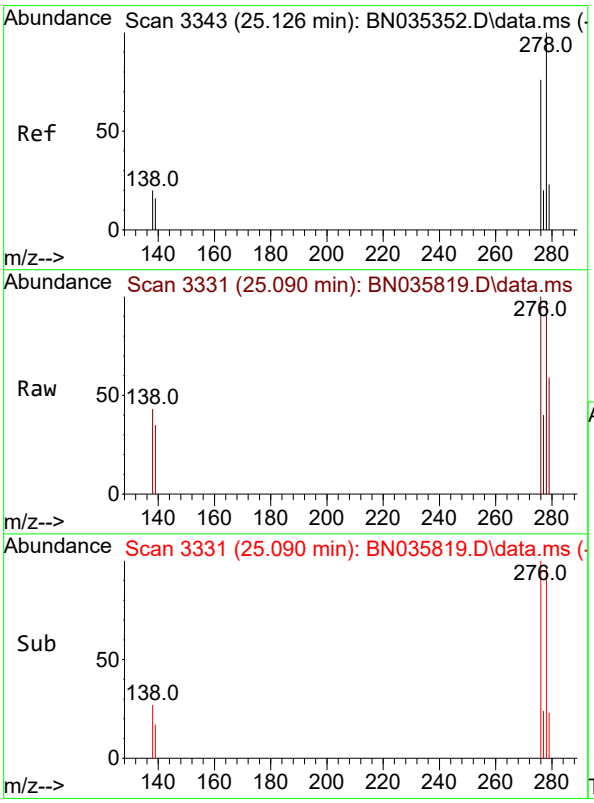

#39
Benzo(a)pyrene
Concen: 0.085 ng
RT: 22.944 min Scan# 2
Delta R.T. -0.006 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

**Instrument :**
BNA_N
**ClientSampleId :**
TT174I1-20241218

Tgt Ion:252 Resp: 1842

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 55.3 | 20.2 | 30.4# |
| 125 | 47.3 | 10.9 | 16.3# |

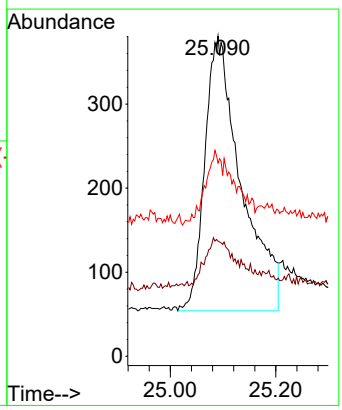


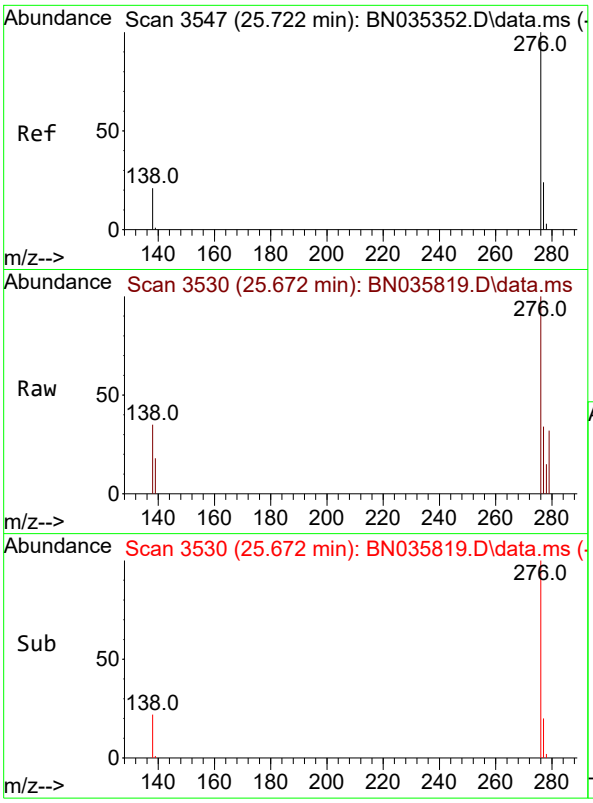




#40
Dibenzo(a,h)anthracene
Concen: 0.070 ng
RT: 25.090 min Scan# 3331
Delta R.T. 0.008 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

Tgt Ion:278 Resp: 1565

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 36.0 | 14.2 | 21.4# |
| 279 | 60.4 | 20.5 | 30.7# |



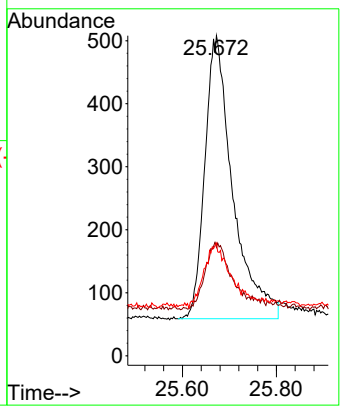



#41
Benzo(g,h,i)perylene
Concen: 0.080 ng
RT: 25.672 min Scan# 3
Delta R.T. -0.006 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

**Instrument :**
BNA_N
**ClientSampleId :**
TT174I1-20241218

Tgt Ion:276 Resp: 1852

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 33.9 | 19.9 | 29.9# |
| 138 | 35.2 | 17.8 | 26.8# |



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035820.D
Acq On : 24 Dec 2024 14:19
Operator : RC/JU
Sample : P5376-07
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01S-20241218

Quant Time: Dec 24 23:18:34 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

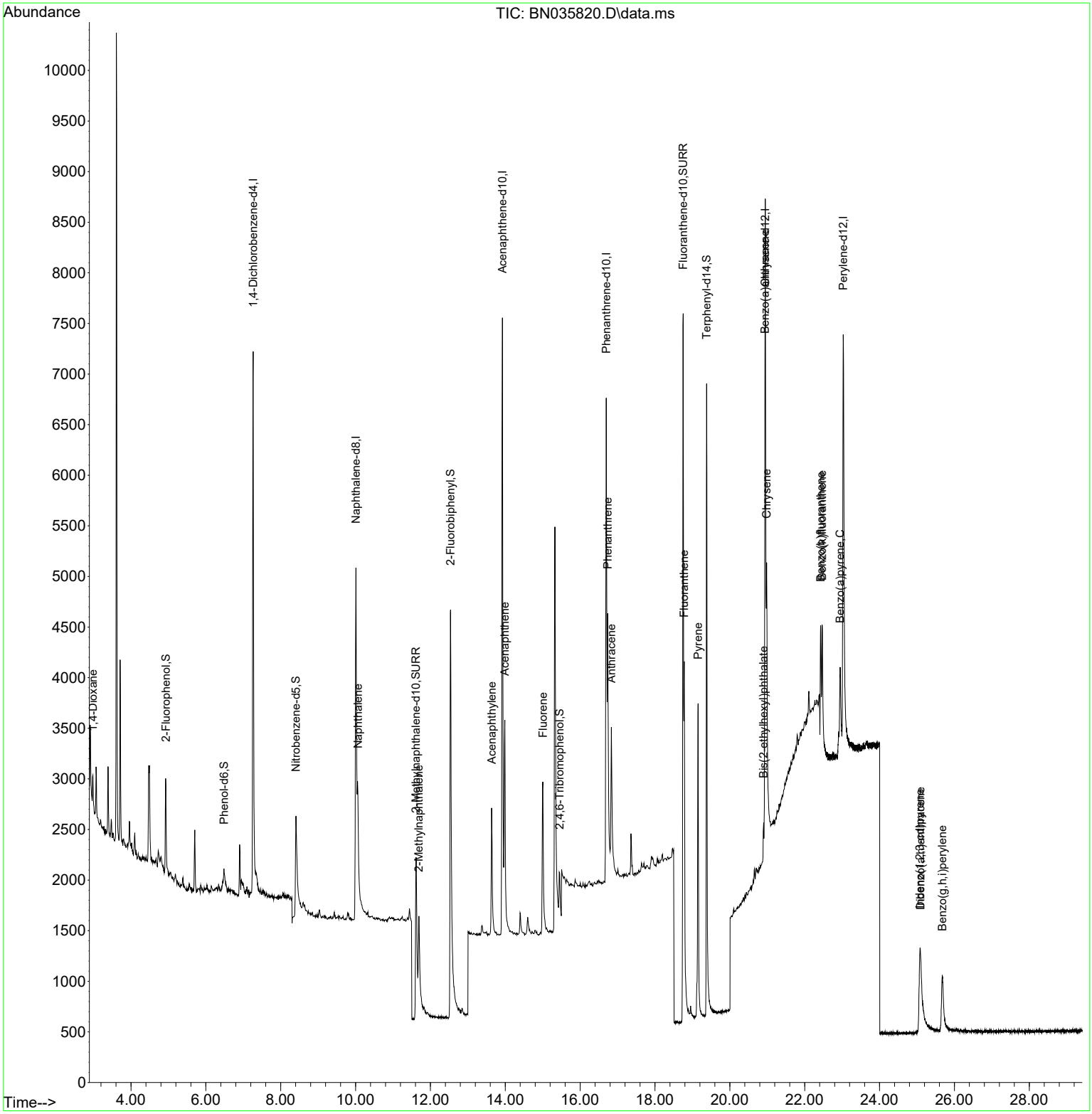
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.264 | 152 | 3143 | 0.400 | ng | 0.00 |
| 7) Naphthalene-d8 | 10.009 | 136 | 7176 | 0.400 | ng | -0.01 |
| 13) Acenaphthene-d10 | 13.924 | 164 | 4458 | 0.400 | ng | -0.01 |
| 19) Phenanthrene-d10 | 16.698 | 188 | 8922 | 0.400 | ng | # 0.00 |
| 29) Chrysene-d12 | 20.947 | 240 | 7054 | 0.400 | ng | # 0.00 |
| 35) Perylene-d12 | 23.029 | 264 | 6962 | 0.400 | ng | #-0.01 |
| System Monitoring Compounds | | | | | | |
| 4) 2-Fluorophenol | 4.931 | 112 | 917 | 0.117 | ng | 0.00 |
| 5) Phenol-d6 | 6.484 | 99 | 441 | 0.047 | ng | 0.00 |
| 8) Nitrobenzene-d5 | 8.408 | 82 | 2026 | 0.462 | ng | 0.00 |
| 11) 2-Methylnaphthalene-d10 | 11.615 | 152 | 4238 | 0.377 | ng | 0.00 |
| 14) 2,4,6-Tribromophenol | 15.453 | 330 | 621 | 0.196 | ng | 0.00 |
| 15) 2-Fluorobiphenyl | 12.538 | 172 | 6805 | 0.404 | ng | 0.00 |
| 27) Fluoranthene-d10 | 18.752 | 212 | 10147 | 0.401 | ng | 0.00 |
| 31) Terphenyl-d14 | 19.379 | 244 | 7626 | 0.548 | ng | 0.00 |
| Target Compounds | | | | | | Qvalue |
| 2) 1,4-Dioxane | 2.981 | 88 | 288 | 0.096 | ng | # 82 |
| 9) Naphthalene | 10.062 | 128 | 1741 | 0.092 | ng | # 85 |
| 12) 2-Methylnaphthalene | 11.692 | 142 | 1119 | 0.083 | ng | # 90 |
| 16) Acenaphthylene | 13.636 | 152 | 1929 | 0.103 | ng | 99 |
| 17) Acenaphthene | 13.988 | 154 | 1200 | 0.097 | ng | 99 |
| 18) Fluorene | 15.004 | 166 | 1564 | 0.088 | ng | 100 |
| 25) Phenanthrene | 16.735 | 178 | 2911 | 0.119 | ng | 98 |
| 26) Anthracene | 16.835 | 178 | 2107 | 0.095 | ng | 97 |
| 28) Fluoranthene | 18.780 | 202 | 3244 | 0.098 | ng | 100 |
| 30) Pyrene | 19.151 | 202 | 3281 | 0.126 | ng | 99 |
| 32) Benzo(a)anthracene | 20.938 | 228 | 2057 | 0.083 | ng | 94 |
| 33) Chrysene | 20.982 | 228 | 2719 | 0.107 | ng | 95 |
| 34) Bis(2-ethylhexyl)phtha... | 20.902 | 149 | 426 | 0.044 | ng | # 88 |
| 36) Indeno(1,2,3-cd)pyrene | 25.076 | 276 | 1756 | 0.065 | ng | # 79 |
| 37) Benzo(b)fluoranthene | 22.427 | 252 | 2679 | 0.105 | ng | # 52 |
| 38) Benzo(k)fluoranthene | 22.465 | 252 | 2384 | 0.095 | ng | # 51 |
| 39) Benzo(a)pyrene | 22.947 | 252 | 1551 | 0.074 | ng | # 24 |
| 40) Dibenzo(a,h)anthracene | 25.093 | 278 | 1312 | 0.061 | ng | # 29 |
| 41) Benzo(g,h,i)perylene | 25.675 | 276 | 1511 | 0.067 | ng | # 72 |

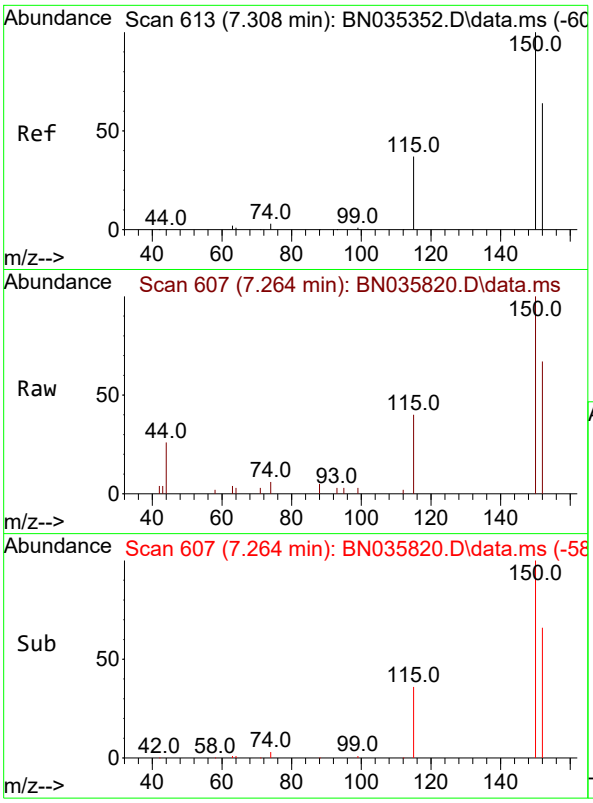
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035820.D
Acq On : 24 Dec 2024 14:19
Operator : RC/JU
Sample : P5376-07
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01S-20241218

Quant Time: Dec 24 23:18:34 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



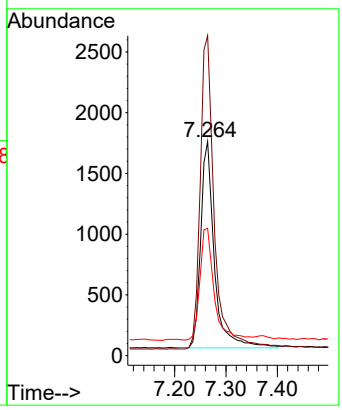


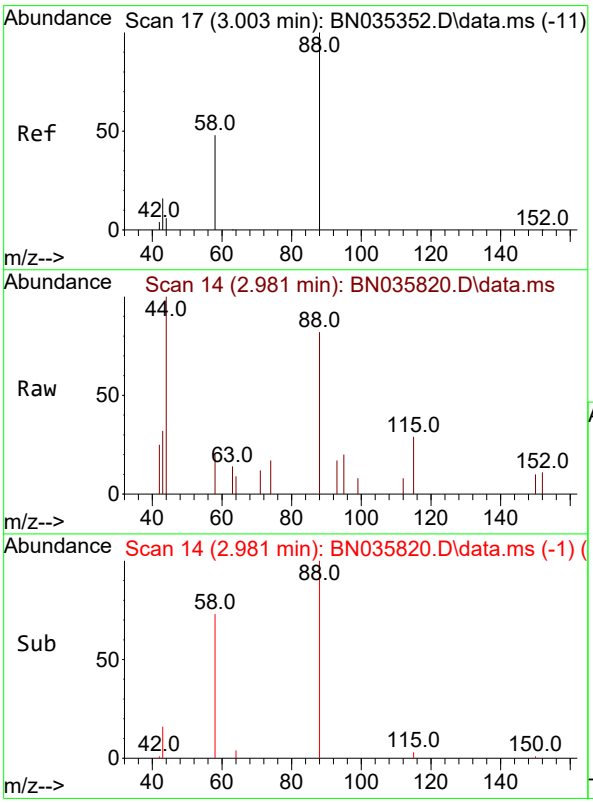

#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.264 min Scan# 6
Delta R.T. -0.008 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01S-20241218

Tgt Ion:152 Resp: 3143

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 149.4 | 124.0 | 186.0 |
| 115 | 59.5 | 49.6 | 74.4 |

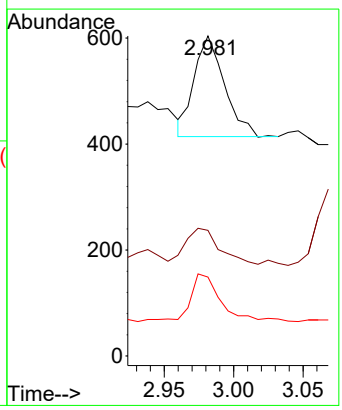


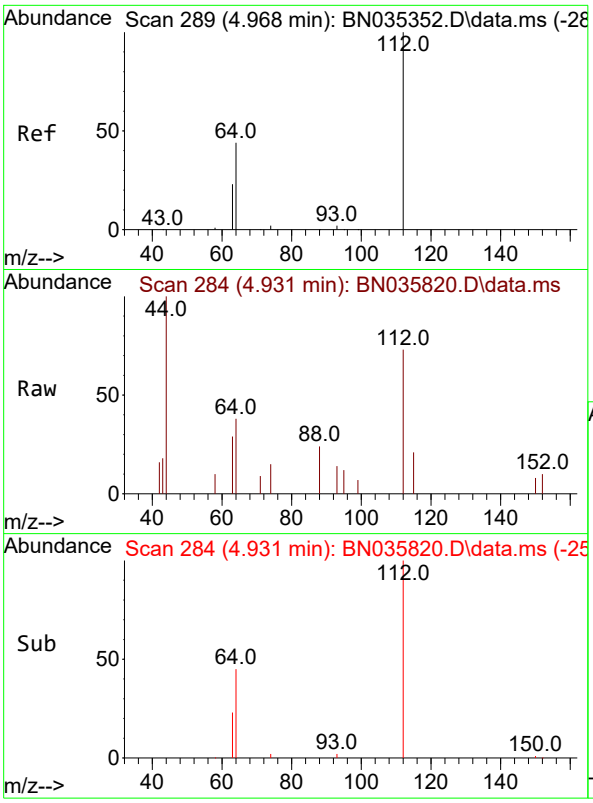




#2
1,4-Dioxane
Concen: 0.096 ng
RT: 2.981 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

Tgt Ion: 88 Resp: 288

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 39.6 | 17.2 | 25.8# |
| 58 | 48.3 | 44.5 | 66.7 |



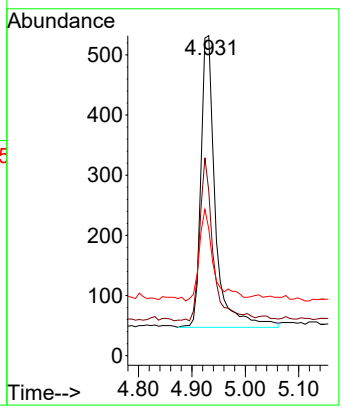


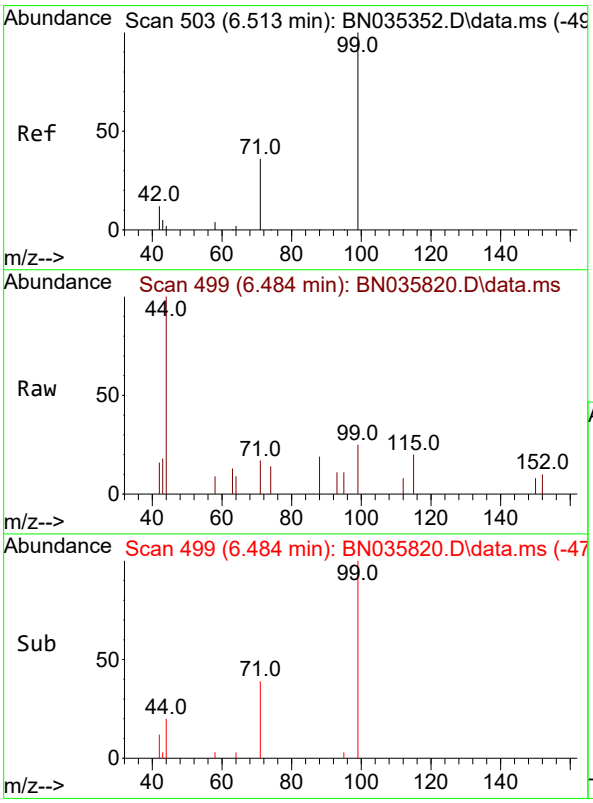

#4
2-Fluorophenol
Concen: 0.117 ng
RT: 4.931 min Scan# 2
Delta R.T. -0.007 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01S-20241218

Tgt Ion:112 Resp: 917

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 52.0 | 39.8 | 59.8 |
| 63 | 31.2 | 21.0 | 31.6 |

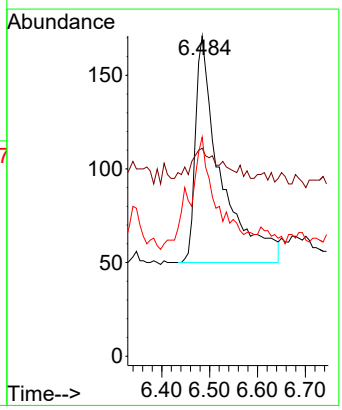


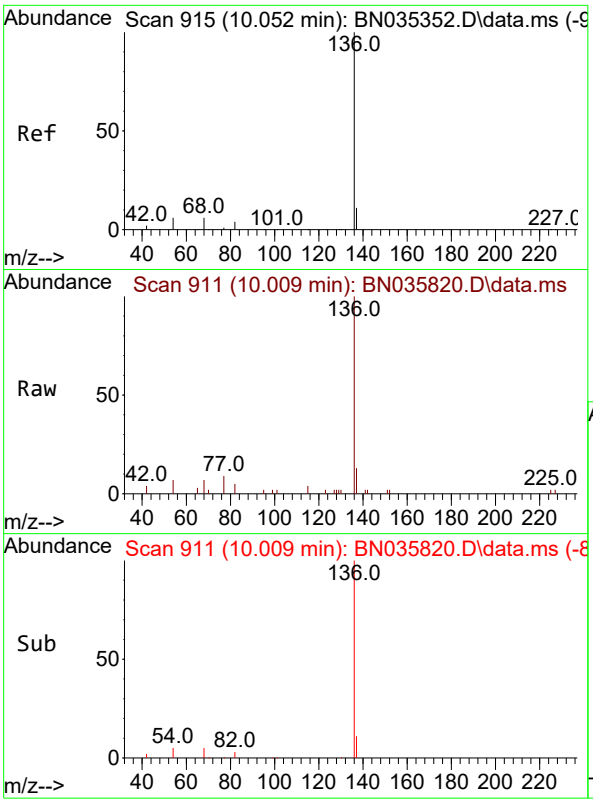




#5
Phenol-d6
Concen: 0.047 ng
RT: 6.484 min Scan# 499
Delta R.T. -0.007 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

Tgt Ion: 99 Resp: 441

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 13.8 | 11.4 | 17.2 |
| 71 | 54.9 | 29.3 | 43.9# |



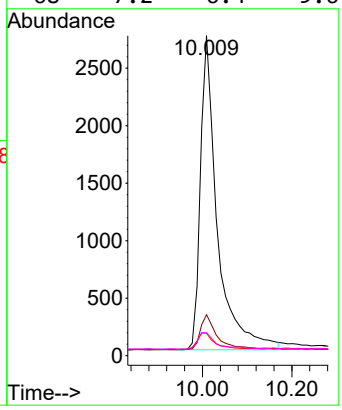


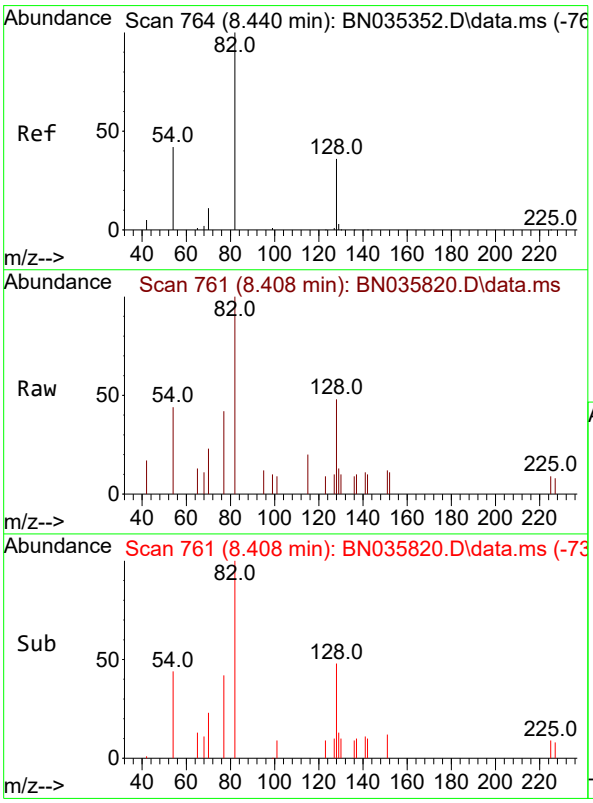

#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01S-20241218

Tgt Ion:136 Resp: 7176

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 12.8 | 10.2 | 15.2 |
| 54 | 7.1 | 6.1 | 9.1 |
| 68 | 7.2 | 6.4 | 9.6 |

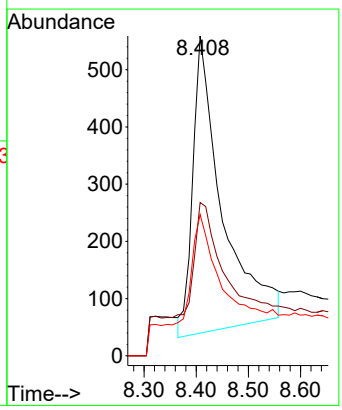


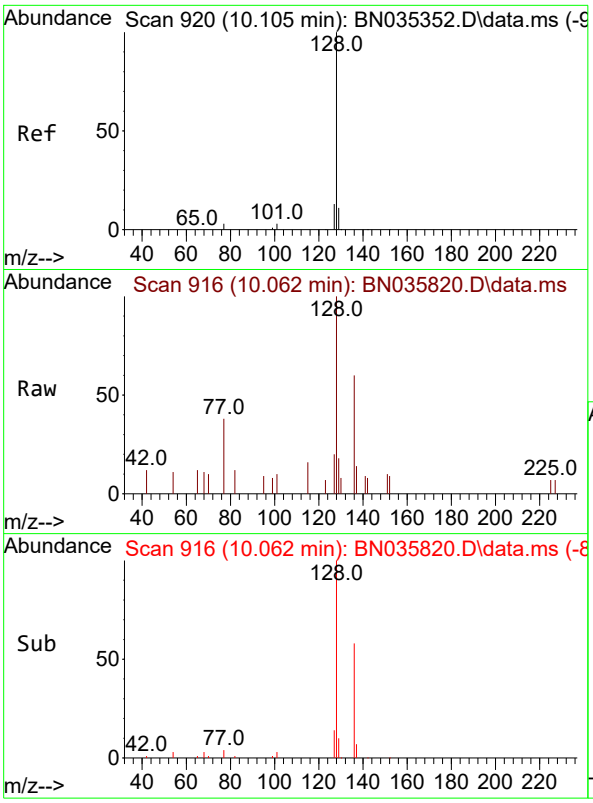




#8
Nitrobenzene-d5
Concen: 0.462 ng
RT: 8.408 min Scan# 761
Delta R.T. -0.000 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

Tgt Ion: 82 Resp: 2026

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 47.9 | 33.4 | 50.0 |
| 54 | 44.2 | 36.7 | 55.1 |



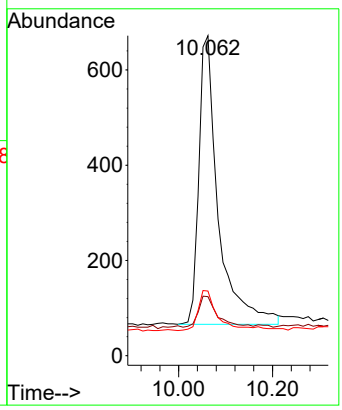


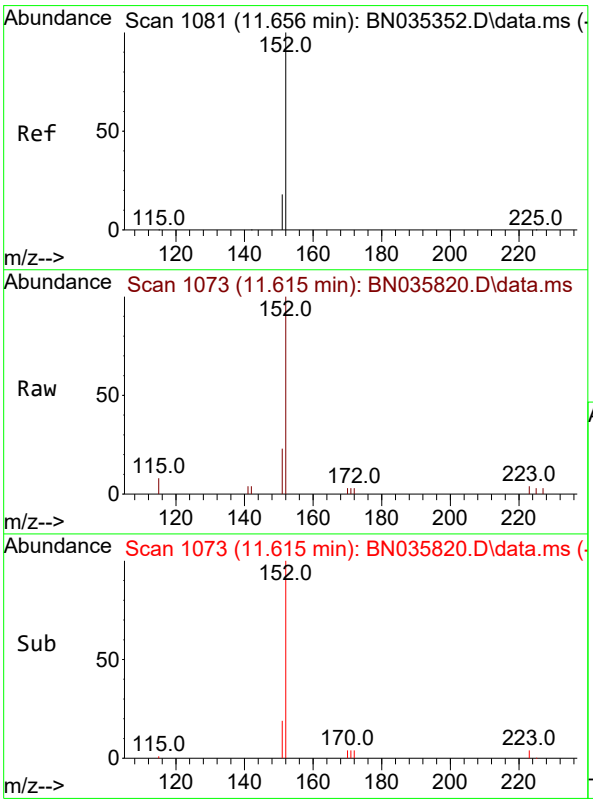

#9
Naphthalene
Concen: 0.092 ng
RT: 10.062 min Scan# 9
Delta R.T. -0.000 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01S-20241218

Tgt Ion:128 Resp: 1741

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 18.5 | 9.8 | 14.6# |
| 127 | 20.2 | 11.4 | 17.2# |

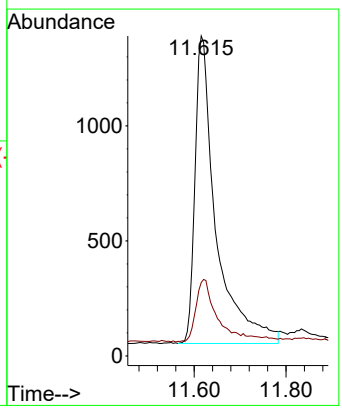


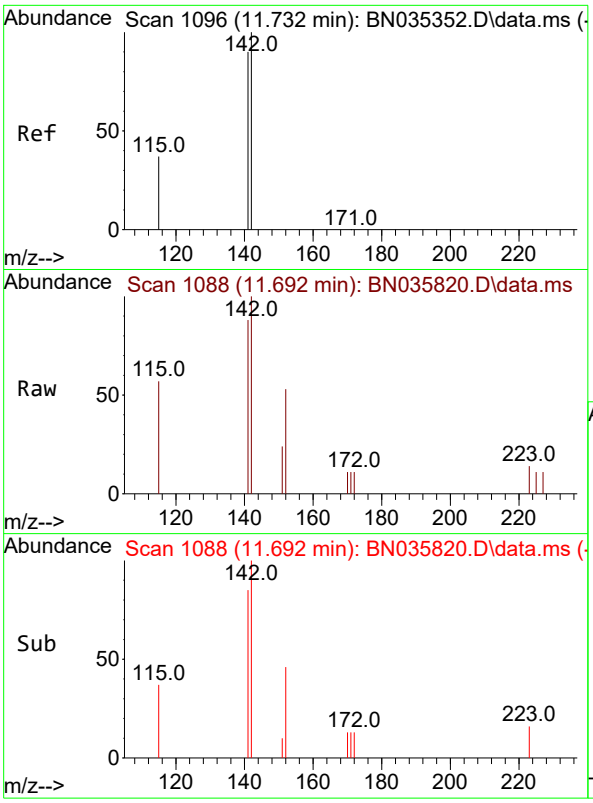




#11
2-Methylnaphthalene-d10
Concen: 0.377 ng
RT: 11.615 min Scan# 1073
Delta R.T. -0.005 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

Tgt Ion:152 Resp: 4238

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 19.8 | 16.6 | 25.0 |



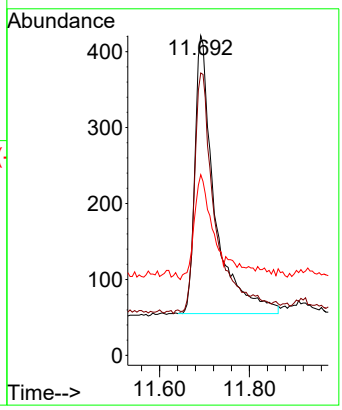


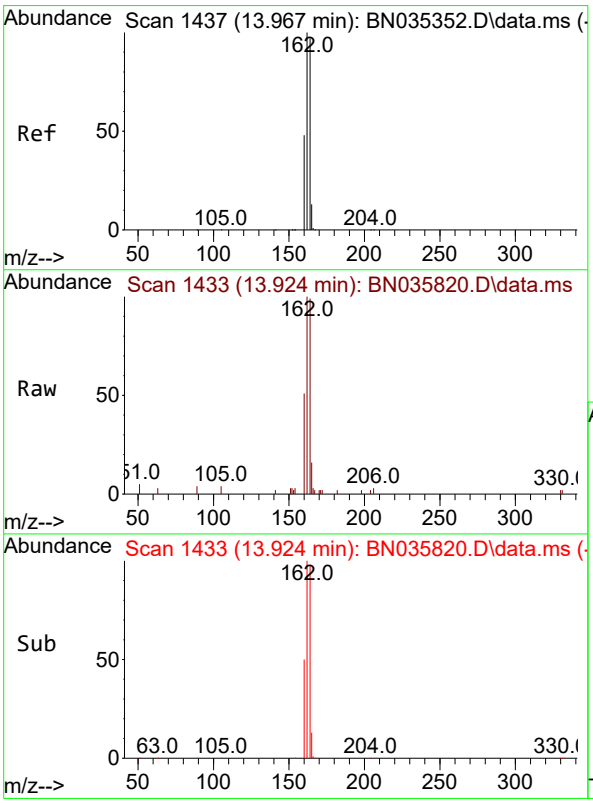

#12
2-Methylnaphthalene
Concen: 0.083 ng
RT: 11.692 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01S-20241218

Tgt Ion:142 Resp: 1119

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 88.4 | 72.2 | 108.4 |
| 115 | 56.5 | 31.4 | 47.0# |

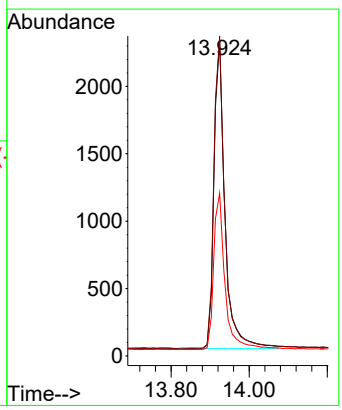


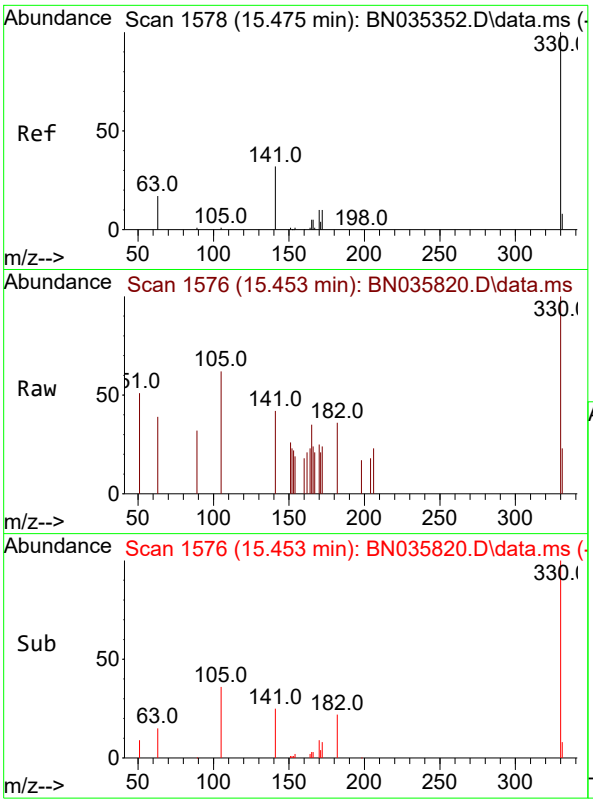




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.924 min Scan# 1433
Delta R.T. -0.011 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

Tgt Ion:164 Resp: 4458

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 101.5 | 82.2 | 123.2 |
| 160 | 51.7 | 40.1 | 60.1 |



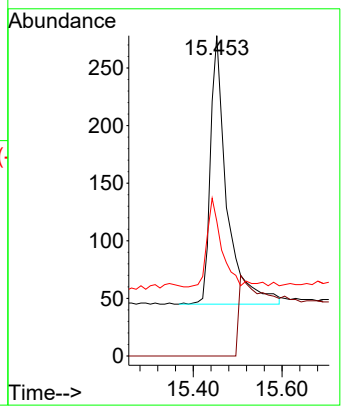


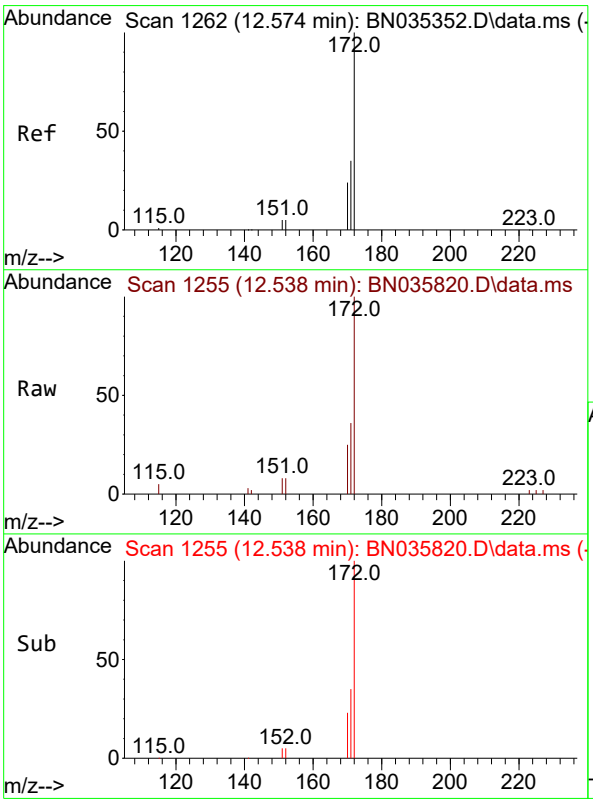

#14
2,4,6-Tribromophenol
Concen: 0.196 ng
RT: 15.453 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01S-20241218

Tgt Ion:330 Resp: 621

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 0.0 | 0.0 | 0.0 |
| 141 | 31.7 | 26.6 | 40.0 |

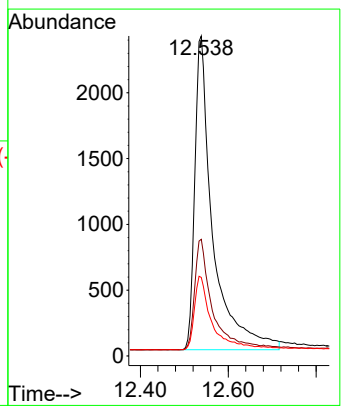


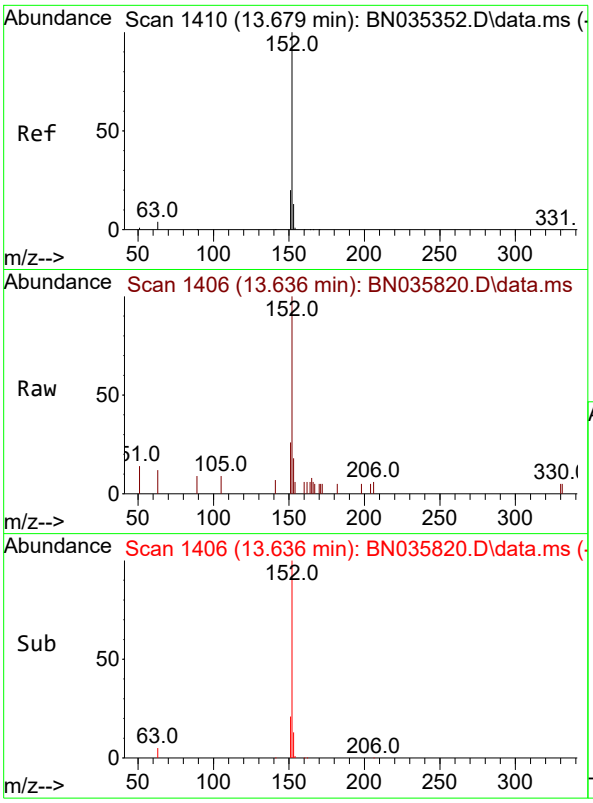




#15
2-Fluorobiphenyl
Concen: 0.404 ng
RT: 12.538 min Scan# 1255
Delta R.T. -0.005 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

Tgt Ion:172 Resp: 6805

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 36.5 | 29.0 | 43.4 |
| 170 | 24.5 | 19.8 | 29.8 |



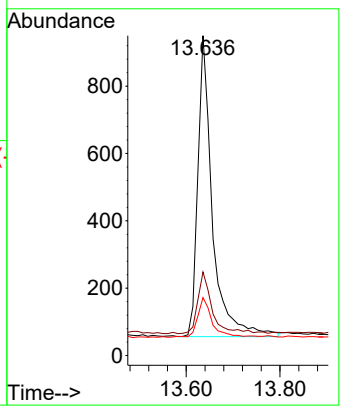


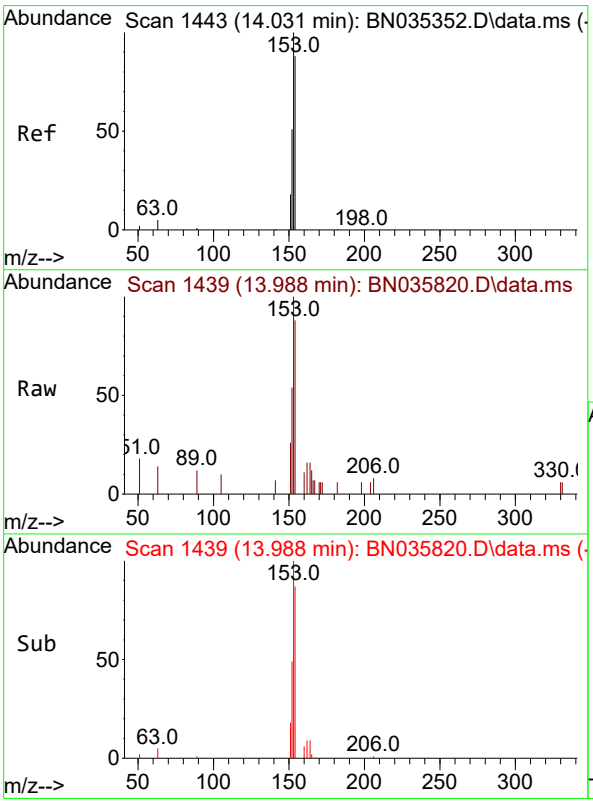

#16
Acenaphthylene
Concen: 0.103 ng
RT: 13.636 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01S-20241218

Tgt Ion:152 Resp: 1929

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.4 | 16.2 | 24.2 |
| 153 | 13.3 | 10.4 | 15.6 |

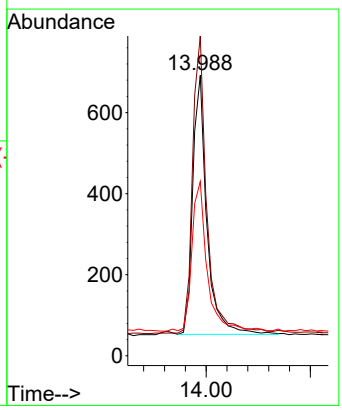


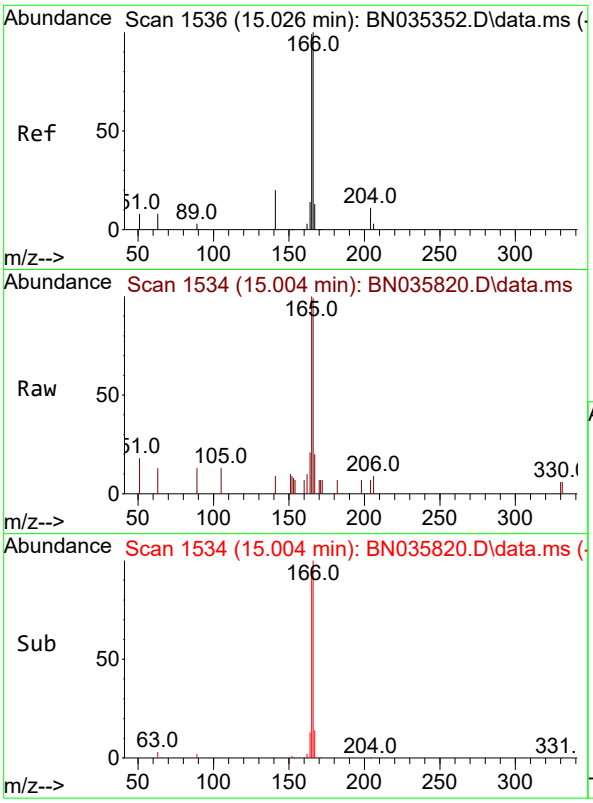




#17
Acenaphthene
Concen: 0.097 ng
RT: 13.988 min Scan# 1439
Delta R.T. -0.011 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

Tgt Ion:154 Resp: 1200

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 115.5 | 92.6 | 139.0 |
| 152 | 62.3 | 49.0 | 73.6 |



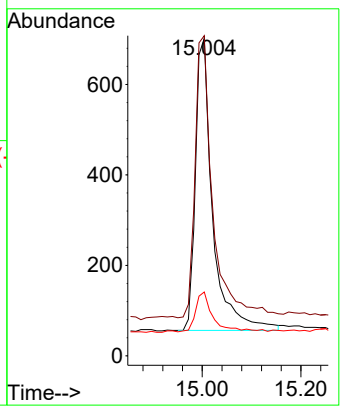


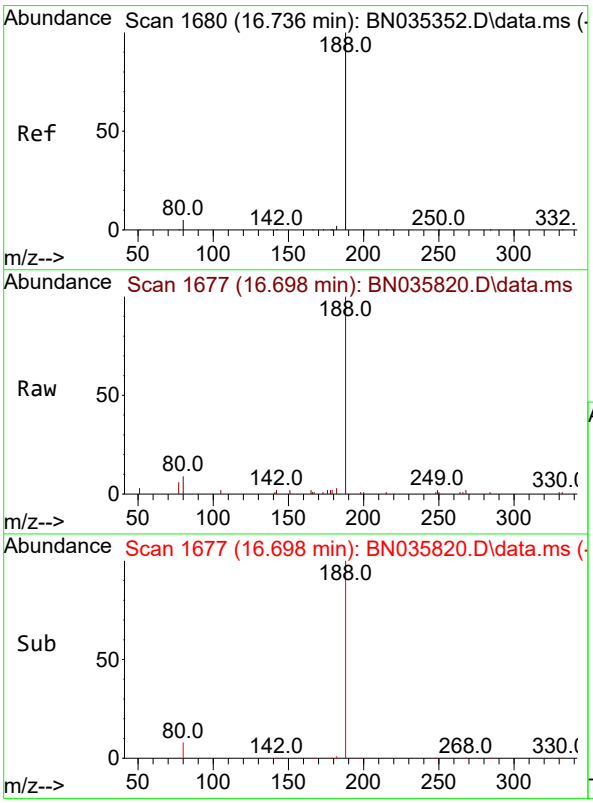

#18
Fluorene
Concen: 0.088 ng
RT: 15.004 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01S-20241218

Tgt Ion:166 Resp: 1564

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 99.9 | 79.7 | 119.5 |
| 167 | 13.8 | 10.8 | 16.2 |

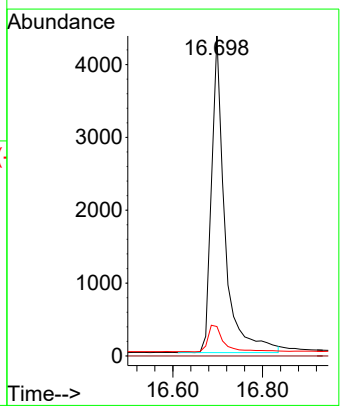


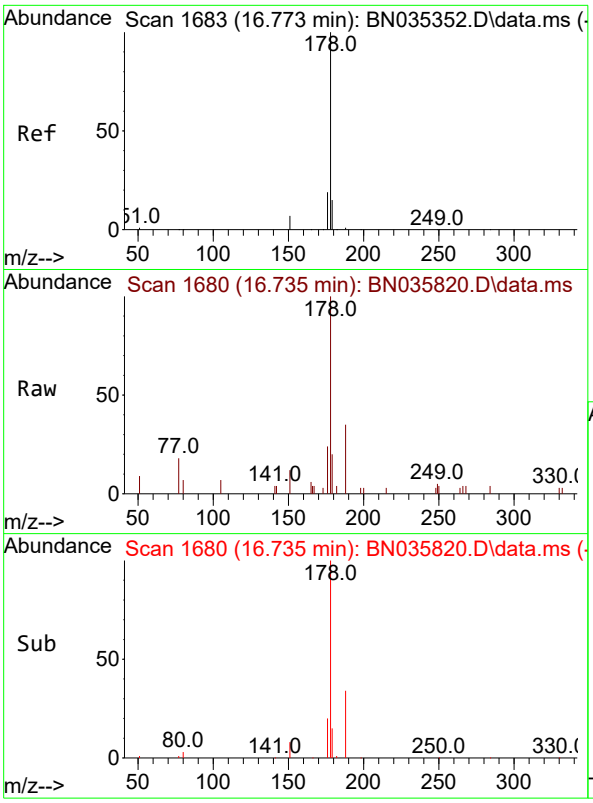




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1677
Delta R.T. -0.000 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

Tgt Ion:188 Resp: 8922

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 9.2 | 4.6 | 6.8# |



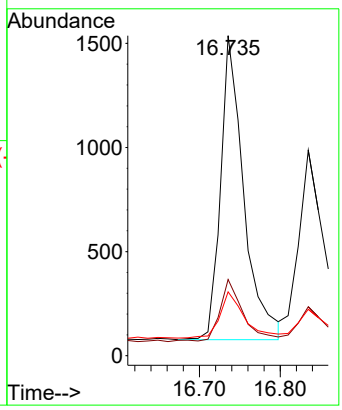


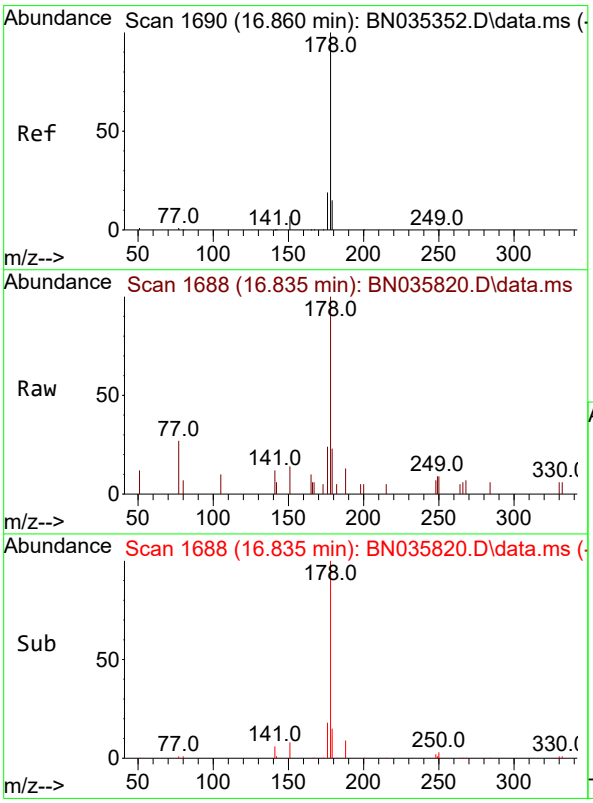

#25
Phenanthrene
Concen: 0.119 ng
RT: 16.735 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01S-20241218

Tgt Ion:178 Resp: 2911

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 20.8 | 15.4 | 23.2 |
| 179 | 15.9 | 12.3 | 18.5 |

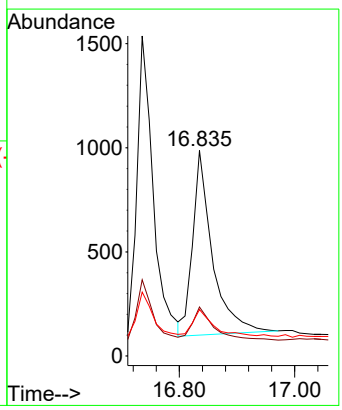


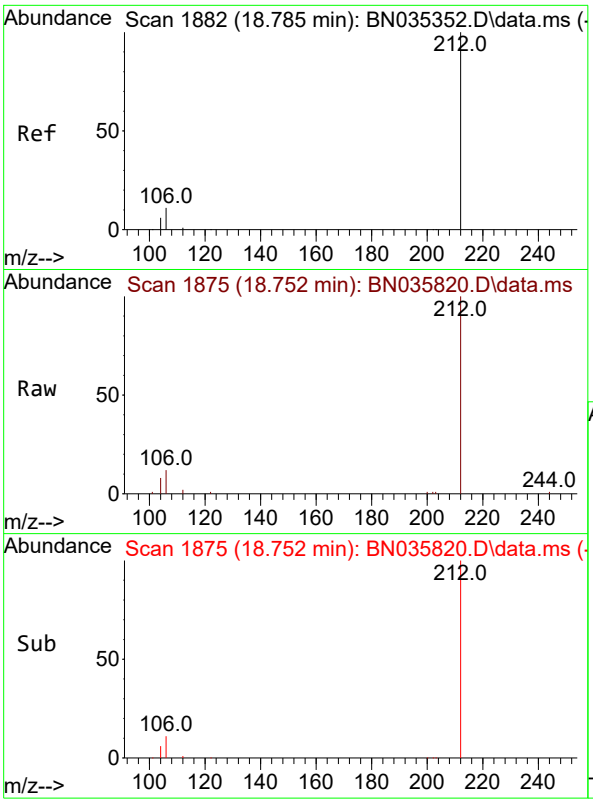




#26
Anthracene
Concen: 0.095 ng
RT: 16.835 min Scan# 1688
Delta R.T. -0.000 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

Tgt Ion:178 Resp: 2107

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 20.4 | 15.0 | 22.6 |
| 179 | 16.5 | 12.6 | 18.8 |



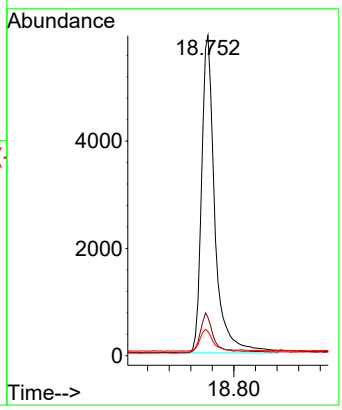


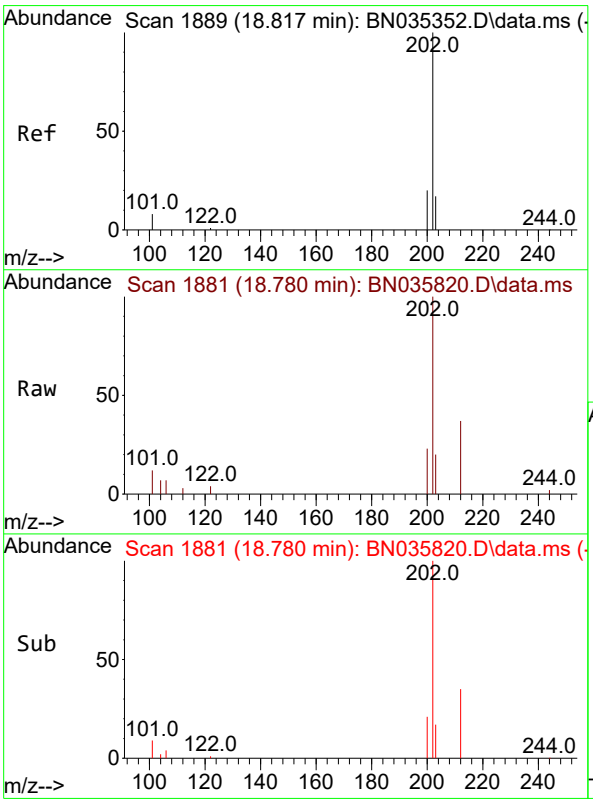

#27
Fluoranthene-d10
Concen: 0.401 ng
RT: 18.752 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01S-20241218

Tgt Ion:212 Resp: 10147

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 11.7 | 9.2 | 13.8 |
| 104 | 6.6 | 5.3 | 7.9 |

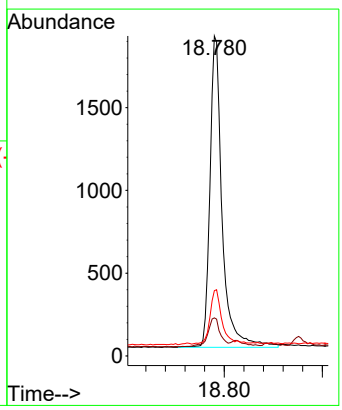


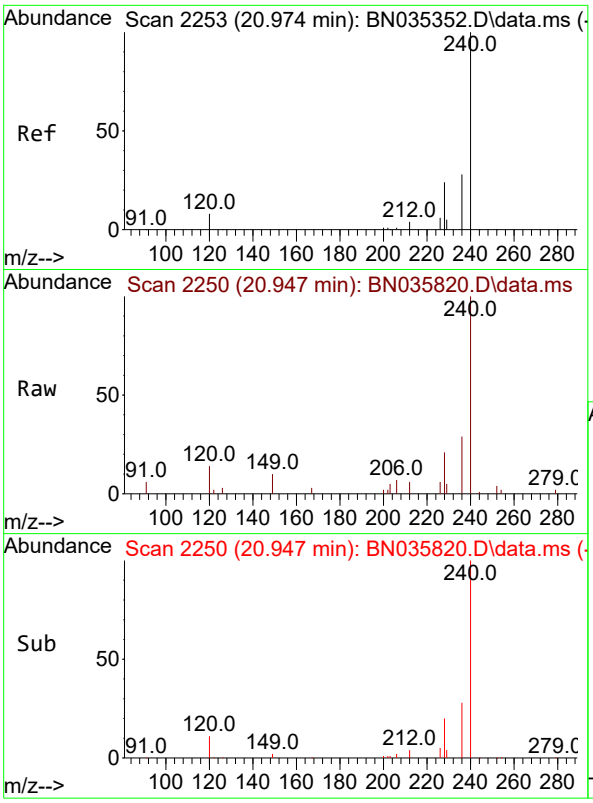




#28
Fluoranthene
Concen: 0.098 ng
RT: 18.780 min Scan# 1881
Delta R.T. -0.010 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

Tgt Ion:202 Resp: 3244

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 9.2 | 7.4 | 11.0 |
| 203 | 17.2 | 13.7 | 20.5 |



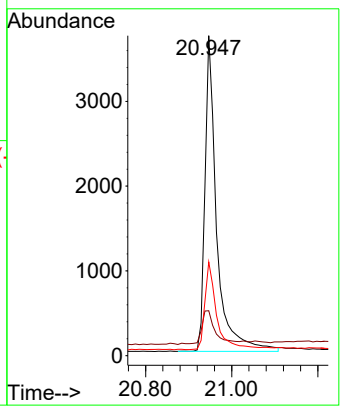


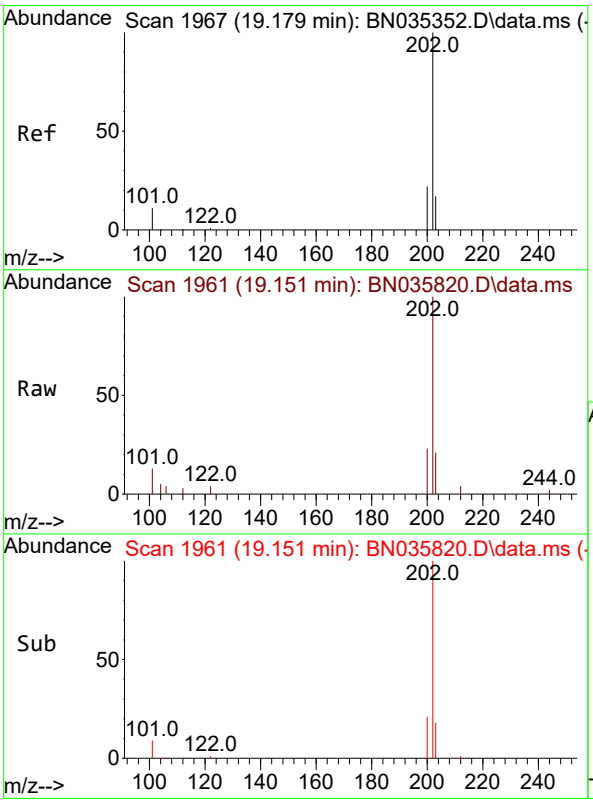

#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01S-20241218

Tgt Ion:240 Resp: 7054

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 14.1 | 7.9 | 11.9# |
| 236 | 29.3 | 22.9 | 34.3 |

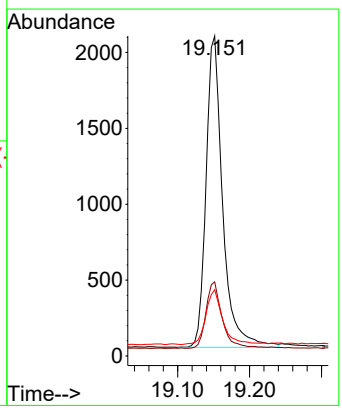


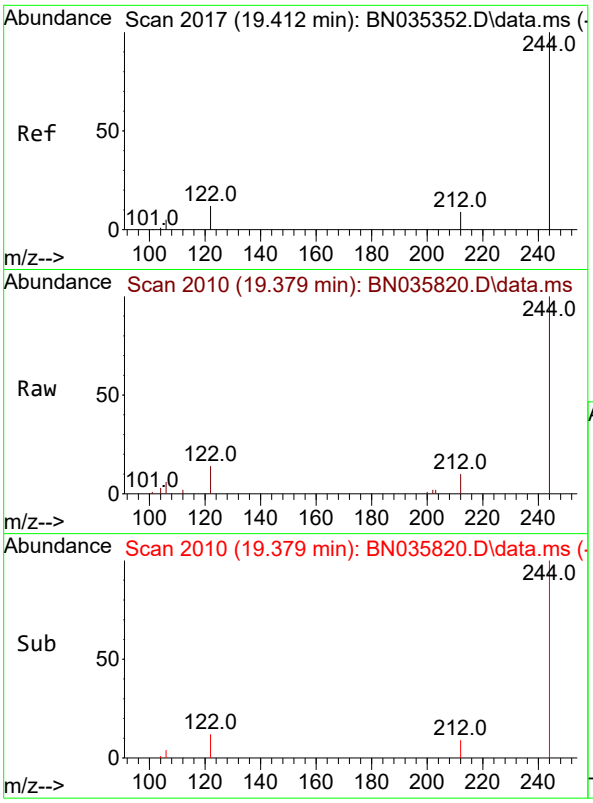




#30
Pyrene
Concen: 0.126 ng
RT: 19.151 min Scan# 1961
Delta R.T. -0.010 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

Tgt Ion:202 Resp: 3281

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 20.8 | 17.0 | 25.4 |
| 203 | 18.1 | 14.3 | 21.5 |



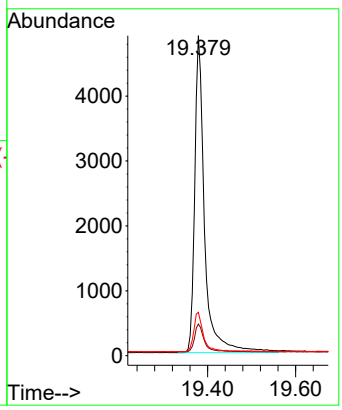


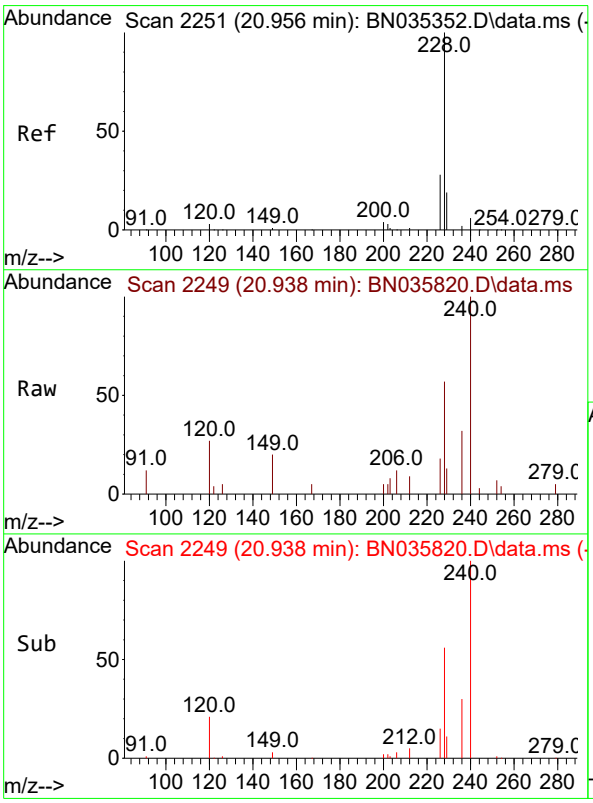

#31
Terphenyl-d14
Concen: 0.548 ng
RT: 19.379 min Scan# 2
Delta R.T. -0.010 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01S-20241218

Tgt Ion:244 Resp: 7626

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 9.9 | 8.1 | 12.1 |
| 122 | 13.5 | 10.3 | 15.5 |

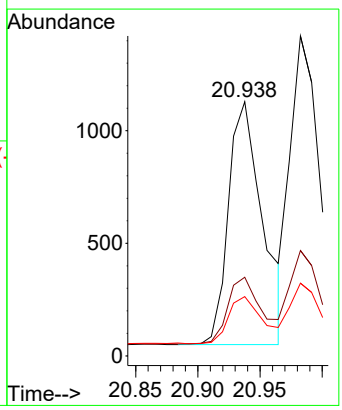


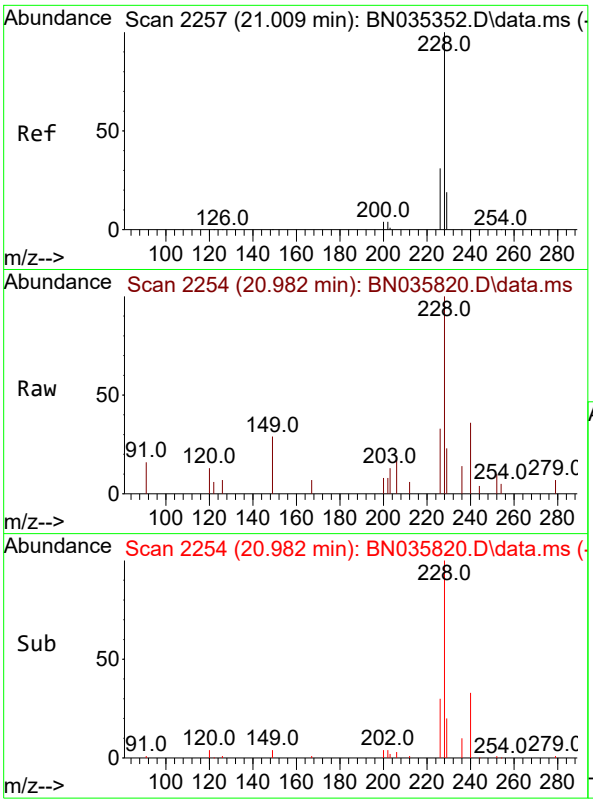




#32
Benzo(a)anthracene
Concen: 0.083 ng
RT: 20.938 min Scan# 2249
Delta R.T. -0.000 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

Tgt Ion:228 Resp: 2057

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 30.9 | 22.5 | 33.7 |
| 229 | 23.3 | 15.8 | 23.8 |



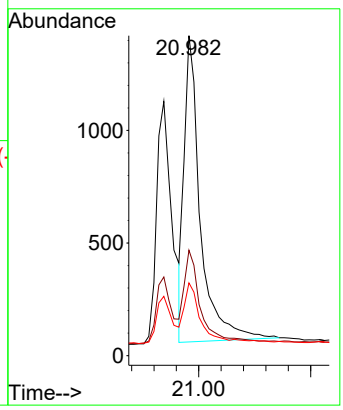


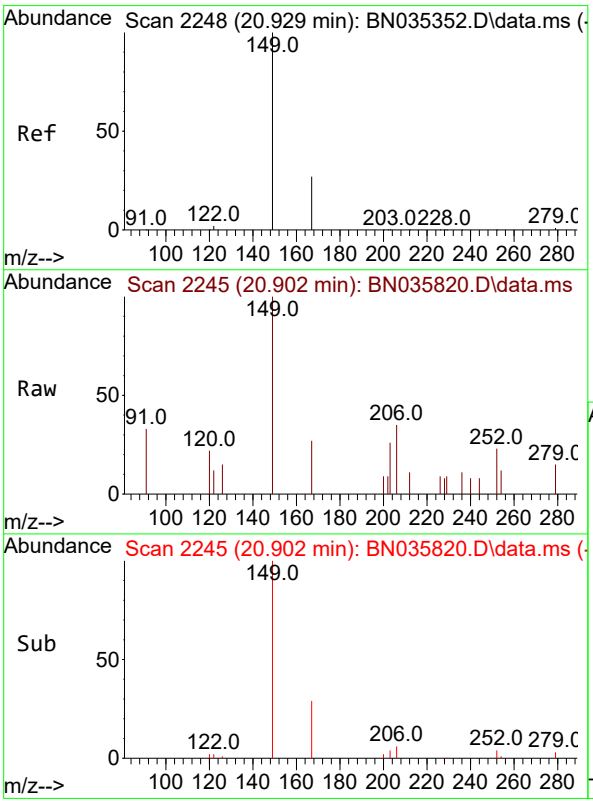

#33
Chrysene
Concen: 0.107 ng
RT: 20.982 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01S-20241218

Tgt Ion:228 Resp: 2719

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 32.9 | 24.6 | 37.0 |
| 229 | 22.7 | 15.9 | 23.9 |

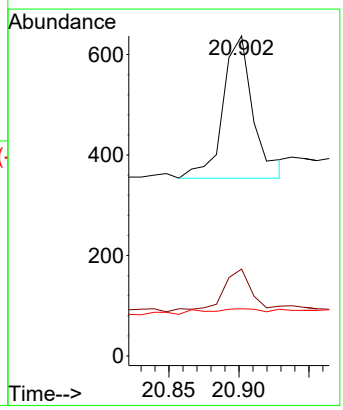


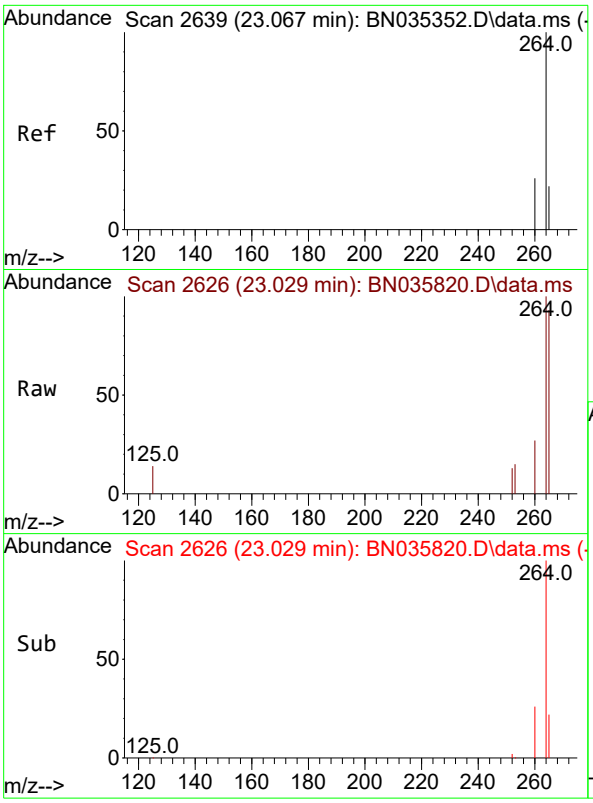




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.044 ng
RT: 20.902 min Scan# 2245
Delta R.T. -0.009 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

Tgt Ion:149 Resp: 426

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 34.0 | 22.2 | 33.4# |
| 279 | 7.3 | 2.7 | 4.1# |



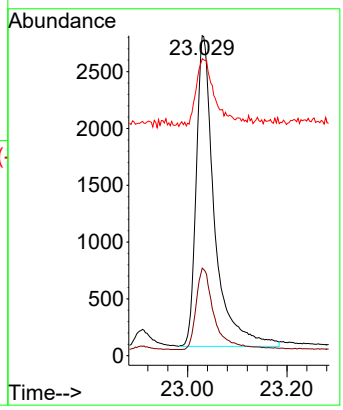


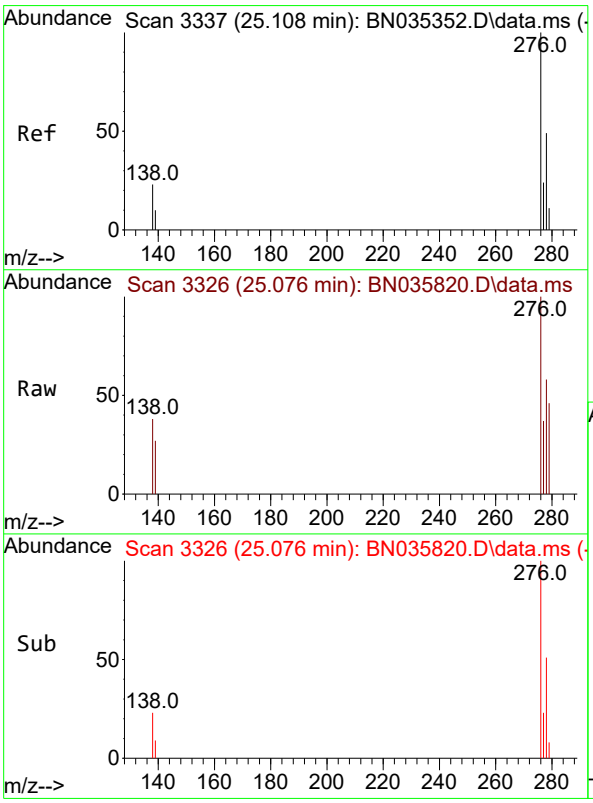

#35
Perylene-d12
Concen: 0.400 ng
RT: 23.029 min Scan# 2
Delta R.T. -0.012 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01S-20241218

Tgt Ion:264 Resp: 6962

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 27.4 | 21.4 | 32.2 |
| 265 | 92.8 | 40.2 | 60.4# |

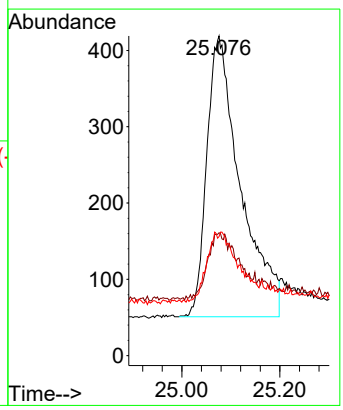


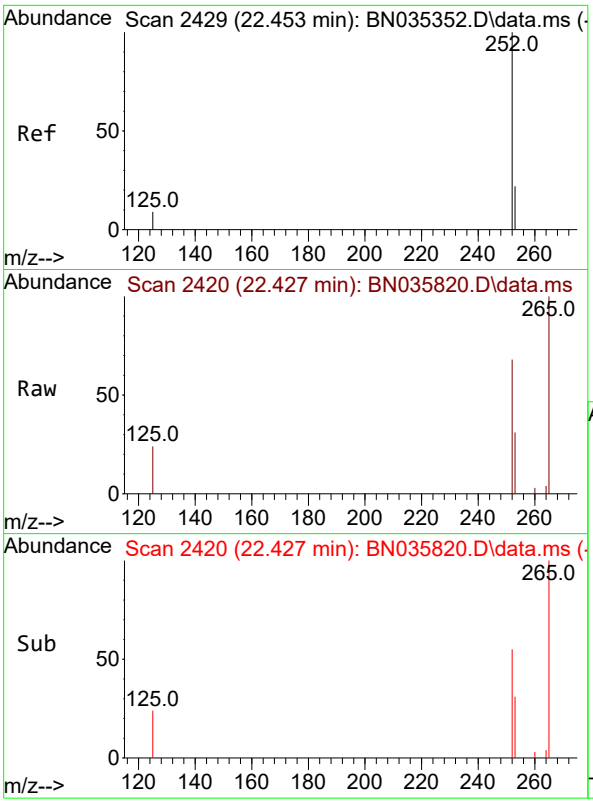




#36
Indeno(1,2,3-cd)pyrene
Concen: 0.065 ng
RT: 25.076 min Scan# 3326
Delta R.T. 0.009 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

Tgt Ion:276 Resp: 1756

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 20.6 | 19.4 | 29.0 |
| 277 | 7.7 | 19.8 | 29.6# |



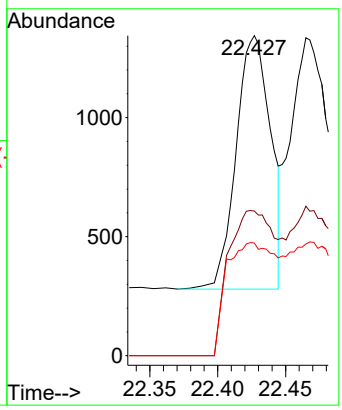


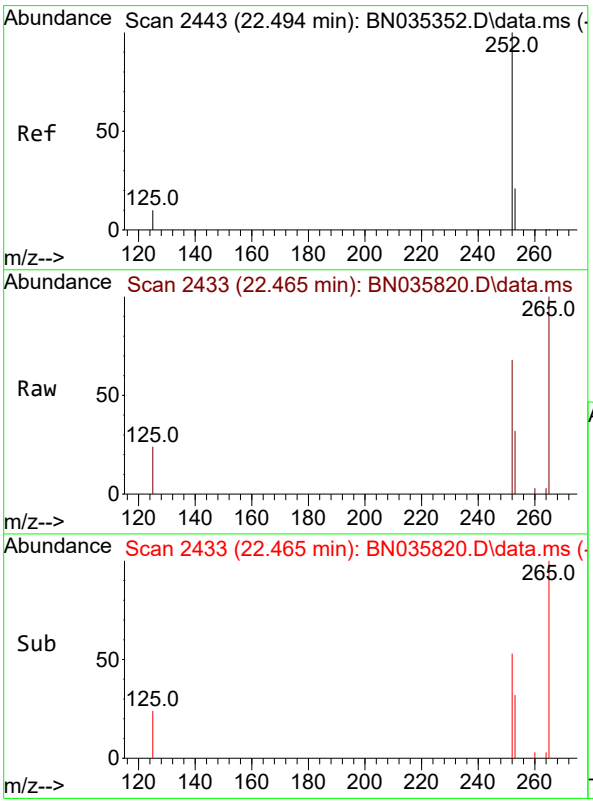

#37
Benzo(b)fluoranthene
Concen: 0.105 ng
RT: 22.427 min Scan# 24
Delta R.T. -0.003 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01S-20241218

Tgt Ion:252 Resp: 2679

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 45.2 | 19.6 | 29.4# |
| 125 | 35.2 | 9.6 | 14.4# |

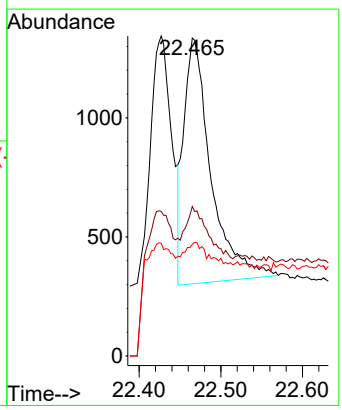


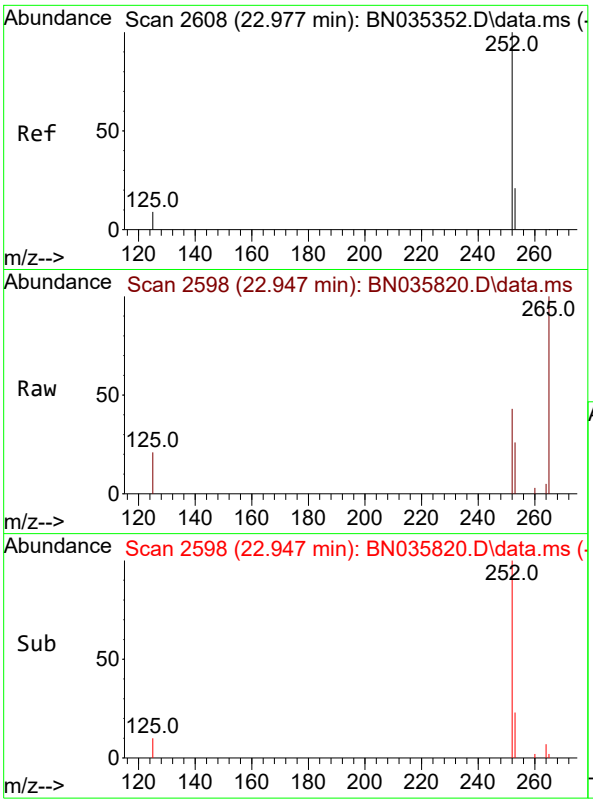




#38
Benzo(k)fluoranthene
Concen: 0.095 ng
RT: 22.465 min Scan# 2433
Delta R.T. -0.006 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

Tgt Ion:252 Resp: 2384

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 47.0 | 19.5 | 29.3# |
| 125 | 35.1 | 10.2 | 15.4# |



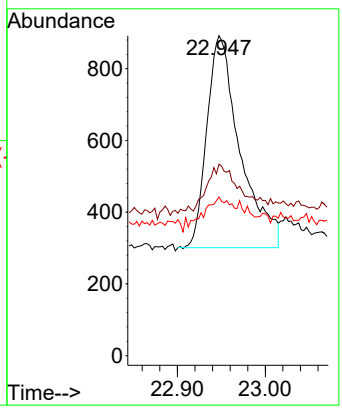


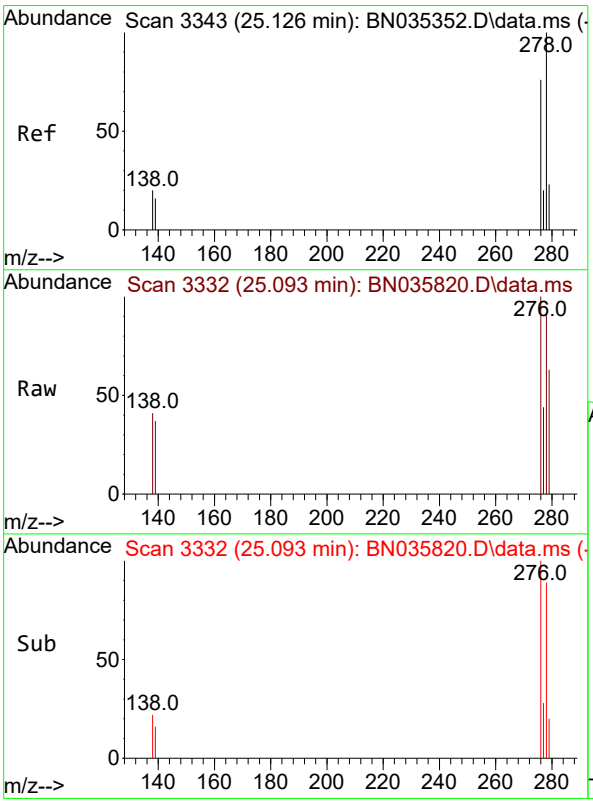

#39
Benzo(a)pyrene
Concen: 0.074 ng
RT: 22.947 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01S-20241218

Tgt Ion:252 Resp: 1551

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 59.9 | 20.2 | 30.4# |
| 125 | 49.6 | 10.9 | 16.3# |

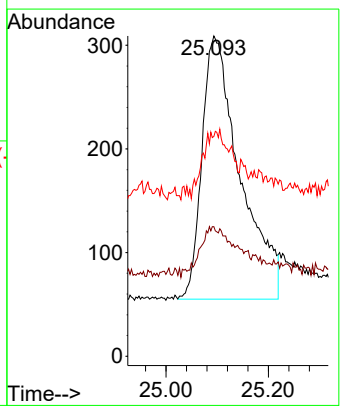


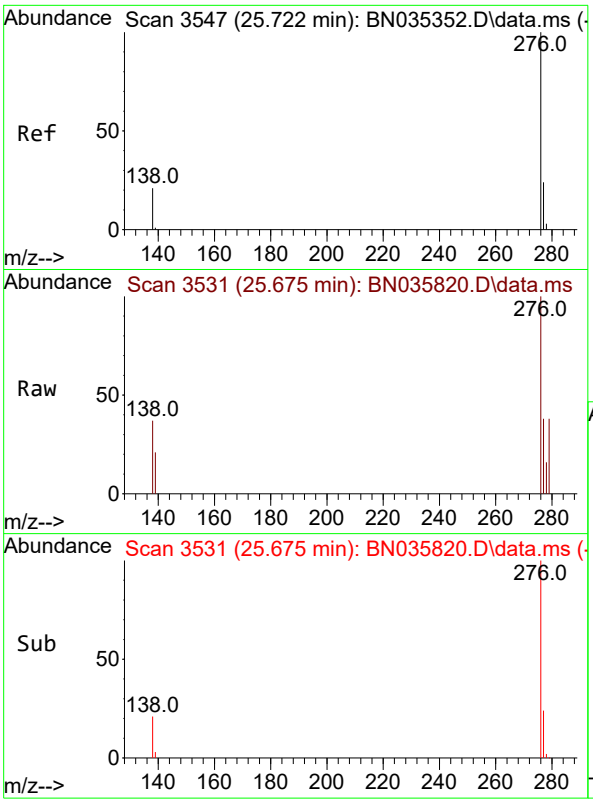




#40
Dibenzo(a,h)anthracene
Concen: 0.061 ng
RT: 25.093 min Scan# 3332
Delta R.T. 0.011 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

Tgt Ion:278 Resp: 1312

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 40.5 | 14.2 | 21.4# |
| 279 | 68.6 | 20.5 | 30.7# |



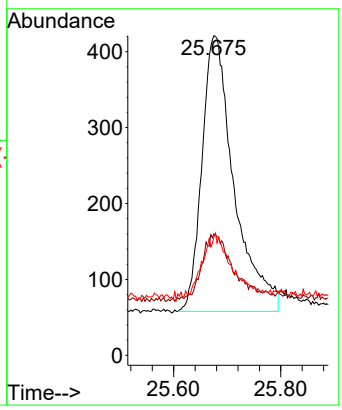



#41
Benzo(g,h,i)perylene
Concen: 0.067 ng
RT: 25.675 min Scan# 3
Delta R.T. -0.003 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01S-20241218

Tgt Ion:276 Resp: 1511

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 38.0 | 19.9 | 29.9# |
| 138 | 37.1 | 17.8 | 26.8# |



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035821.D
Acq On : 24 Dec 2024 14:55
Operator : RC/JU
Sample : P5376-08MS
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01S-20241218MS

Quant Time: Dec 24 23:18:51 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

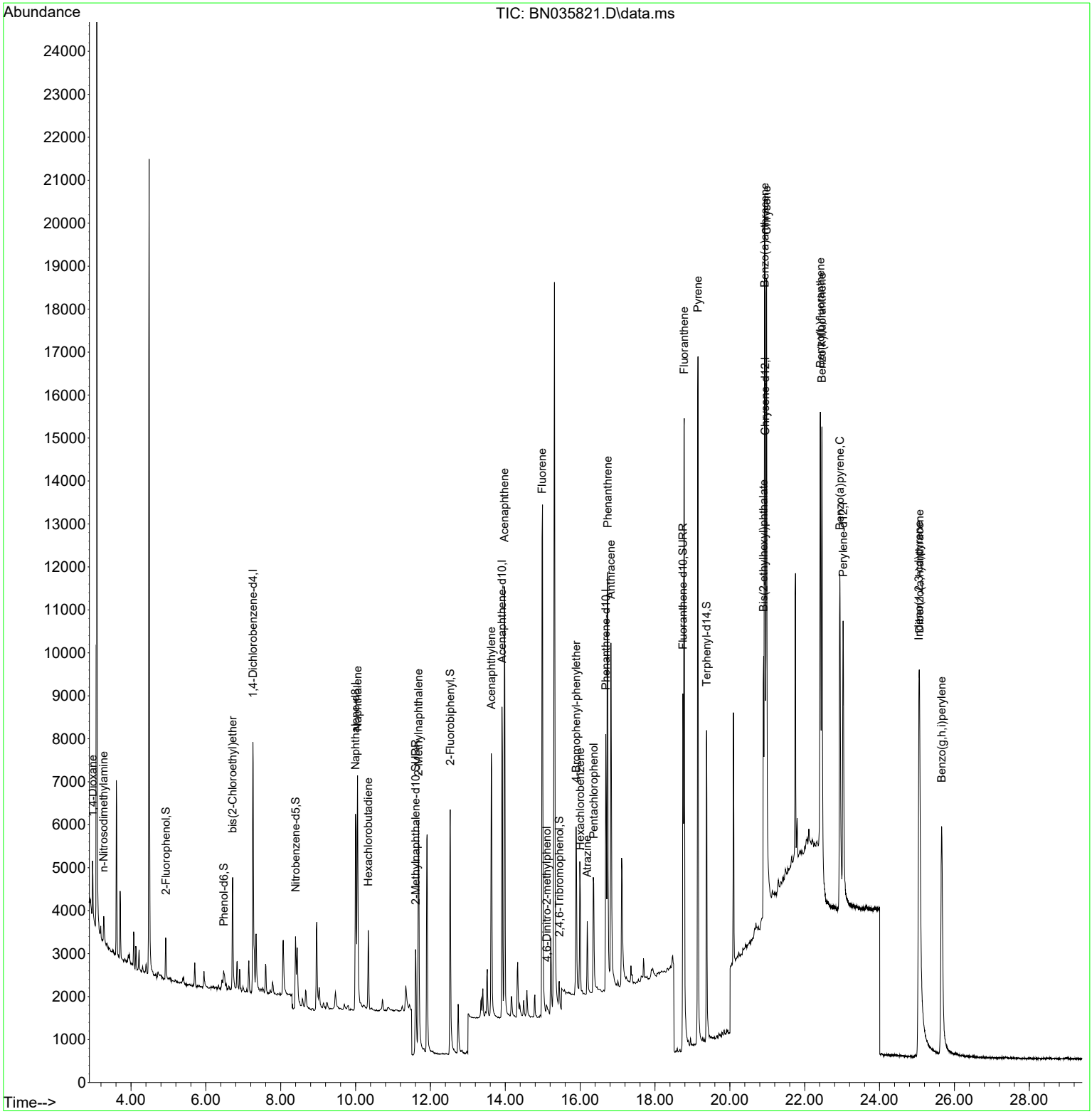
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.257 | 152 | 3131 | 0.400 | ng | -0.01 |
| 7) Naphthalene-d8 | 9.998 | 136 | 7403 | 0.400 | ng | -0.02 |
| 13) Acenaphthene-d10 | 13.914 | 164 | 4434 | 0.400 | ng | -0.02 |
| 19) Phenanthrene-d10 | 16.686 | 188 | 9040 | 0.400 | ng | #-0.01 |
| 29) Chrysene-d12 | 20.947 | 240 | 8798 | 0.400 | ng | # 0.00 |
| 35) Perylene-d12 | 23.026 | 264 | 9479 | 0.400 | ng | #-0.01 |
| System Monitoring Compounds | | | | | | |
| 4) 2-Fluorophenol | 4.932 | 112 | 943 | 0.120 | ng | 0.00 |
| 5) Phenol-d6 | 6.477 | 99 | 545 | 0.058 | ng | -0.01 |
| 8) Nitrobenzene-d5 | 8.397 | 82 | 2211 | 0.489 | ng | -0.01 |
| 11) 2-Methylnaphthalene-d10 | 11.605 | 152 | 4950 | 0.427 | ng | -0.02 |
| 14) 2,4,6-Tribromophenol | 15.443 | 330 | 691 | 0.220 | ng | -0.01 |
| 15) 2-Fluorobiphenyl | 12.528 | 172 | 6280 | 0.375 | ng | -0.02 |
| 27) Fluoranthene-d10 | 18.747 | 212 | 10896 | 0.425 | ng | -0.01 |
| 31) Terphenyl-d14 | 19.379 | 244 | 8459 | 0.487 | ng | 0.00 |
| Target Compounds | | | | | | Qvalue |
| 2) 1,4-Dioxane | 2.974 | 88 | 909 | 0.304 | ng | # 85 |
| 3) n-Nitrosodimethylamine | 3.270 | 42 | 393 | 0.158 | ng | # 88 |
| 6) bis(2-Chloroethyl)ether | 6.715 | 93 | 2329 | 0.294 | ng | 98 |
| 9) Naphthalene | 10.052 | 128 | 7736 | 0.396 | ng | 99 |
| 10) Hexachlorobutadiene | 10.340 | 225 | 1471 | 0.327 | ng | # 100 |
| 12) 2-Methylnaphthalene | 11.681 | 142 | 5119 | 0.366 | ng | 99 |
| 16) Acenaphthylene | 13.625 | 152 | 8059 | 0.433 | ng | 99 |
| 17) Acenaphthene | 13.978 | 154 | 5206 | 0.421 | ng | 99 |
| 18) Fluorene | 14.983 | 166 | 6975 | 0.394 | ng | 99 |
| 20) 4,6-Dinitro-2-methylph... | 15.111 | 198 | 266 | 0.299 | ng | # 39 |
| 21) 4-Bromophenyl-phenylether | 15.891 | 248 | 1959 | 0.370 | ng | # 75 |
| 22) Hexachlorobenzene | 16.003 | 284 | 2633 | 0.424 | ng | 98 |
| 23) Atrazine | 16.189 | 200 | 1523 | 0.405 | ng | 96 |
| 24) Pentachlorophenol | 16.363 | 266 | 1863 | 0.690 | ng | # 86 |
| 25) Phenanthrene | 16.735 | 178 | 12002 | 0.483 | ng | 100 |
| 26) Anthracene | 16.822 | 178 | 10344 | 0.461 | ng | 99 |
| 28) Fluoranthene | 18.780 | 202 | 14906 | 0.445 | ng | 99 |
| 30) Pyrene | 19.147 | 202 | 15976 | 0.492 | ng | 99 |
| 32) Benzo(a)anthracene | 20.929 | 228 | 13869 | 0.451 | ng | 99 |
| 33) Chrysene | 20.983 | 228 | 16049 | 0.506 | ng | 99 |
| 34) Bis(2-ethylhexyl)phtha... | 20.902 | 149 | 6067 | 0.499 | ng | 98 |
| 36) Indeno(1,2,3-cd)pyrene | 25.052 | 276 | 15853 | 0.428 | ng | 98 |
| 37) Benzo(b)fluoranthene | 22.418 | 252 | 20643 | 0.595 | ng | # 94 |
| 38) Benzo(k)fluoranthene | 22.459 | 252 | 16743 | 0.491 | ng | # 94 |
| 39) Benzo(a)pyrene | 22.939 | 252 | 13748 | 0.481 | ng | # 89 |
| 40) Dibenzo(a,h)anthracene | 25.067 | 278 | 11568 | 0.396 | ng | 94 |
| 41) Benzo(g,h,i)perylene | 25.658 | 276 | 13235 | 0.433 | ng | 98 |

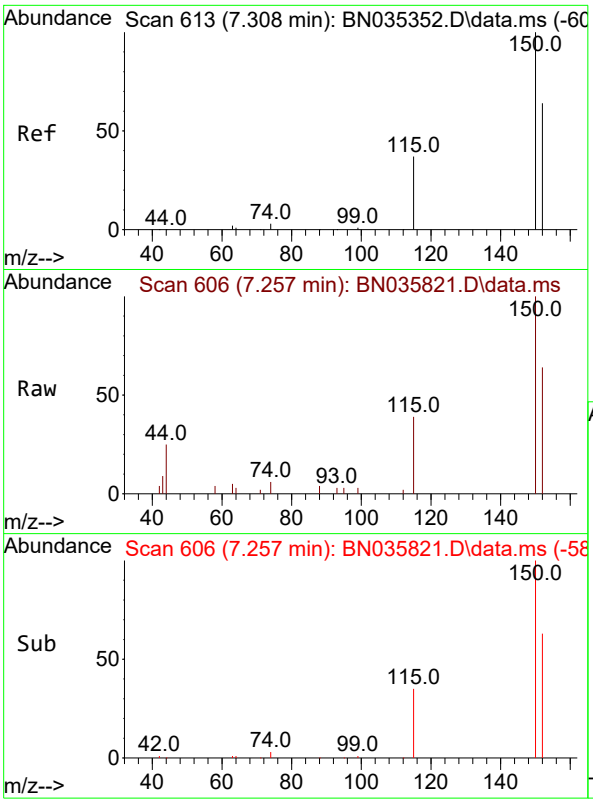
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035821.D
Acq On : 24 Dec 2024 14:55
Operator : RC/JU
Sample : P5376-08MS
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01S-20241218MS

Quant Time: Dec 24 23:18:51 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



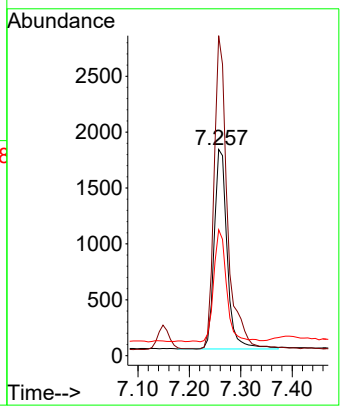


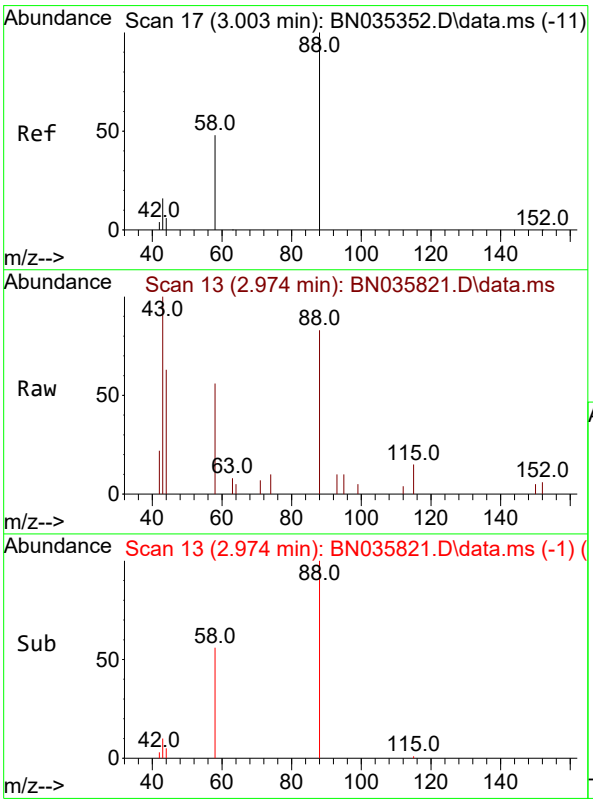

#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 6
Delta R.T. -0.015 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01S-20241218MS

Tgt Ion:152 Resp: 3131

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 155.2 | 124.0 | 186.0 |
| 115 | 61.0 | 49.6 | 74.4 |

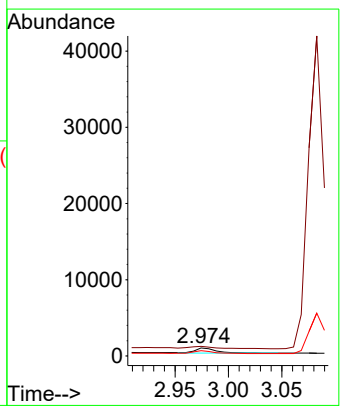


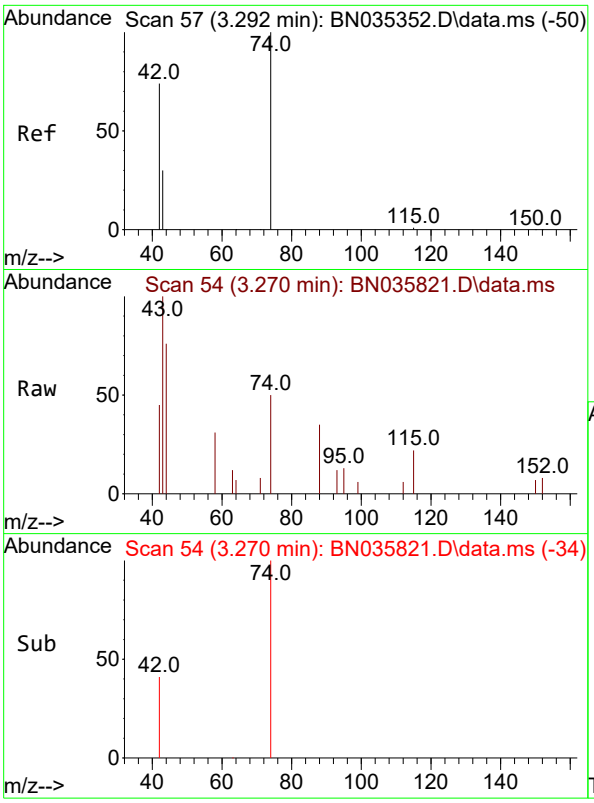




#2
1,4-Dioxane
Concen: 0.304 ng
RT: 2.974 min Scan# 13
Delta R.T. -0.007 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion: 88 Resp: 909

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 0.0 | 17.2 | 25.8# |
| 58 | 58.4 | 44.5 | 66.7 |



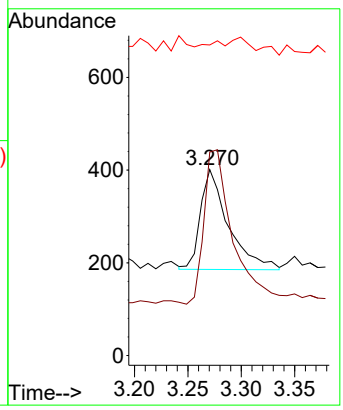


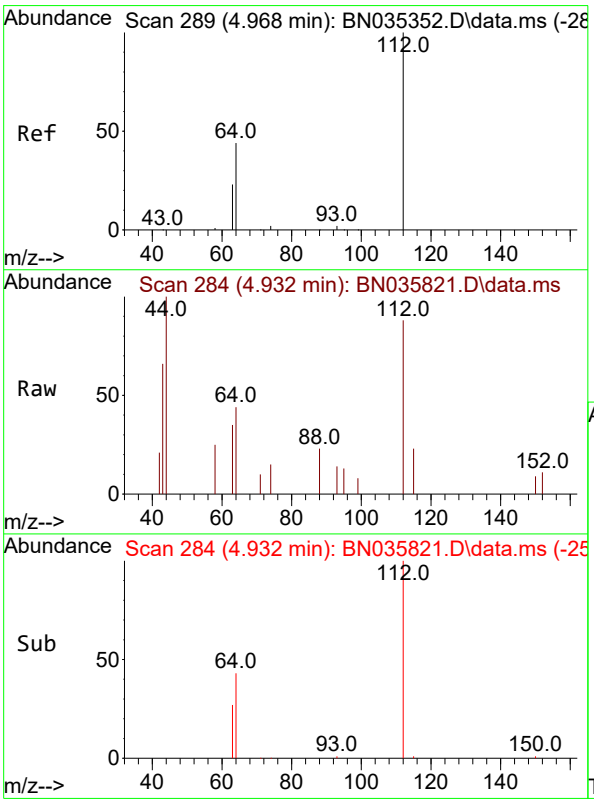

#3
n-Nitrosodimethylamine
Concen: 0.158 ng
RT: 3.270 min Scan# 54
Delta R.T. -0.007 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01S-20241218MS

Tgt Ion: 42 Resp: 393

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 172.0 | 124.9 | 187.3 |
| 44 | 0.0 | 2.2 | 3.4# |

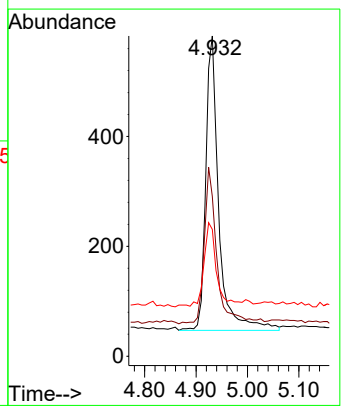


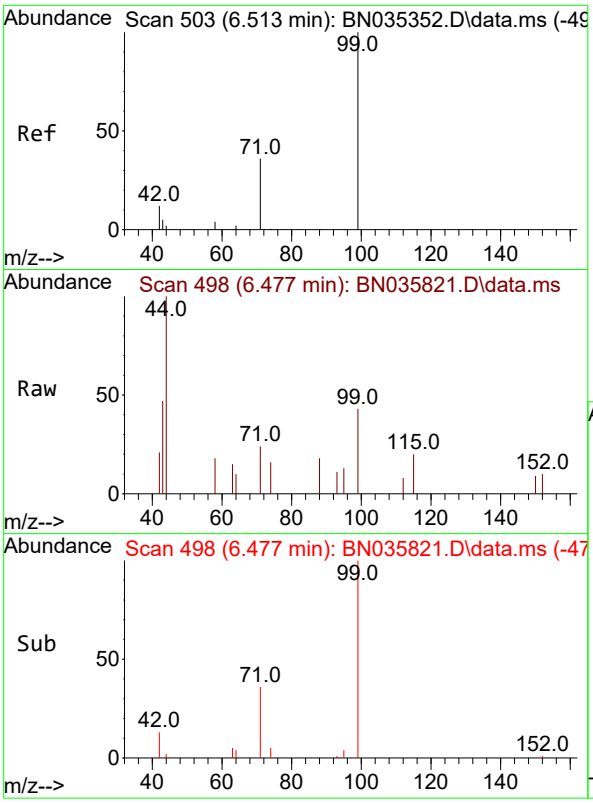




#4
2-Fluorophenol
Concen: 0.120 ng
RT: 4.932 min Scan# 284
Delta R.T. -0.007 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:112 Resp: 943

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 51.9 | 39.8 | 59.8 |
| 63 | 28.2 | 21.0 | 31.6 |



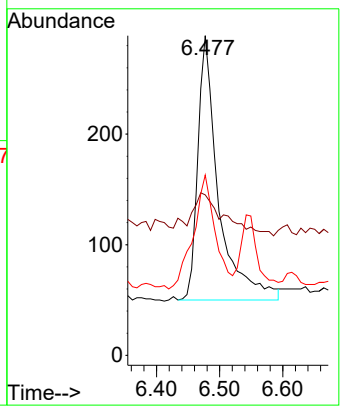


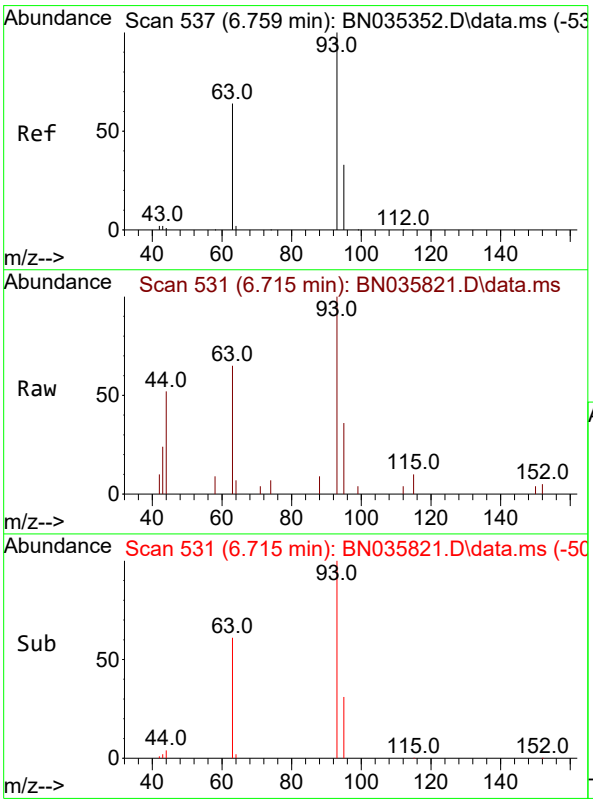

#5
Phenol-d6
Concen: 0.058 ng
RT: 6.477 min Scan# 4
Delta R.T. -0.015 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01S-20241218MS

Tgt Ion: 99 Resp: 545

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 26.8 | 11.4 | 17.2# |
| 71 | 45.9 | 29.3 | 43.9# |

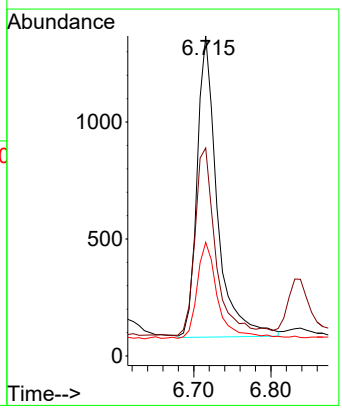


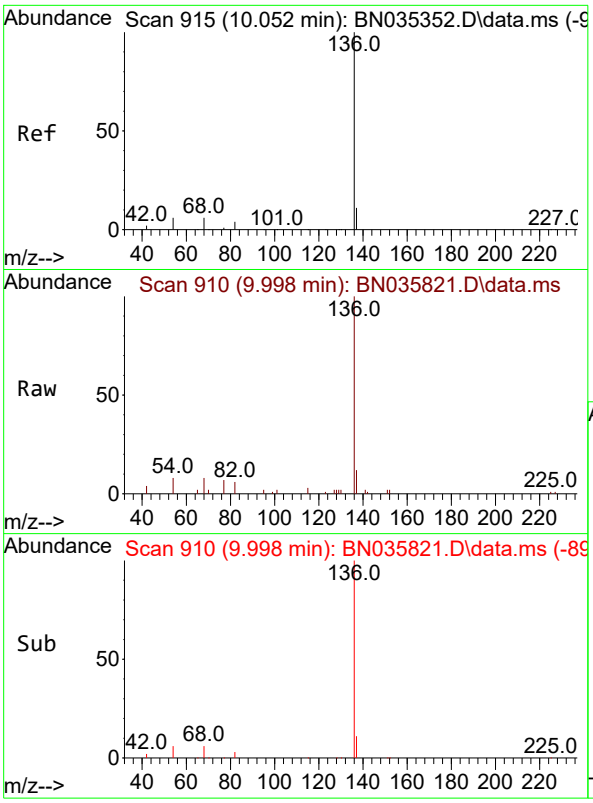




#6
bis(2-Chloroethyl)ether
Concen: 0.294 ng
RT: 6.715 min Scan# 531
Delta R.T. -0.015 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion: 93 Resp: 2329

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 65.2 | 50.4 | 75.6 |
| 95 | 32.6 | 25.7 | 38.5 |



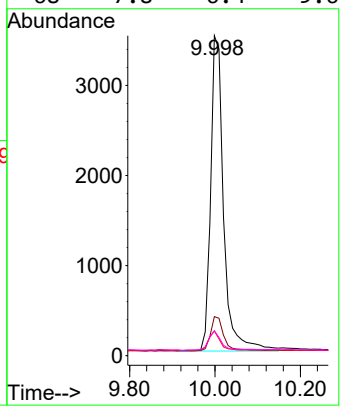


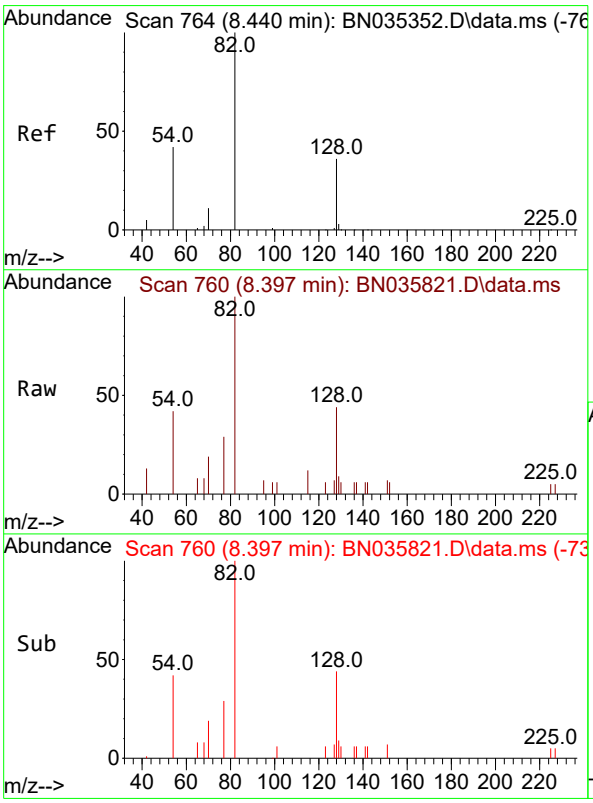

#7
Naphthalene-d8
Concen: 0.400 ng
RT: 9.998 min Scan# 91
Delta R.T. -0.022 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01S-20241218MS

Tgt Ion:136 Resp: 7403

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 12.2 | 10.2 | 15.2 |
| 54 | 7.7 | 6.1 | 9.1 |
| 68 | 7.8 | 6.4 | 9.6 |

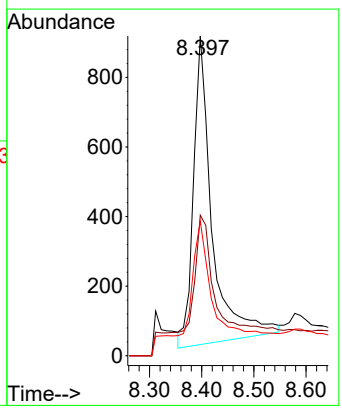


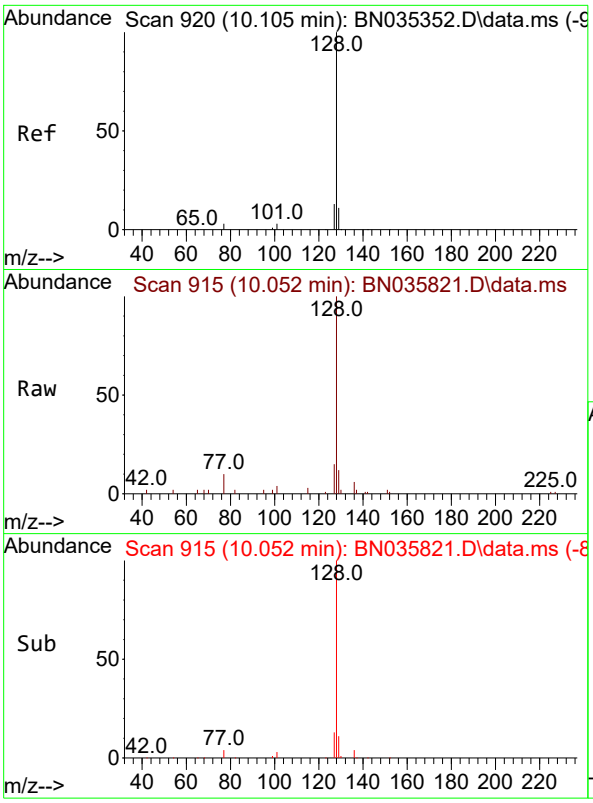




#8
Nitrobenzene-d5
Concen: 0.489 ng
RT: 8.397 min Scan# 760
Delta R.T. -0.011 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion: 82 Resp: 2211

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 44.0 | 33.4 | 50.0 |
| 54 | 42.1 | 36.7 | 55.1 |



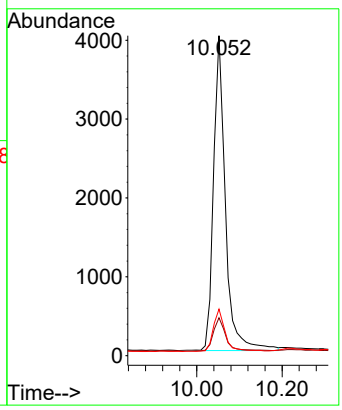


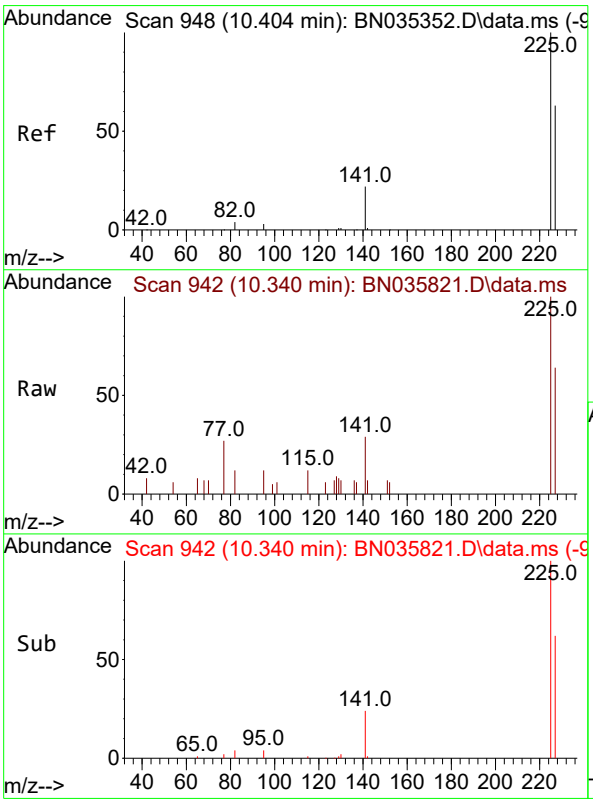

#9
Naphthalene
Concen: 0.396 ng
RT: 10.052 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01S-20241218MS

Tgt Ion:128 Resp: 7736

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 11.8 | 9.8 | 14.6 |
| 127 | 14.5 | 11.4 | 17.2 |

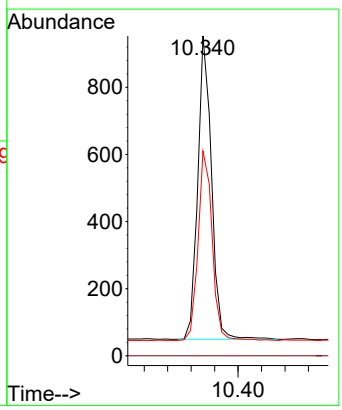


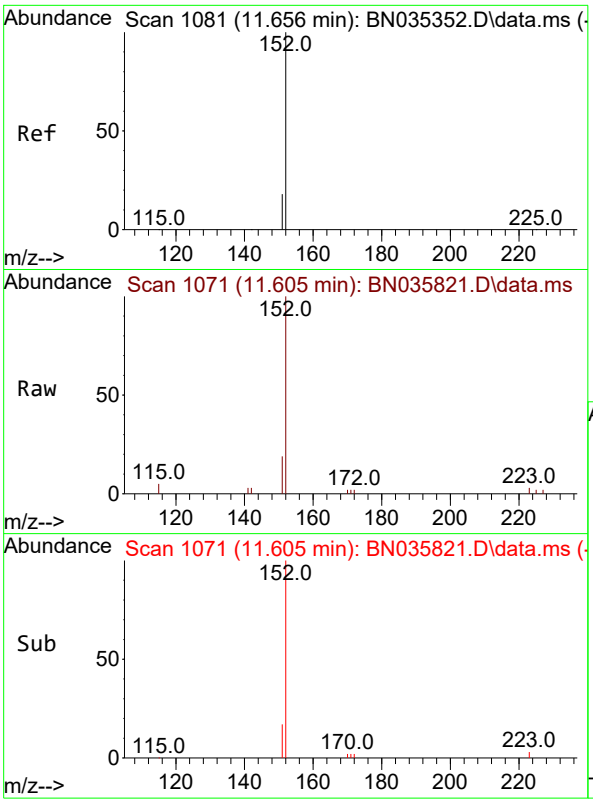




#10
Hexachlorobutadiene
Concen: 0.327 ng
RT: 10.340 min Scan# 942
Delta R.T. -0.022 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:225 Resp: 1471

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 0.0 | 0.0 | 0.0 |
| 227 | 64.0 | 51.3 | 76.9 |



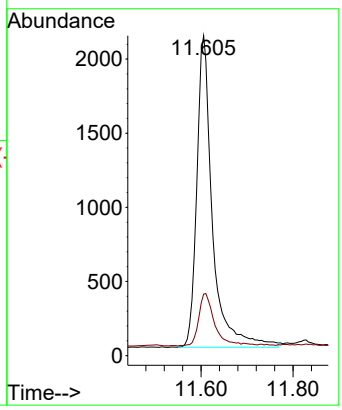


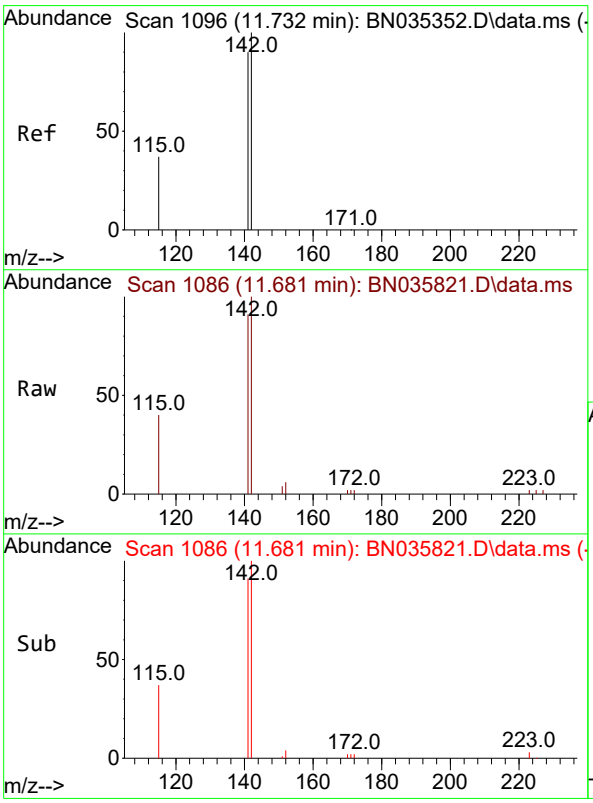

#11
2-Methylnaphthalene-d10
Concen: 0.427 ng
RT: 11.605 min Scan# 1
Delta R.T. -0.015 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01S-20241218MS

Tgt Ion:152 Resp: 4950

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 16.7 | 16.6 | 25.0 |

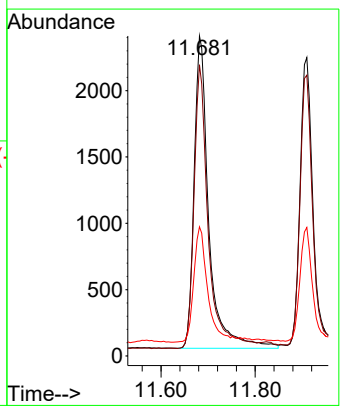


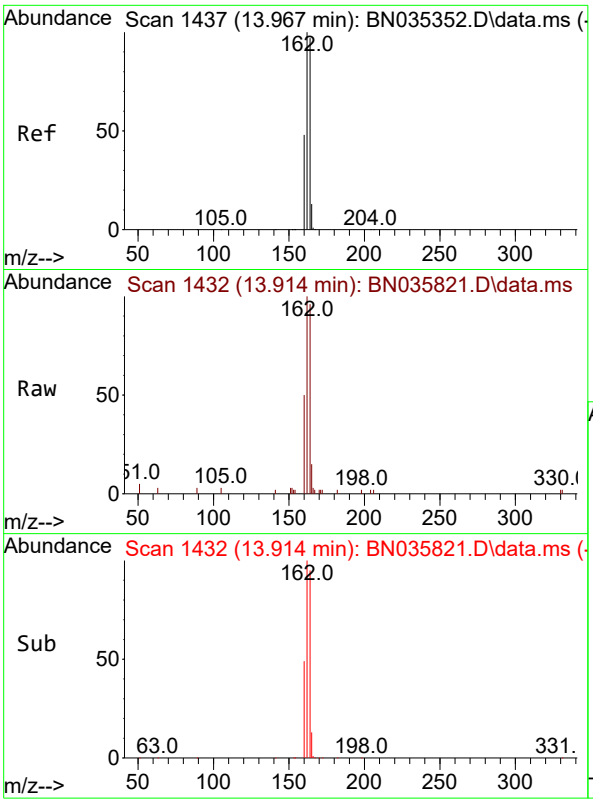




#12
2-Methylnaphthalene
Concen: 0.366 ng
RT: 11.681 min Scan# 1086
Delta R.T. -0.015 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:142 Resp: 5119

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 91.0 | 72.2 | 108.4 |
| 115 | 40.3 | 31.4 | 47.0 |



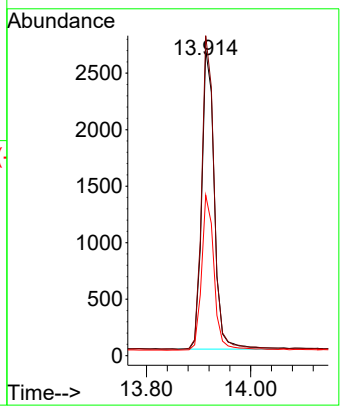


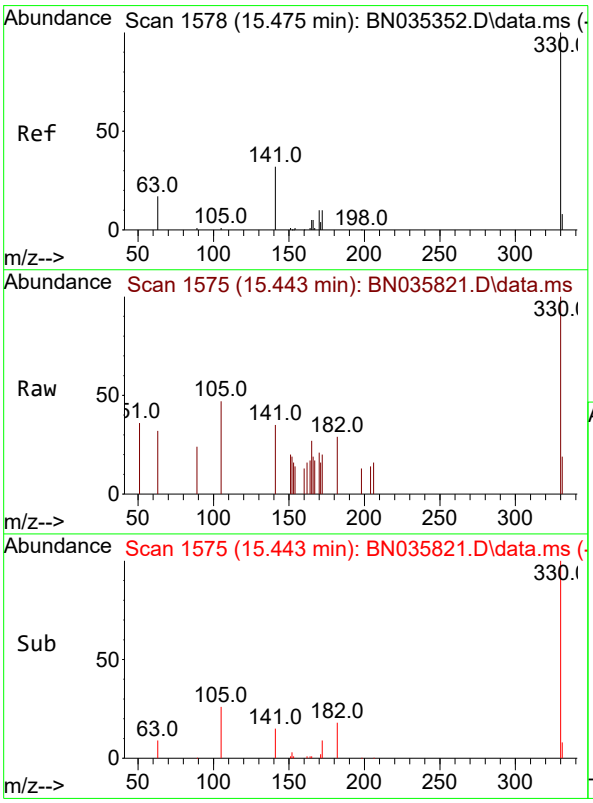

#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.914 min Scan# 14
Delta R.T. -0.022 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01S-20241218MS

Tgt Ion:164 Resp: 4434

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 104.6 | 82.2 | 123.2 |
| 160 | 52.4 | 40.1 | 60.1 |

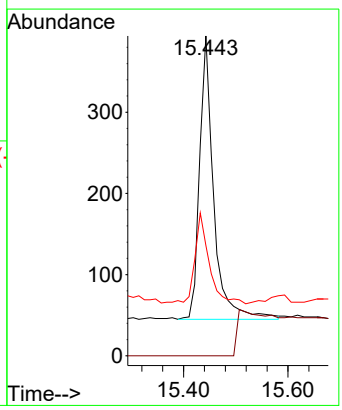


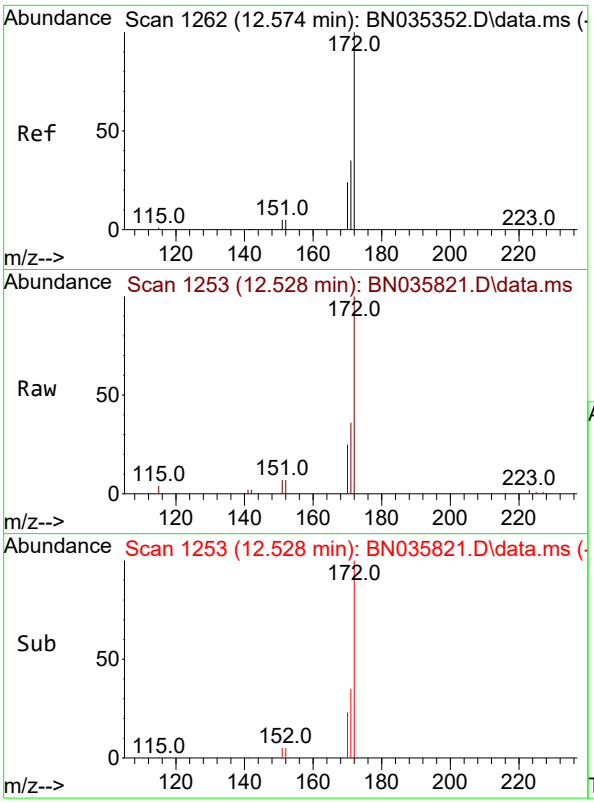




#14
2,4,6-Tribromophenol
Concen: 0.220 ng
RT: 15.443 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:330 Resp: 691

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 0.0 | 0.0 | 0.0 |
| 141 | 31.1 | 26.6 | 40.0 |



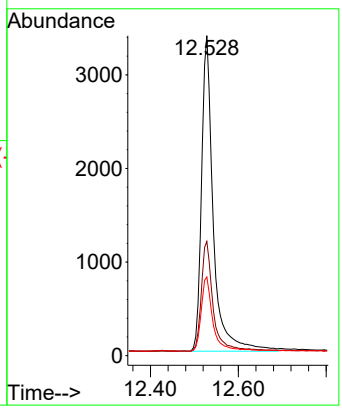


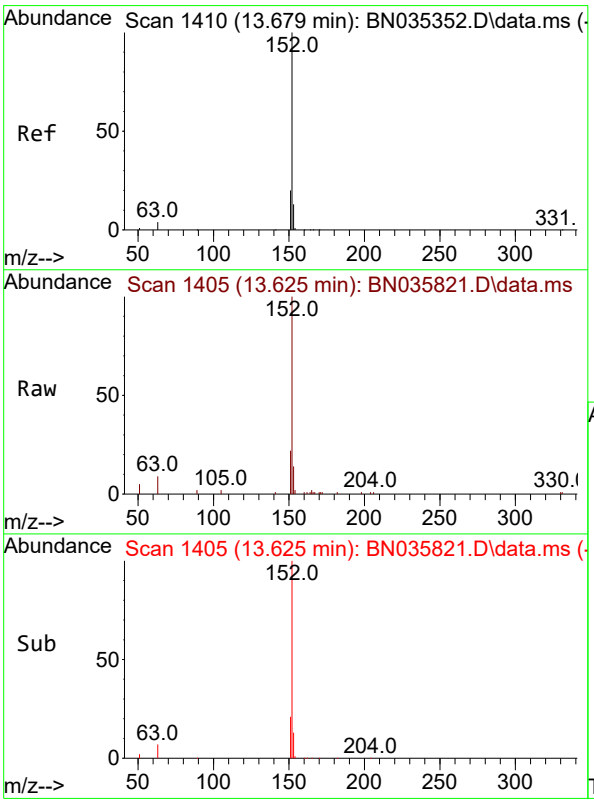

#15
2-Fluorobiphenyl
Concen: 0.375 ng
RT: 12.528 min Scan# 1
Delta R.T. -0.015 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01S-20241218MS

Tgt Ion:172 Resp: 6280

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 35.7 | 29.0 | 43.4 |
| 170 | 24.6 | 19.8 | 29.8 |

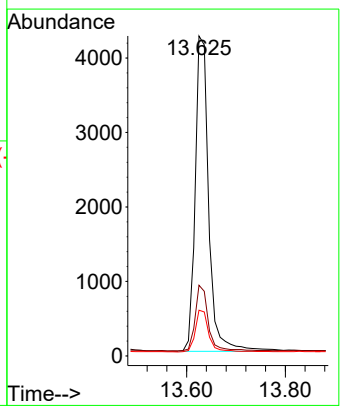


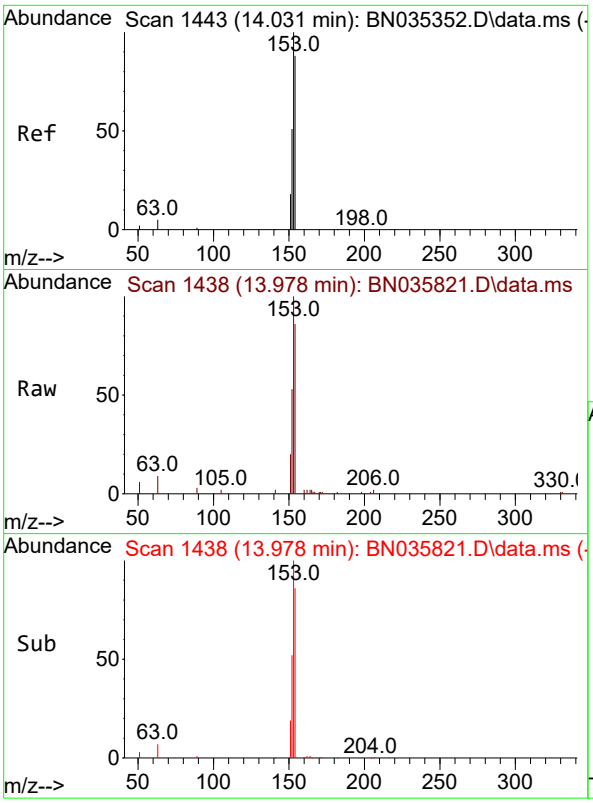




#16
Acenaphthylene
Concen: 0.433 ng
RT: 13.625 min Scan# 1405
Delta R.T. -0.022 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:152 Resp: 8059

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.3 | 16.2 | 24.2 |
| 153 | 13.4 | 10.4 | 15.6 |



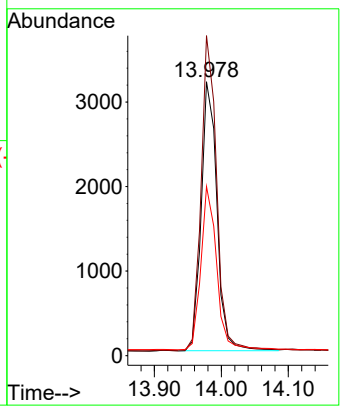


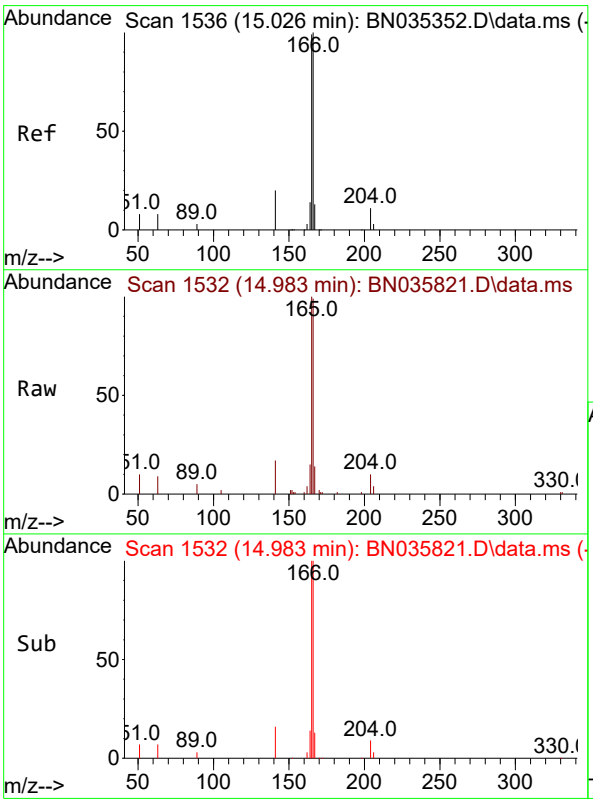

#17
Acenaphthene
Concen: 0.421 ng
RT: 13.978 min Scan# 14
Delta R.T. -0.022 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01S-20241218MS

Tgt Ion:154 Resp: 5206

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 116.9 | 92.6 | 139.0 |
| 152 | 60.7 | 49.0 | 73.6 |

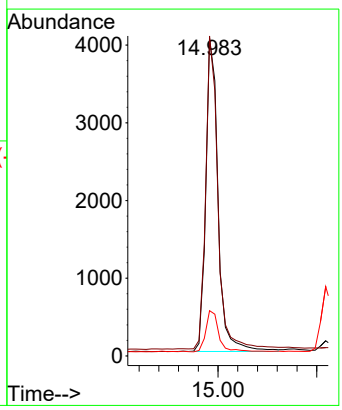


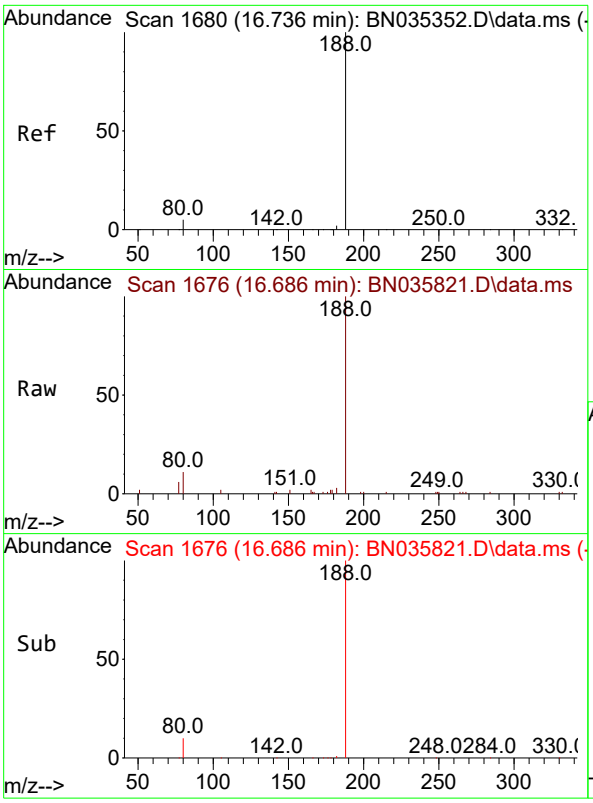




#18
Fluorene
Concen: 0.394 ng
RT: 14.983 min Scan# 1532
Delta R.T. -0.022 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:166 Resp: 6975

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 98.8 | 79.7 | 119.5 |
| 167 | 14.0 | 10.8 | 16.2 |



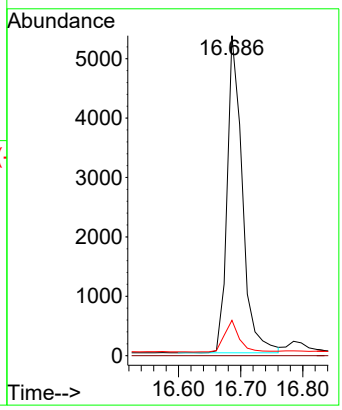


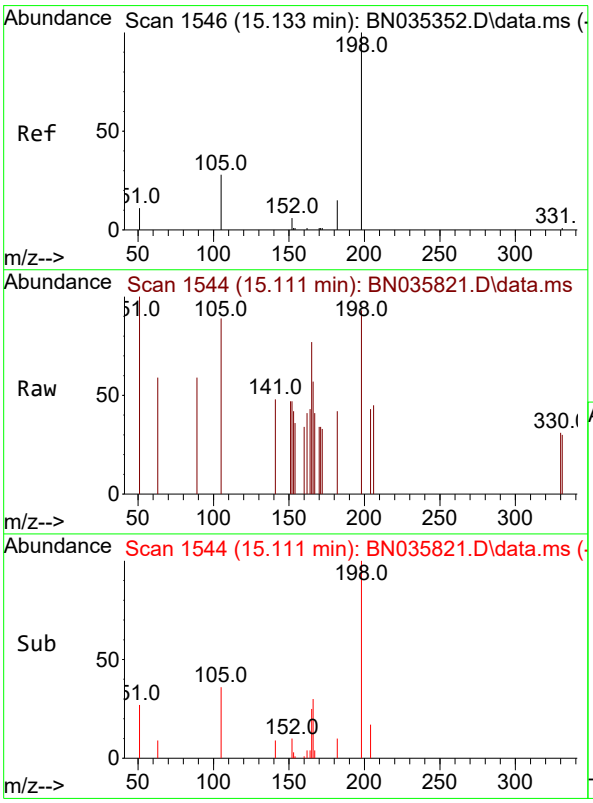

#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.686 min Scan# 1(
Delta R.T. -0.013 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01S-20241218MS

Tgt Ion:188 Resp: 9040

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 11.0 | 4.6 | 6.8# |

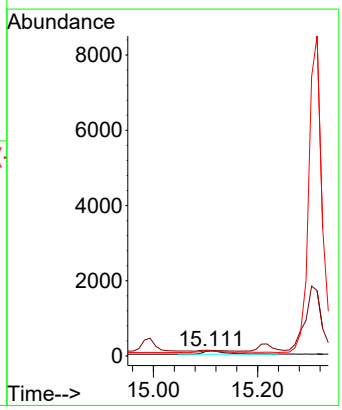


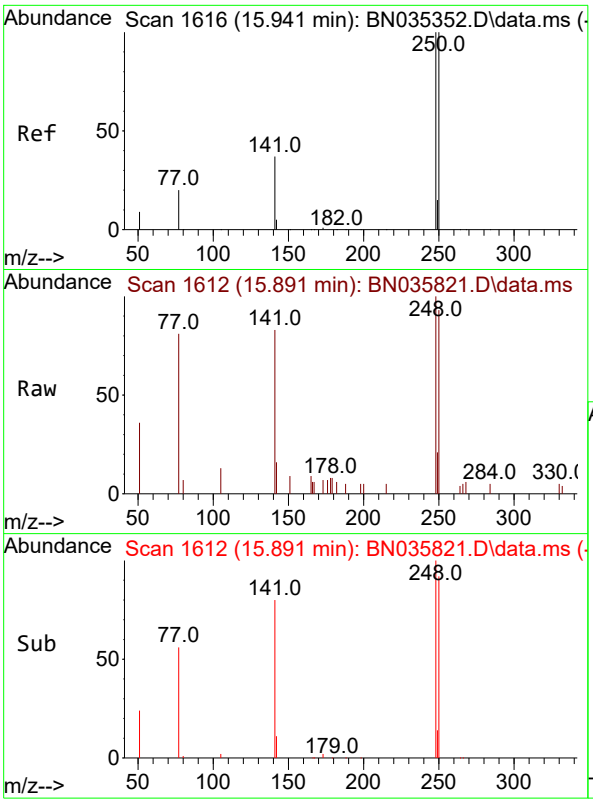




#20
4,6-Dinitro-2-methylphenol
Concen: 0.299 ng
RT: 15.111 min Scan# 1544
Delta R.T. -0.011 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:198 Resp: 266

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 198 | 100 | | |
| 51 | 108.0 | 46.5 | 69.7# |
| 105 | 96.4 | 45.3 | 67.9# |



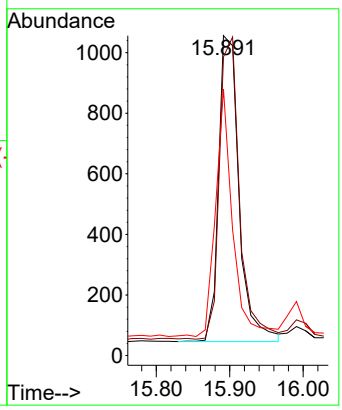


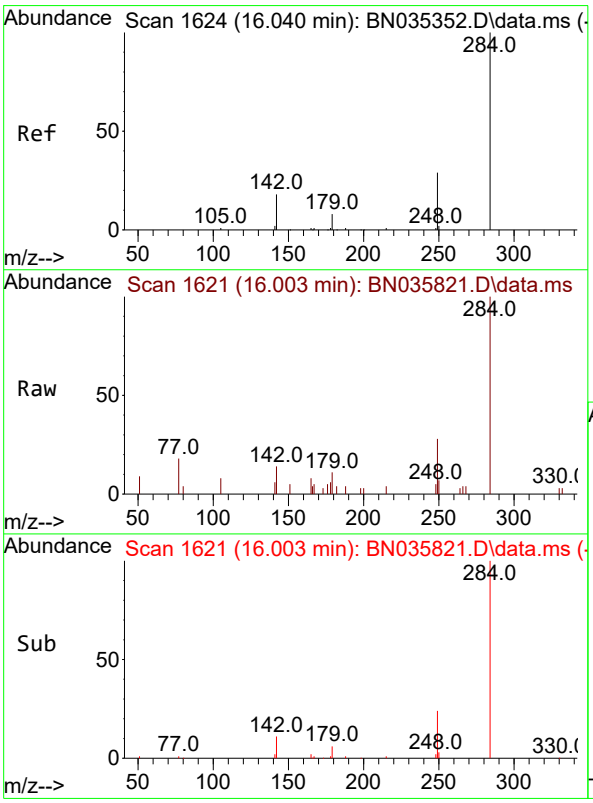

#21
4-Bromophenyl-phenylether
Concen: 0.370 ng
RT: 15.891 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01S-20241218MS

Tgt Ion:248 Resp: 1959

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 93.4 | 80.6 | 120.8 |
| 141 | 83.3 | 31.5 | 47.3# |

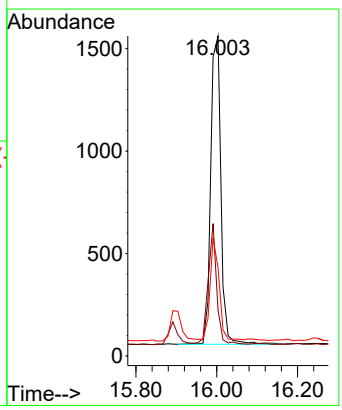


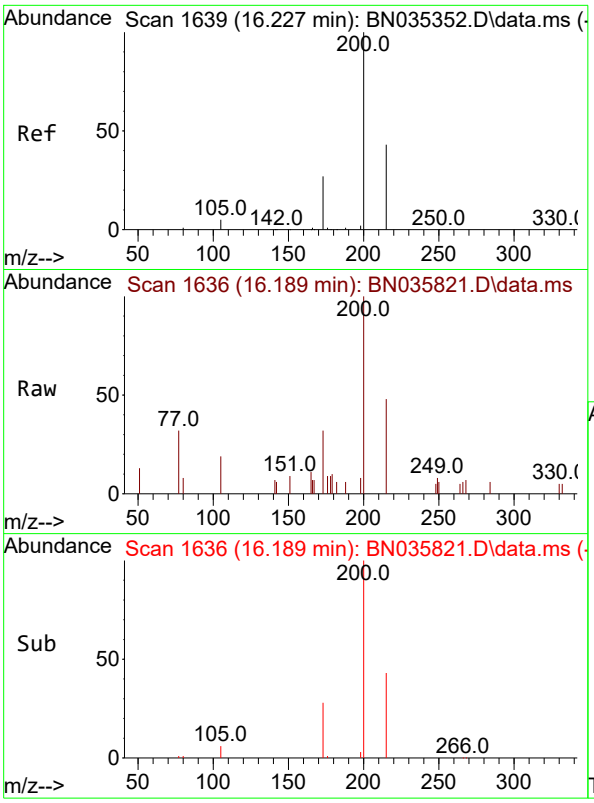




#22
Hexachlorobenzene
Concen: 0.424 ng
RT: 16.003 min Scan# 1621
Delta R.T. -0.013 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:284 Resp: 2633

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 32.3 | 26.7 | 40.1 |
| 249 | 29.1 | 24.6 | 36.8 |



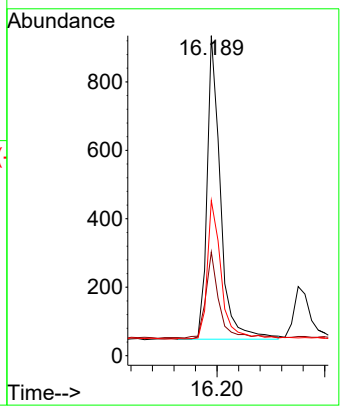


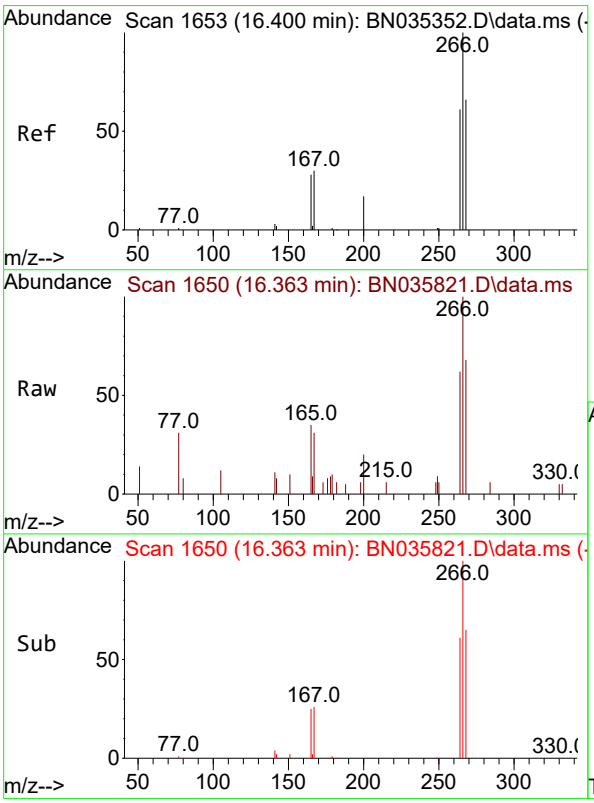

#23
Atrazine
Concen: 0.405 ng
RT: 16.189 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01S-20241218MS

Tgt Ion:200 Resp: 1523

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 173 | 32.4 | 24.1 | 36.1 |
| 215 | 48.4 | 36.9 | 55.3 |

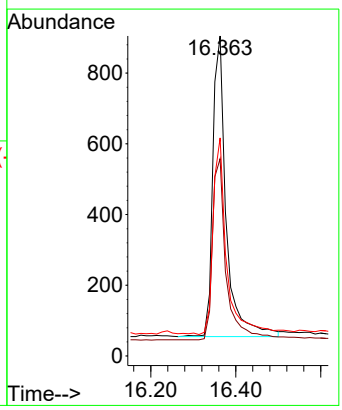


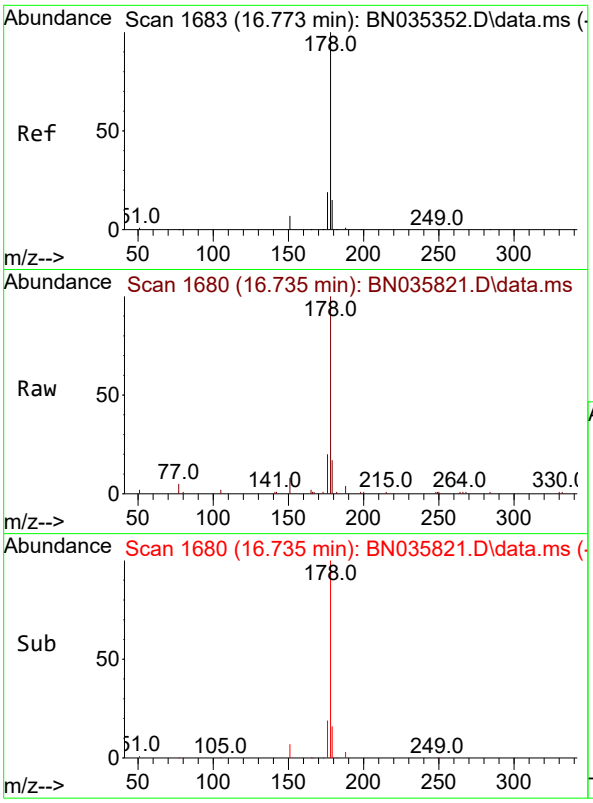




#24
Pentachlorophenol
Concen: 0.690 ng
RT: 16.363 min Scan# 1650
Delta R.T. -0.013 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:266 Resp: 1863

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 264 | 61.3 | 42.3 | 63.5 |
| 268 | 65.9 | 43.3 | 64.9# |



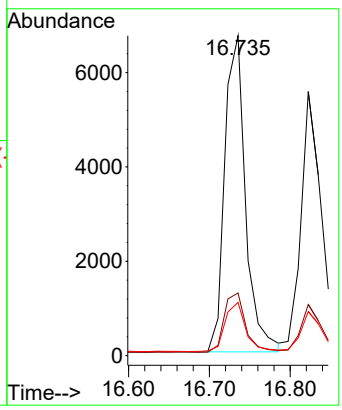


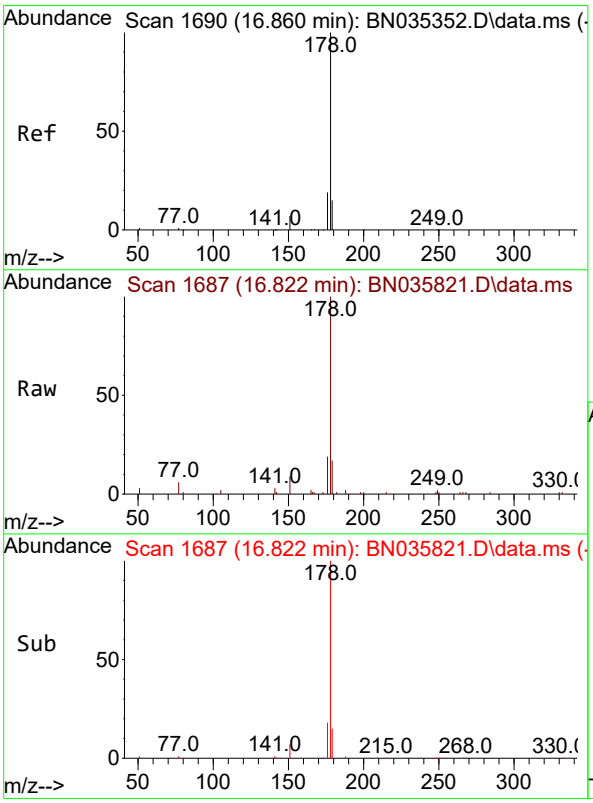

#25
Phenanthrene
Concen: 0.483 ng
RT: 16.735 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01S-20241218MS

Tgt Ion:178 Resp: 12002

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.2 | 15.4 | 23.2 |
| 179 | 15.4 | 12.3 | 18.5 |

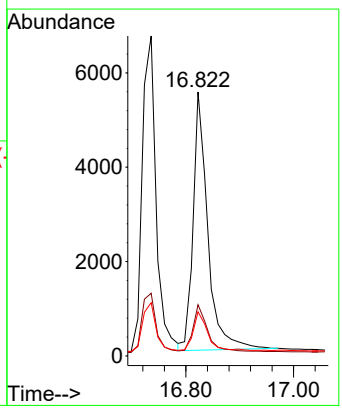


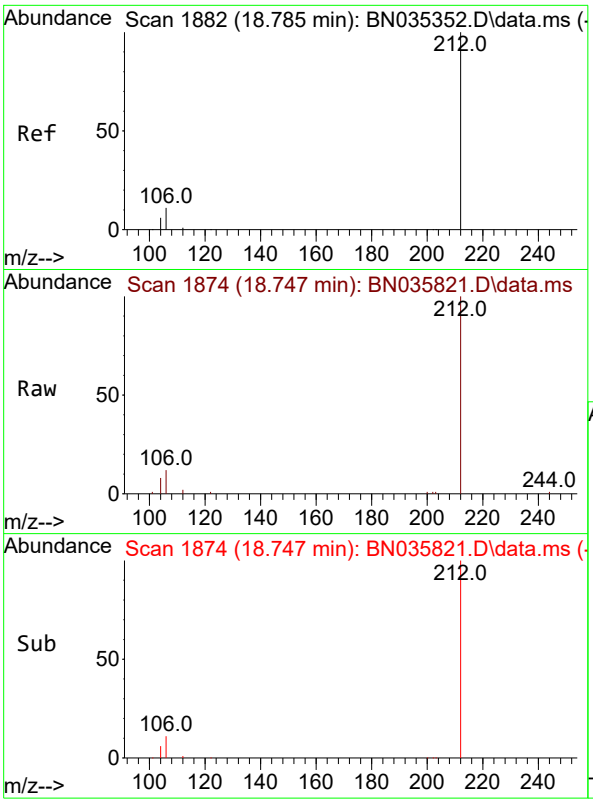




#26
Anthracene
Concen: 0.461 ng
RT: 16.822 min Scan# 1687
Delta R.T. -0.013 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:178 Resp: 10344

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.3 | 15.0 | 22.6 |
| 179 | 14.9 | 12.6 | 18.8 |



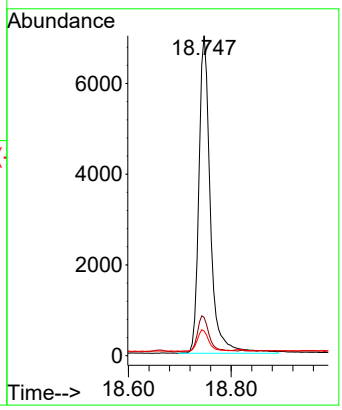


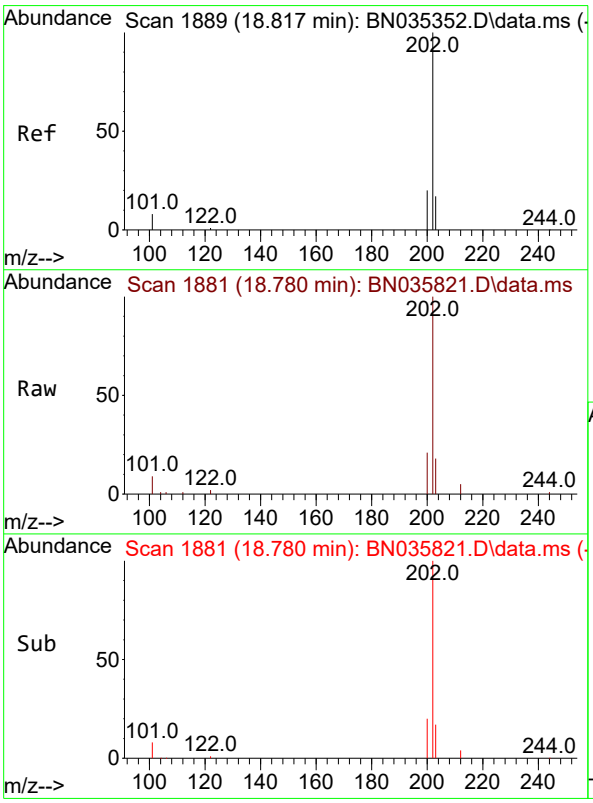

#27
Fluoranthene-d10
Concen: 0.425 ng
RT: 18.747 min Scan# 1
Delta R.T. -0.014 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01S-20241218MS

Tgt Ion:212 Resp: 10896

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 11.8 | 9.2 | 13.8 |
| 104 | 6.7 | 5.3 | 7.9 |

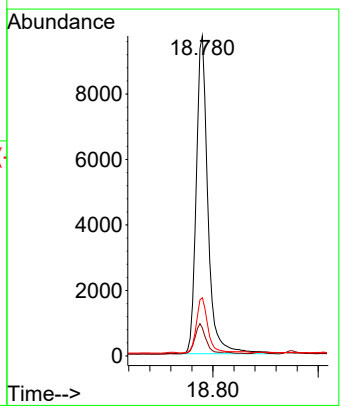


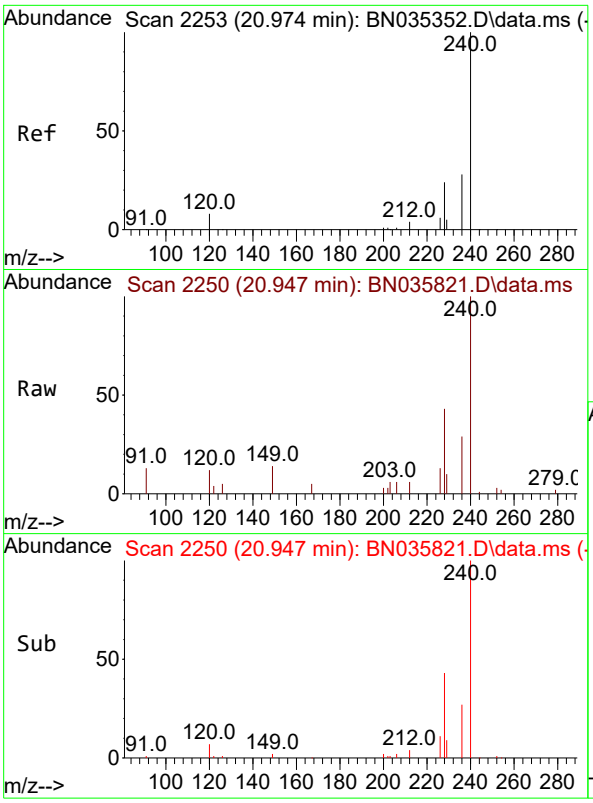




#28
Fluoranthene
Concen: 0.445 ng
RT: 18.780 min Scan# 1881
Delta R.T. -0.009 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:202 Resp: 14906

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 9.0 | 7.4 | 11.0 |
| 203 | 17.4 | 13.7 | 20.5 |



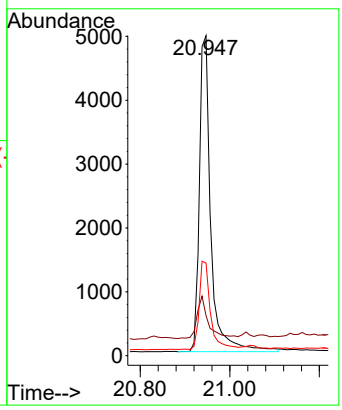


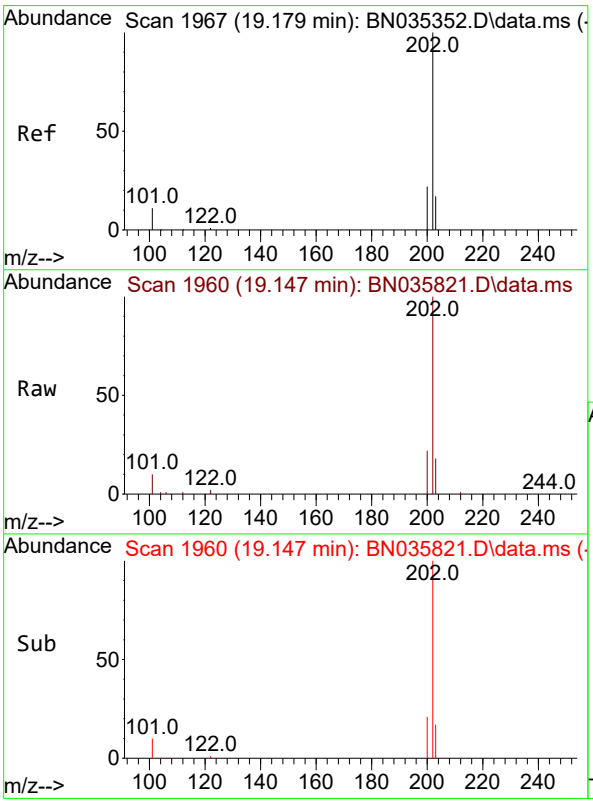

#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01S-20241218MS

Tgt Ion:240 Resp: 8798

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 12.5 | 7.9 | 11.9# |
| 236 | 29.0 | 22.9 | 34.3 |

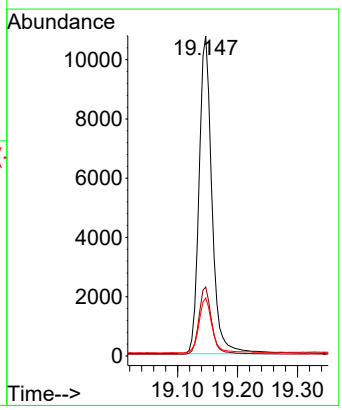


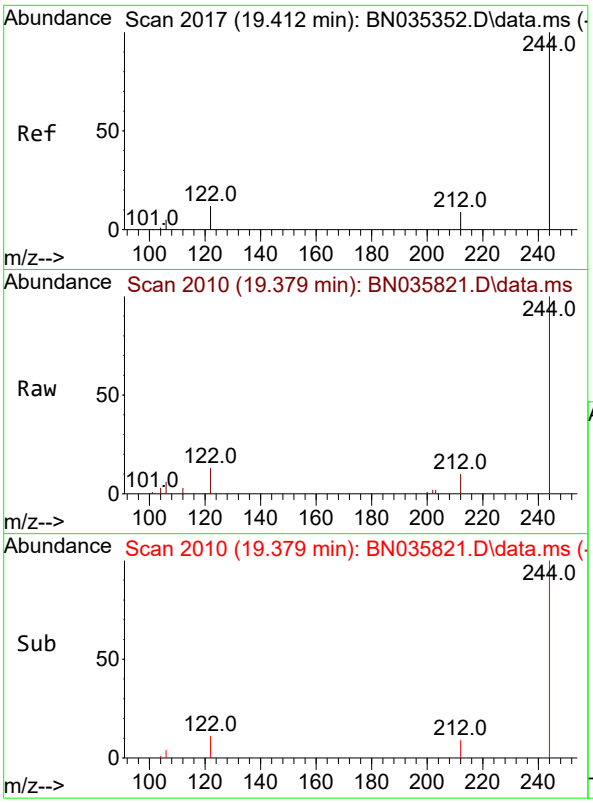




#30
Pyrene
Concen: 0.492 ng
RT: 19.147 min Scan# 1960
Delta R.T. -0.014 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:202 Resp: 15976

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 20.8 | 17.0 | 25.4 |
| 203 | 17.5 | 14.3 | 21.5 |



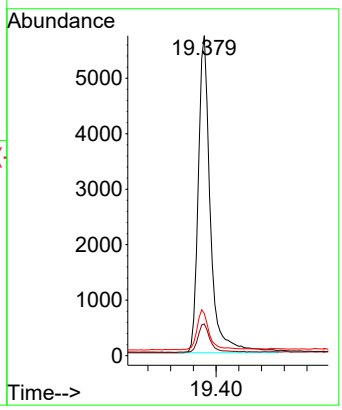


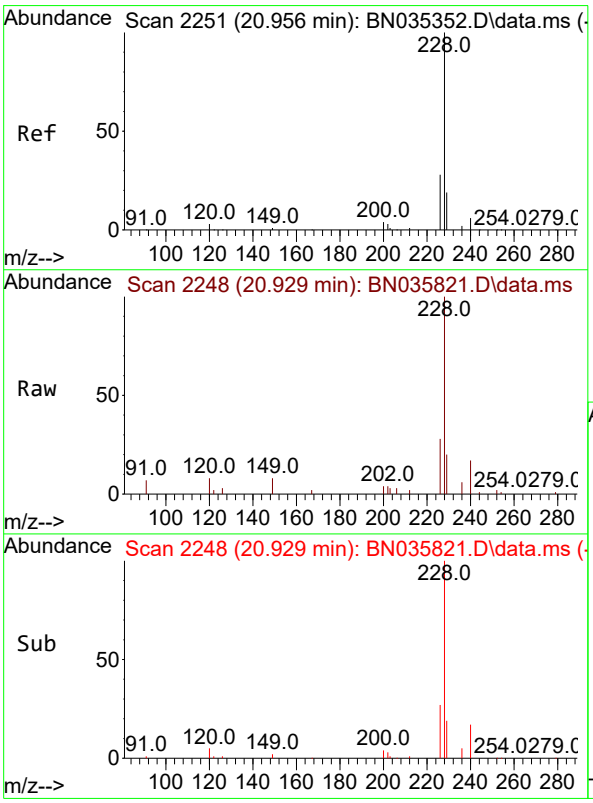

#31
Terphenyl-d14
Concen: 0.487 ng
RT: 19.379 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01S-20241218MS

Tgt Ion:244 Resp: 8459

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 9.9 | 8.1 | 12.1 |
| 122 | 13.2 | 10.3 | 15.5 |

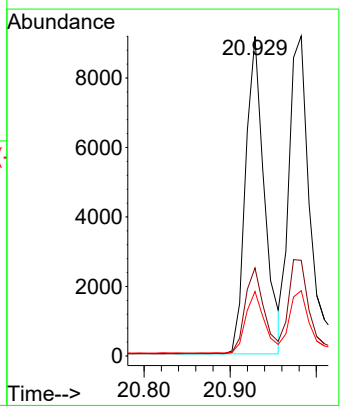


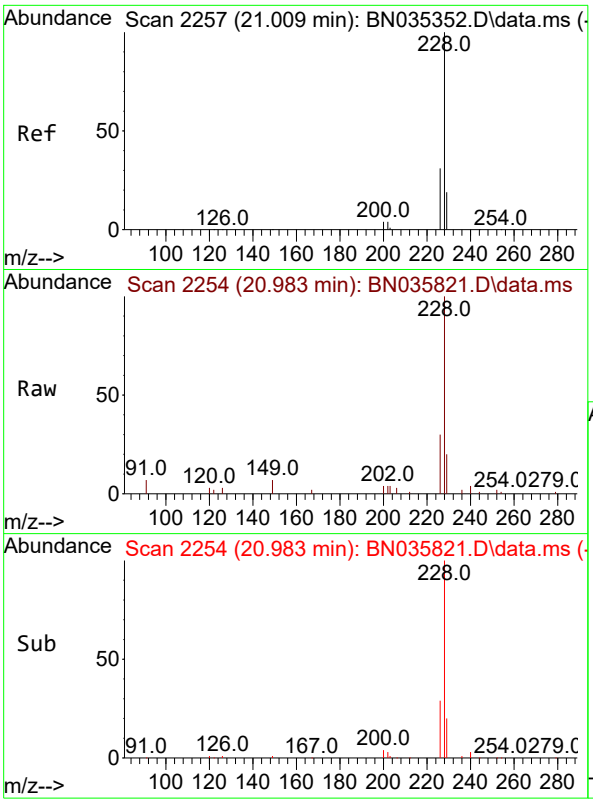




#32
Benzo(a)anthracene
Concen: 0.451 ng
RT: 20.929 min Scan# 2248
Delta R.T. -0.009 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:228 Resp: 13869

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 27.6 | 22.5 | 33.7 |
| 229 | 20.2 | 15.8 | 23.8 |



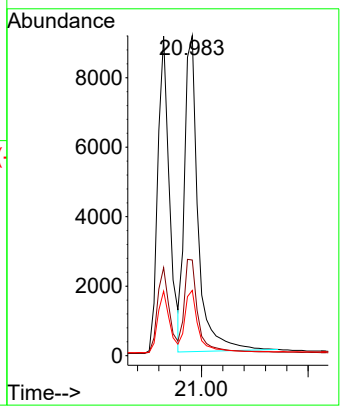


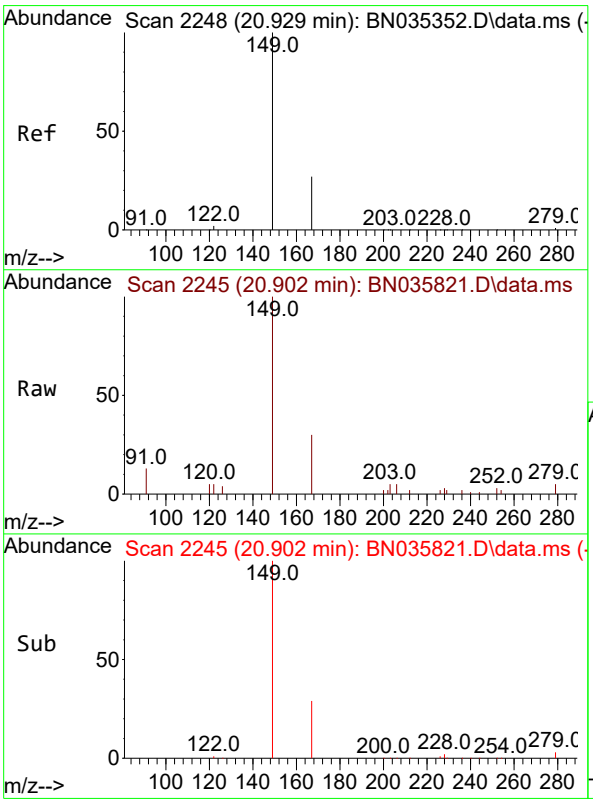

#33
Chrysene
Concen: 0.506 ng
RT: 20.983 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01S-20241218MS

Tgt Ion:228 Resp: 16049

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 29.9 | 24.6 | 37.0 |
| 229 | 20.4 | 15.9 | 23.9 |

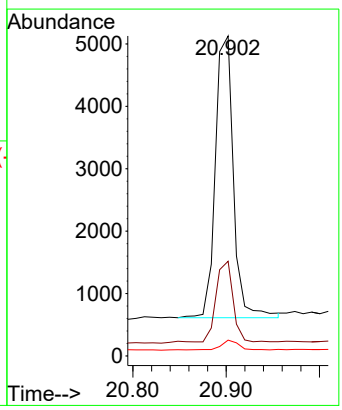


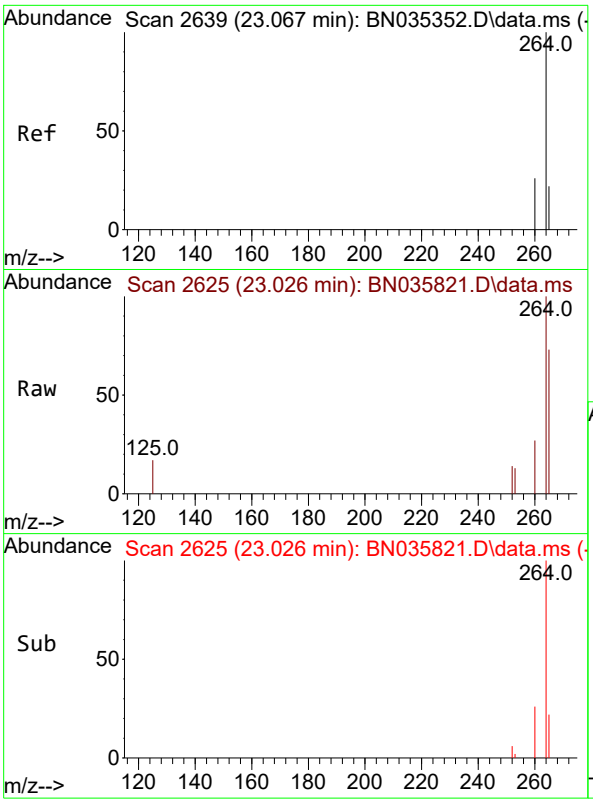




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.499 ng
RT: 20.902 min Scan# 2245
Delta R.T. -0.009 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:149 Resp: 6067

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 26.7 | 22.2 | 33.4 |
| 279 | 3.2 | 2.7 | 4.1 |



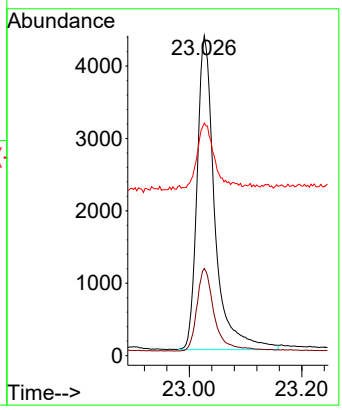


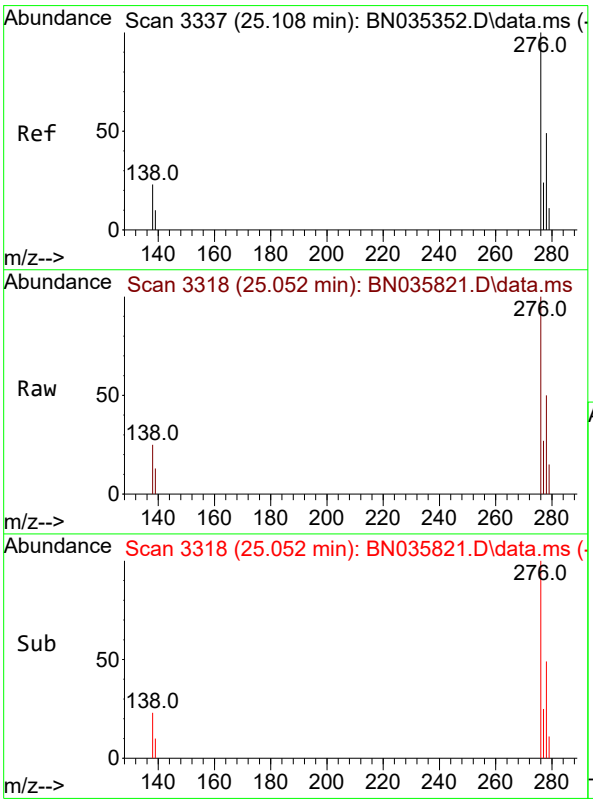

#35
Perylene-d12
Concen: 0.400 ng
RT: 23.026 min Scan# 2
Delta R.T. -0.015 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01S-20241218MS

Tgt Ion:264 Resp: 9479

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 27.3 | 21.4 | 32.2 |
| 265 | 72.7 | 40.2 | 60.4# |

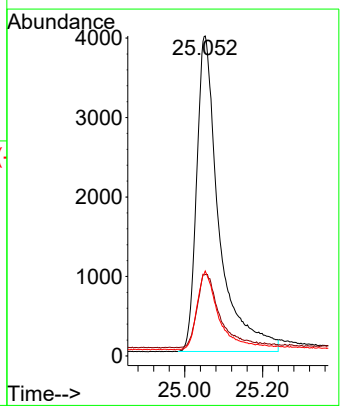


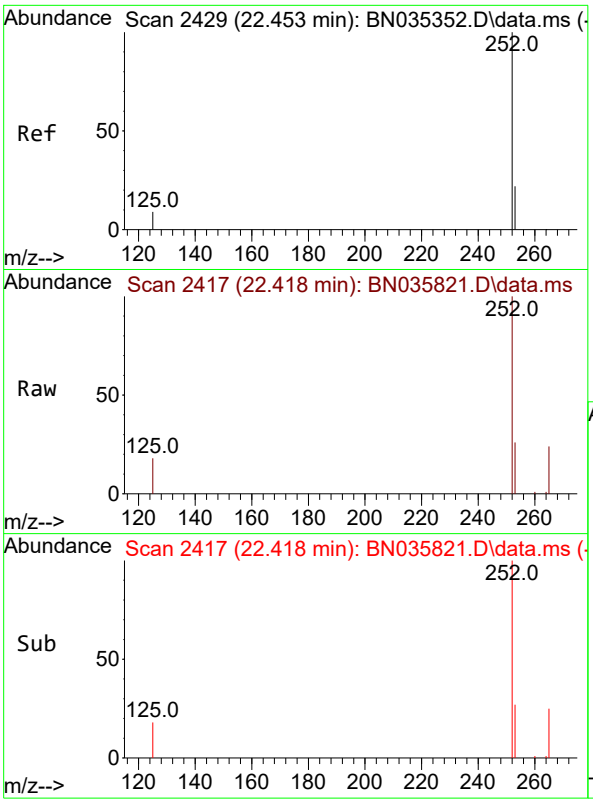




#36
Indeno(1,2,3-cd)pyrene
Concen: 0.428 ng
RT: 25.052 min Scan# 3318
Delta R.T. -0.015 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:276 Resp: 15853

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 22.9 | 19.4 | 29.0 |
| 277 | 24.1 | 19.8 | 29.6 |



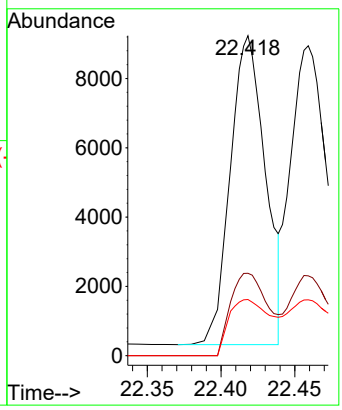


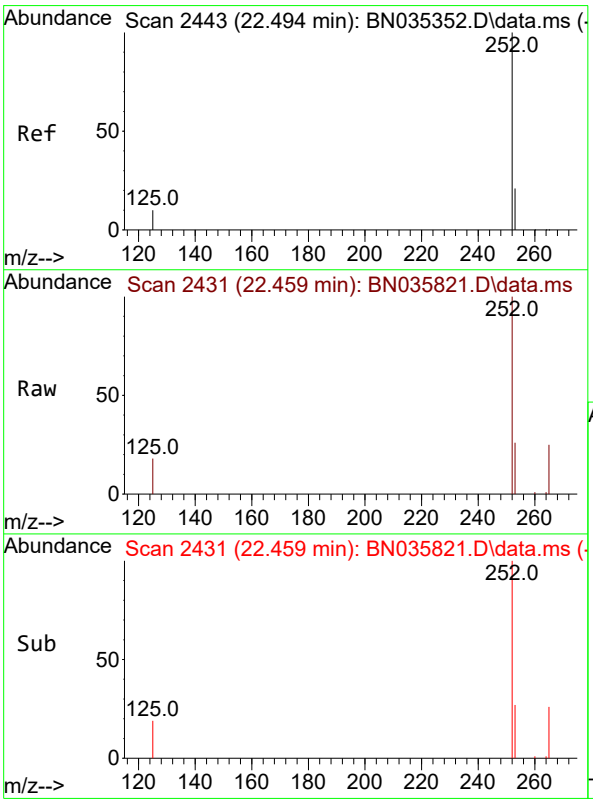

#37
Benzo(b)fluoranthene
Concen: 0.595 ng
RT: 22.418 min Scan# 24
Delta R.T. -0.012 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01S-20241218MS

Tgt Ion:252 Resp: 20643

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 25.8 | 19.6 | 29.4 |
| 125 | 17.6 | 9.6 | 14.4# |

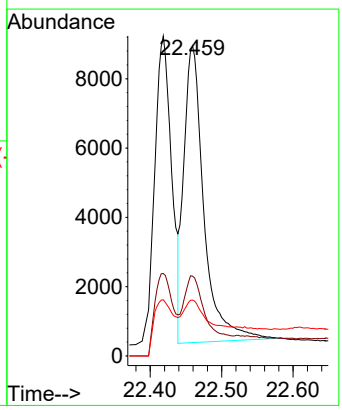


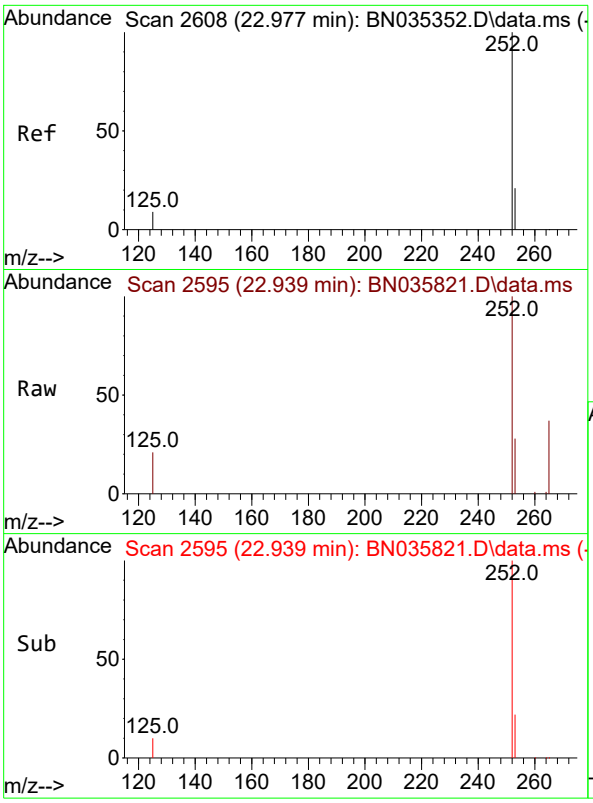




#38
Benzo(k)fluoranthene
Concen: 0.491 ng
RT: 22.459 min Scan# 2431
Delta R.T. -0.012 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:252 Resp: 16743

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 25.8 | 19.5 | 29.3 |
| 125 | 18.0 | 10.2 | 15.4# |



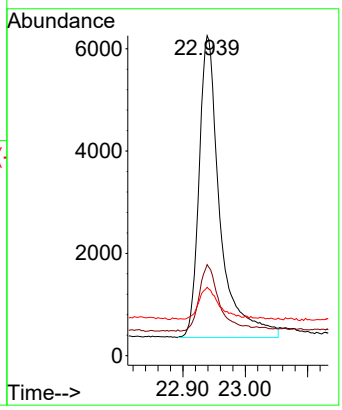


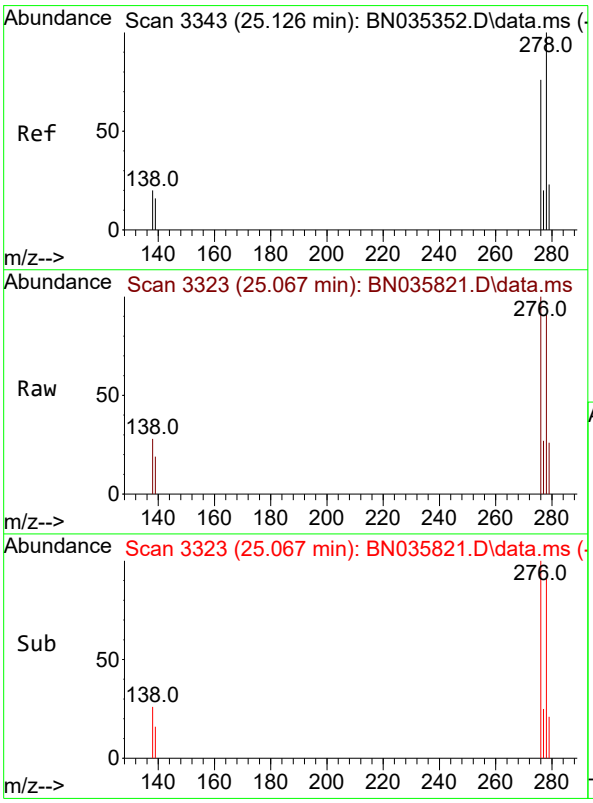

#39
Benzo(a)pyrene
Concen: 0.481 ng
RT: 22.939 min Scan# 2
Delta R.T. -0.012 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01S-20241218MS

Tgt Ion:252 Resp: 13748

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 28.5 | 20.2 | 30.4 |
| 125 | 21.3 | 10.9 | 16.3# |

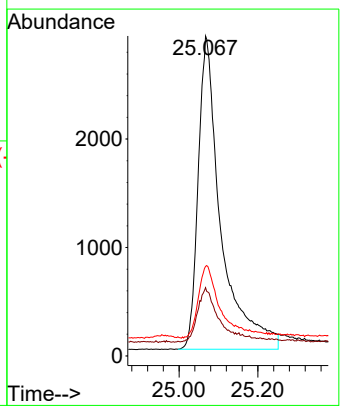


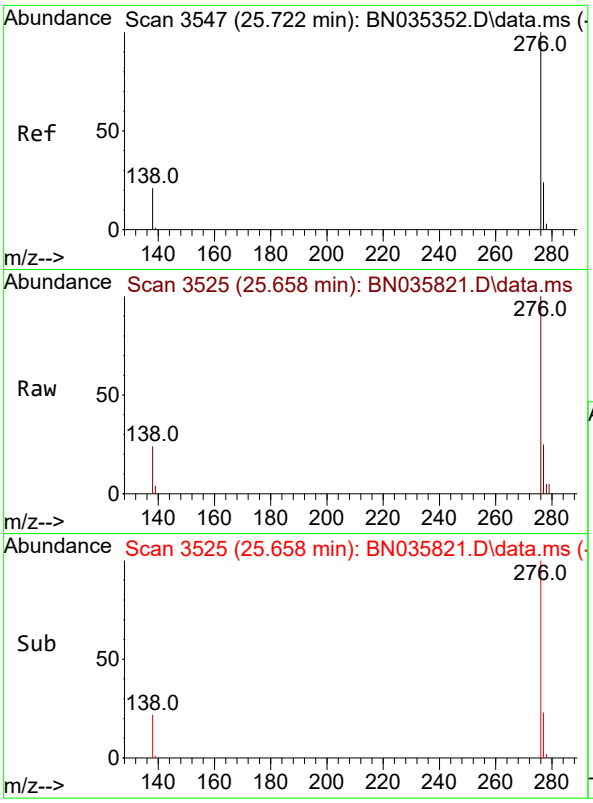




#40
Dibenzo(a,h)anthracene
Concen: 0.396 ng
RT: 25.067 min Scan# 3323
Delta R.T. -0.015 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:278 Resp: 11568

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 21.3 | 14.2 | 21.4 |
| 279 | 28.0 | 20.5 | 30.7 |



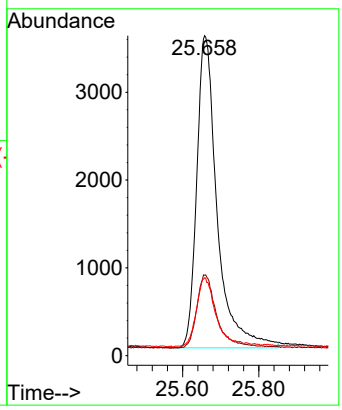



#41
Benzo(g,h,i)perylene
Concen: 0.433 ng
RT: 25.658 min Scan# 3
Delta R.T. -0.021 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01S-20241218MS

Tgt Ion:276 Resp: 13235

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 25.1 | 19.9 | 29.9 |
| 138 | 24.3 | 17.8 | 26.8 |



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035822.D
Acq On : 24 Dec 2024 15:31
Operator : RC/JU
Sample : P5376-09MSD
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01S-20241218MSD

Quant Time: Dec 24 23:19:11 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

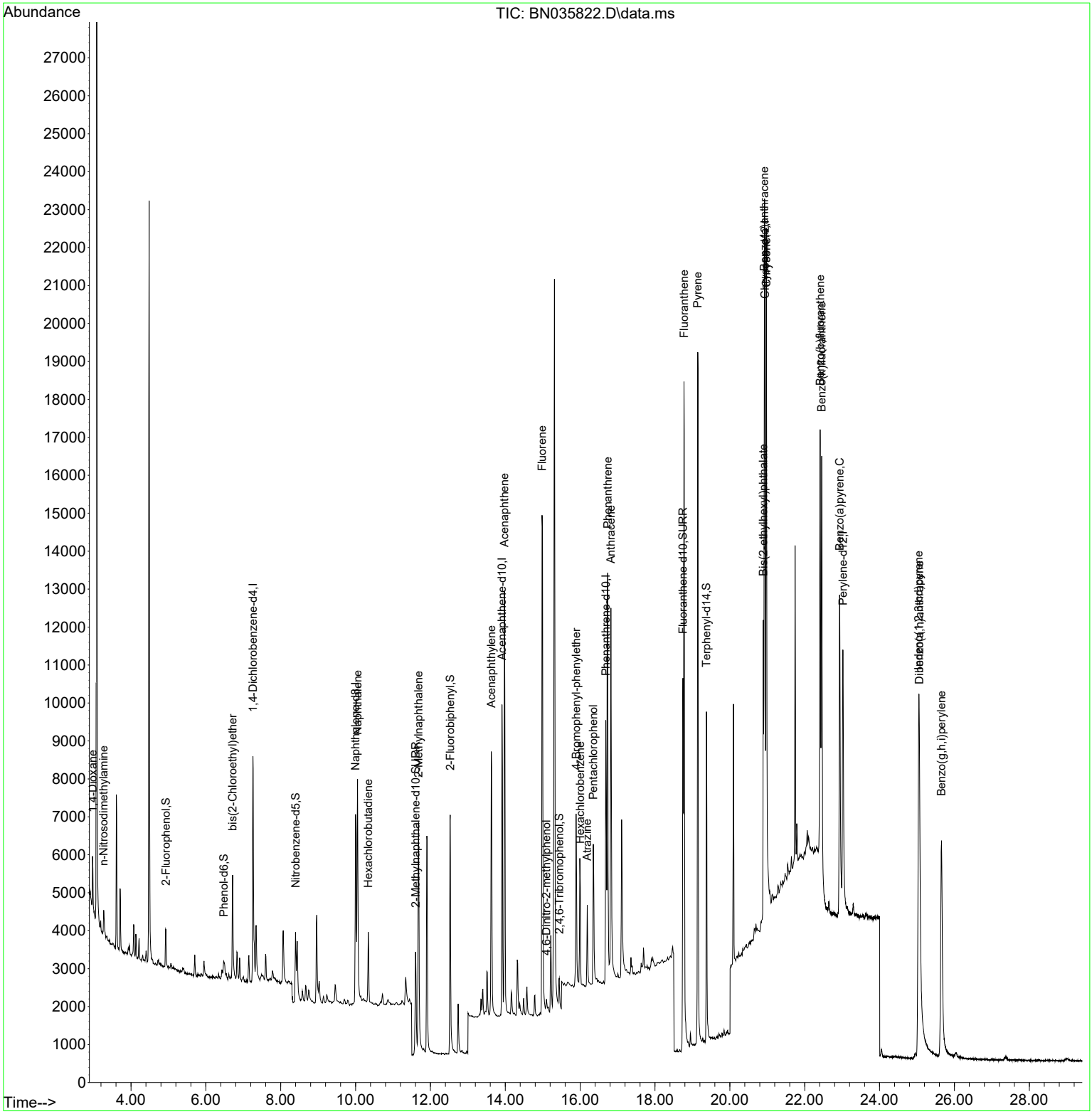
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.257 | 152 | 3187 | 0.400 | ng | -0.01 |
| 7) Naphthalene-d8 | 9.998 | 136 | 7953 | 0.400 | ng | -0.02 |
| 13) Acenaphthene-d10 | 13.914 | 164 | 4887 | 0.400 | ng | -0.02 |
| 19) Phenanthrene-d10 | 16.686 | 188 | 10068 | 0.400 | ng | #-0.01 |
| 29) Chrysene-d12 | 20.938 | 240 | 9501 | 0.400 | ng | #-0.02 |
| 35) Perylene-d12 | 23.020 | 264 | 9990 | 0.400 | ng | #-0.02 |
| System Monitoring Compounds | | | | | | |
| 4) 2-Fluorophenol | 4.932 | 112 | 967 | 0.121 | ng | 0.00 |
| 5) Phenol-d6 | 6.477 | 99 | 640 | 0.067 | ng | -0.01 |
| 8) Nitrobenzene-d5 | 8.397 | 82 | 2382 | 0.490 | ng | -0.01 |
| 11) 2-Methylnaphthalene-d10 | 11.605 | 152 | 5387 | 0.433 | ng | -0.02 |
| 14) 2,4,6-Tribromophenol | 15.442 | 330 | 787 | 0.227 | ng | -0.01 |
| 15) 2-Fluorobiphenyl | 12.528 | 172 | 6851 | 0.371 | ng | -0.02 |
| 27) Fluoranthene-d10 | 18.747 | 212 | 12293 | 0.431 | ng | -0.01 |
| 31) Terphenyl-d14 | 19.374 | 244 | 9610 | 0.513 | ng | -0.01 |
| Target Compounds | | | | | | Qvalue |
| 2) 1,4-Dioxane | 2.974 | 88 | 932 | 0.306 | ng | # 75 |
| 3) n-Nitrosodimethylamine | 3.270 | 42 | 376 | 0.148 | ng | # 81 |
| 6) bis(2-Chloroethyl)ether | 6.715 | 93 | 2448 | 0.304 | ng | 95 |
| 9) Naphthalene | 10.052 | 128 | 8332 | 0.397 | ng | 99 |
| 10) Hexachlorobutadiene | 10.340 | 225 | 1549 | 0.320 | ng | # 99 |
| 12) 2-Methylnaphthalene | 11.681 | 142 | 5571 | 0.371 | ng | 99 |
| 16) Acenaphthylene | 13.625 | 152 | 8940 | 0.436 | ng | 100 |
| 17) Acenaphthene | 13.978 | 154 | 5758 | 0.423 | ng | 99 |
| 18) Fluorene | 14.983 | 166 | 7782 | 0.399 | ng | 98 |
| 20) 4,6-Dinitro-2-methylph... | 15.100 | 198 | 341 | 0.344 | ng | # 31 |
| 21) 4-Bromophenyl-phenylether | 15.891 | 248 | 2147 | 0.365 | ng | # 78 |
| 22) Hexachlorobenzene | 16.003 | 284 | 2983 | 0.431 | ng | 95 |
| 23) Atrazine | 16.189 | 200 | 1738 | 0.415 | ng | 96 |
| 24) Pentachlorophenol | 16.351 | 266 | 2251 | 0.748 | ng | 87 |
| 25) Phenanthrene | 16.735 | 178 | 13447 | 0.486 | ng | 99 |
| 26) Anthracene | 16.822 | 178 | 11668 | 0.466 | ng | 98 |
| 28) Fluoranthene | 18.775 | 202 | 16762 | 0.450 | ng | 99 |
| 30) Pyrene | 19.142 | 202 | 17829 | 0.508 | ng | 99 |
| 32) Benzo(a)anthracene | 20.920 | 228 | 15744 | 0.474 | ng | 100 |
| 33) Chrysene | 20.974 | 228 | 16946 | 0.494 | ng | 100 |
| 34) Bis(2-ethylhexyl)phtha... | 20.893 | 149 | 6876 | 0.524 | ng | 99 |
| 36) Indeno(1,2,3-cd)pyrene | 25.044 | 276 | 16588 | 0.425 | ng | 98 |
| 37) Benzo(b)fluoranthene | 22.412 | 252 | 22222 | 0.608 | ng | # 93 |
| 38) Benzo(k)fluoranthene | 22.453 | 252 | 18080 | 0.503 | ng | # 93 |
| 39) Benzo(a)pyrene | 22.933 | 252 | 14639 | 0.486 | ng | # 90 |
| 40) Dibenzo(a,h)anthracene | 25.064 | 278 | 12290 | 0.399 | ng | 94 |
| 41) Benzo(g,h,i)perylene | 25.655 | 276 | 13609 | 0.423 | ng | 98 |

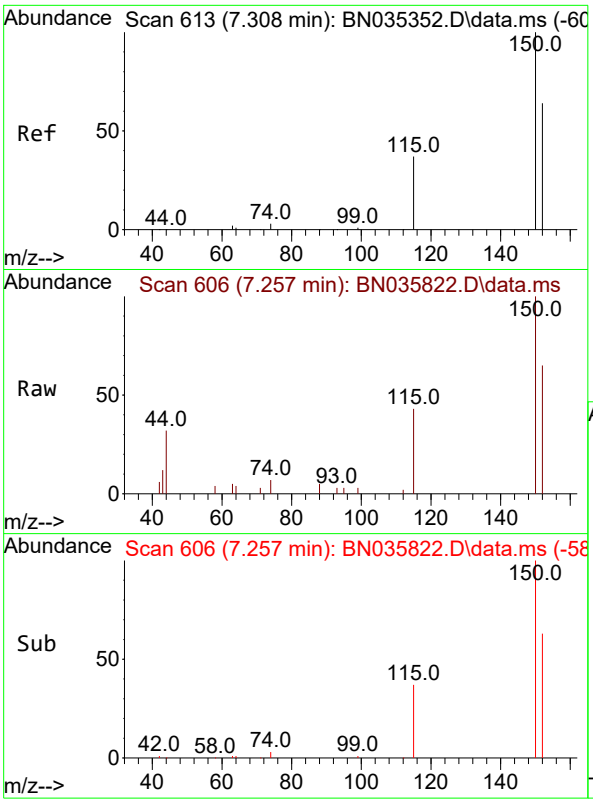
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035822.D
Acq On : 24 Dec 2024 15:31
Operator : RC/JU
Sample : P5376-09MSD
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01S-20241218MSD

Quant Time: Dec 24 23:19:11 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



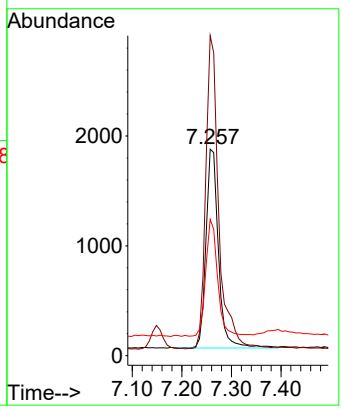


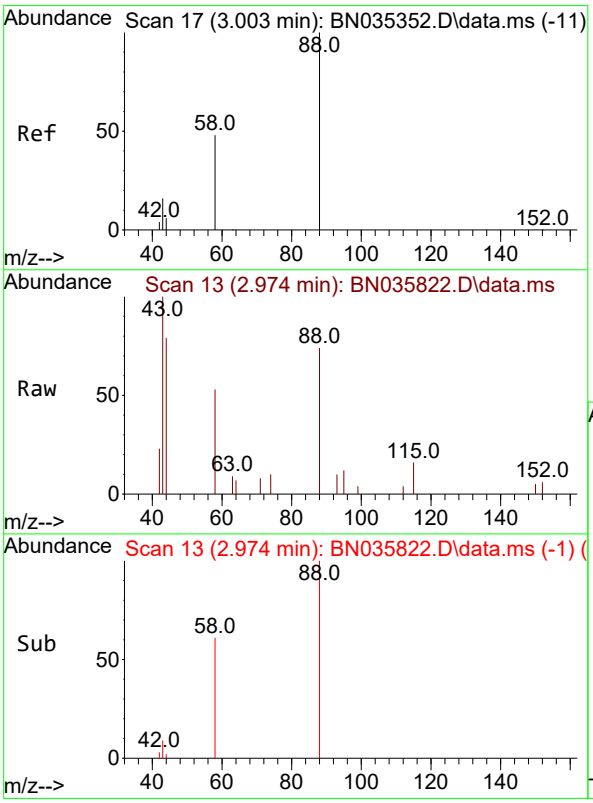

#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 6
Delta R.T. -0.015 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01S-20241218MSD

Tgt Ion:152 Resp: 3187

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 154.9 | 124.0 | 186.0 |
| 115 | 66.0 | 49.6 | 74.4 |

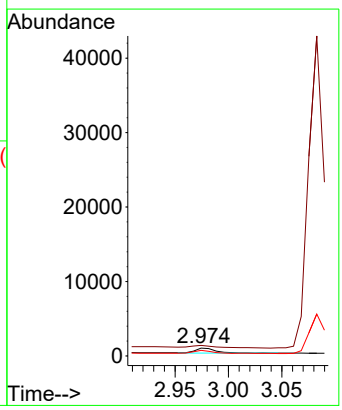


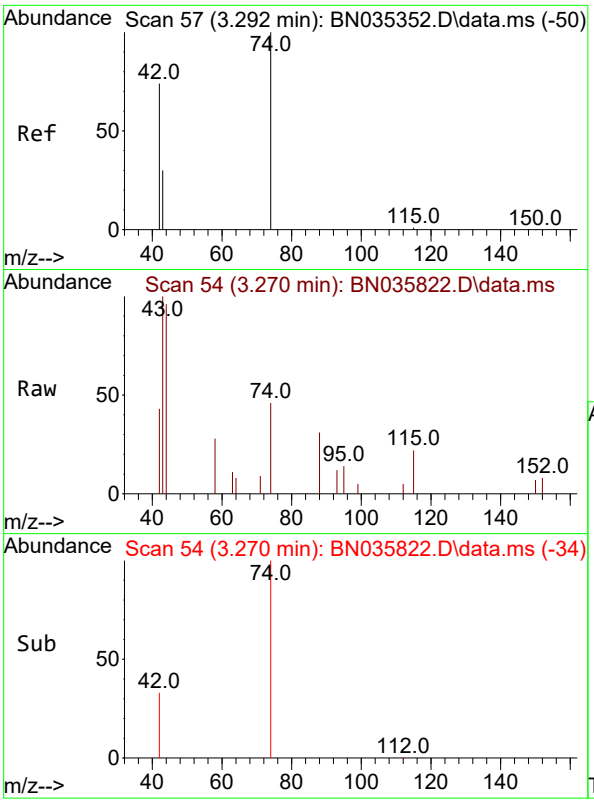




#2
1,4-Dioxane
Concen: 0.306 ng
RT: 2.974 min Scan# 13
Delta R.T. -0.007 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion: 88 Resp: 932

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 0.0 | 17.2 | 25.8# |
| 58 | 67.9 | 44.5 | 66.7# |



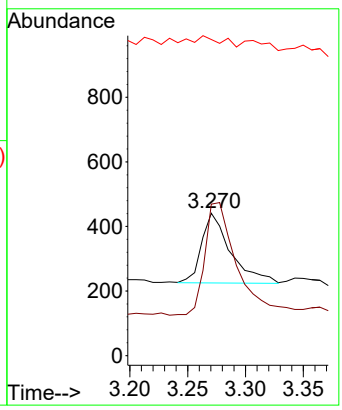


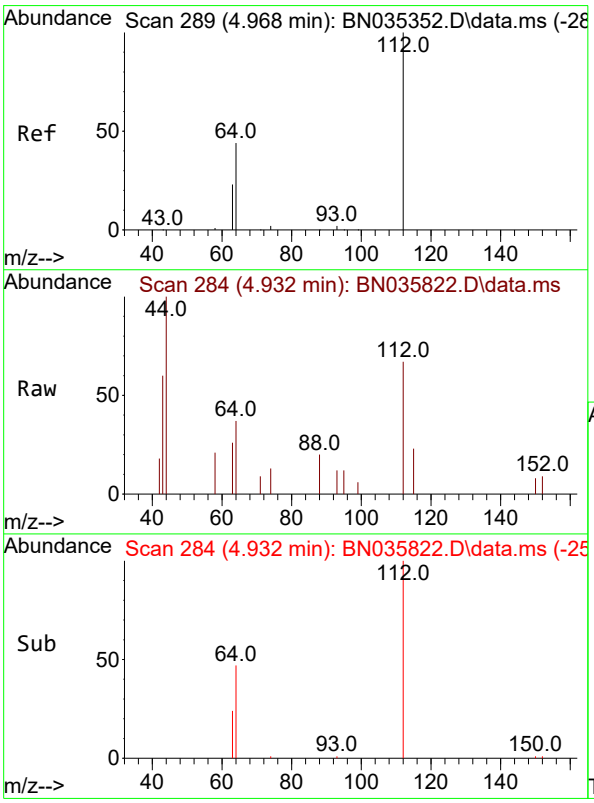

#3
n-Nitrosodimethylamine
Concen: 0.148 ng
RT: 3.270 min Scan# 54
Delta R.T. -0.007 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01S-20241218MSD

Tgt Ion: 42 Resp: 376

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 180.6 | 124.9 | 187.3 |
| 44 | 0.0 | 2.2 | 3.4# |

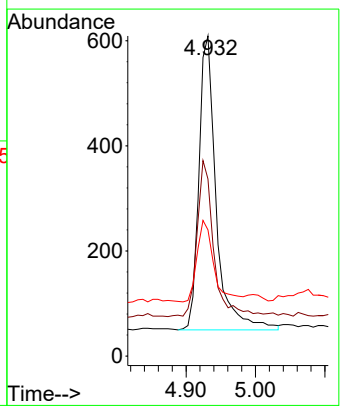


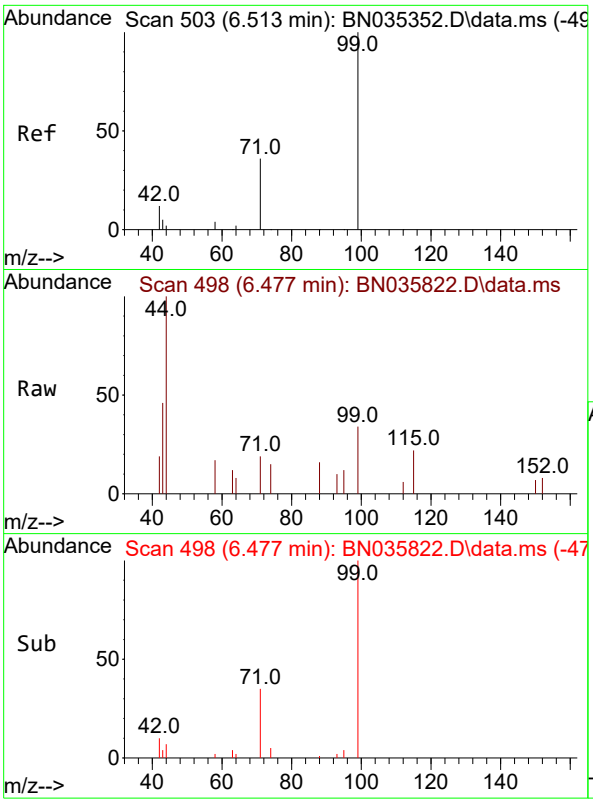




#4
2-Fluorophenol
Concen: 0.121 ng
RT: 4.932 min Scan# 284
Delta R.T. -0.007 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:112 Resp: 967

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 52.6 | 39.8 | 59.8 |
| 63 | 27.0 | 21.0 | 31.6 |



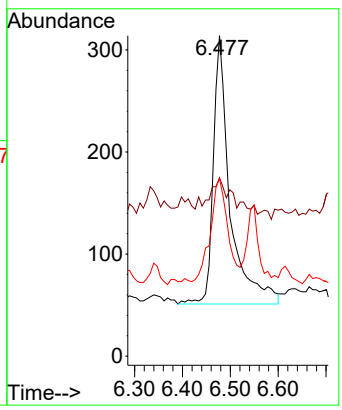


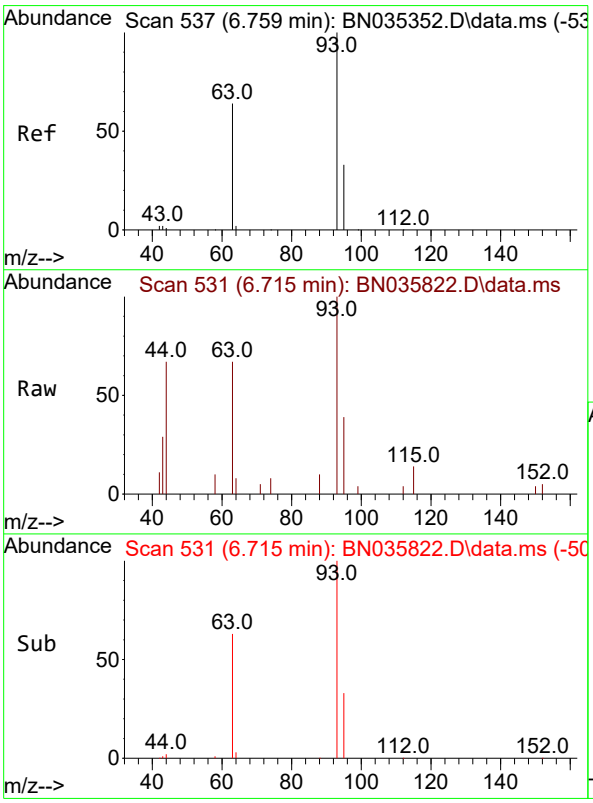

#5
Phenol-d6
Concen: 0.067 ng
RT: 6.477 min Scan# 4
Delta R.T. -0.015 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01S-20241218MSD

Tgt Ion: 99 Resp: 640

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 16.3 | 11.4 | 17.2 |
| 71 | 42.2 | 29.3 | 43.9 |

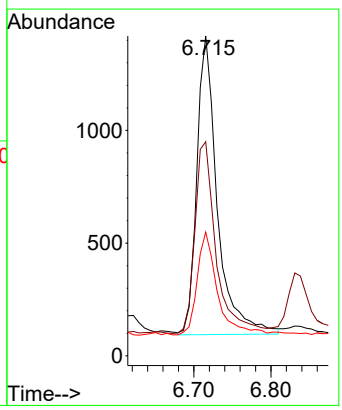


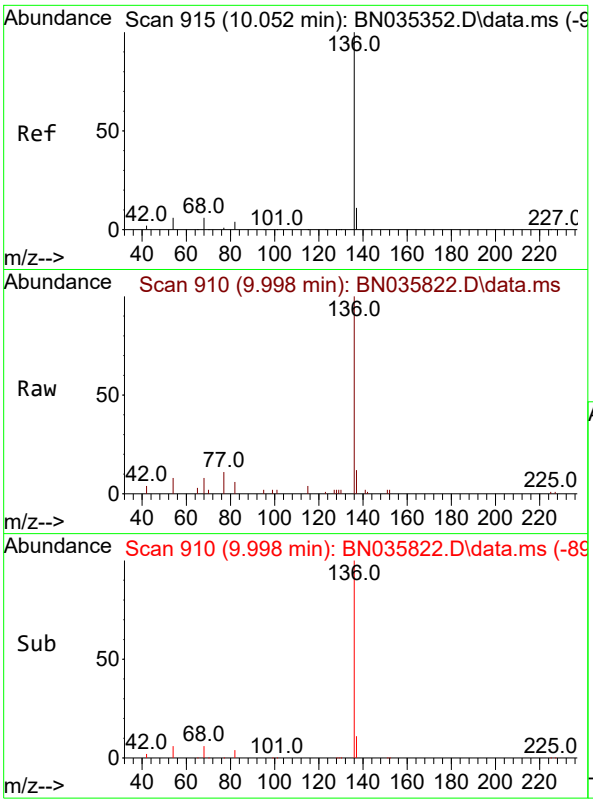




#6
bis(2-Chloroethyl)ether
Concen: 0.304 ng
RT: 6.715 min Scan# 531
Delta R.T. -0.015 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion: 93 Resp: 2448

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 66.0 | 50.4 | 75.6 |
| 95 | 35.5 | 25.7 | 38.5 |



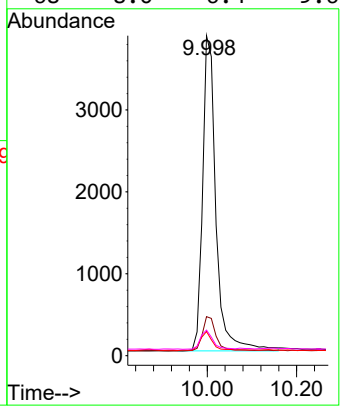


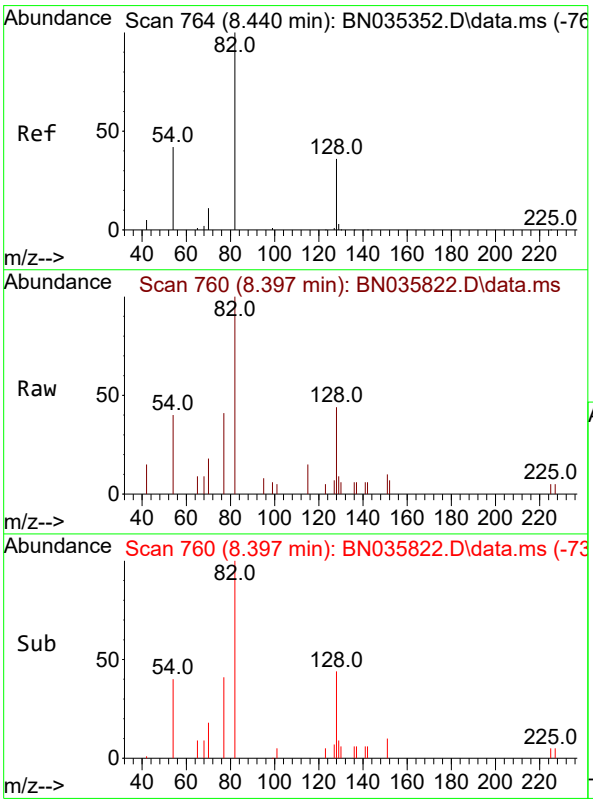

#7
Naphthalene-d8
Concen: 0.400 ng
RT: 9.998 min Scan# 91
Delta R.T. -0.022 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01S-20241218MSD

Tgt Ion:136 Resp: 7953

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 12.2 | 10.2 | 15.2 |
| 54 | 7.6 | 6.1 | 9.1 |
| 68 | 8.0 | 6.4 | 9.6 |

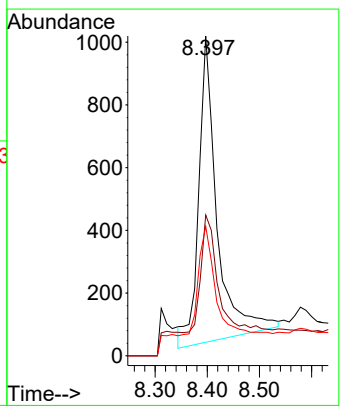


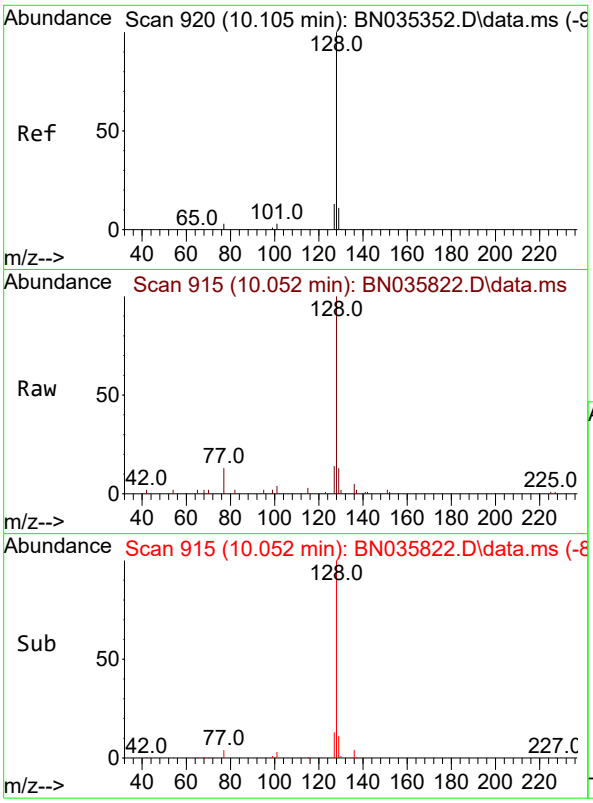




#8
Nitrobenzene-d5
Concen: 0.490 ng
RT: 8.397 min Scan# 760
Delta R.T. -0.011 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion: 82 Resp: 2382

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 44.0 | 33.4 | 50.0 |
| 54 | 40.5 | 36.7 | 55.1 |



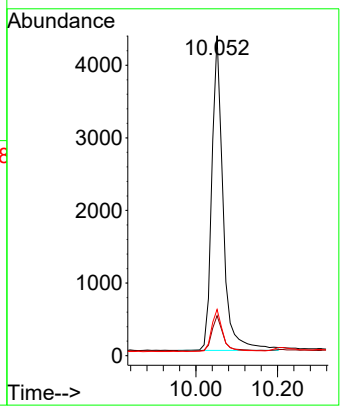


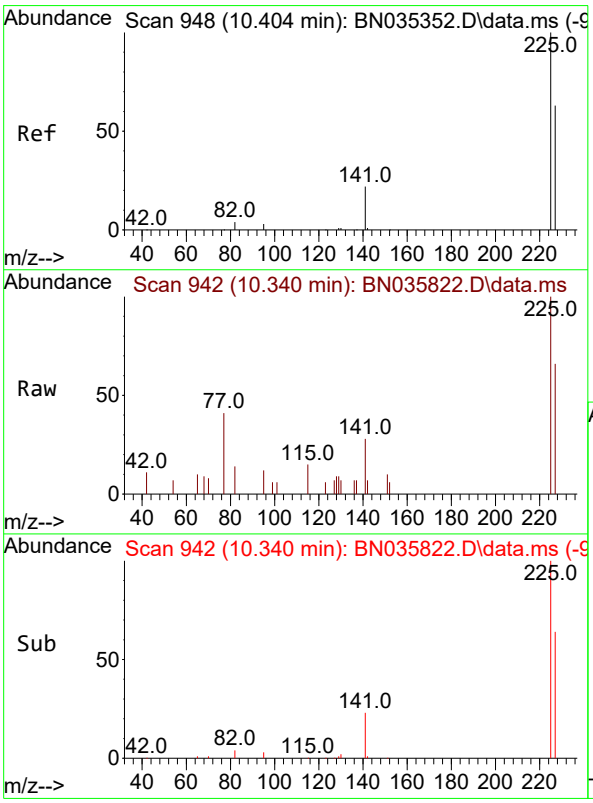

#9
Naphthalene
Concen: 0.397 ng
RT: 10.052 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01S-20241218MSD

Tgt Ion:128 Resp: 8332

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 12.5 | 9.8 | 14.6 |
| 127 | 14.4 | 11.4 | 17.2 |

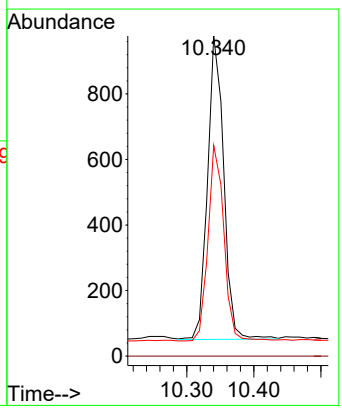


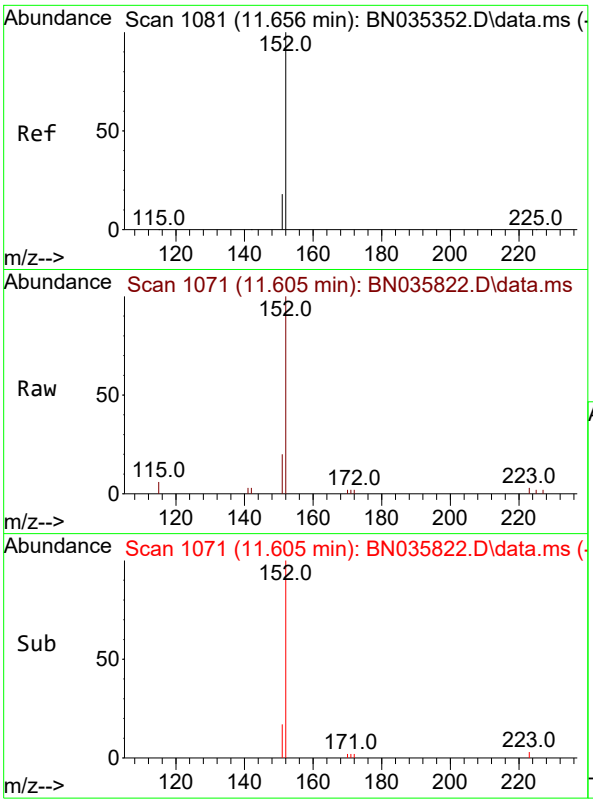




#10
Hexachlorobutadiene
Concen: 0.320 ng
RT: 10.340 min Scan# 942
Delta R.T. -0.022 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:225 Resp: 1549

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 0.0 | 0.0 | 0.0 |
| 227 | 63.5 | 51.3 | 76.9 |



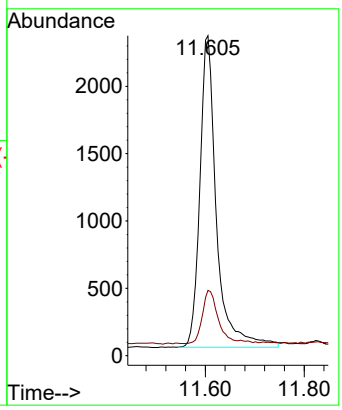


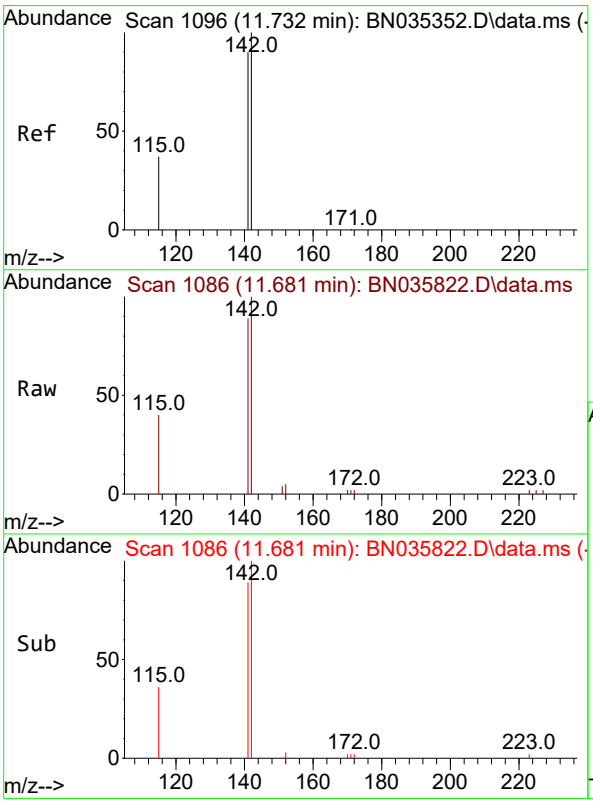

#11
2-Methylnaphthalene-d10
Concen: 0.433 ng
RT: 11.605 min Scan# 1
Delta R.T. -0.015 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01S-20241218MSD

Tgt Ion:152 Resp: 5387

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 16.6 | 16.6 | 25.0# |

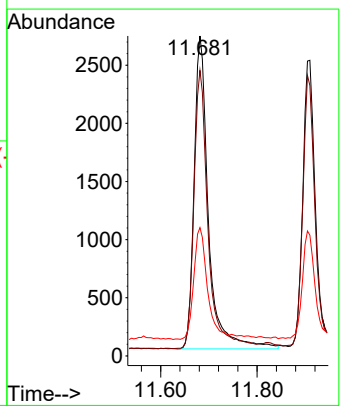


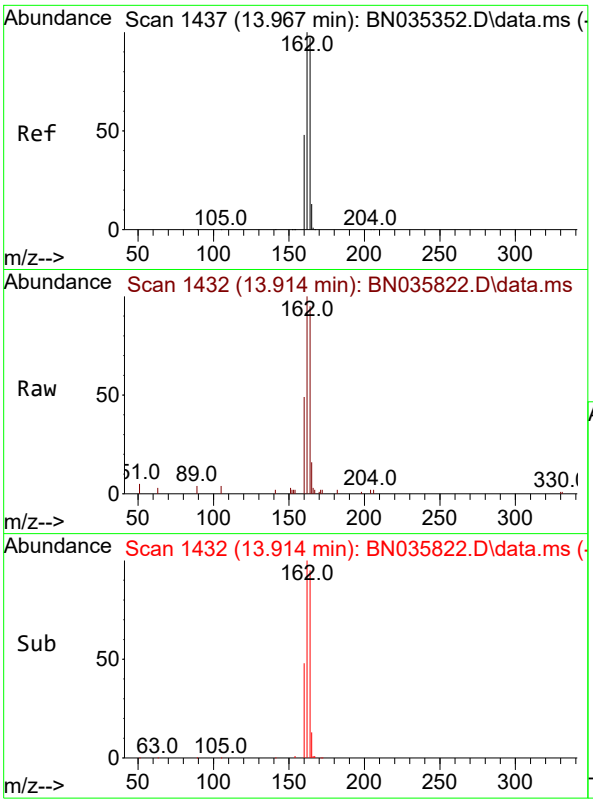




#12
2-Methylnaphthalene
Concen: 0.371 ng
RT: 11.681 min Scan# 1086
Delta R.T. -0.015 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:142 Resp: 5571

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 89.2 | 72.2 | 108.4 |
| 115 | 40.1 | 31.4 | 47.0 |



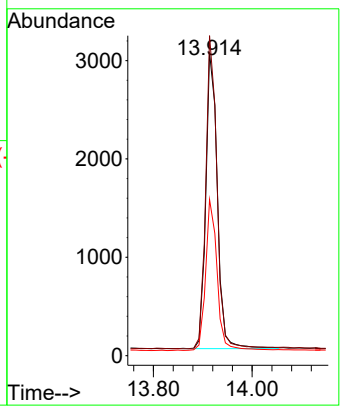


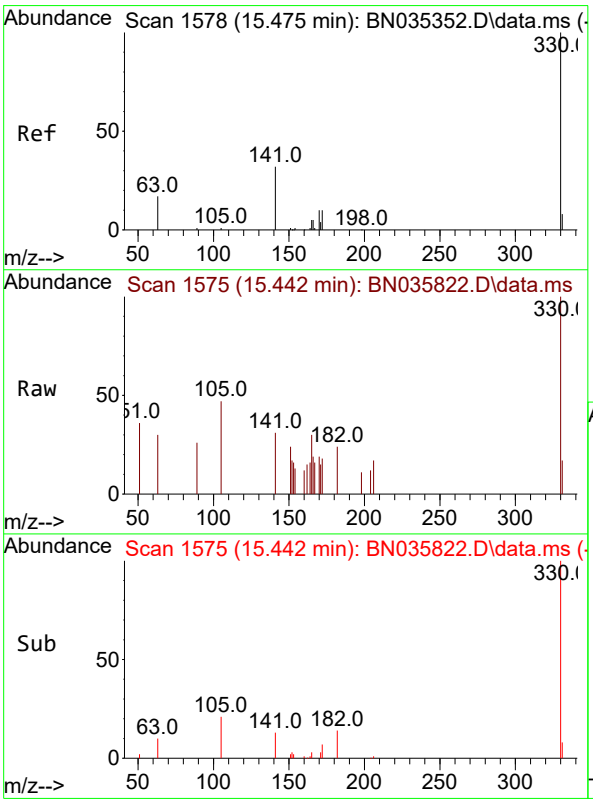

#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.914 min Scan# 14
Delta R.T. -0.022 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01S-20241218MSD

Tgt Ion:164 Resp: 4887

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 105.6 | 82.2 | 123.2 |
| 160 | 51.5 | 40.1 | 60.1 |

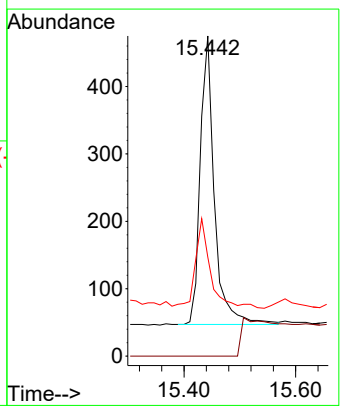


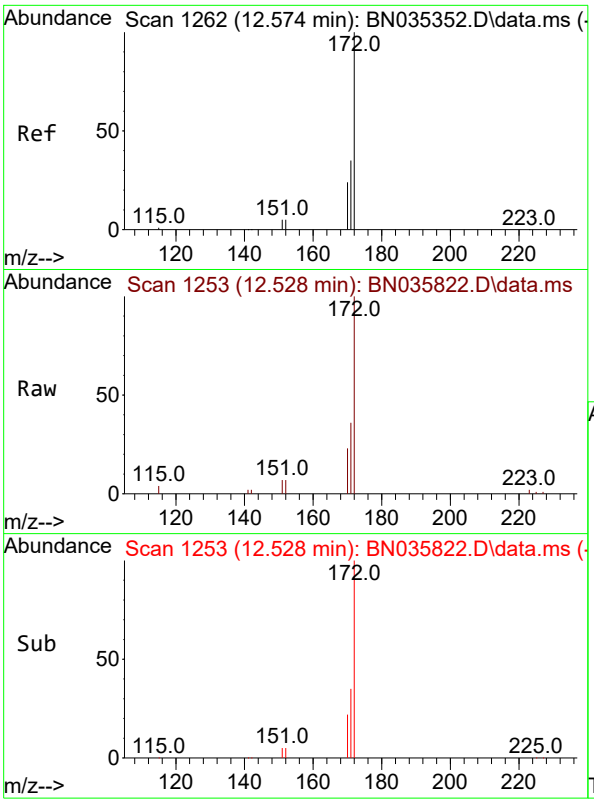




#14
2,4,6-Tribromophenol
Concen: 0.227 ng
RT: 15.442 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:330 Resp: 787

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 0.0 | 0.0 | 0.0 |
| 141 | 32.5 | 26.6 | 40.0 |



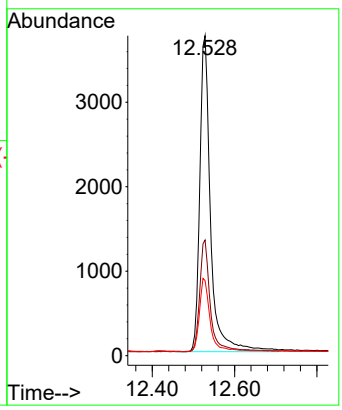


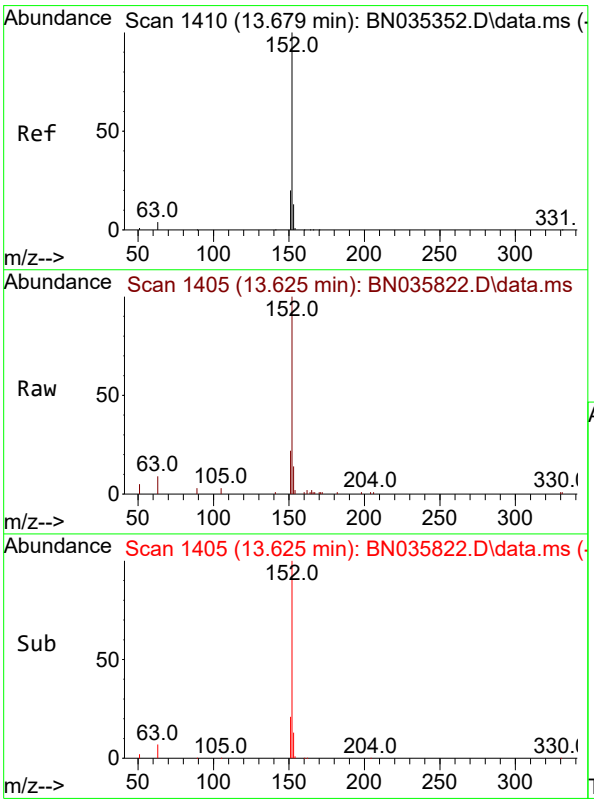

#15
2-Fluorobiphenyl
Concen: 0.371 ng
RT: 12.528 min Scan# 1
Delta R.T. -0.015 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01S-20241218MSD

Tgt Ion:172 Resp: 6851

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 36.1 | 29.0 | 43.4 |
| 170 | 23.5 | 19.8 | 29.8 |

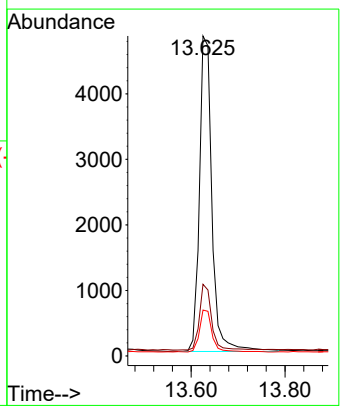


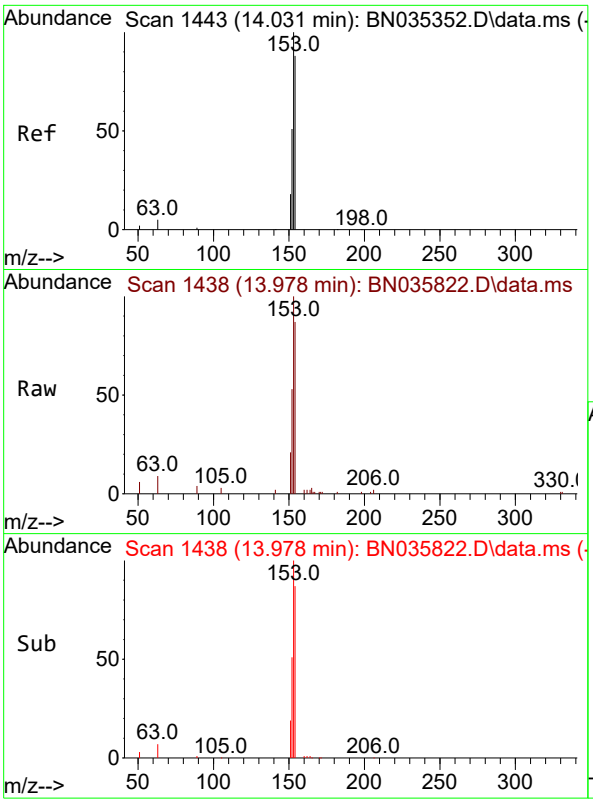




#16
Acenaphthylene
Concen: 0.436 ng
RT: 13.625 min Scan# 1405
Delta R.T. -0.022 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:152 Resp: 8940

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.2 | 16.2 | 24.2 |
| 153 | 13.4 | 10.4 | 15.6 |



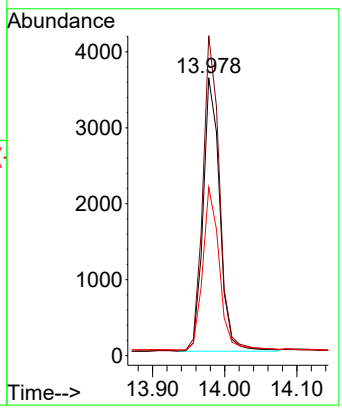


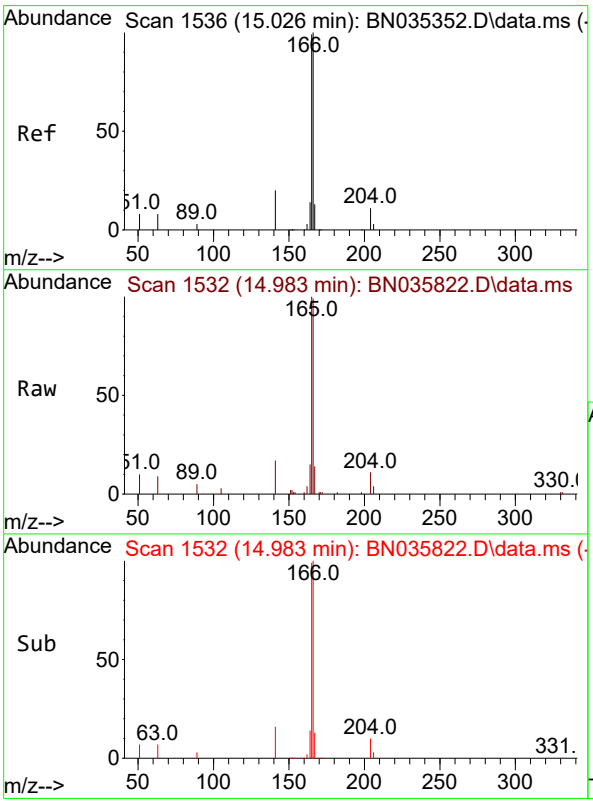

#17
Acenaphthene
Concen: 0.423 ng
RT: 13.978 min Scan# 14
Delta R.T. -0.022 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01S-20241218MSD

Tgt Ion:154 Resp: 5758

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 115.8 | 92.6 | 139.0 |
| 152 | 58.9 | 49.0 | 73.6 |

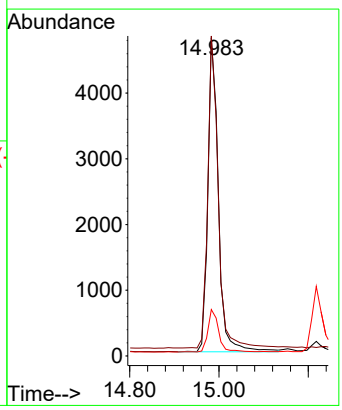


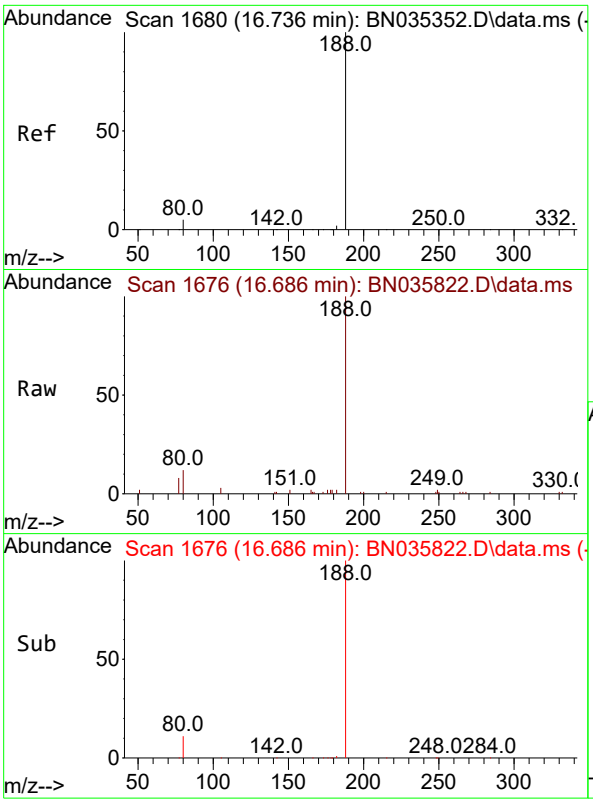




#18
Fluorene
Concen: 0.399 ng
RT: 14.983 min Scan# 1532
Delta R.T. -0.022 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:166 Resp: 7782

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 98.0 | 79.7 | 119.5 |
| 167 | 13.9 | 10.8 | 16.2 |



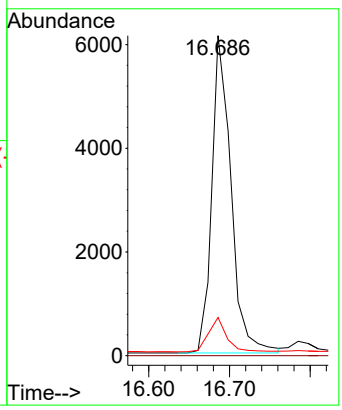


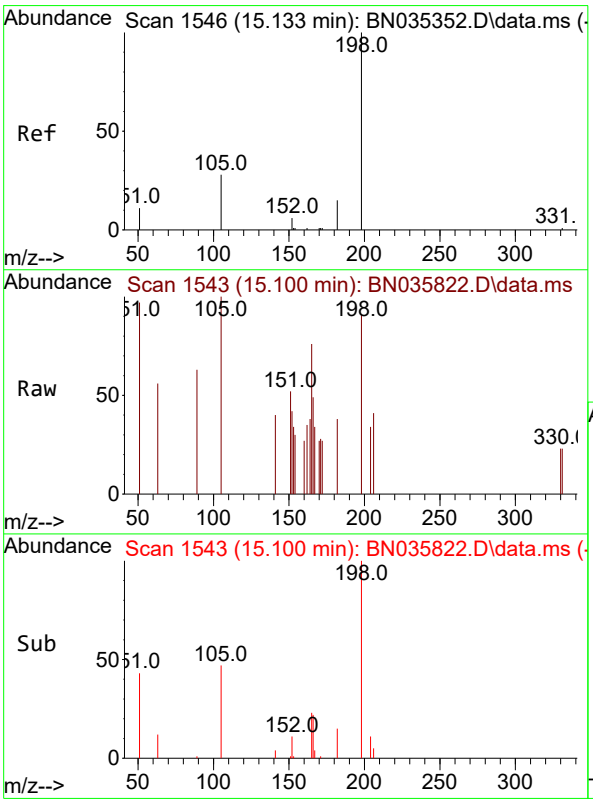

#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.686 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01S-20241218MSD

Tgt Ion:188 Resp: 10068

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 11.9 | 4.6 | 6.8# |

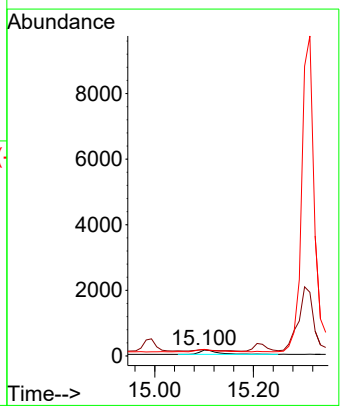


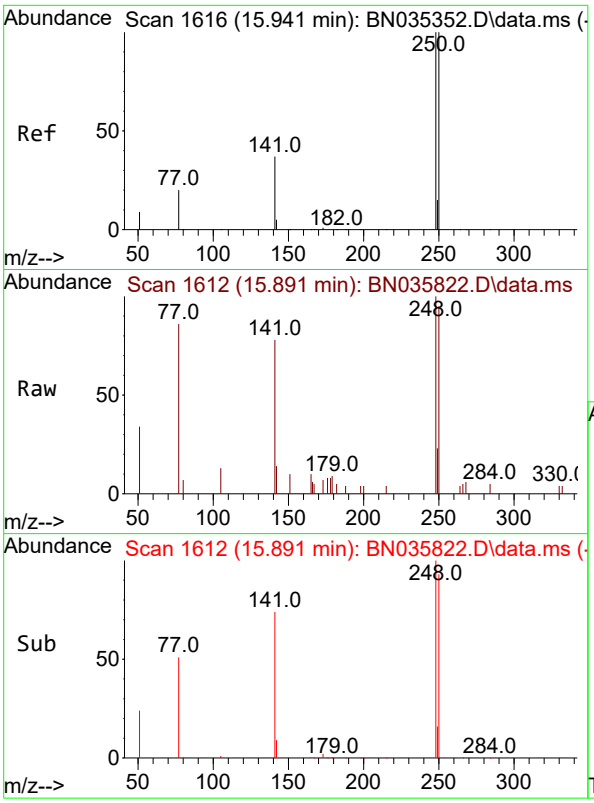




#20
4,6-Dinitro-2-methylphenol
Concen: 0.344 ng
RT: 15.100 min Scan# 1543
Delta R.T. -0.022 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:198 Resp: 341

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 198 | 100 | | |
| 51 | 106.6 | 46.5 | 69.7# |
| 105 | 109.9 | 45.3 | 67.9# |



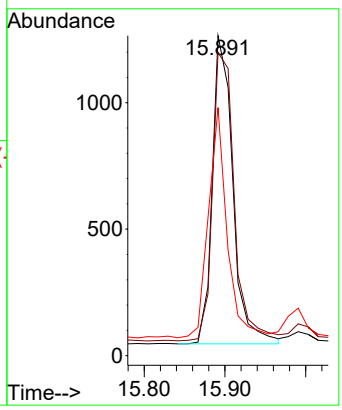


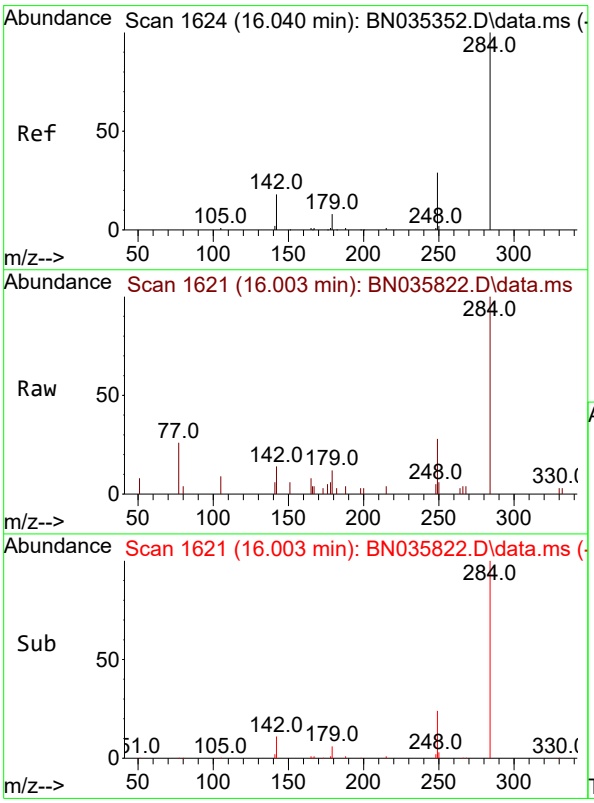

#21
4-Bromophenyl-phenylether
Concen: 0.365 ng
RT: 15.891 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01S-20241218MSD

Tgt Ion:248 Resp: 2147

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 94.8 | 80.6 | 120.8 |
| 141 | 77.5 | 31.5 | 47.3# |

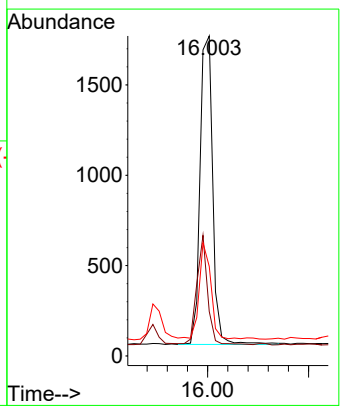


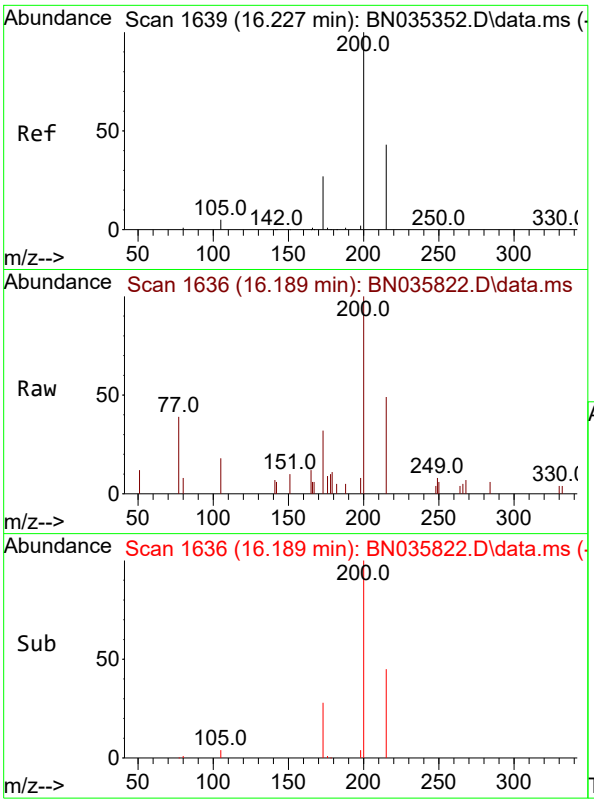




#22
Hexachlorobenzene
Concen: 0.431 ng
RT: 16.003 min Scan# 1621
Delta R.T. -0.013 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:284 Resp: 2983

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 30.0 | 26.7 | 40.1 |
| 249 | 28.6 | 24.6 | 36.8 |



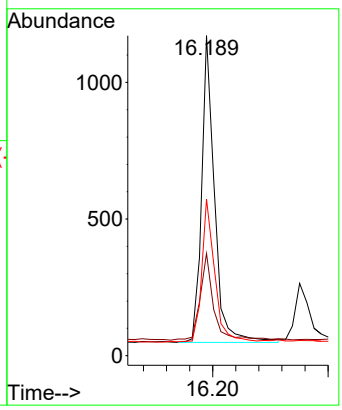


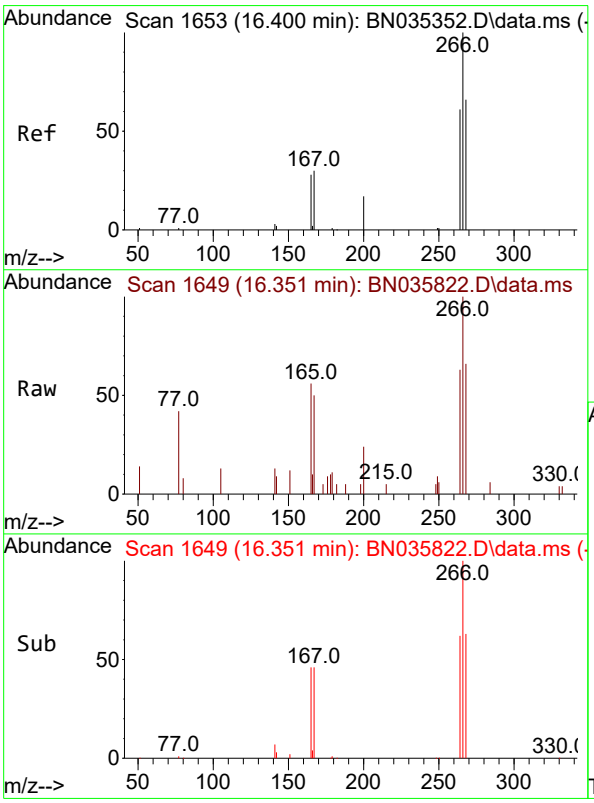

#23
Atrazine
Concen: 0.415 ng
RT: 16.189 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01S-20241218MSD

Tgt Ion:200 Resp: 1738

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 173 | 31.9 | 24.1 | 36.1 |
| 215 | 48.9 | 36.9 | 55.3 |

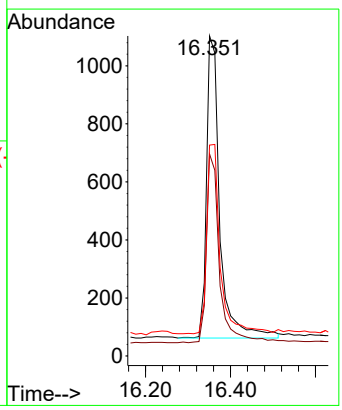


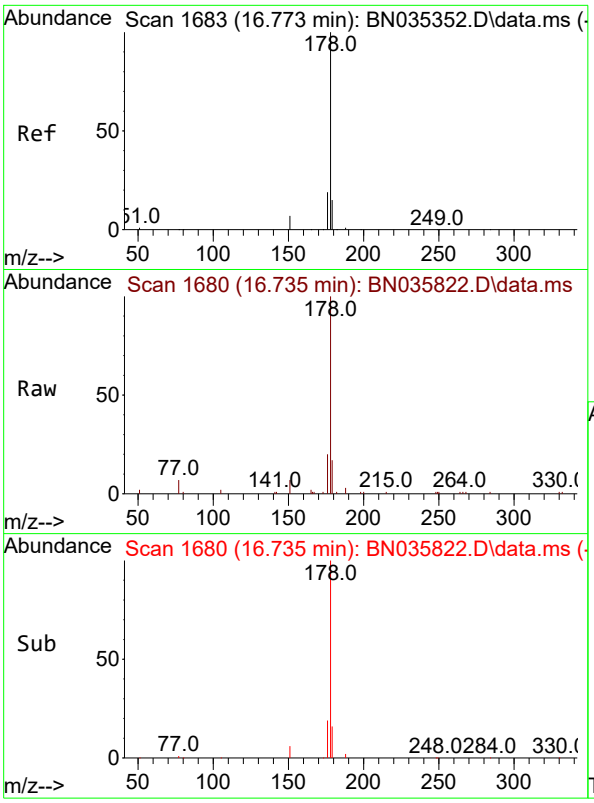




#24
Pentachlorophenol
Concen: 0.748 ng
RT: 16.351 min Scan# 1649
Delta R.T. -0.025 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:266 Resp: 2251

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 264 | 61.1 | 42.3 | 63.5 |
| 268 | 64.2 | 43.3 | 64.9 |



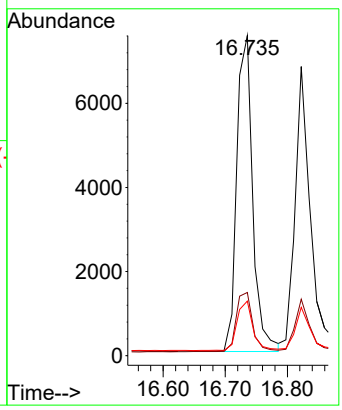


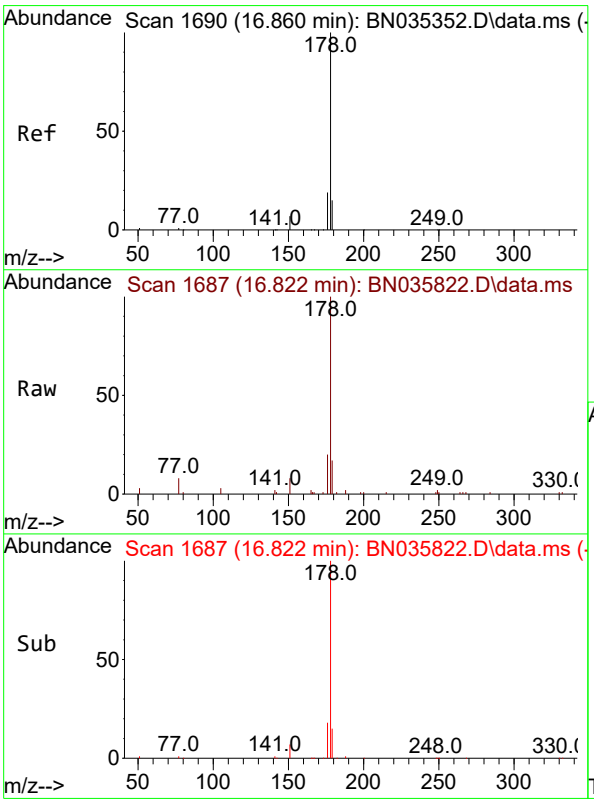

#25
Phenanthrene
Concen: 0.486 ng
RT: 16.735 min Scan# 1(
Delta R.T. -0.013 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01S-20241218MSD

Tgt Ion:178 Resp: 13447

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.6 | 15.4 | 23.2 |
| 179 | 15.6 | 12.3 | 18.5 |

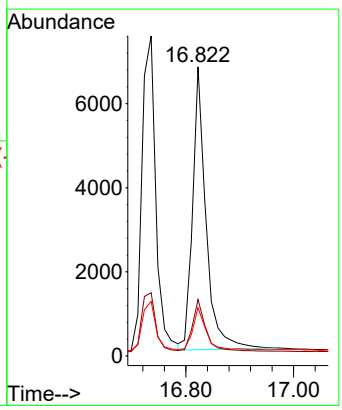


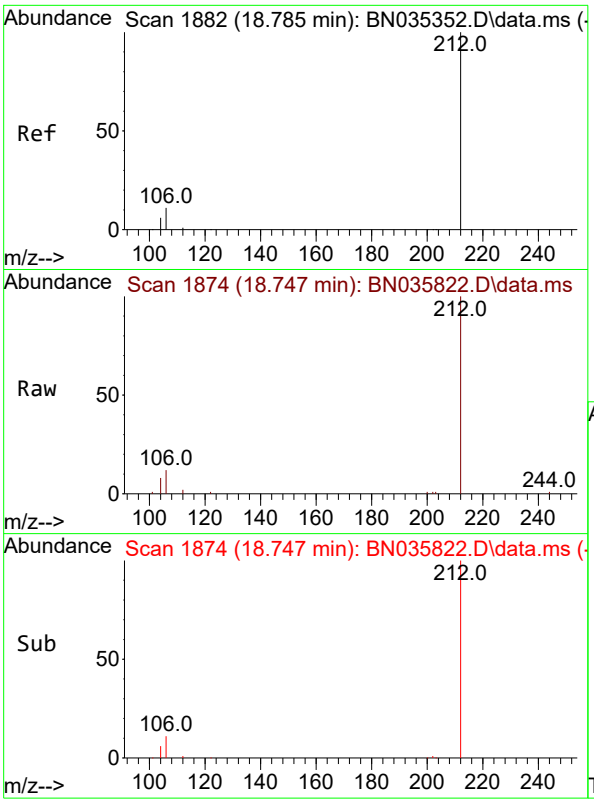




#26
Anthracene
Concen: 0.466 ng
RT: 16.822 min Scan# 1687
Delta R.T. -0.013 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:178 Resp: 11668

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.1 | 15.0 | 22.6 |
| 179 | 14.9 | 12.6 | 18.8 |



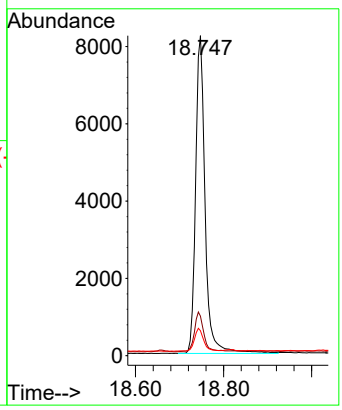


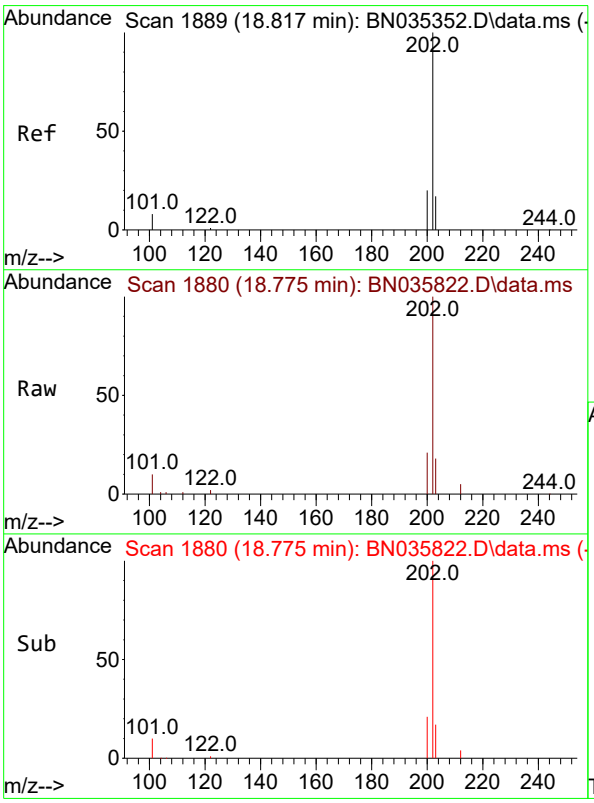

#27
Fluoranthene-d10
Concen: 0.431 ng
RT: 18.747 min Scan# 1
Delta R.T. -0.014 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01S-20241218MSD

Tgt Ion:212 Resp: 12293

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 12.4 | 9.2 | 13.8 |
| 104 | 6.8 | 5.3 | 7.9 |

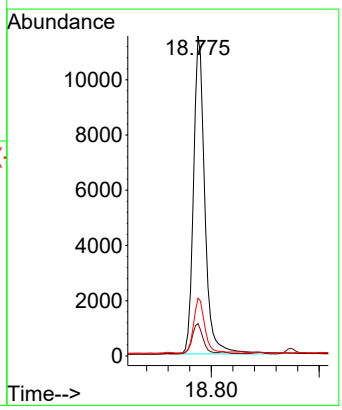


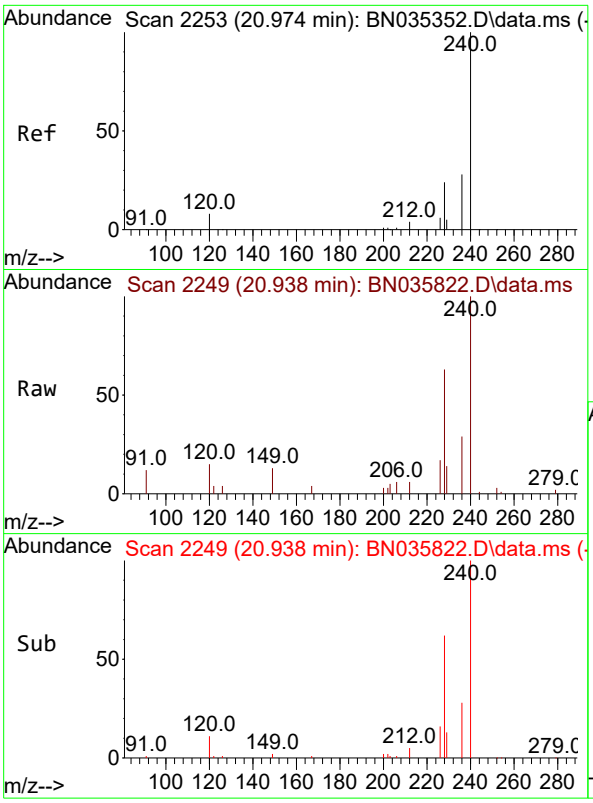




#28
Fluoranthene
Concen: 0.450 ng
RT: 18.775 min Scan# 1880
Delta R.T. -0.014 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:202 Resp: 16762

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 9.2 | 7.4 | 11.0 |
| 203 | 16.8 | 13.7 | 20.5 |



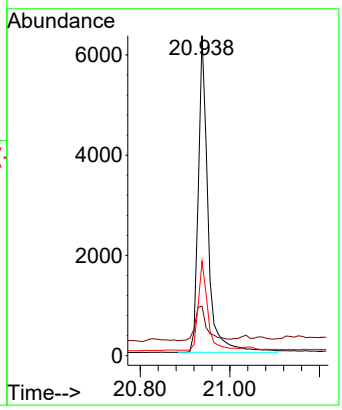


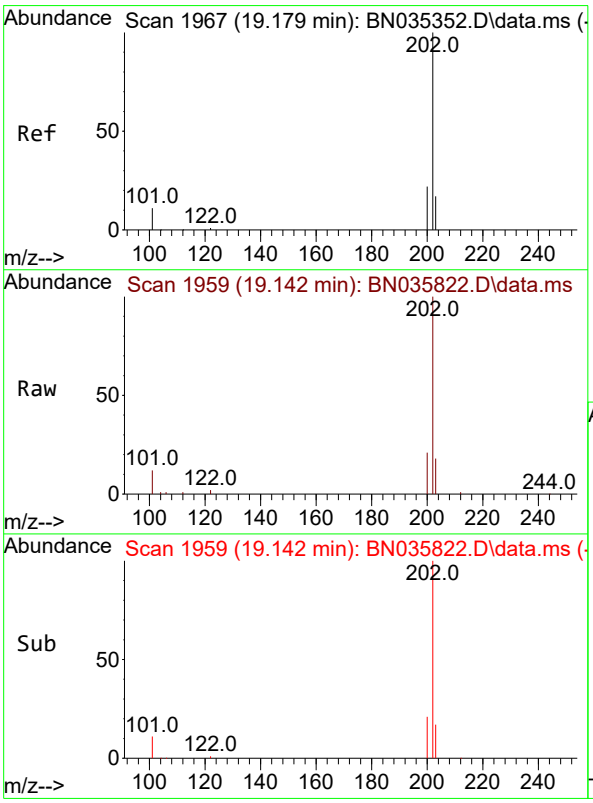

#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.938 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01S-20241218MSD

Tgt Ion:240 Resp: 9501

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 15.4 | 7.9 | 11.9# |
| 236 | 29.5 | 22.9 | 34.3 |

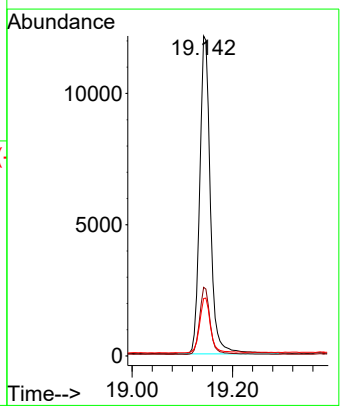


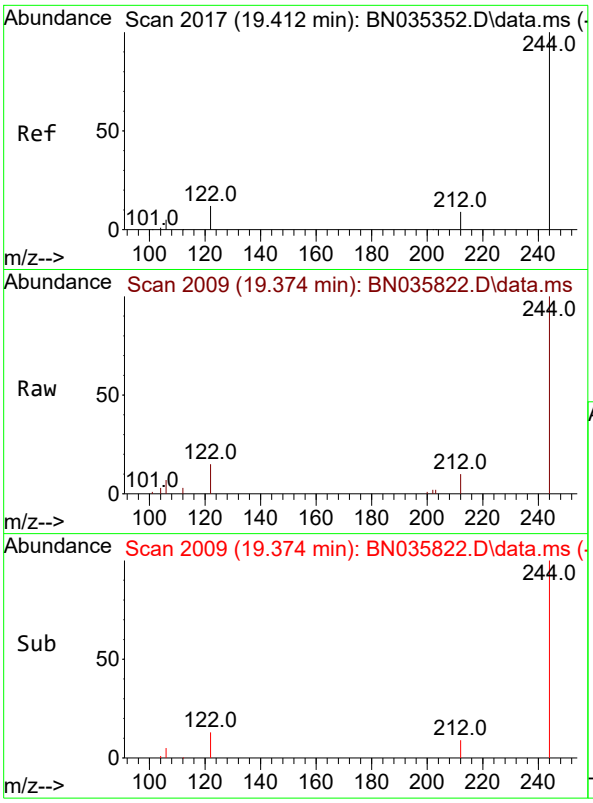




#30
Pyrene
Concen: 0.508 ng
RT: 19.142 min Scan# 1959
Delta R.T. -0.019 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:202 Resp: 17829

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 20.9 | 17.0 | 25.4 |
| 203 | 17.7 | 14.3 | 21.5 |



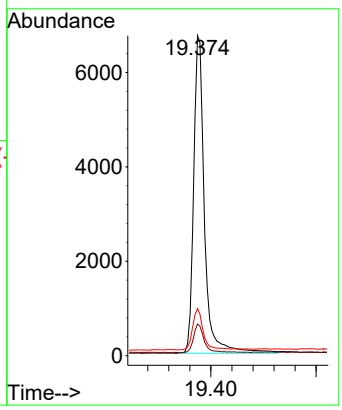


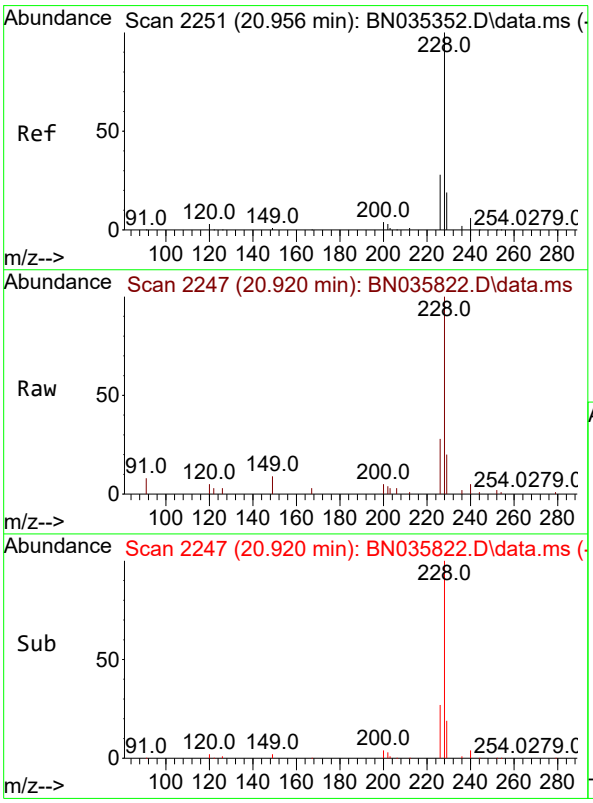

#31
Terphenyl-d14
Concen: 0.513 ng
RT: 19.374 min Scan# 2
Delta R.T. -0.014 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01S-20241218MSD

Tgt Ion:244 Resp: 9610

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 9.9 | 8.1 | 12.1 |
| 122 | 14.7 | 10.3 | 15.5 |

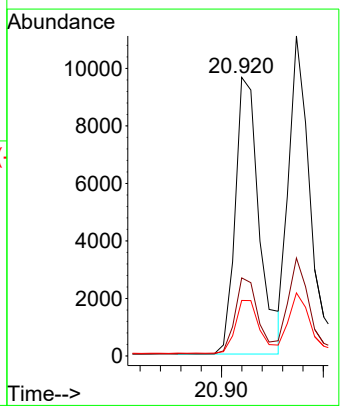


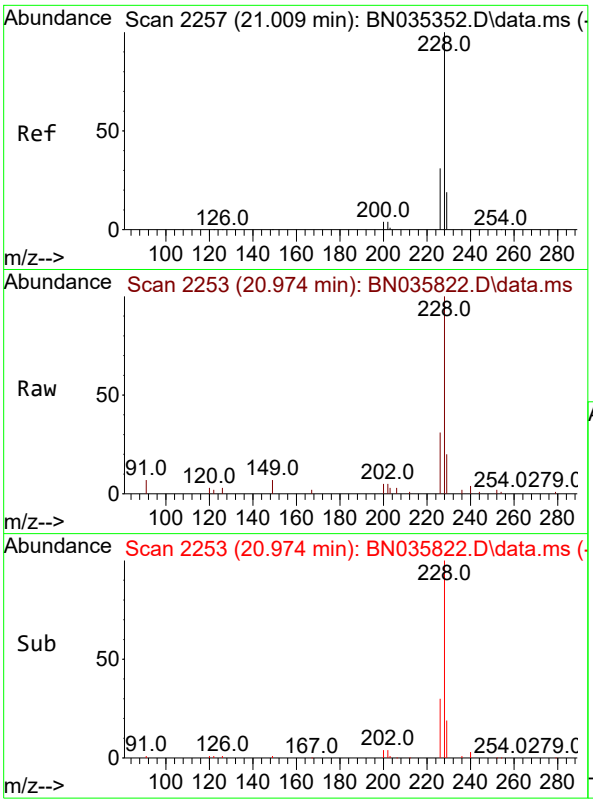




#32
Benzo(a)anthracene
Concen: 0.474 ng
RT: 20.920 min Scan# 2247
Delta R.T. -0.018 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:228 Resp: 15744

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 28.0 | 22.5 | 33.7 |
| 229 | 20.0 | 15.8 | 23.8 |



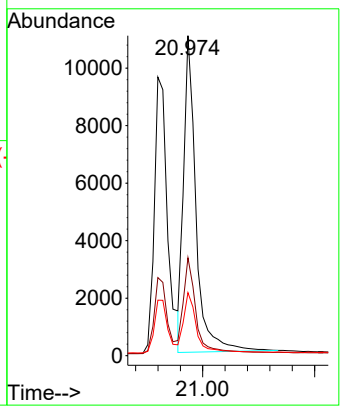


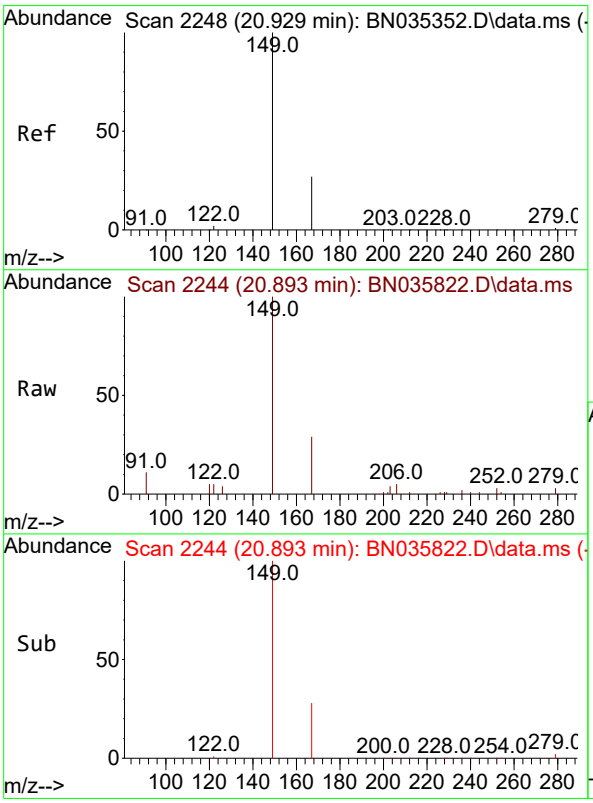

#33
Chrysene
Concen: 0.494 ng
RT: 20.974 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01S-20241218MSD

Tgt Ion:228 Resp: 16946

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 30.6 | 24.6 | 37.0 |
| 229 | 19.7 | 15.9 | 23.9 |

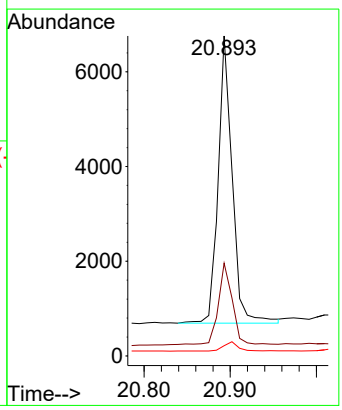


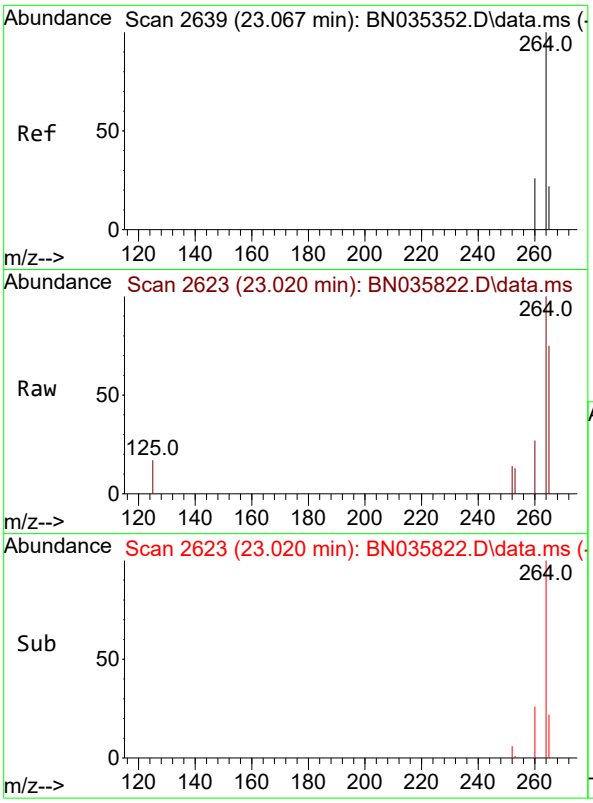




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.524 ng
RT: 20.893 min Scan# 2244
Delta R.T. -0.018 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:149 Resp: 6876

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 27.4 | 22.2 | 33.4 |
| 279 | 3.2 | 2.7 | 4.1 |



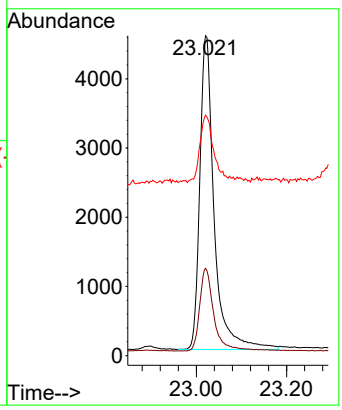


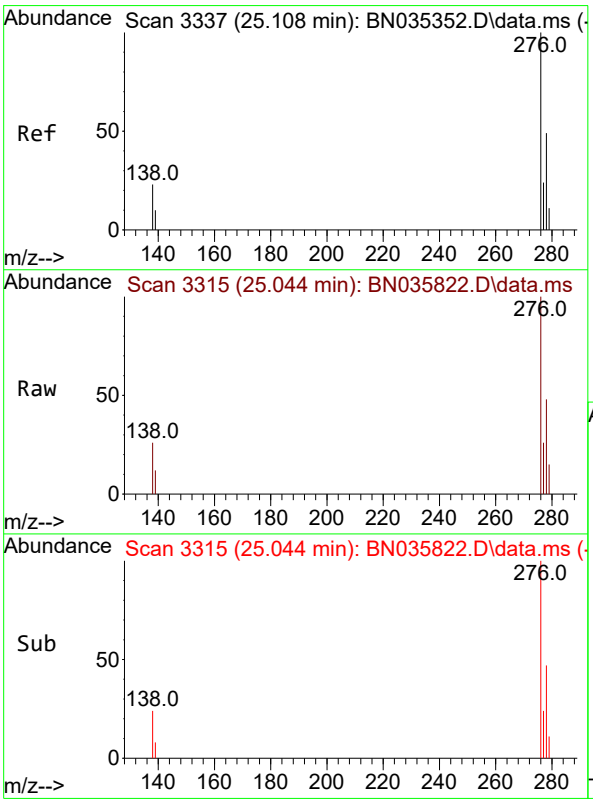

#35
Perylene-d12
Concen: 0.400 ng
RT: 23.020 min Scan# 2
Delta R.T. -0.021 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01S-20241218MSD

Tgt Ion:264 Resp: 9990

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 27.3 | 21.4 | 32.2 |
| 265 | 75.1 | 40.2 | 60.4# |

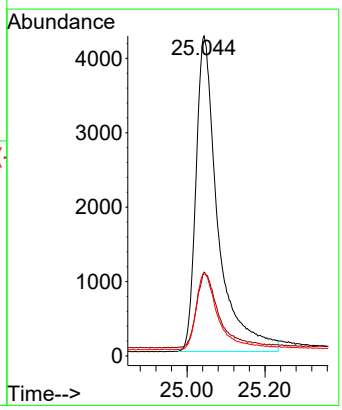


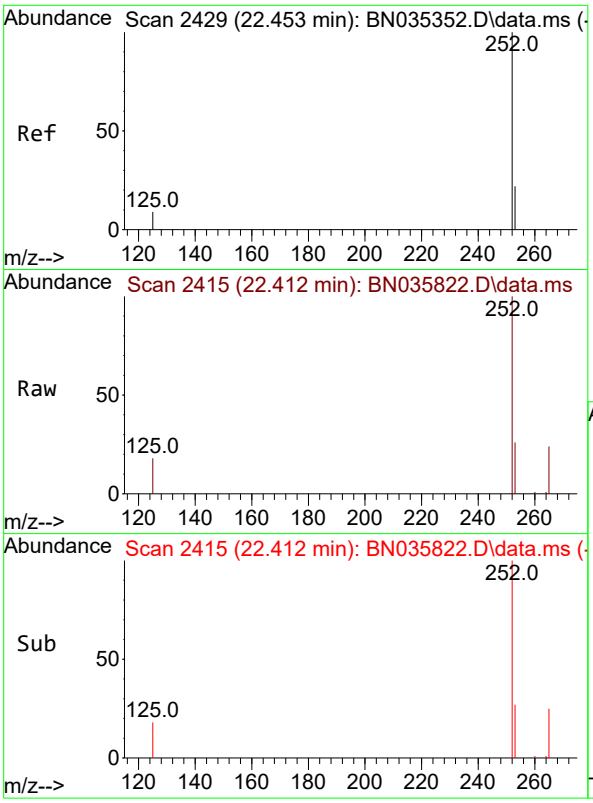




#36
Indeno(1,2,3-cd)pyrene
Concen: 0.425 ng
RT: 25.044 min Scan# 3315
Delta R.T. -0.024 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:276 Resp: 16588

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 23.3 | 19.4 | 29.0 |
| 277 | 23.8 | 19.8 | 29.6 |



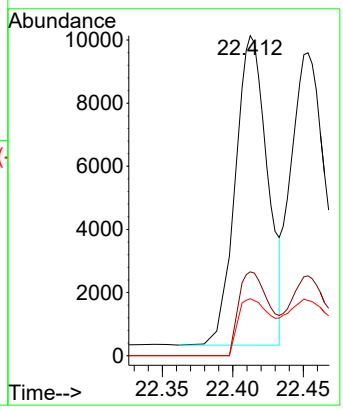


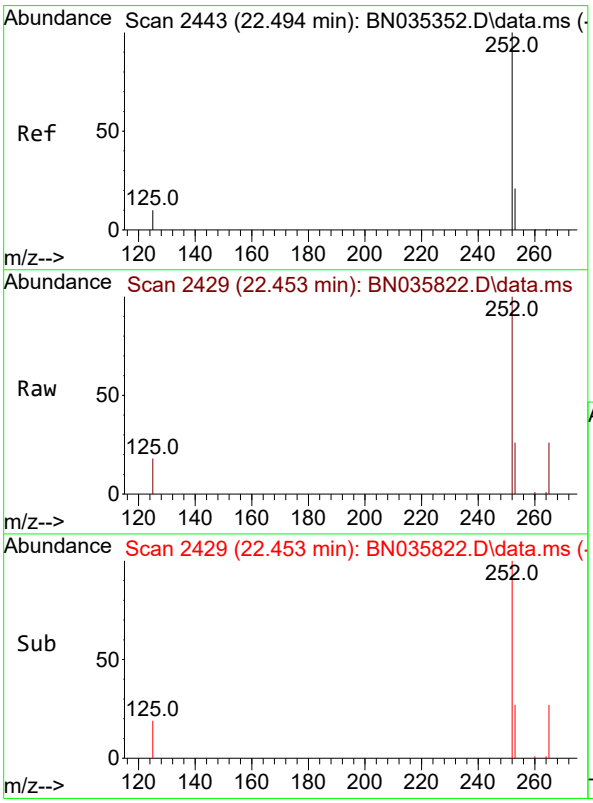

#37
Benzo(b)fluoranthene
Concen: 0.608 ng
RT: 22.412 min Scan# 24
Delta R.T. -0.018 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01S-20241218MSD

Tgt Ion:252 Resp: 22222

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 26.2 | 19.6 | 29.4 |
| 125 | 17.8 | 9.6 | 14.4# |

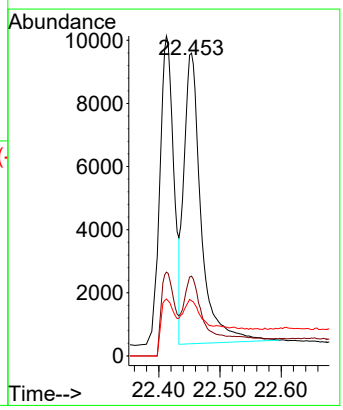


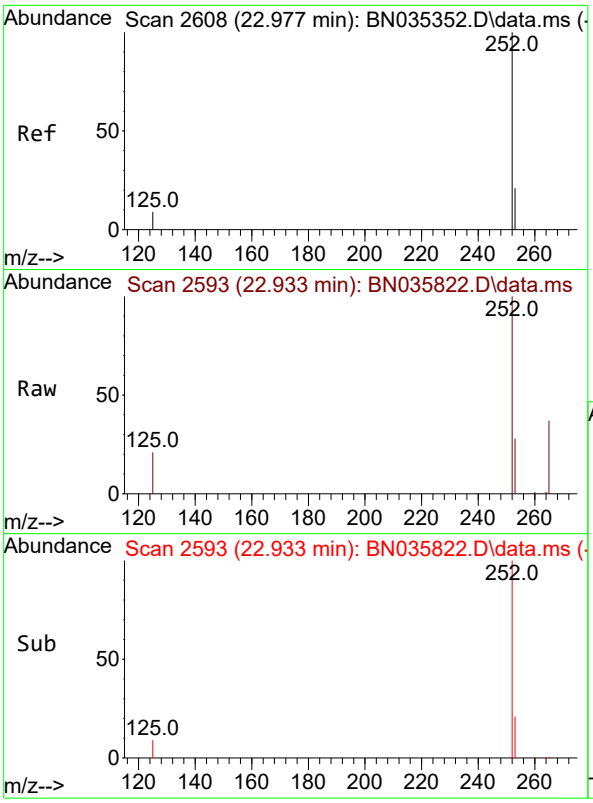




#38
Benzo(k)fluoranthene
Concen: 0.503 ng
RT: 22.453 min Scan# 2429
Delta R.T. -0.018 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:252 Resp: 18080

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 26.3 | 19.5 | 29.3 |
| 125 | 18.2 | 10.2 | 15.4# |



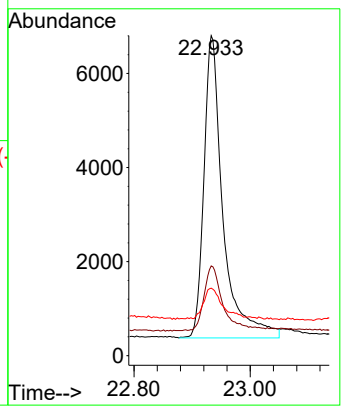


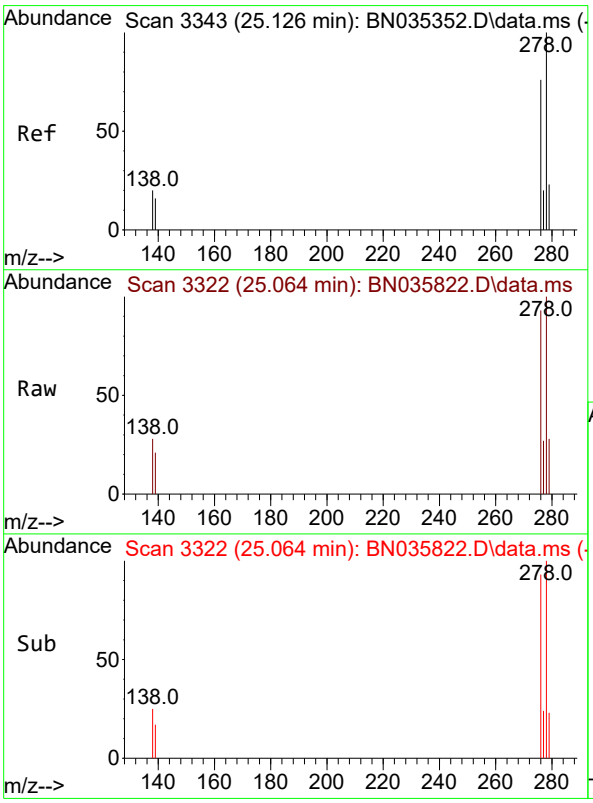

#39
Benzo(a)pyrene
Concen: 0.486 ng
RT: 22.933 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01S-20241218MSD

Tgt Ion:252 Resp: 14639

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 28.1 | 20.2 | 30.4 |
| 125 | 21.1 | 10.9 | 16.3# |

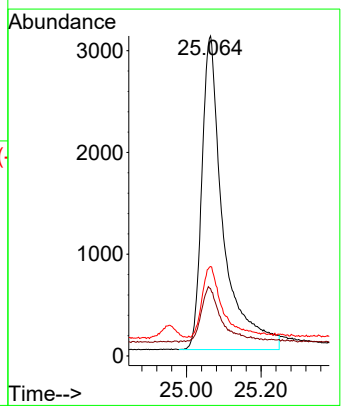


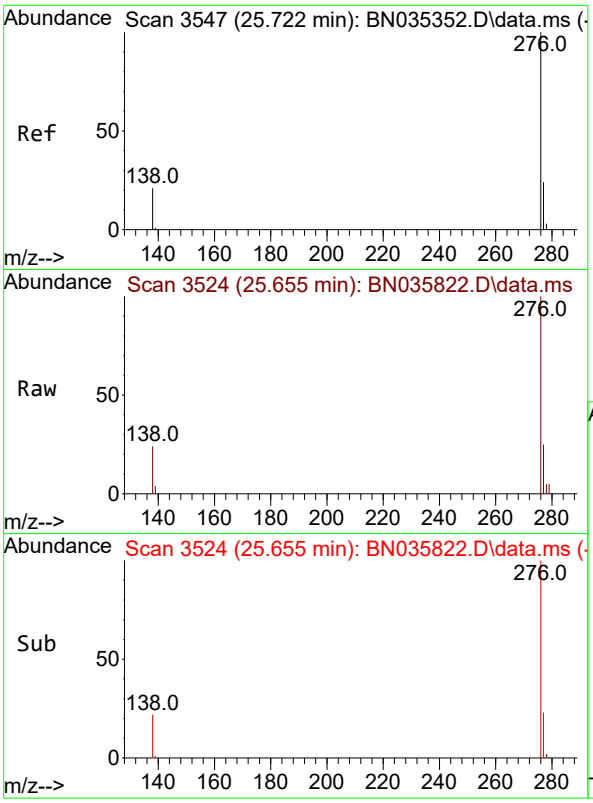




#40
Dibenzo(a,h)anthracene
Concen: 0.399 ng
RT: 25.064 min Scan# 3322
Delta R.T. -0.018 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:278 Resp: 12290

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 21.1 | 14.2 | 21.4 |
| 279 | 28.0 | 20.5 | 30.7 |



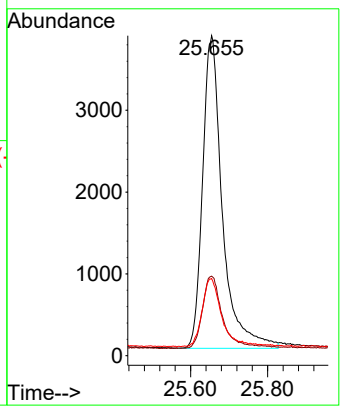



#41
Benzo(g,h,i)perylene
Concen: 0.423 ng
RT: 25.655 min Scan# 3
Delta R.T. -0.024 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01S-20241218MSD

Tgt Ion:276 Resp: 13609

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 24.9 | 19.9 | 29.9 |
| 138 | 24.1 | 17.8 | 26.8 |



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035823.D
Acq On : 24 Dec 2024 16:06
Operator : RC/JU
Sample : P5376-10
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01D-20241218

Quant Time: Dec 24 23:19:31 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

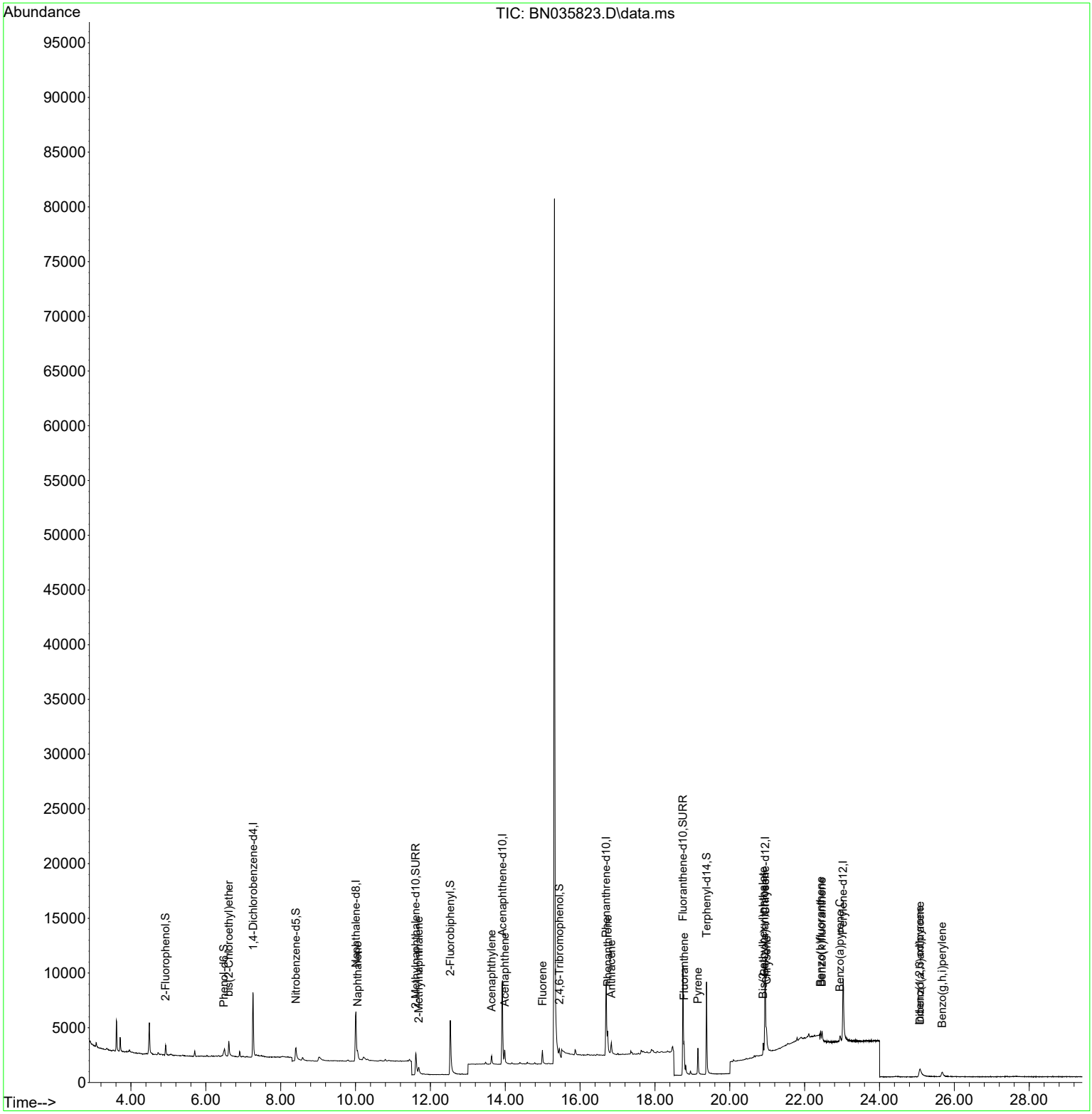
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.264 | 152 | 3352 | 0.400 | ng | 0.00 |
| 7) Naphthalene-d8 | 10.009 | 136 | 8445 | 0.400 | ng | #-0.01 |
| 13) Acenaphthene-d10 | 13.925 | 164 | 5463 | 0.400 | ng | -0.01 |
| 19) Phenanthrene-d10 | 16.698 | 188 | 11816 | 0.400 | ng | # 0.00 |
| 29) Chrysene-d12 | 20.947 | 240 | 9968 | 0.400 | ng | # 0.00 |
| 35) Perylene-d12 | 23.026 | 264 | 9568 | 0.400 | ng | #-0.01 |
| System Monitoring Compounds | | | | | | |
| 4) 2-Fluorophenol | 4.924 | 112 | 842 | 0.100 | ng | -0.01 |
| 5) Phenol-d6 | 6.477 | 99 | 482 | 0.048 | ng | -0.01 |
| 8) Nitrobenzene-d5 | 8.408 | 82 | 2253 | 0.437 | ng | 0.00 |
| 11) 2-Methylnaphthalene-d10 | 11.611 | 152 | 4421 | 0.335 | ng | -0.01 |
| 14) 2,4,6-Tribromophenol | 15.443 | 330 | 799 | 0.206 | ng | -0.01 |
| 15) 2-Fluorobiphenyl | 12.534 | 172 | 6936 | 0.336 | ng | -0.01 |
| 27) Fluoranthene-d10 | 18.747 | 212 | 13295 | 0.397 | ng | -0.01 |
| 31) Terphenyl-d14 | 19.379 | 244 | 9869 | 0.502 | ng | 0.00 |
| Target Compounds | | | | | | Qvalue |
| 6) bis(2-Chloroethyl)ether | 6.614 | 93 | 2739 | 0.323 | ng | # 31 |
| 9) Naphthalene | 10.052 | 128 | 964 | 0.043 | ng | # 77 |
| 12) 2-Methylnaphthalene | 11.692 | 142 | 597 | 0.037 | ng | # 76 |
| 16) Acenaphthylene | 13.636 | 152 | 1063 | 0.046 | ng | # 93 |
| 17) Acenaphthene | 13.989 | 154 | 693 | 0.045 | ng | 99 |
| 18) Fluorene | 14.994 | 166 | 956 | 0.044 | ng | 96 |
| 25) Phenanthrene | 16.736 | 178 | 2183 | 0.067 | ng | 98 |
| 26) Anthracene | 16.835 | 178 | 1383 | 0.047 | ng | 98 |
| 28) Fluoranthene | 18.780 | 202 | 2251 | 0.051 | ng | # 96 |
| 30) Pyrene | 19.147 | 202 | 2504 | 0.068 | ng | 98 |
| 32) Benzo(a)anthracene | 20.929 | 228 | 1508 | 0.043 | ng | # 91 |
| 33) Chrysene | 20.983 | 228 | 2026 | 0.056 | ng | # 93 |
| 34) Bis(2-ethylhexyl)phtha... | 20.893 | 149 | 1059 | 0.077 | ng | # 95 |
| 36) Indeno(1,2,3-cd)pyrene | 25.073 | 276 | 1384 | 0.037 | ng | # 82 |
| 37) Benzo(b)fluoranthene | 22.424 | 252 | 1754 | 0.050 | ng | # 28 |
| 38) Benzo(k)fluoranthene | 22.465 | 252 | 1557 | 0.045 | ng | # 29 |
| 39) Benzo(a)pyrene | 22.945 | 252 | 959 | 0.033 | ng | # 1 |
| 40) Dibenzo(a,h)anthracene | 25.085 | 278 | 1067 | 0.036 | ng | # 11 |
| 41) Benzo(g,h,i)perylene | 25.675 | 276 | 1130 | 0.037 | ng | # 64 |

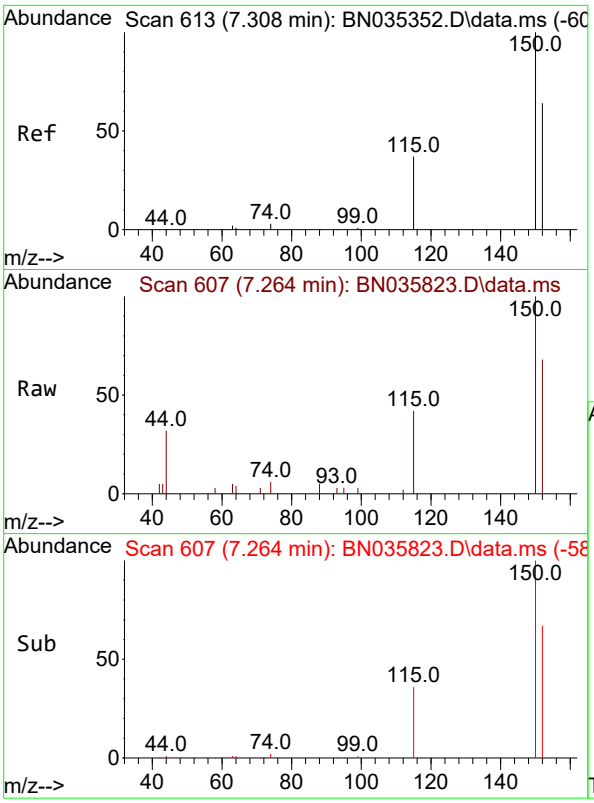
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035823.D
Acq On : 24 Dec 2024 16:06
Operator : RC/JU
Sample : P5376-10
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01D-20241218

Quant Time: Dec 24 23:19:31 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



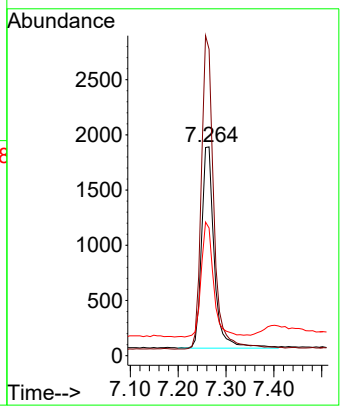


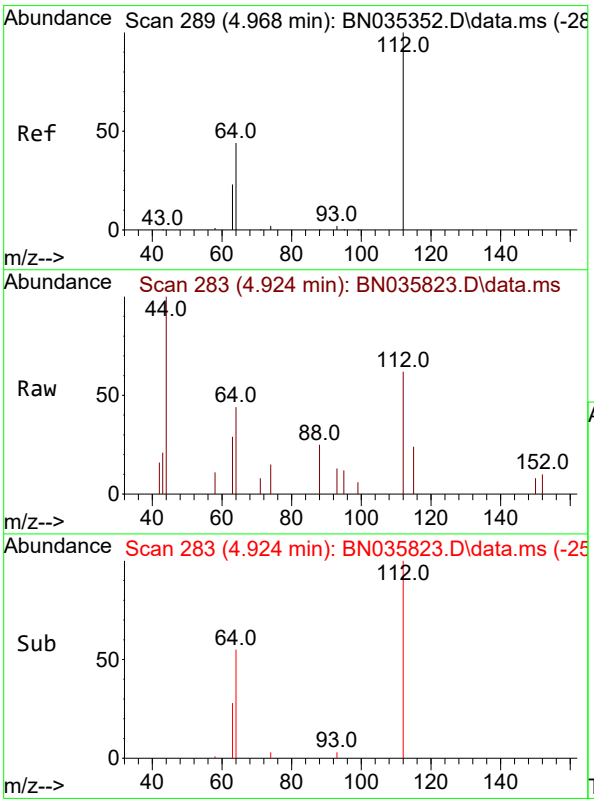

#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.264 min Scan# 6
Delta R.T. -0.008 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01D-20241218

Tgt Ion:152 Resp: 3352

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 146.7 | 124.0 | 186.0 |
| 115 | 61.2 | 49.6 | 74.4 |

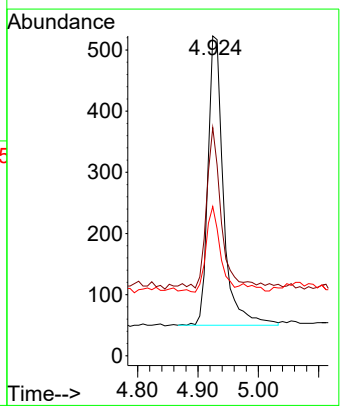


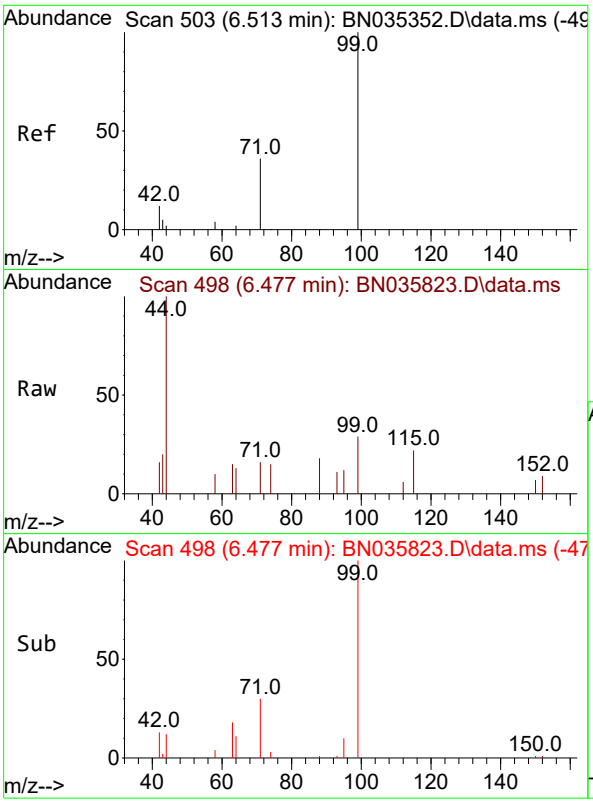




#4
2-Fluorophenol
Concen: 0.100 ng
RT: 4.924 min Scan# 283
Delta R.T. -0.014 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

Tgt Ion:112 Resp: 842

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 52.5 | 39.8 | 59.8 |
| 63 | 27.2 | 21.0 | 31.6 |



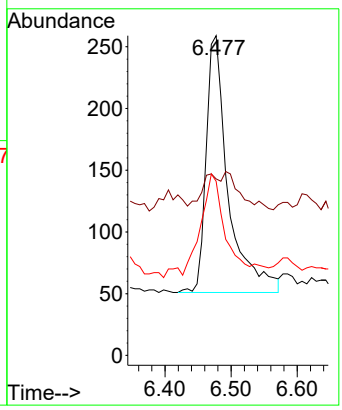


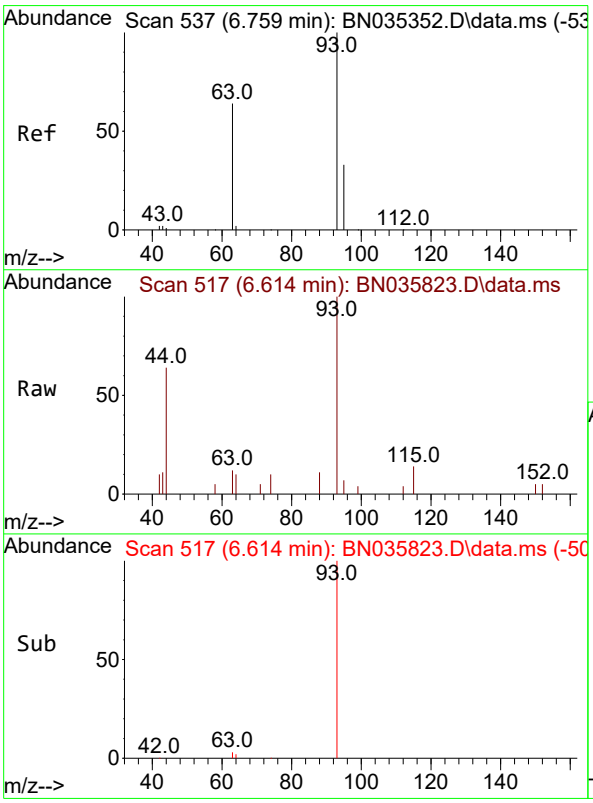

#5
Phenol-d6
Concen: 0.048 ng
RT: 6.477 min Scan# 4
Delta R.T. -0.014 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01D-20241218

Tgt Ion: 99 Resp: 482

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 10.2 | 11.4 | 17.2# |
| 71 | 41.9 | 29.3 | 43.9 |

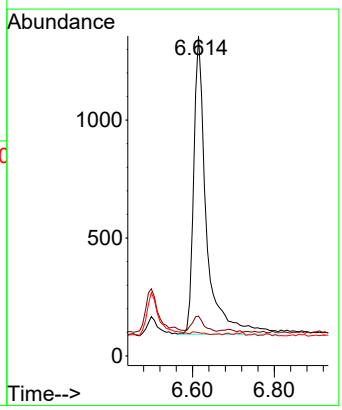


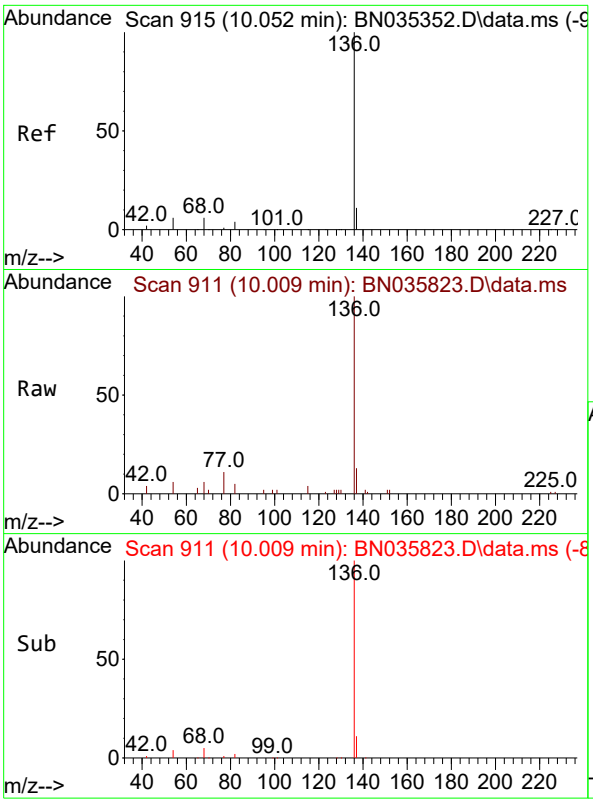




#6
bis(2-Chloroethyl)ether
Concen: 0.323 ng
RT: 6.614 min Scan# 517
Delta R.T. -0.116 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

Tgt Ion: 93 Resp: 2739

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 4.4 | 50.4 | 75.6# |
| 95 | 0.7 | 25.7 | 38.5# |



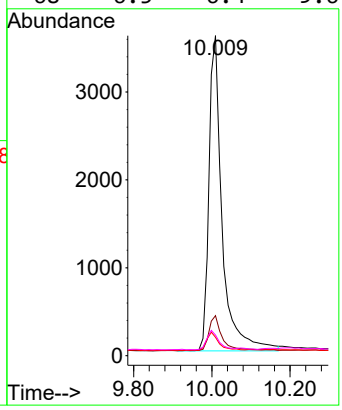


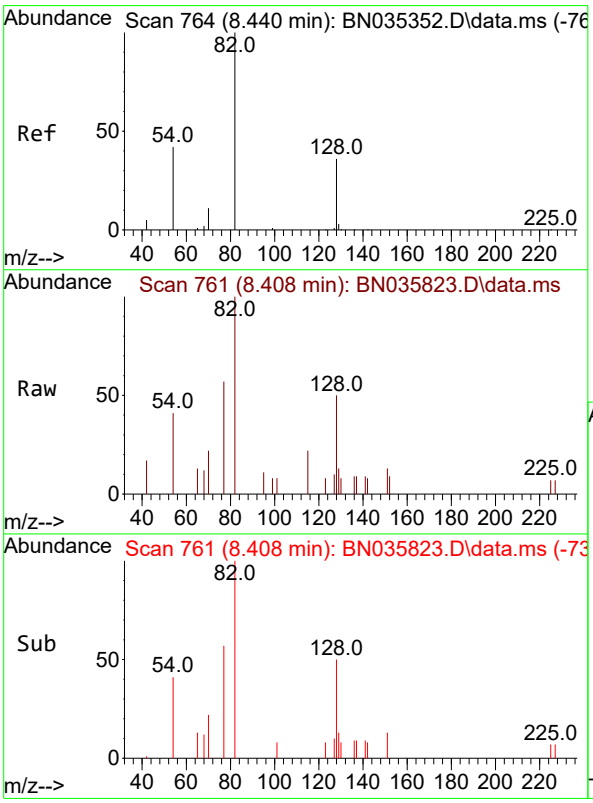

#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01D-20241218

Tgt Ion:136 Resp: 8445

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 12.5 | 10.2 | 15.2 |
| 54 | 5.7 | 6.1 | 9.1# |
| 68 | 6.5 | 6.4 | 9.6 |

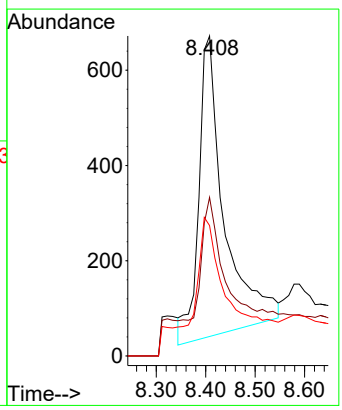


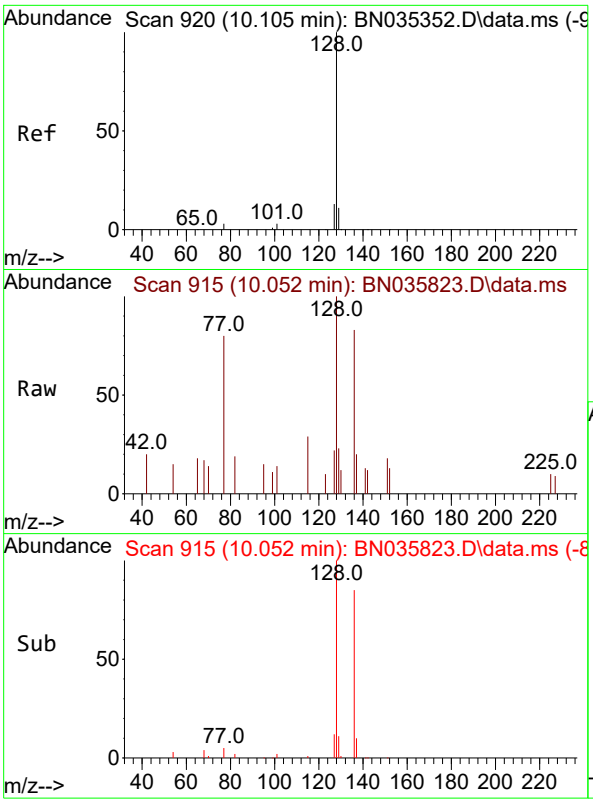




#8
Nitrobenzene-d5
Concen: 0.437 ng
RT: 8.408 min Scan# 761
Delta R.T. -0.000 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

Tgt Ion: 82 Resp: 2253

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 49.6 | 33.4 | 50.0 |
| 54 | 40.8 | 36.7 | 55.1 |



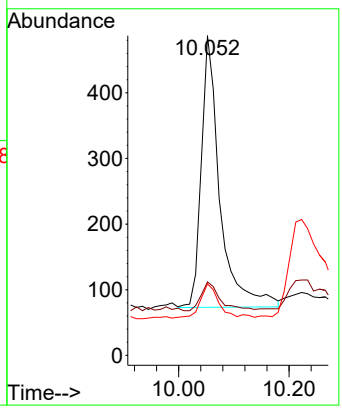


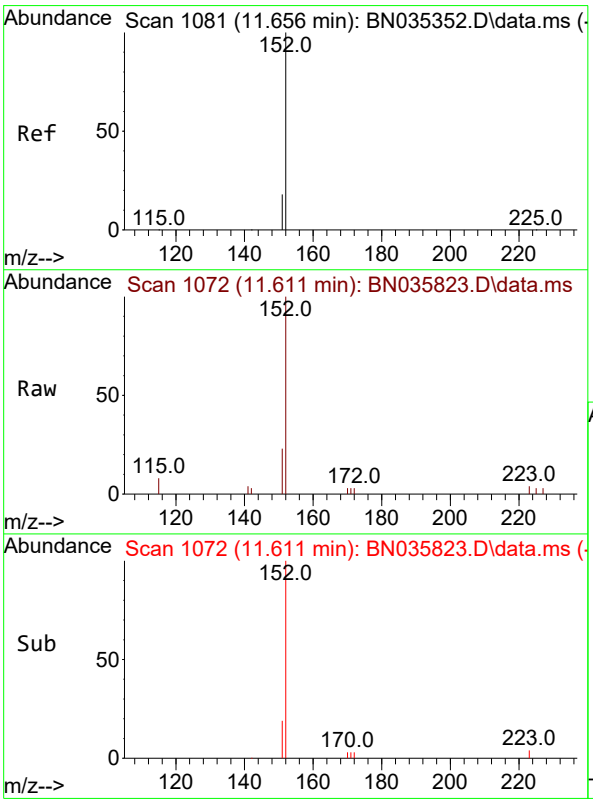

#9
Naphthalene
Concen: 0.043 ng
RT: 10.052 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01D-20241218

Tgt Ion:128 Resp: 964

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 23.0 | 9.8 | 14.6# |
| 127 | 22.4 | 11.4 | 17.2# |

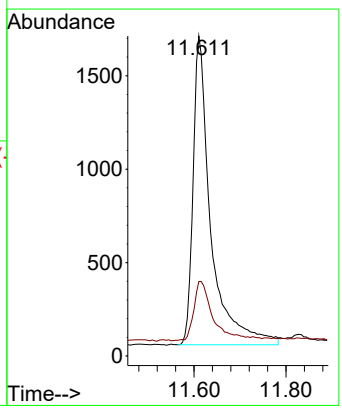


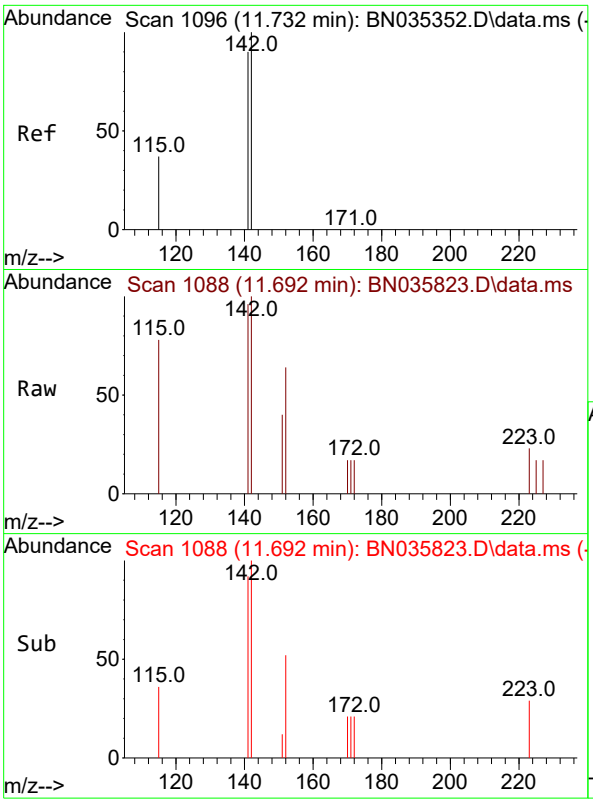




#11
2-Methylnaphthalene-d10
Concen: 0.335 ng
RT: 11.611 min Scan# 1072
Delta R.T. -0.010 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

Tgt Ion:152 Resp: 4421

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.4 | 16.6 | 25.0 |



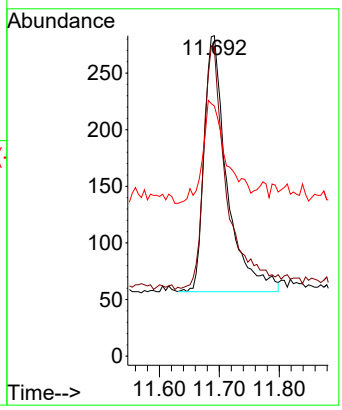


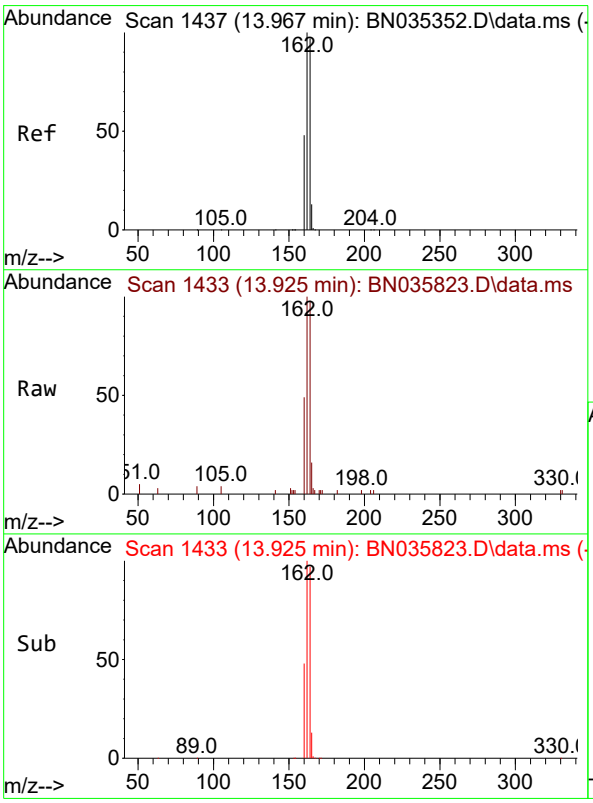

#12
2-Methylnaphthalene
Concen: 0.037 ng
RT: 11.692 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01D-20241218

Tgt Ion:142 Resp: 597

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 96.1 | 72.2 | 108.4 |
| 115 | 78.1 | 31.4 | 47.0# |

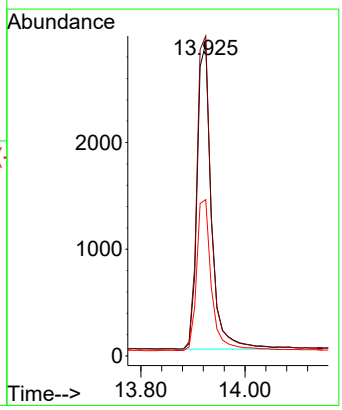


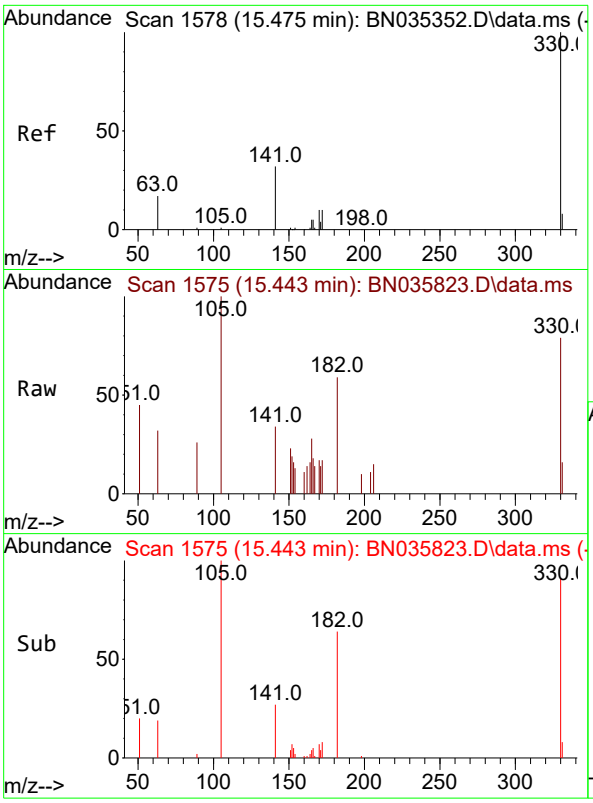




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.925 min Scan# 1433
Delta R.T. -0.011 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

Tgt Ion:164 Resp: 5463

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 102.3 | 82.2 | 123.2 |
| 160 | 50.0 | 40.1 | 60.1 |



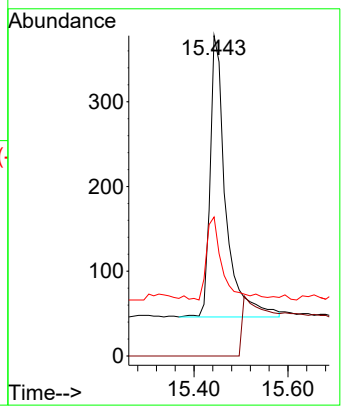


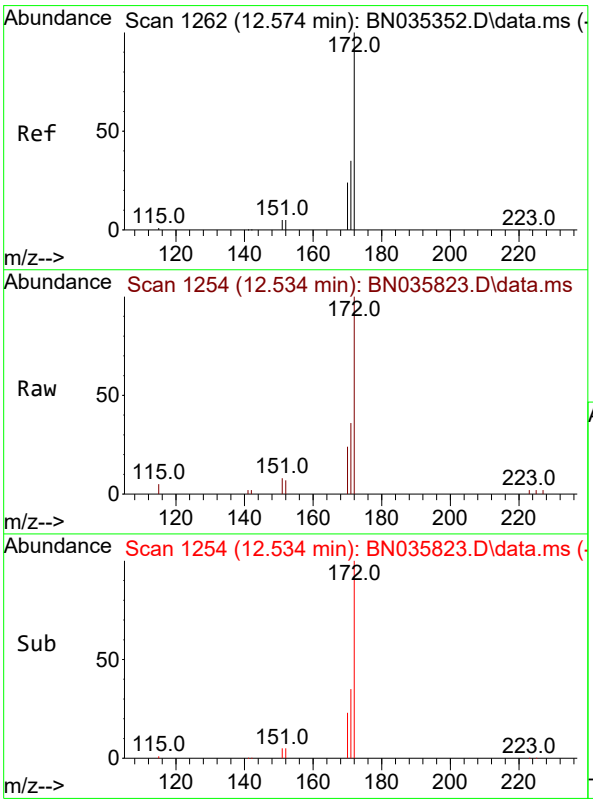

#14
2,4,6-Tribromophenol
Concen: 0.206 ng
RT: 15.443 min Scan# 1
Delta R.T. -0.011 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01D-20241218

Tgt Ion:330 Resp: 799

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 0.0 | 0.0 | 0.0 |
| 141 | 28.9 | 26.6 | 40.0 |

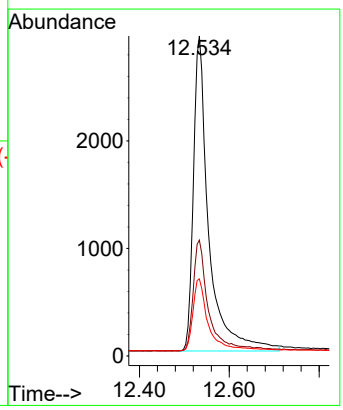


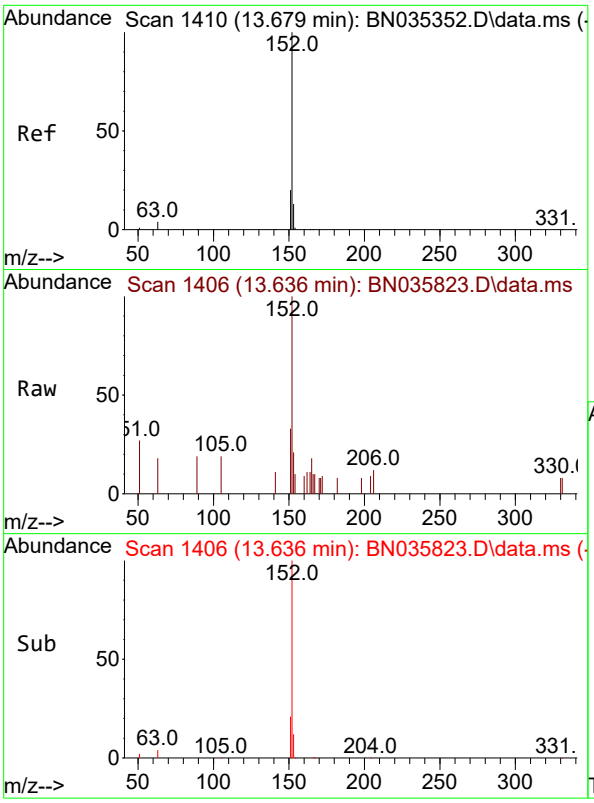




#15
2-Fluorobiphenyl
Concen: 0.336 ng
RT: 12.534 min Scan# 1254
Delta R.T. -0.010 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

Tgt Ion:172 Resp: 6936

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 36.2 | 29.0 | 43.4 |
| 170 | 24.1 | 19.8 | 29.8 |



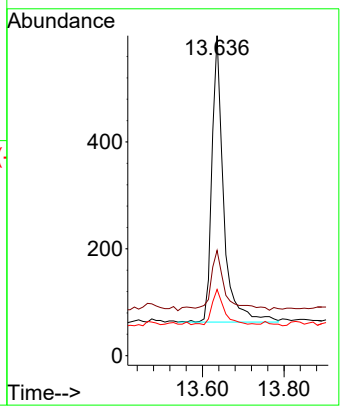


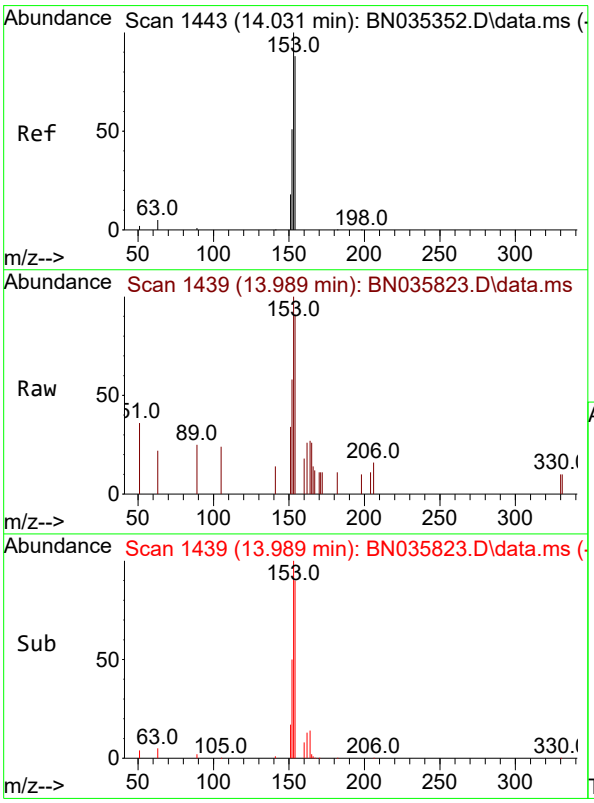

#16
Acenaphthylene
Concen: 0.046 ng
RT: 13.636 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01D-20241218

Tgt Ion:152 Resp: 1063

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 24.4 | 16.2 | 24.2# |
| 153 | 14.4 | 10.4 | 15.6 |

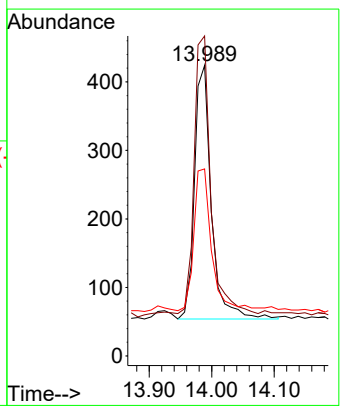


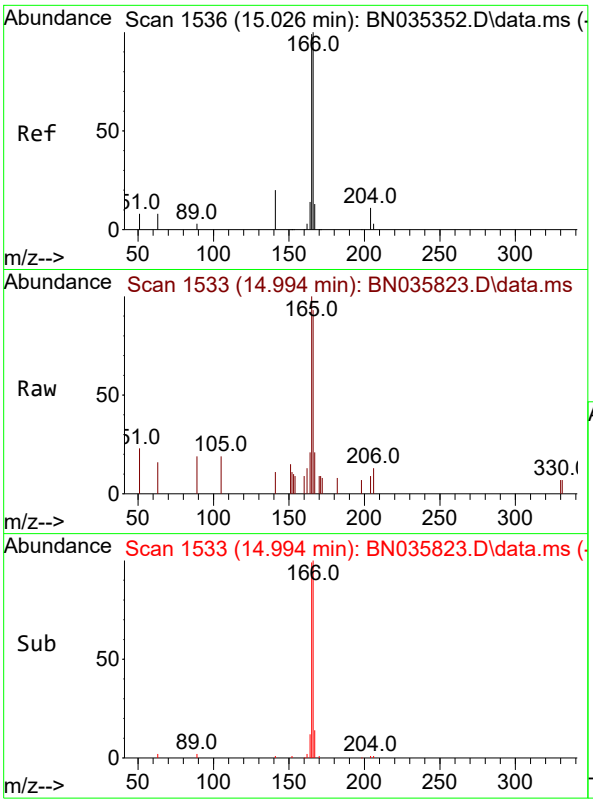




#17
Acenaphthene
Concen: 0.045 ng
RT: 13.989 min Scan# 1439
Delta R.T. -0.011 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

Tgt Ion:154 Resp: 693

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 115.9 | 92.6 | 139.0 |
| 152 | 58.9 | 49.0 | 73.6 |



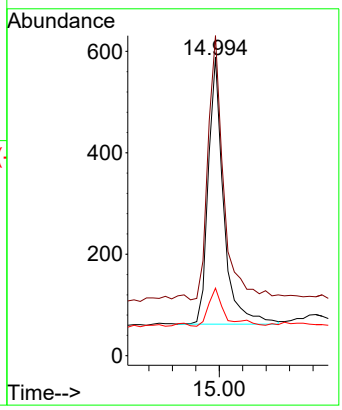


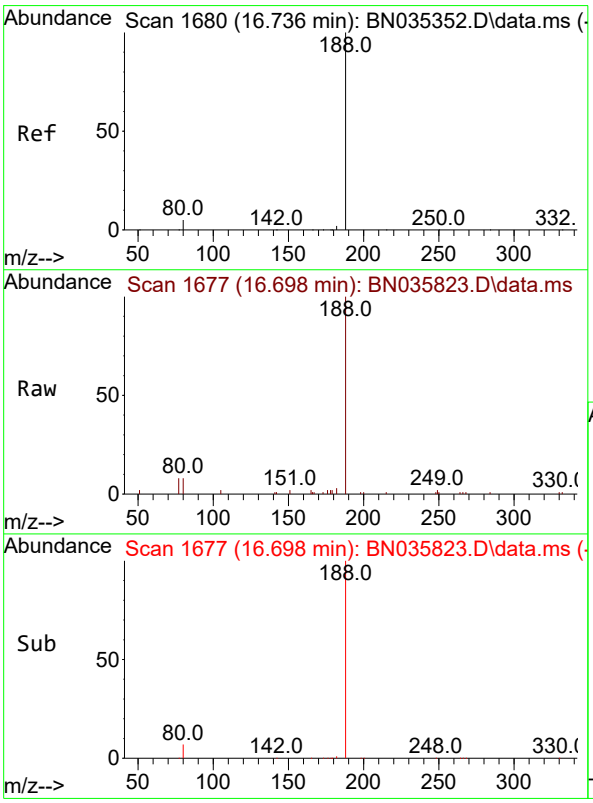

#18
Fluorene
Concen: 0.044 ng
RT: 14.994 min Scan# 1
Delta R.T. -0.011 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01D-20241218

Tgt Ion:166 Resp: 956

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 103.7 | 79.7 | 119.5 |
| 167 | 14.9 | 10.8 | 16.2 |

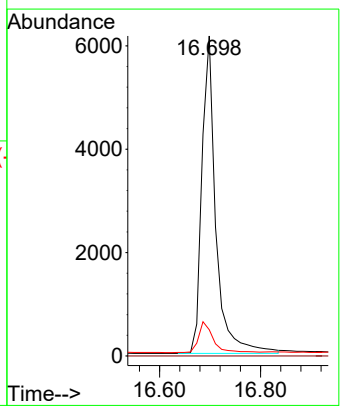


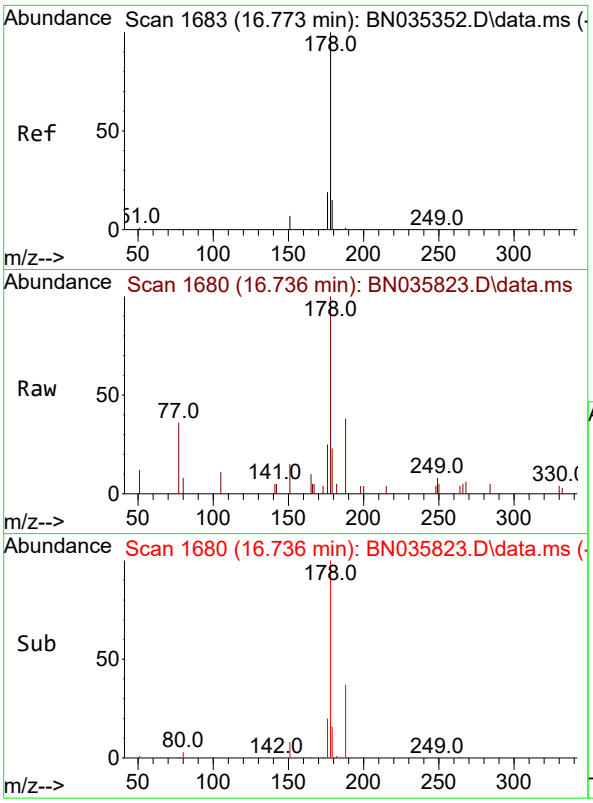




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1677
Delta R.T. -0.000 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

Tgt Ion:188 Resp: 11816

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 8.2 | 4.6 | 6.8# |



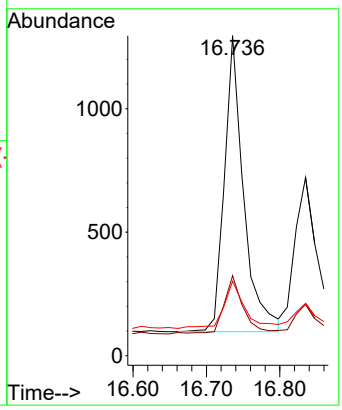


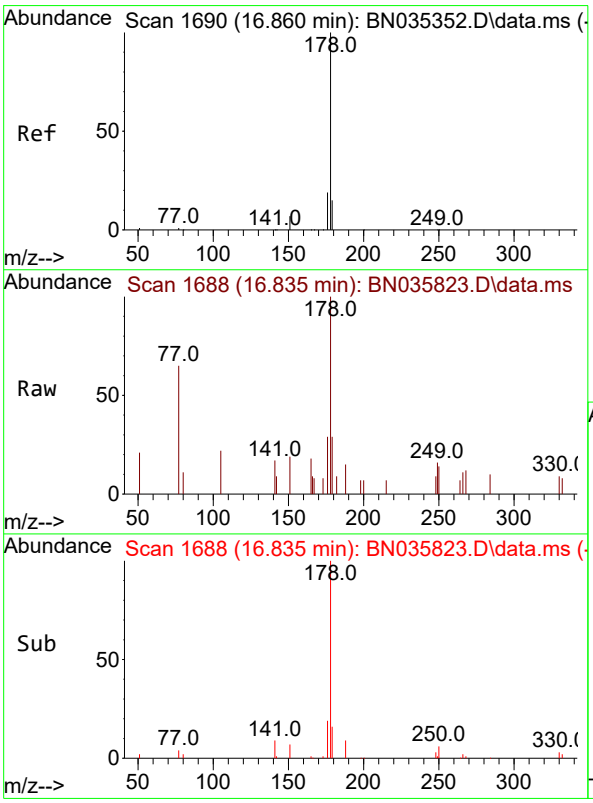

#25
Phenanthrene
Concen: 0.067 ng
RT: 16.736 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01D-20241218

Tgt Ion:178 Resp: 2183

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.7 | 15.4 | 23.2 |
| 179 | 16.8 | 12.3 | 18.5 |

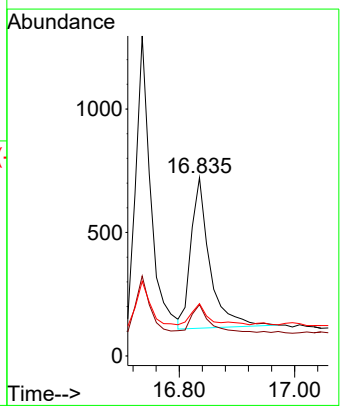


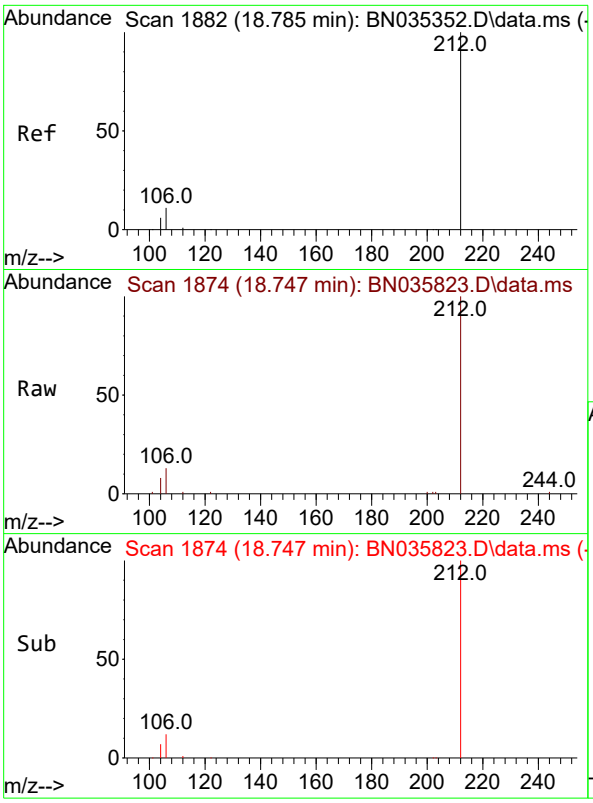




#26
Anthracene
Concen: 0.047 ng
RT: 16.835 min Scan# 1688
Delta R.T. -0.000 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

Tgt Ion:178 Resp: 1383

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.0 | 15.0 | 22.6 |
| 179 | 14.6 | 12.6 | 18.8 |



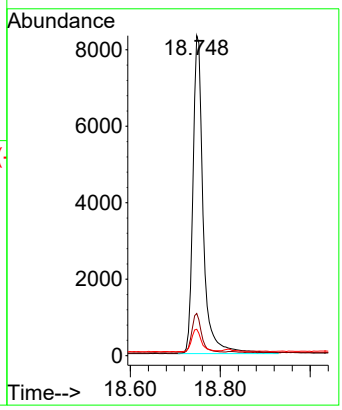


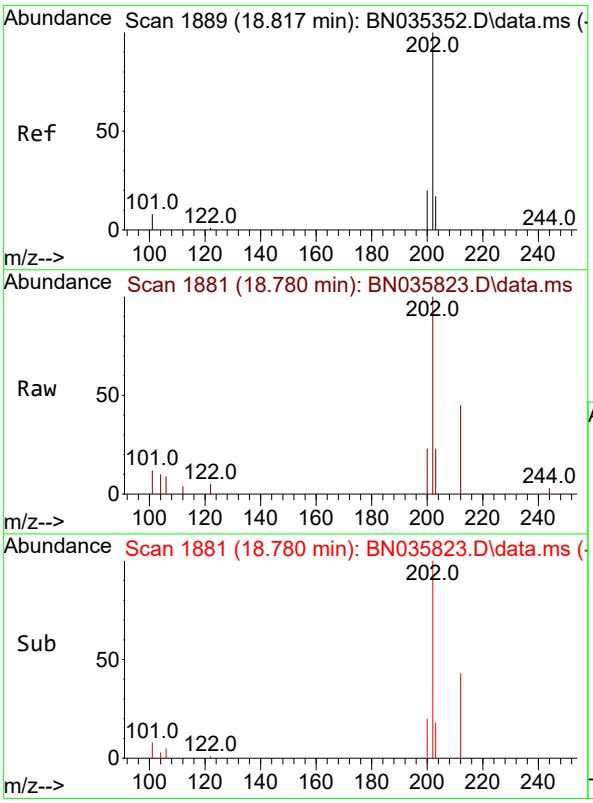

#27
Fluoranthene-d10
Concen: 0.397 ng
RT: 18.747 min Scan# 1
Delta R.T. -0.014 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01D-20241218

Tgt Ion:212 Resp: 13295

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 12.1 | 9.2 | 13.8 |
| 104 | 6.7 | 5.3 | 7.9 |

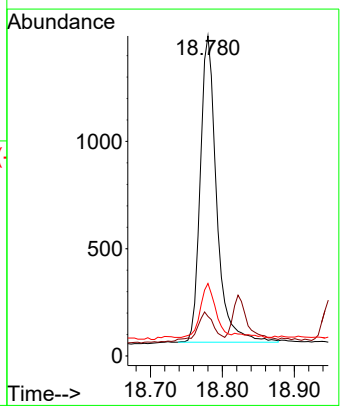


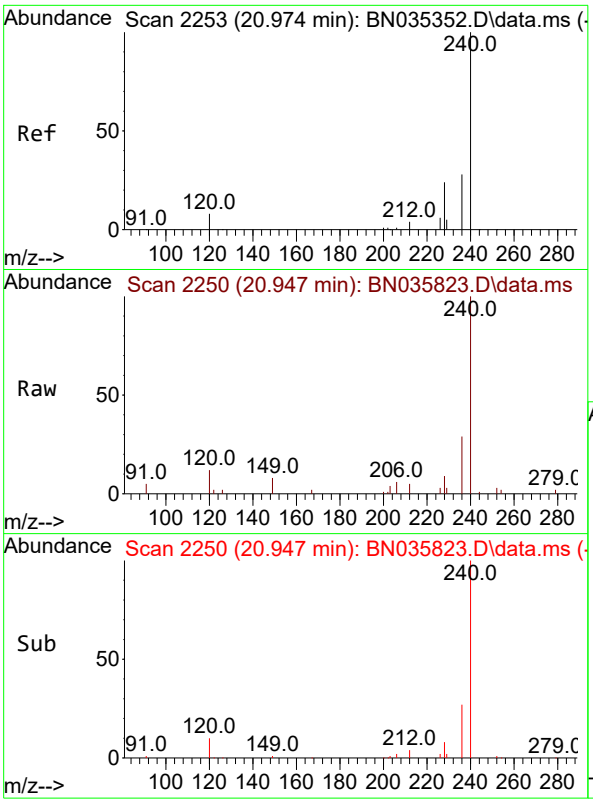




#28
Fluoranthene
Concen: 0.051 ng
RT: 18.780 min Scan# 1881
Delta R.T. -0.009 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

Tgt Ion:202 Resp: 2251

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 11.8 | 7.4 | 11.0# |
| 203 | 16.3 | 13.7 | 20.5 |



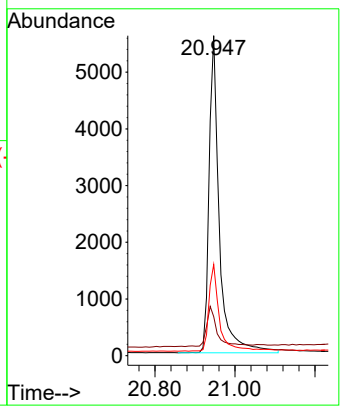


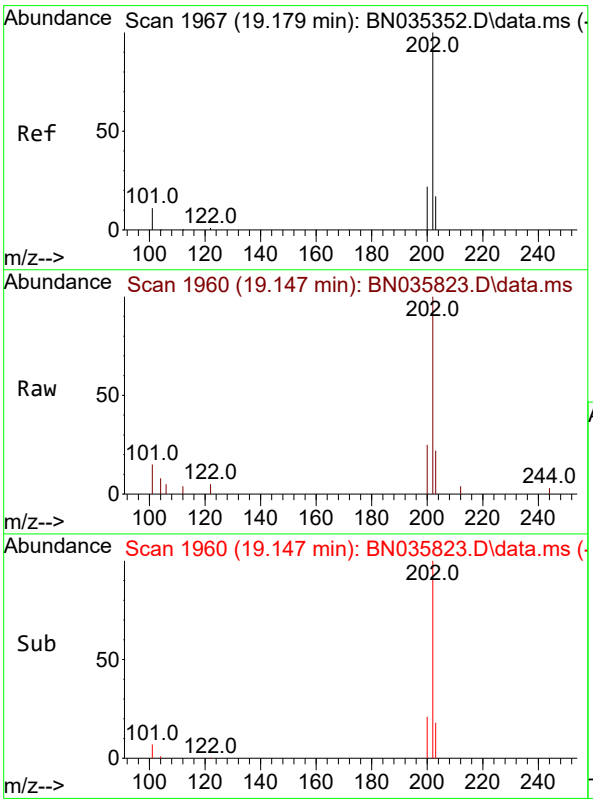

#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01D-20241218

Tgt Ion:240 Resp: 9968

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 12.2 | 7.9 | 11.9# |
| 236 | 28.5 | 22.9 | 34.3 |

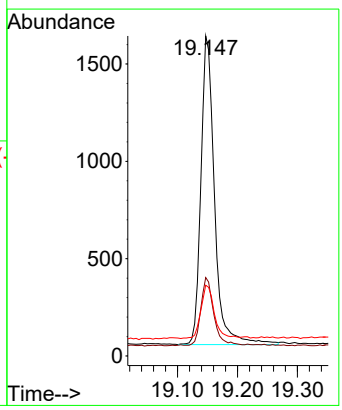


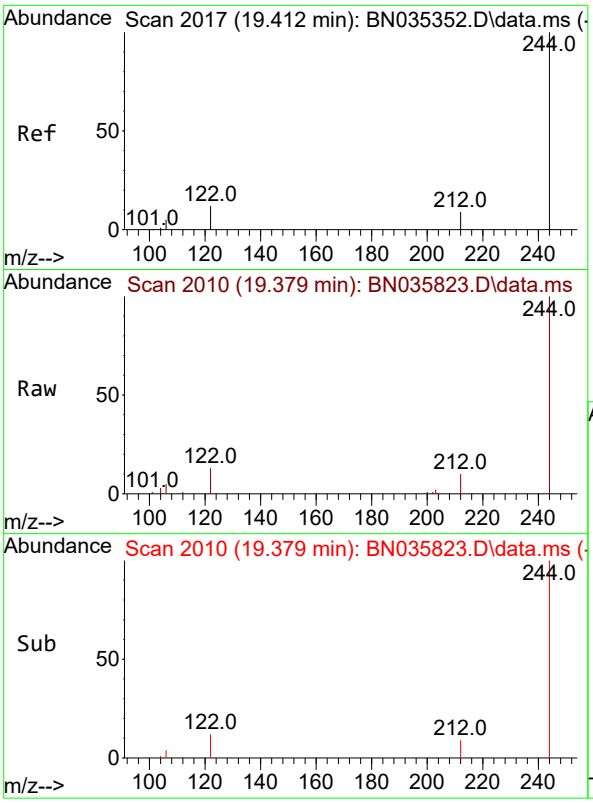




#30
Pyrene
Concen: 0.068 ng
RT: 19.147 min Scan# 1960
Delta R.T. -0.014 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

Tgt Ion:202 Resp: 2504

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 20.4 | 17.0 | 25.4 |
| 203 | 17.0 | 14.3 | 21.5 |



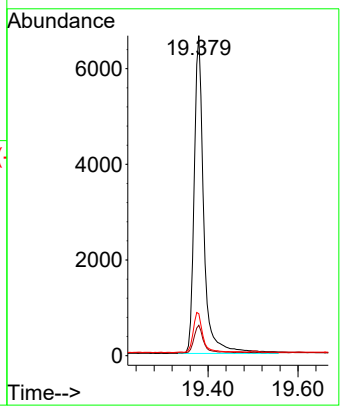


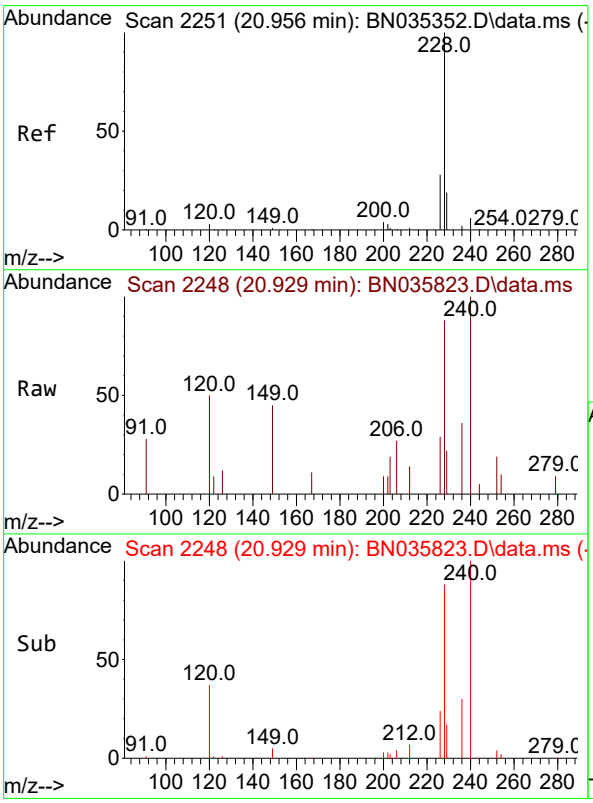

#31
Terphenyl-d14
Concen: 0.502 ng
RT: 19.379 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01D-20241218

Tgt Ion:244 Resp: 9869

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 9.5 | 8.1 | 12.1 |
| 122 | 13.1 | 10.3 | 15.5 |

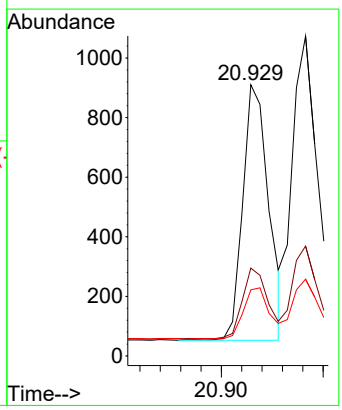


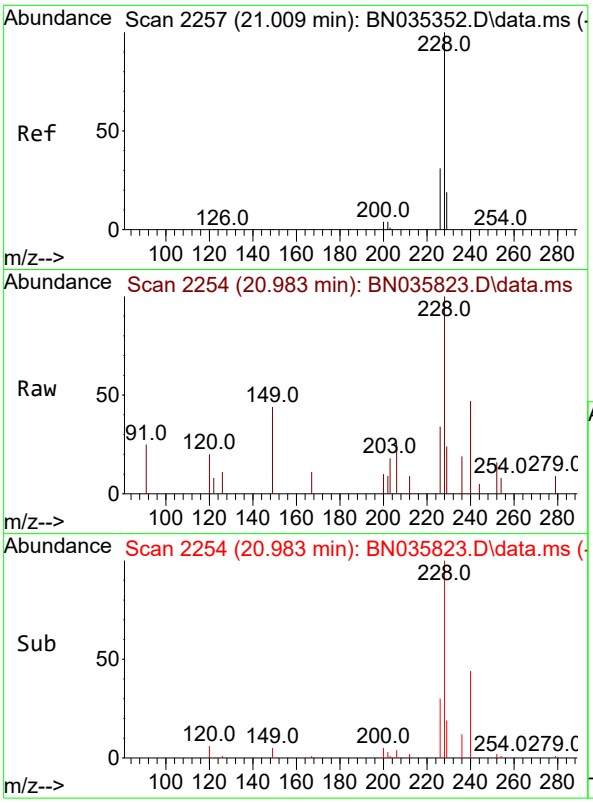




#32
Benzo(a)anthracene
Concen: 0.043 ng
RT: 20.929 min Scan# 2248
Delta R.T. -0.009 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

Tgt Ion:228 Resp: 1508

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 32.4 | 22.5 | 33.7 |
| 229 | 24.4 | 15.8 | 23.8# |



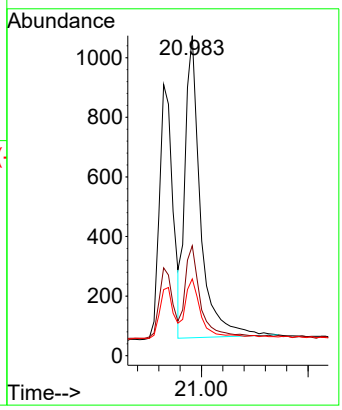


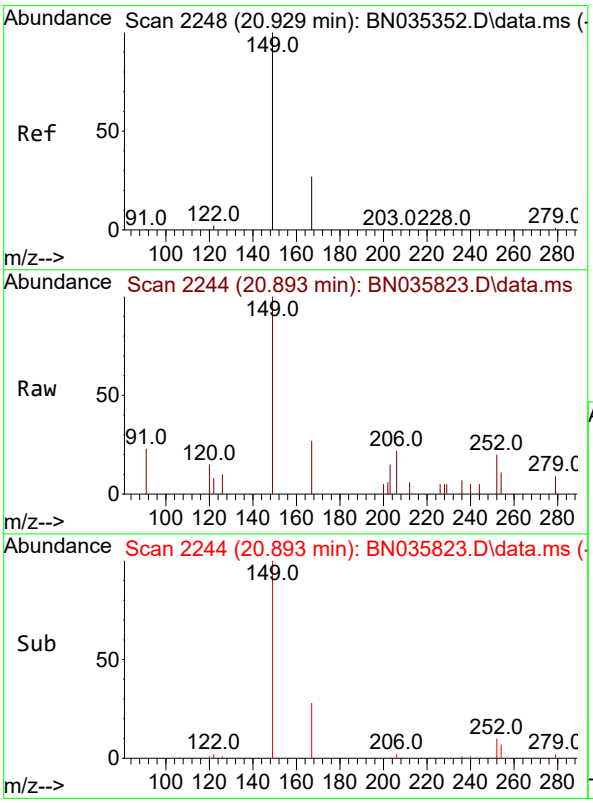

#33
Chrysene
Concen: 0.056 ng
RT: 20.983 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01D-20241218

Tgt Ion:228 Resp: 2026

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 34.4 | 24.6 | 37.0 |
| 229 | 24.0 | 15.9 | 23.9# |

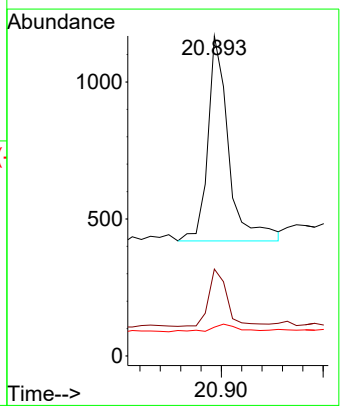


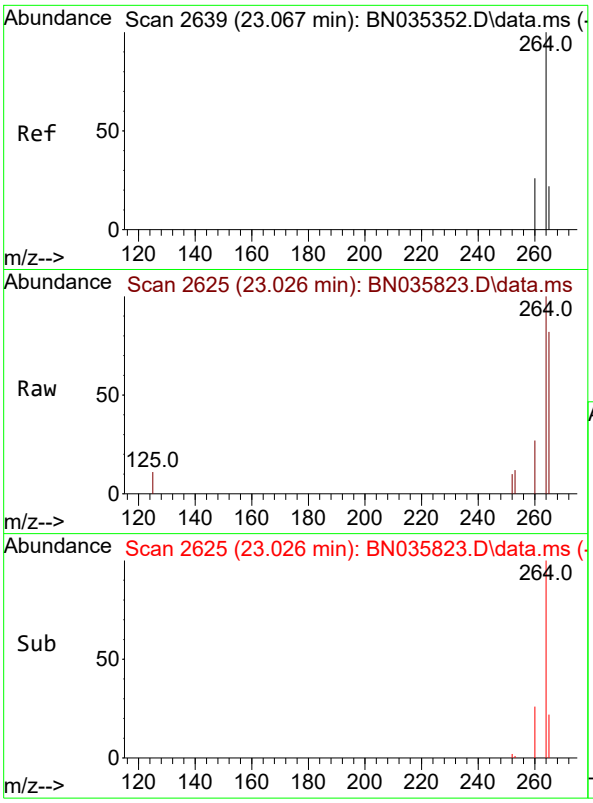




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.077 ng
RT: 20.893 min Scan# 2244
Delta R.T. -0.018 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

Tgt Ion:149 Resp: 1059

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 24.9 | 22.2 | 33.4 |
| 279 | 5.1 | 2.7 | 4.1# |



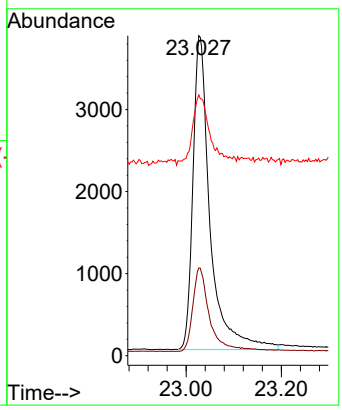


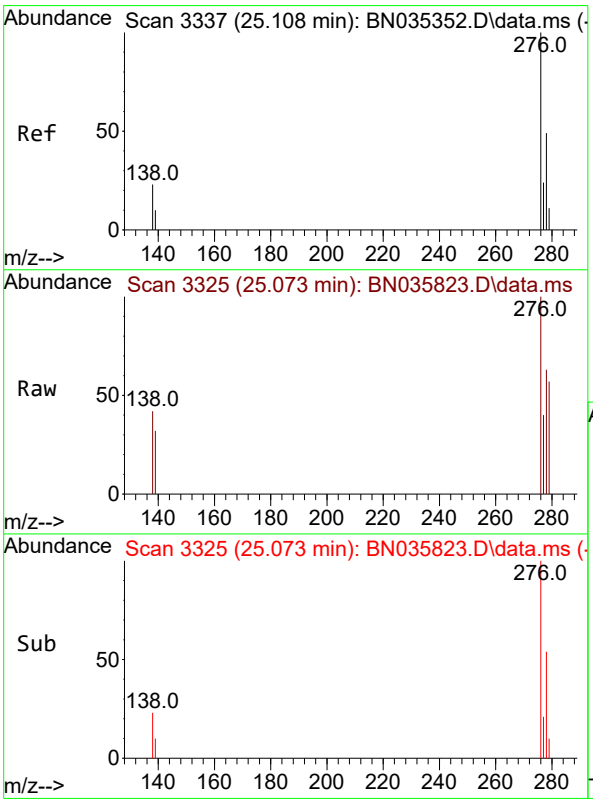

#35
Perylene-d12
Concen: 0.400 ng
RT: 23.026 min Scan# 2
Delta R.T. -0.015 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01D-20241218

Tgt Ion:264 Resp: 9568

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 27.4 | 21.4 | 32.2 |
| 265 | 81.5 | 40.2 | 60.4# |

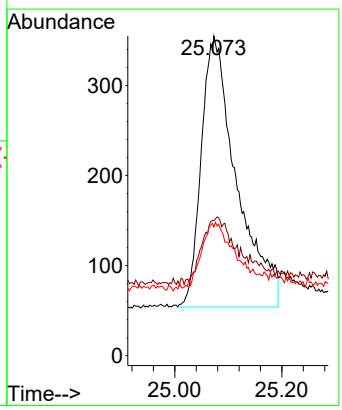


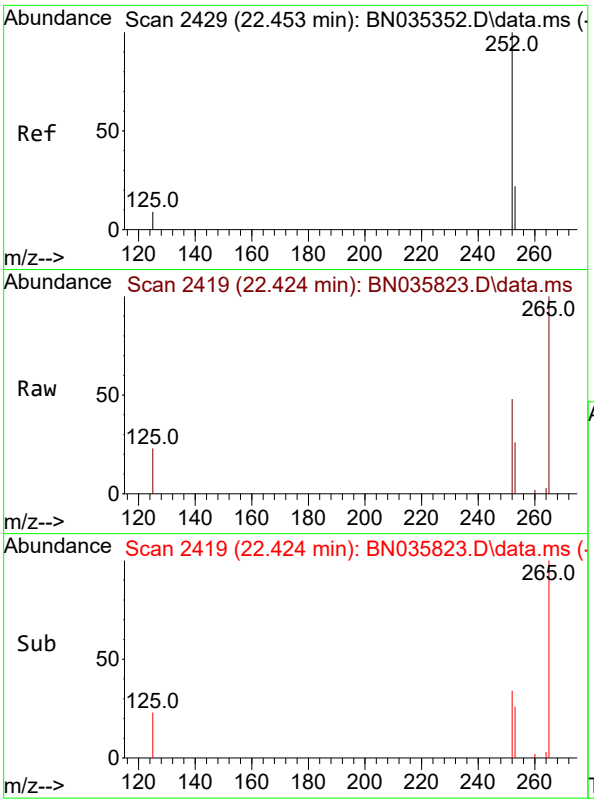




#36
Indeno(1,2,3-cd)pyrene
Concen: 0.037 ng
RT: 25.073 min Scan# 3325
Delta R.T. 0.006 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

Tgt Ion:276 Resp: 1384

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 22.6 | 19.4 | 29.0 |
| 277 | 8.7 | 19.8 | 29.6# |



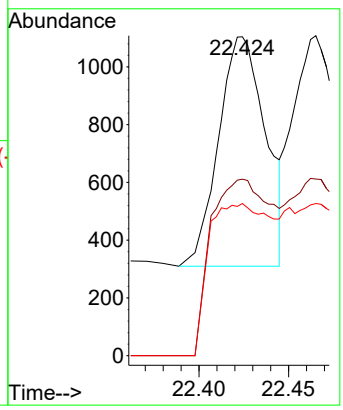


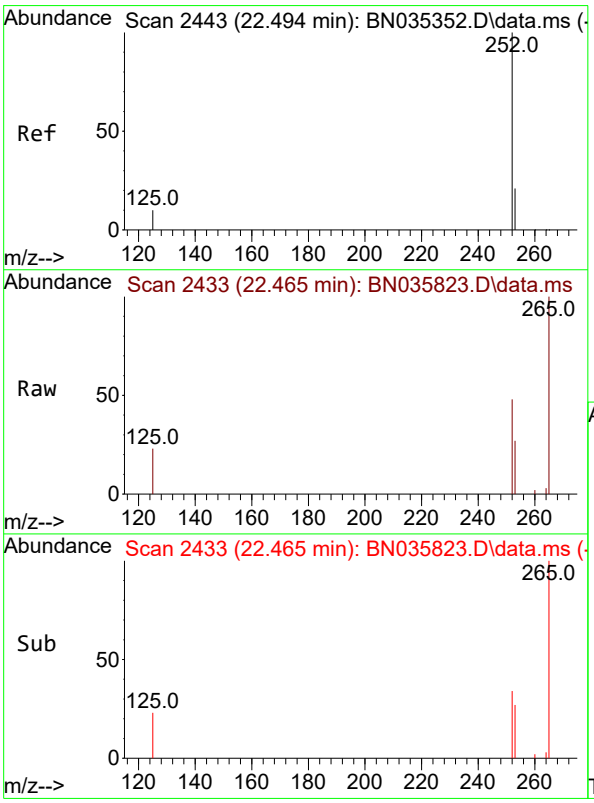

#37
Benzo(b)fluoranthene
Concen: 0.050 ng
RT: 22.424 min Scan# 24
Delta R.T. -0.006 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01D-20241218

Tgt Ion:252 Resp: 1754

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 55.3 | 19.6 | 29.4# |
| 125 | 47.7 | 9.6 | 14.4# |

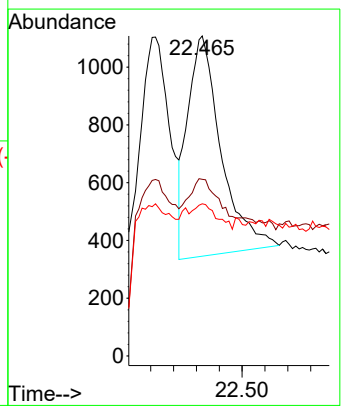


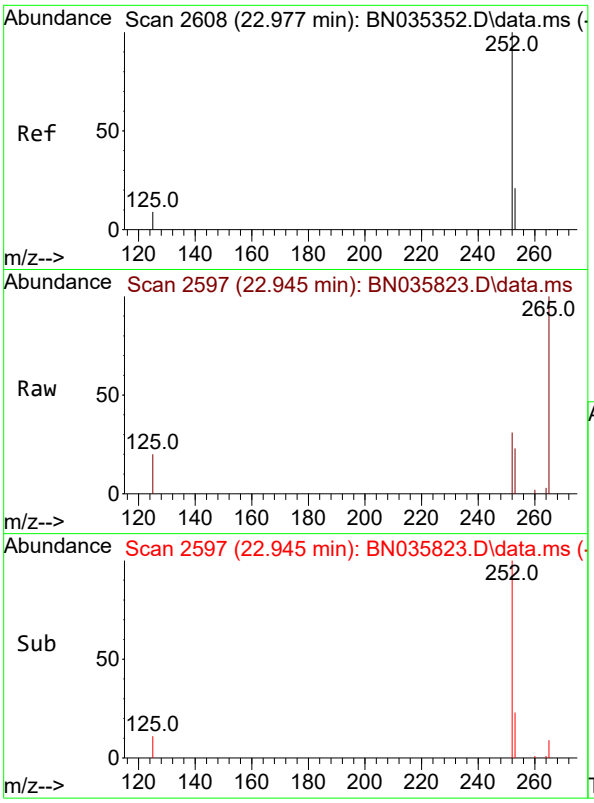




#38
Benzo(k)fluoranthene
Concen: 0.045 ng
RT: 22.465 min Scan# 2433
Delta R.T. -0.006 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

Tgt Ion:252 Resp: 1557

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 55.2 | 19.5 | 29.3# |
| 125 | 47.6 | 10.2 | 15.4# |



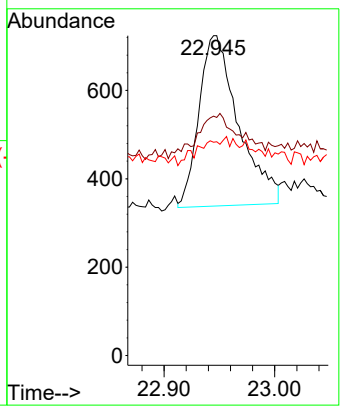


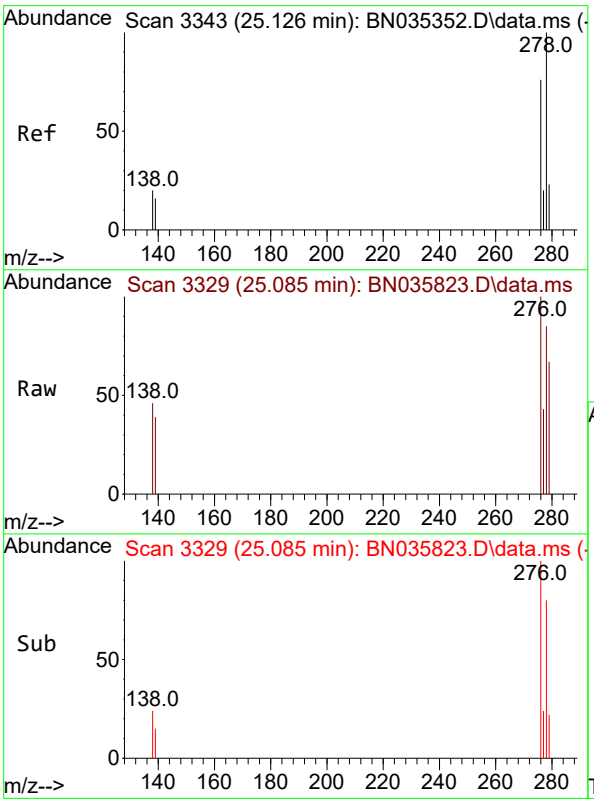

#39
Benzo(a)pyrene
Concen: 0.033 ng
RT: 22.945 min Scan# 2
Delta R.T. -0.006 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01D-20241218

Tgt Ion:252 Resp: 959

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 74.9 | 20.2 | 30.4# |
| 125 | 66.7 | 10.9 | 16.3# |

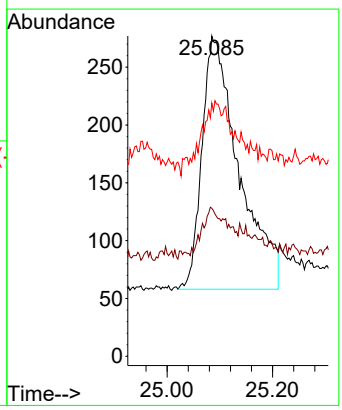


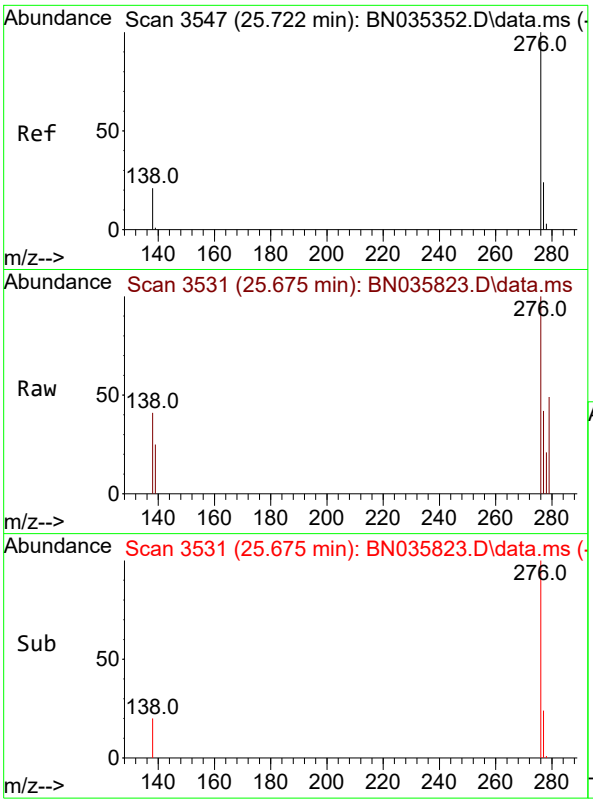




#40
Dibenzo(a,h)anthracene
Concen: 0.036 ng
RT: 25.085 min Scan# 3329
Delta R.T. 0.003 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

Tgt Ion:278 Resp: 1067

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 46.2 | 14.2 | 21.4# |
| 279 | 79.1 | 20.5 | 30.7# |



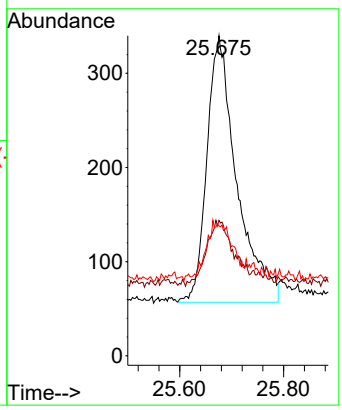



#41
Benzo(g,h,i)perylene
Concen: 0.037 ng
RT: 25.675 min Scan# 3
Delta R.T. -0.003 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

**Instrument :**
BNA_N
**ClientSampleId :**
RW10-MW01D-20241218

Tgt Ion:276 Resp: 1130

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 42.4 | 19.9 | 29.9# |
| 138 | 40.6 | 17.8 | 26.8# |



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035824.D
Acq On : 24 Dec 2024 16:42
Operator : RC/JU
Sample : P5376-11
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
RW10A-MW01S-20241218

Quant Time: Dec 24 23:19:48 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.257 | 152 | 3542 | 0.400 | ng | -0.01 |
| 7) Naphthalene-d8 | 10.009 | 136 | 8575 | 0.400 | ng | #-0.01 |
| 13) Acenaphthene-d10 | 13.925 | 164 | 5533 | 0.400 | ng | -0.01 |
| 19) Phenanthrene-d10 | 16.698 | 188 | 11307 | 0.400 | ng | # 0.00 |
| 29) Chrysene-d12 | 20.947 | 240 | 9270 | 0.400 | ng | 0.00 |
| 35) Perylene-d12 | 23.029 | 264 | 9119 | 0.400 | ng | #-0.01 |
| System Monitoring Compounds | | | | | | |
| 4) 2-Fluorophenol | 4.924 | 112 | 827 | 0.093 | ng | -0.01 |
| 5) Phenol-d6 | 6.477 | 99 | 397 | 0.037 | ng | -0.01 |
| 8) Nitrobenzene-d5 | 8.397 | 82 | 2265 | 0.432 | ng | -0.01 |
| 11) 2-Methylnaphthalene-d10 | 11.611 | 152 | 4576 | 0.341 | ng | -0.01 |
| 14) 2,4,6-Tribromophenol | 15.443 | 330 | 766 | 0.195 | ng | -0.01 |
| 15) 2-Fluorobiphenyl | 12.528 | 172 | 7209 | 0.345 | ng | -0.02 |
| 27) Fluoranthene-d10 | 18.747 | 212 | 12883 | 0.402 | ng | -0.01 |
| 31) Terphenyl-d14 | 19.379 | 244 | 9501 | 0.520 | ng | 0.00 |
| Target Compounds | | | | | | Qvalue |
| 2) 1,4-Dioxane | 2.982 | 88 | 493 | 0.146 | ng | # 73 |
| 9) Naphthalene | 10.052 | 128 | 803 | 0.036 | ng | # 72 |
| 12) 2-Methylnaphthalene | 11.687 | 142 | 502 | 0.031 | ng | # 79 |
| 16) Acenaphthylene | 13.636 | 152 | 877 | 0.038 | ng | 96 |
| 17) Acenaphthene | 13.978 | 154 | 539 | 0.035 | ng | 98 |
| 18) Fluorene | 14.994 | 166 | 778 | 0.035 | ng | 96 |
| 25) Phenanthrene | 16.736 | 178 | 1755 | 0.057 | ng | 100 |
| 26) Anthracene | 16.835 | 178 | 1113 | 0.040 | ng | 97 |
| 28) Fluoranthene | 18.780 | 202 | 1804 | 0.043 | ng | # 97 |
| 30) Pyrene | 19.147 | 202 | 1807 | 0.053 | ng | 99 |
| 32) Benzo(a)anthracene | 20.929 | 228 | 1100 | 0.034 | ng | # 87 |
| 33) Chrysene | 20.983 | 228 | 1514 | 0.045 | ng | # 91 |
| 34) Bis(2-ethylhexyl)phtha... | 20.893 | 149 | 988 | 0.077 | ng | # 97 |
| 37) Benzo(b)fluoranthene | 22.424 | 252 | 1409 | 0.042 | ng | # 22 |
| 38) Benzo(k)fluoranthene | 22.465 | 252 | 1028 | 0.031 | ng | # 18 |
| 39) Benzo(a)pyrene | 22.945 | 252 | 820 | 0.030 | ng | # 1 |
| 40) Dibenzo(a,h)anthracene | 25.096 | 278 | 685 | 0.024 | ng | # 1 |
| 41) Benzo(g,h,i)perylene | 25.675 | 276 | 816 | 0.028 | ng | # 50 |

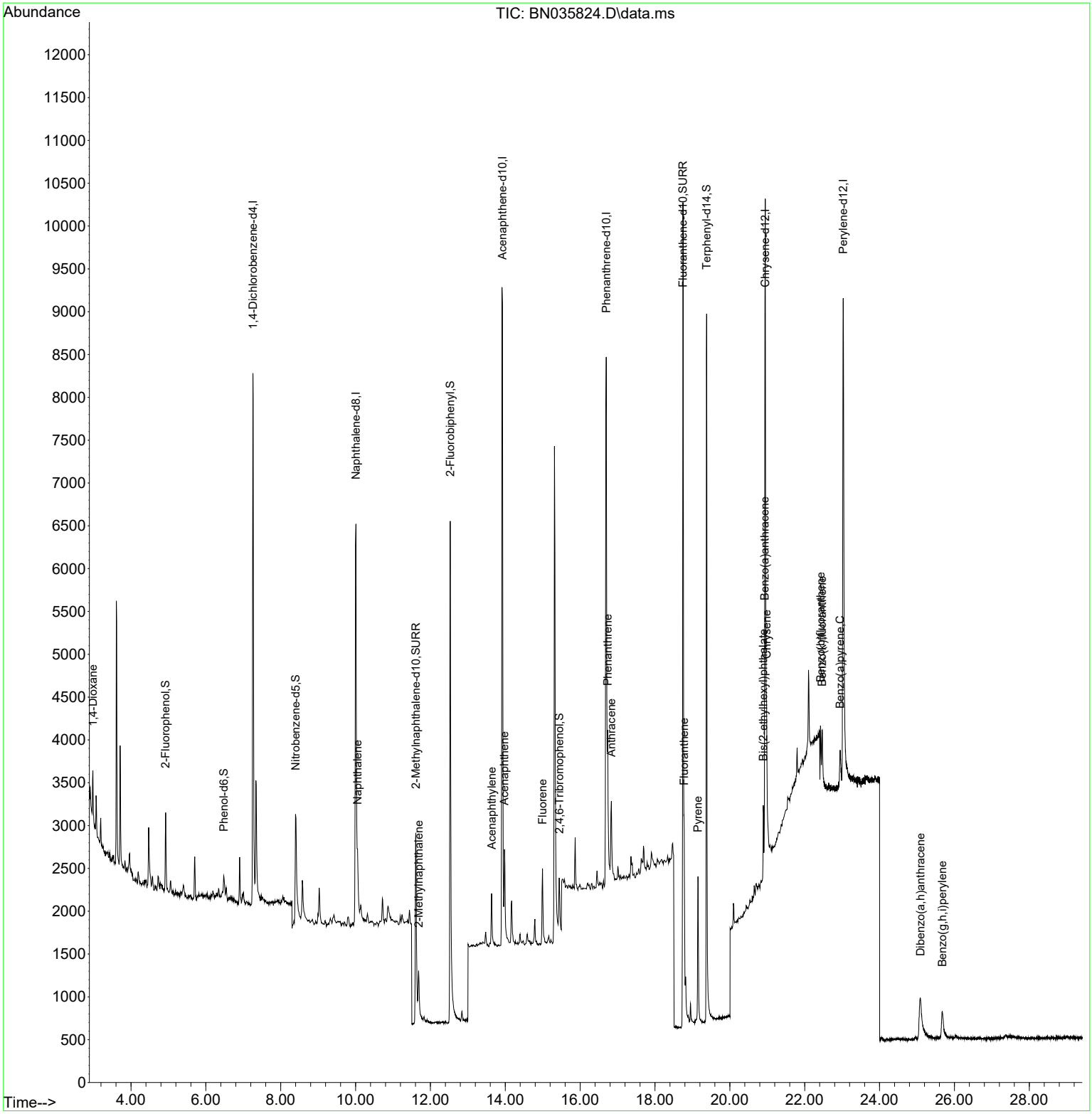
(#) = qualifier out of range (m) = manual integration (+) = signals summed

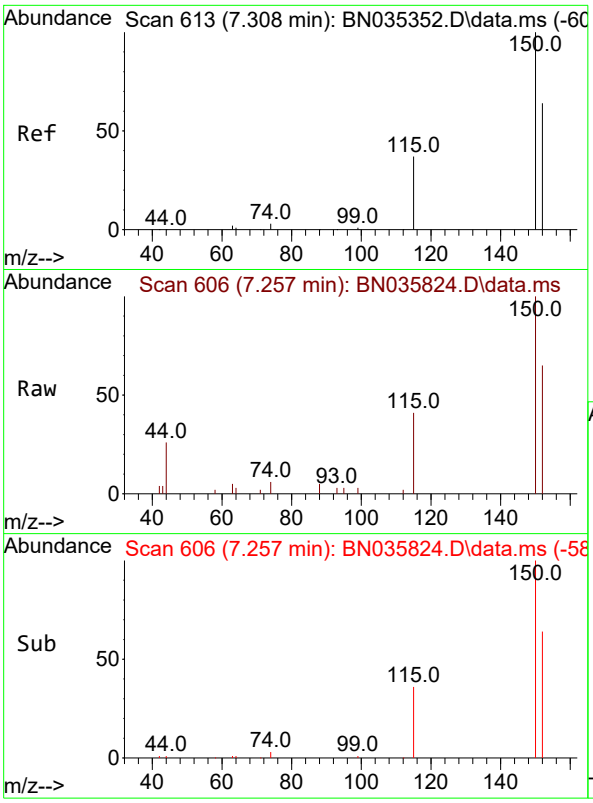
Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035824.D
Acq On : 24 Dec 2024 16:42
Operator : RC/JU
Sample : P5376-11
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
RW10A-MW01S-20241218

Quant Time: Dec 24 23:19:48 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



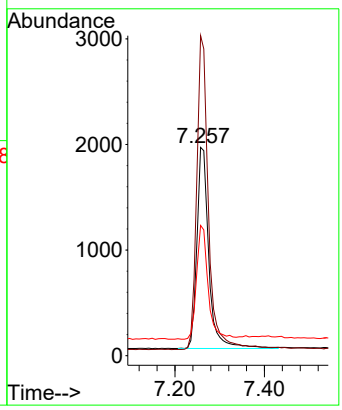


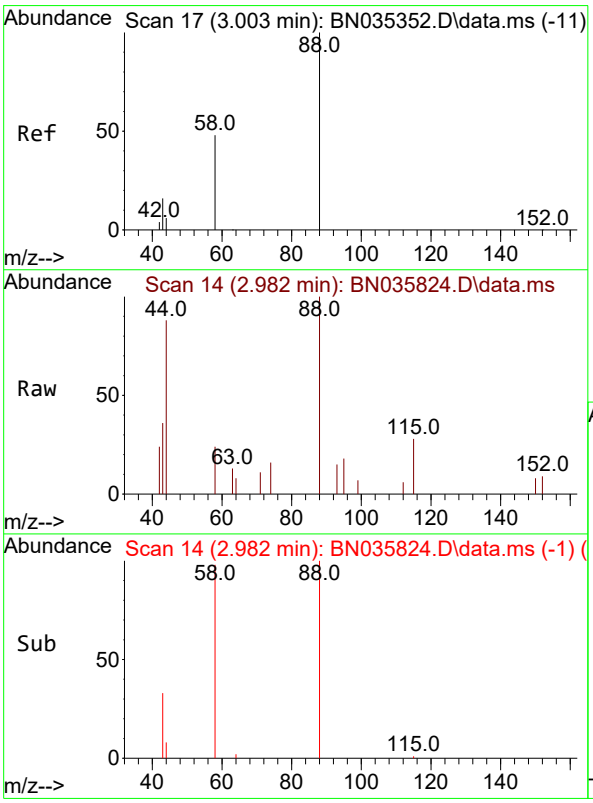

#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 6
Delta R.T. -0.015 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

**Instrument :**
BNA_N
**ClientSampleId :**
RW10A-MW01S-20241218

Tgt Ion:152 Resp: 3542

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 153.6 | 124.0 | 186.0 |
| 115 | 62.5 | 49.6 | 74.4 |

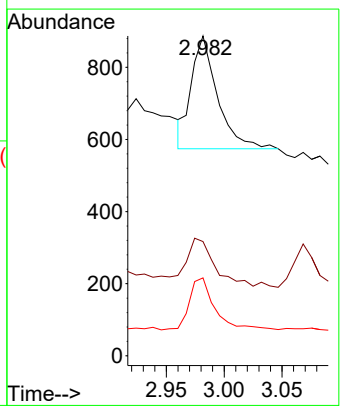


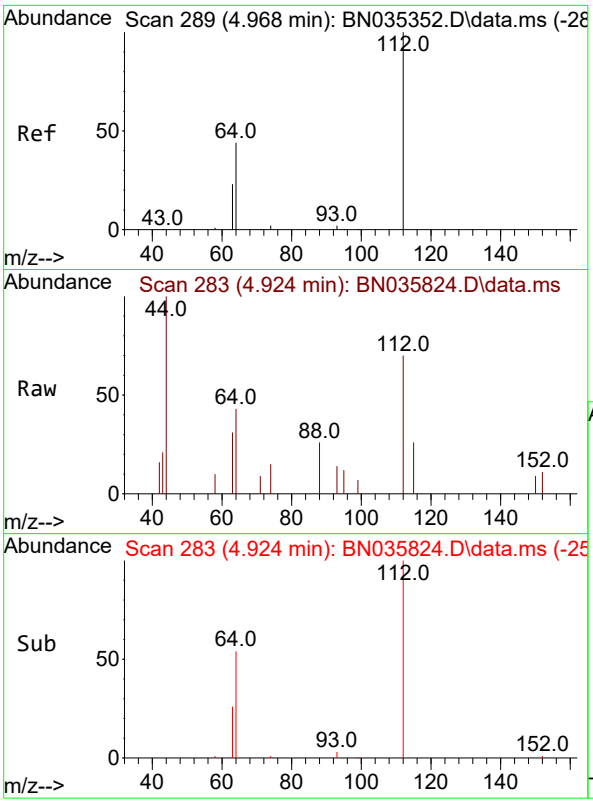




#2
1,4-Dioxane
Concen: 0.146 ng
RT: 2.982 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

Tgt Ion: 88 Resp: 493

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 49.5 | 17.2 | 25.8# |
| 58 | 44.6 | 44.5 | 66.7 |



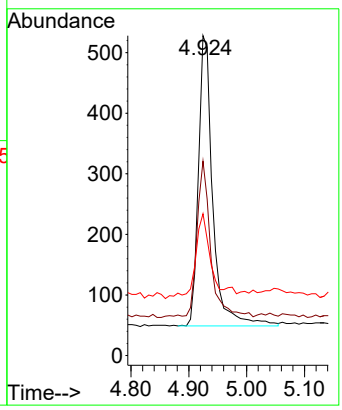


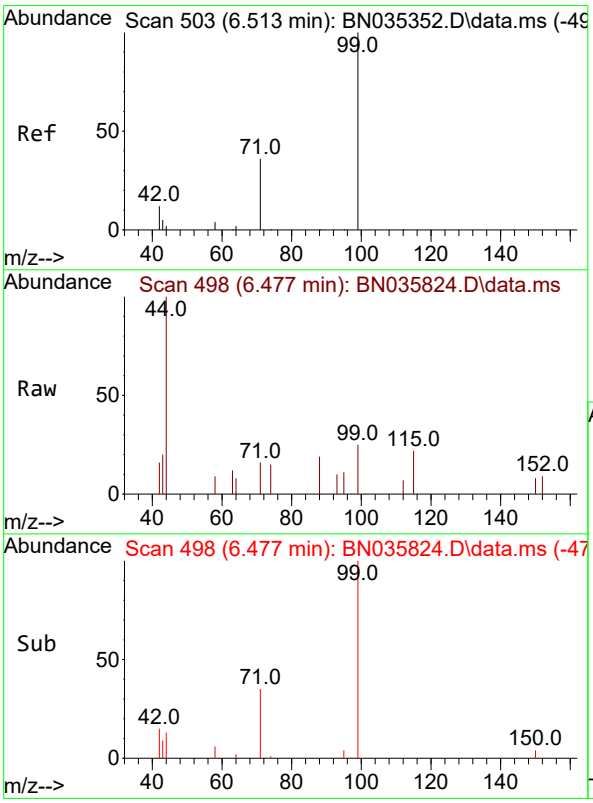

#4
2-Fluorophenol
Concen: 0.093 ng
RT: 4.924 min Scan# 2
Delta R.T. -0.015 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

**Instrument :**
BNA_N
**ClientSampleId :**
RW10A-MW01S-20241218

Tgt Ion:112 Resp: 827

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 51.9 | 39.8 | 59.8 |
| 63 | 29.9 | 21.0 | 31.6 |

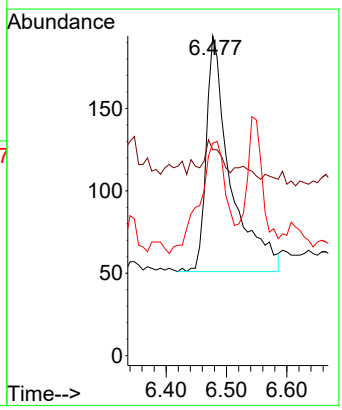


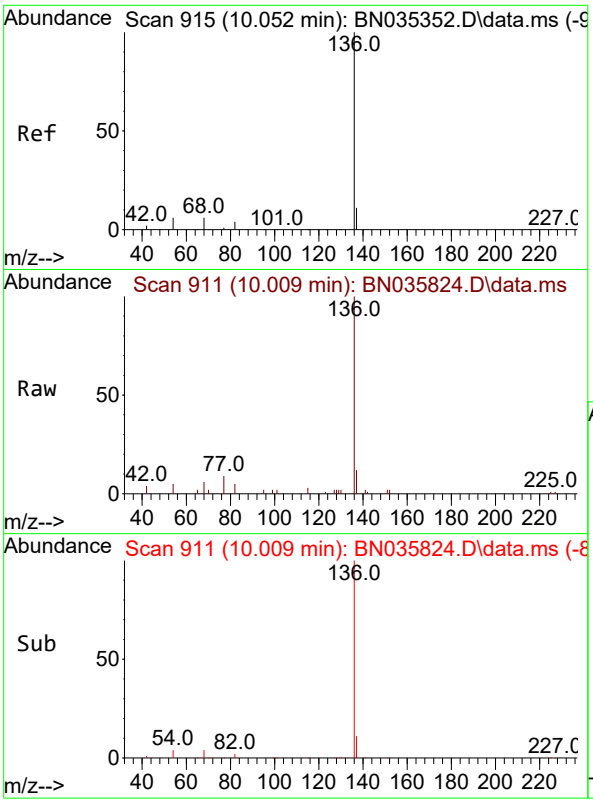




#5
Phenol-d6
Concen: 0.037 ng
RT: 6.477 min Scan# 498
Delta R.T. -0.015 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

Tgt Ion: 99 Resp: 397

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 14.6 | 11.4 | 17.2 |
| 71 | 52.1 | 29.3 | 43.9# |



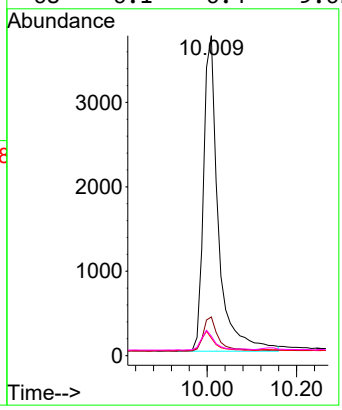


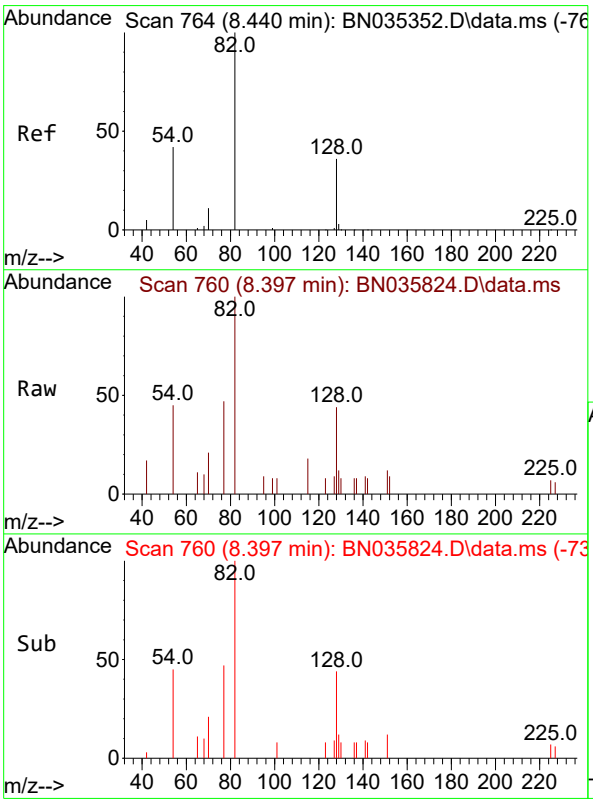

#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

**Instrument :**
BNA_N
**ClientSampleId :**
RW10A-MW01S-20241218

Tgt Ion:136 Resp: 8575

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 12.1 | 10.2 | 15.2 |
| 54 | 5.5 | 6.1 | 9.1# |
| 68 | 6.1 | 6.4 | 9.6# |

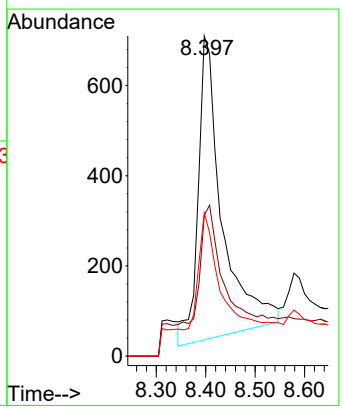


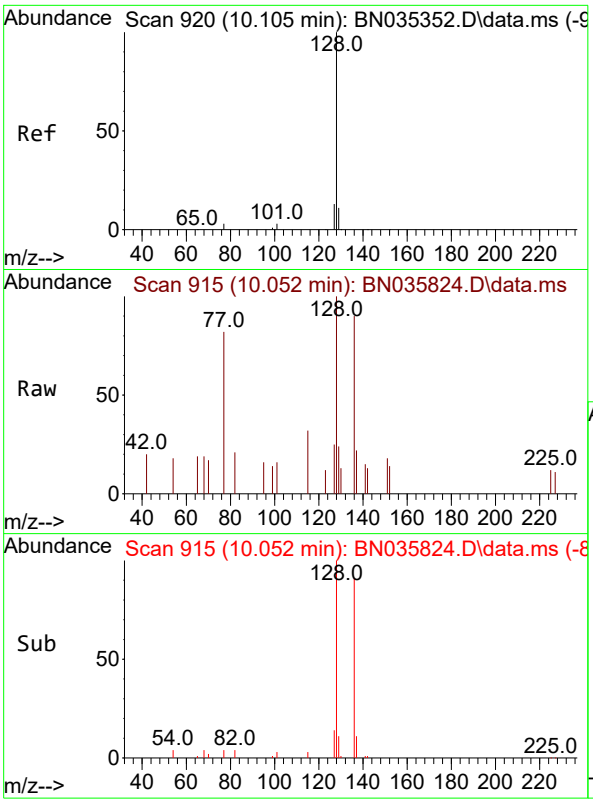




#8
Nitrobenzene-d5
Concen: 0.432 ng
RT: 8.397 min Scan# 760
Delta R.T. -0.011 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

Tgt Ion: 82 Resp: 2265

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 43.9 | 33.4 | 50.0 |
| 54 | 44.8 | 36.7 | 55.1 |



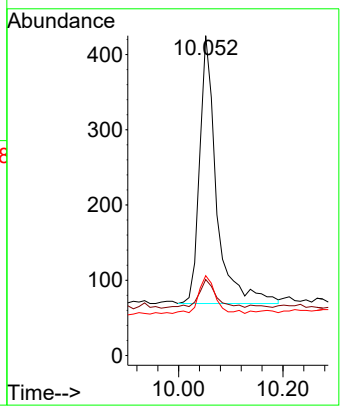


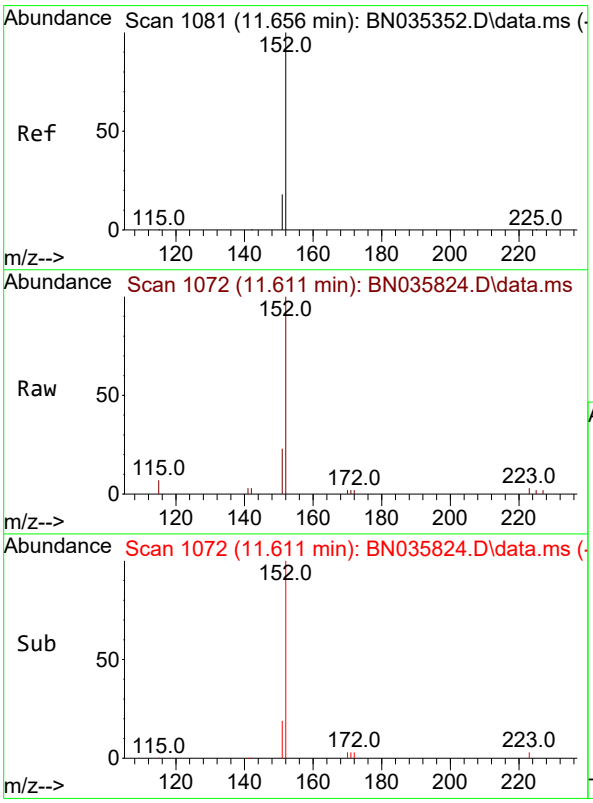

#9
Naphthalene
Concen: 0.036 ng
RT: 10.052 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

**Instrument :**
BNA_N
**ClientSampleId :**
RW10A-MW01S-20241218

Tgt Ion:128 Resp: 803

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 23.8 | 9.8 | 14.6# |
| 127 | 24.9 | 11.4 | 17.2# |

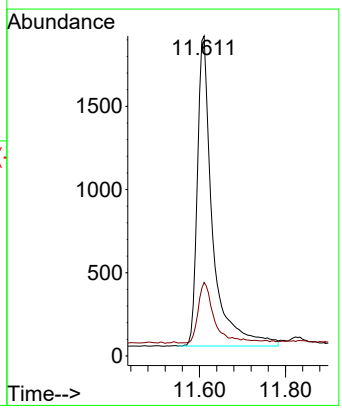


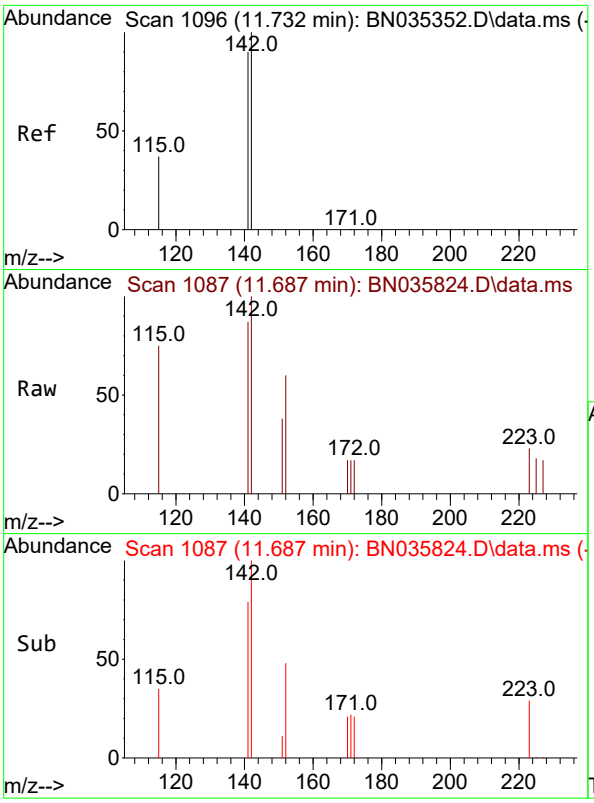




#11
2-Methylnaphthalene-d10
Concen: 0.341 ng
RT: 11.611 min Scan# 1072
Delta R.T. -0.010 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

Tgt Ion:152 Resp: 4576

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 19.6 | 16.6 | 25.0 |



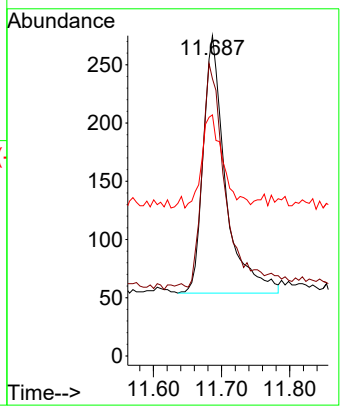


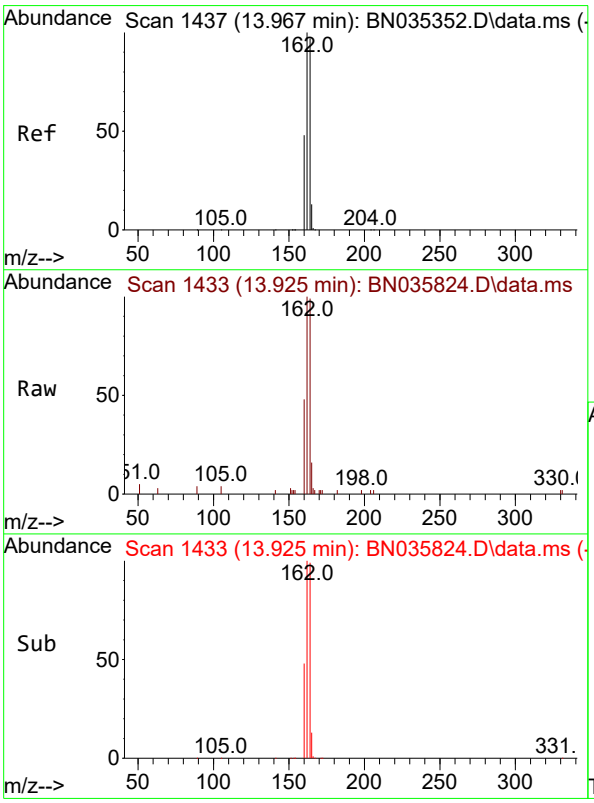

#12
2-Methylnaphthalene
Concen: 0.031 ng
RT: 11.687 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

**Instrument :**
BNA_N
**ClientSampleId :**
RW10A-MW01S-20241218

Tgt Ion:142 Resp: 502

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 86.5 | 72.2 | 108.4 |
| 115 | 75.3 | 31.4 | 47.0# |

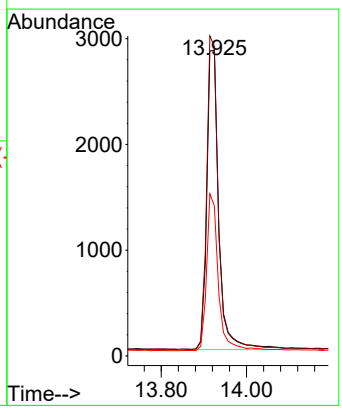


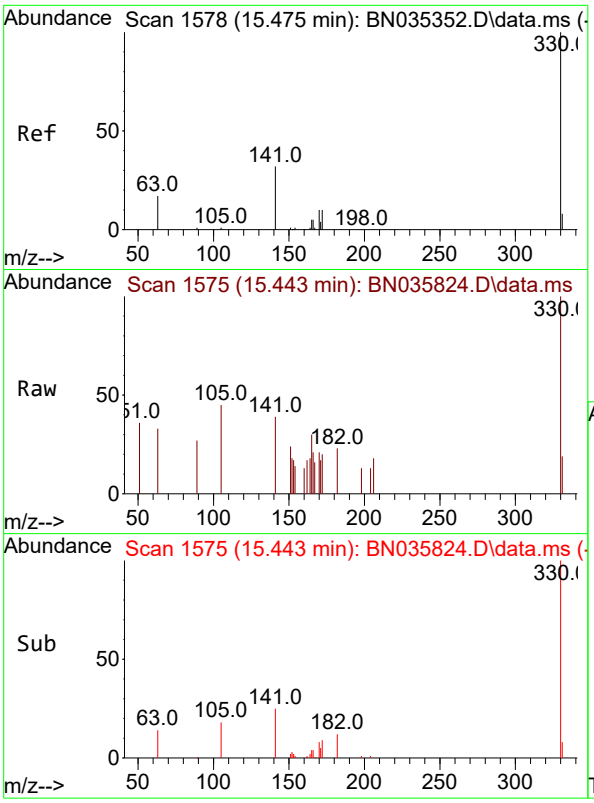




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.925 min Scan# 1433
Delta R.T. -0.011 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

Tgt Ion:164 Resp: 5533

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 101.2 | 82.2 | 123.2 |
| 160 | 49.1 | 40.1 | 60.1 |



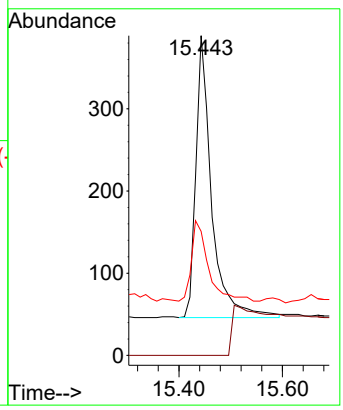


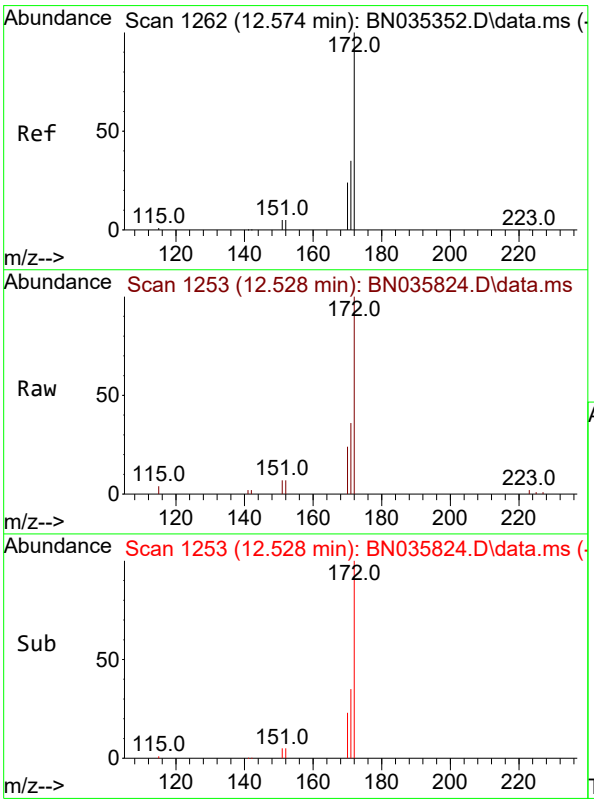

#14
2,4,6-Tribromophenol
Concen: 0.195 ng
RT: 15.443 min Scan# 1
Delta R.T. -0.011 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

**Instrument :**
BNA_N
**ClientSampleId :**
RW10A-MW01S-20241218

Tgt Ion:330 Resp: 766

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 0.0 | 0.0 | 0.0 |
| 141 | 29.8 | 26.6 | 40.0 |

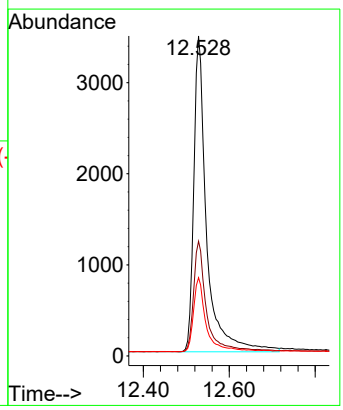


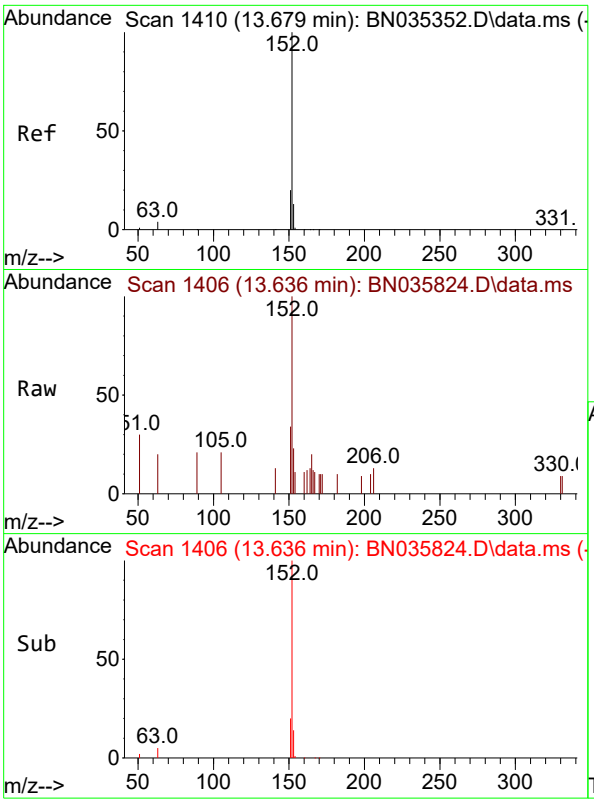




#15
2-Fluorobiphenyl
Concen: 0.345 ng
RT: 12.528 min Scan# 1253
Delta R.T. -0.015 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

Tgt Ion:172 Resp: 7209

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 35.8 | 29.0 | 43.4 |
| 170 | 24.5 | 19.8 | 29.8 |



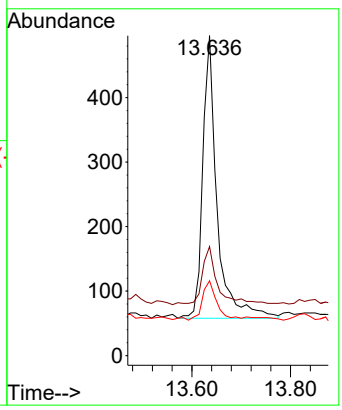


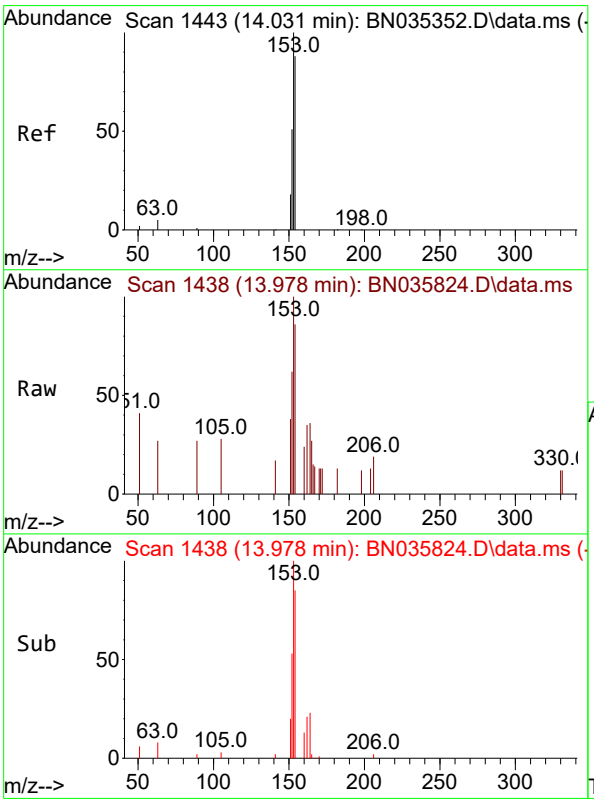

#16
Acenaphthylene
Concen: 0.038 ng
RT: 13.636 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

**Instrument :**
BNA_N
**ClientSampleId :**
RW10A-MW01S-20241218

Tgt Ion:152 Resp: 877

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 22.6 | 16.2 | 24.2 |
| 153 | 13.7 | 10.4 | 15.6 |

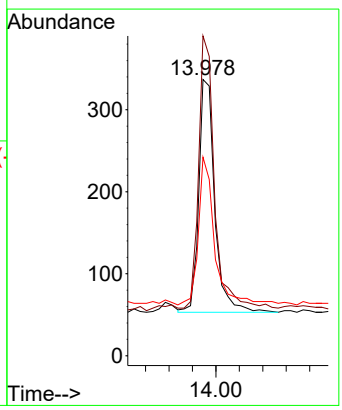


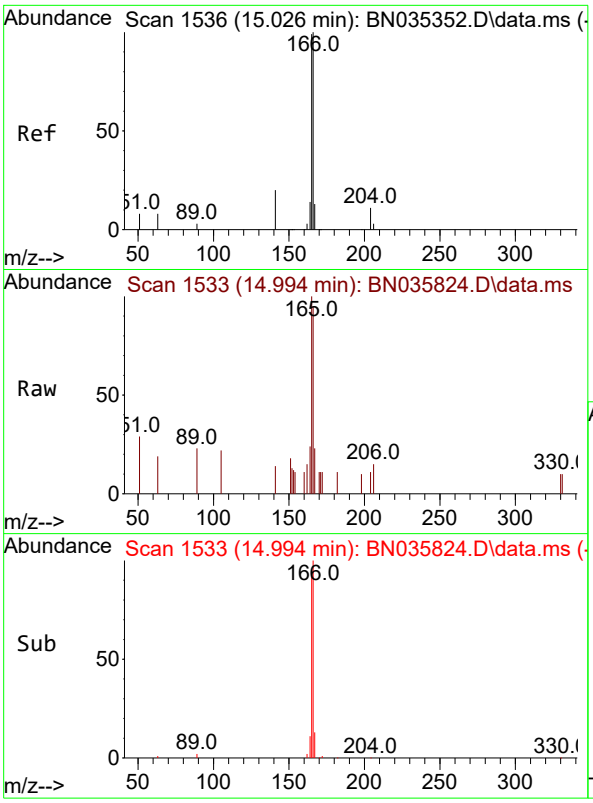




#17
Acenaphthene
Concen: 0.035 ng
RT: 13.978 min Scan# 1438
Delta R.T. -0.021 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

Tgt Ion:154 Resp: 539

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 115.6 | 92.6 | 139.0 |
| 152 | 64.9 | 49.0 | 73.6 |



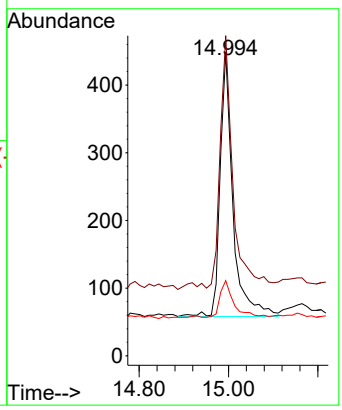


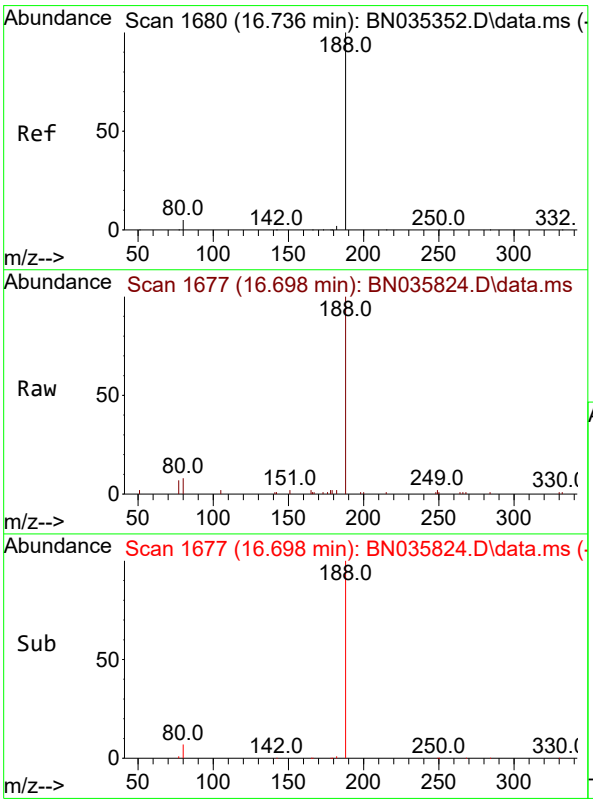

#18
Fluorene
Concen: 0.035 ng
RT: 14.994 min Scan# 1
Delta R.T. -0.011 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

**Instrument :**
BNA_N
**ClientSampleId :**
RW10A-MW01S-20241218

Tgt Ion:166 Resp: 778

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 95.8 | 79.7 | 119.5 |
| 167 | 15.2 | 10.8 | 16.2 |

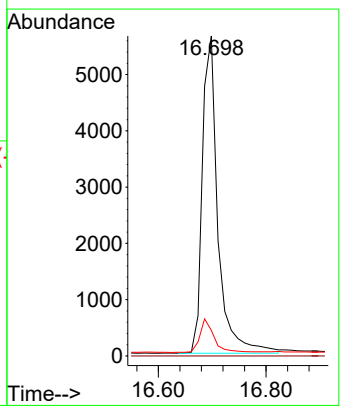


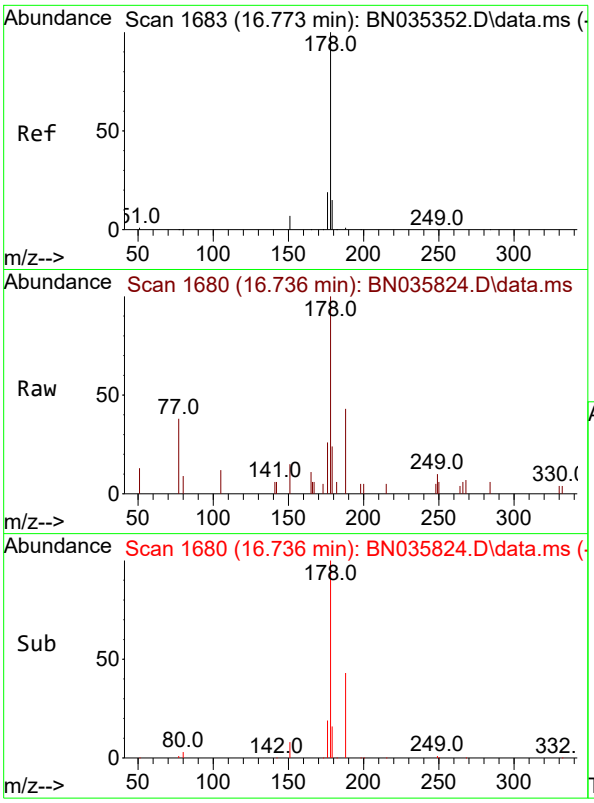




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1677
Delta R.T. -0.000 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

Tgt Ion:188 Resp: 11307

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 8.0 | 4.6 | 6.8# |



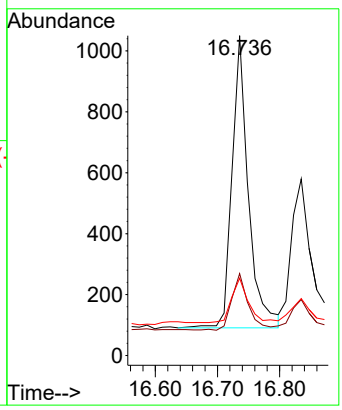


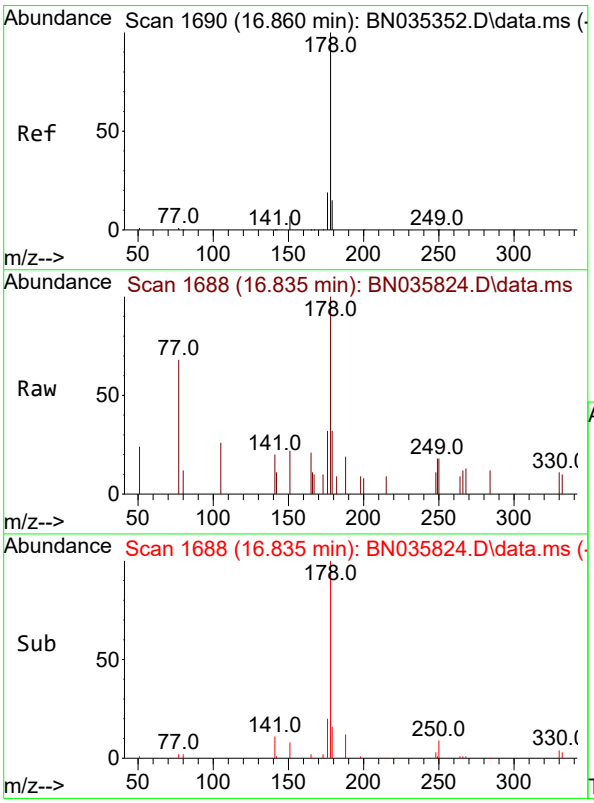

#25
Phenanthrene
Concen: 0.057 ng
RT: 16.736 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

**Instrument :**
BNA_N
**ClientSampleId :**
RW10A-MW01S-20241218

Tgt Ion:178 Resp: 1755

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.3 | 15.4 | 23.2 |
| 179 | 15.7 | 12.3 | 18.5 |

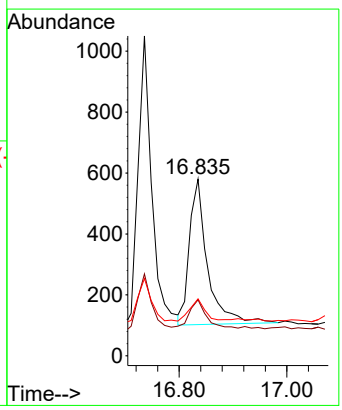


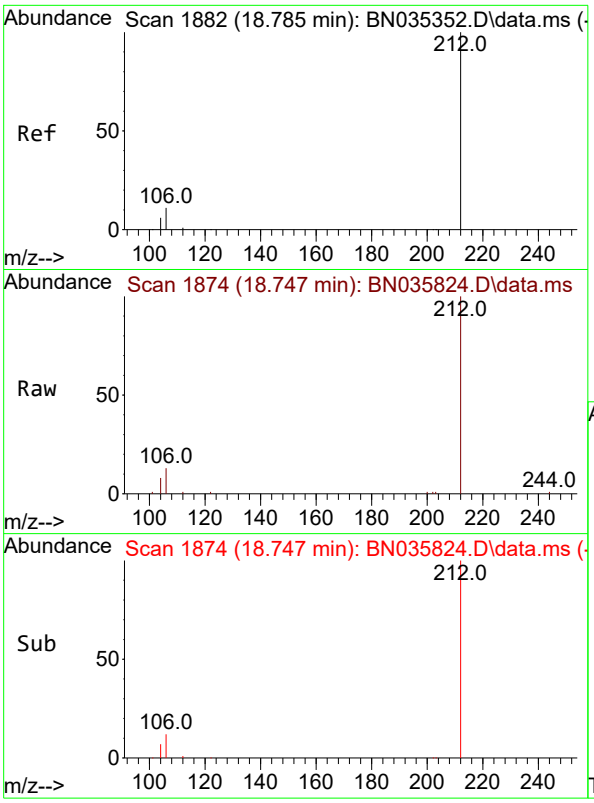




#26
Anthracene
Concen: 0.040 ng
RT: 16.835 min Scan# 1688
Delta R.T. -0.000 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

Tgt Ion:178 Resp: 1113

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.9 | 15.0 | 22.6 |
| 179 | 12.8 | 12.6 | 18.8 |



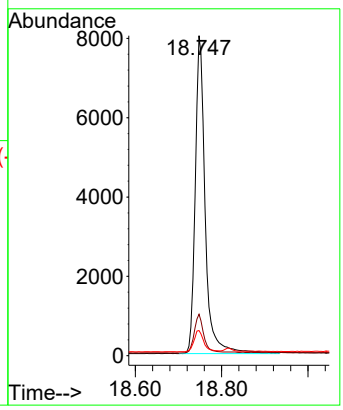


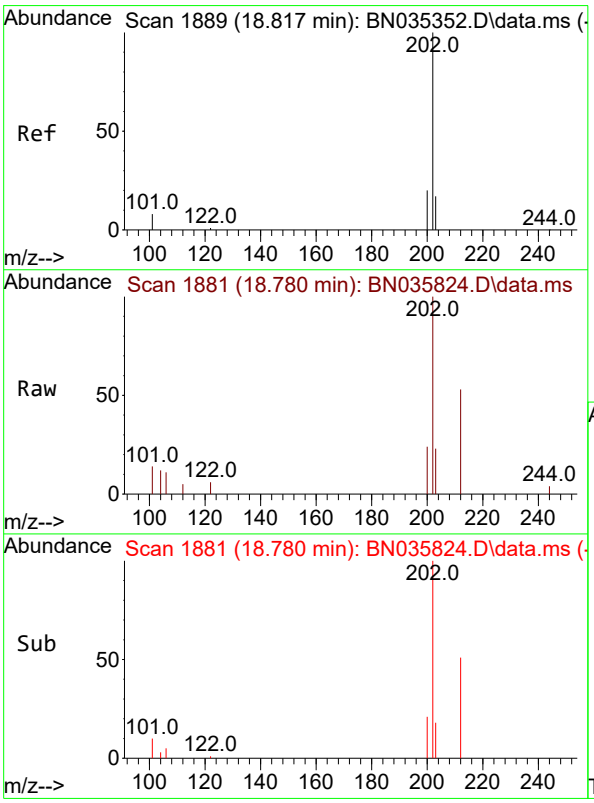

#27
Fluoranthene-d10
Concen: 0.402 ng
RT: 18.747 min Scan# 1
Delta R.T. -0.014 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

**Instrument :**
BNA_N
**ClientSampleId :**
RW10A-MW01S-20241218

Tgt Ion:212 Resp: 12883

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 11.7 | 9.2 | 13.8 |
| 104 | 6.7 | 5.3 | 7.9 |

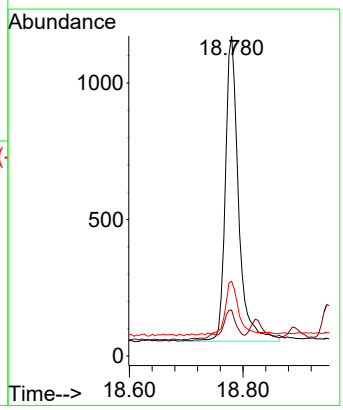


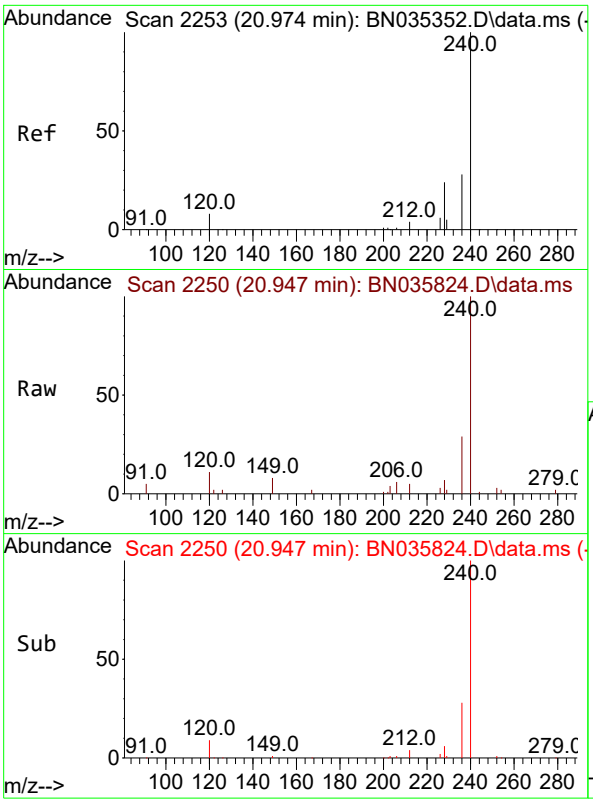




#28
Fluoranthene
Concen: 0.043 ng
RT: 18.780 min Scan# 1881
Delta R.T. -0.009 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

Tgt Ion:202 Resp: 1804

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 11.1 | 7.4 | 11.0# |
| 203 | 18.0 | 13.7 | 20.5 |



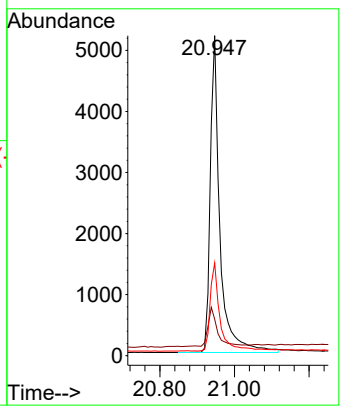


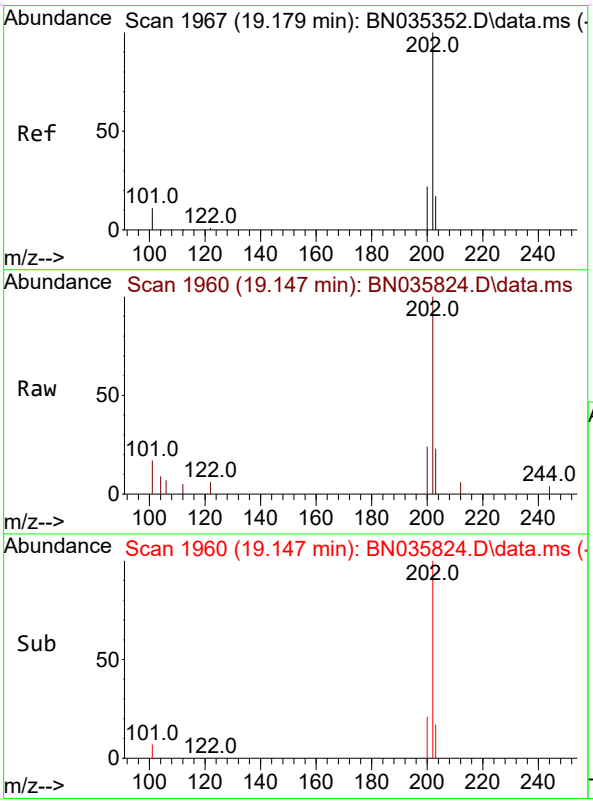

#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

**Instrument :**
BNA_N
**ClientSampleId :**
RW10A-MW01S-20241218

Tgt Ion:240 Resp: 9270

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 11.4 | 7.9 | 11.9 |
| 236 | 29.0 | 22.9 | 34.3 |

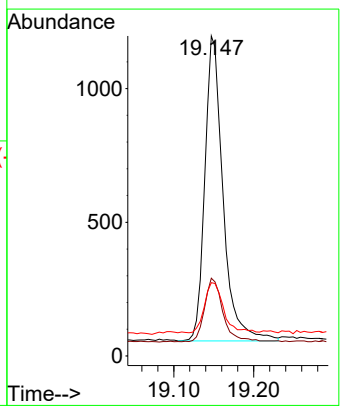


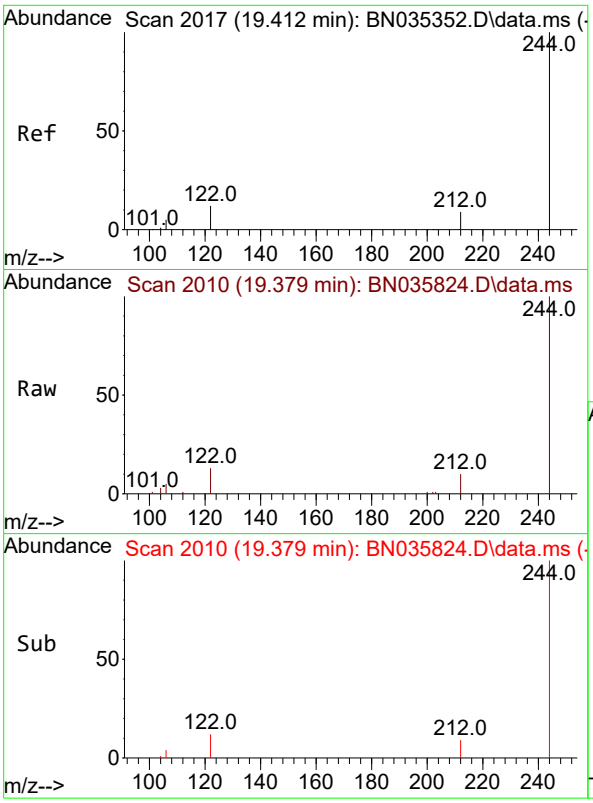




#30
Pyrene
Concen: 0.053 ng
RT: 19.147 min Scan# 1960
Delta R.T. -0.014 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

Tgt Ion:202 Resp: 1807

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 20.9 | 17.0 | 25.4 |
| 203 | 17.7 | 14.3 | 21.5 |



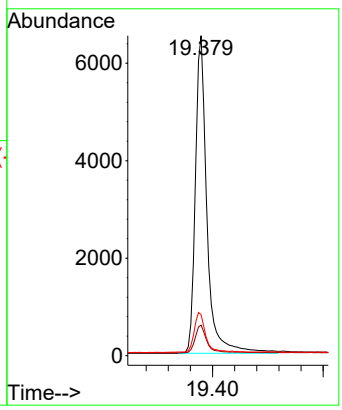


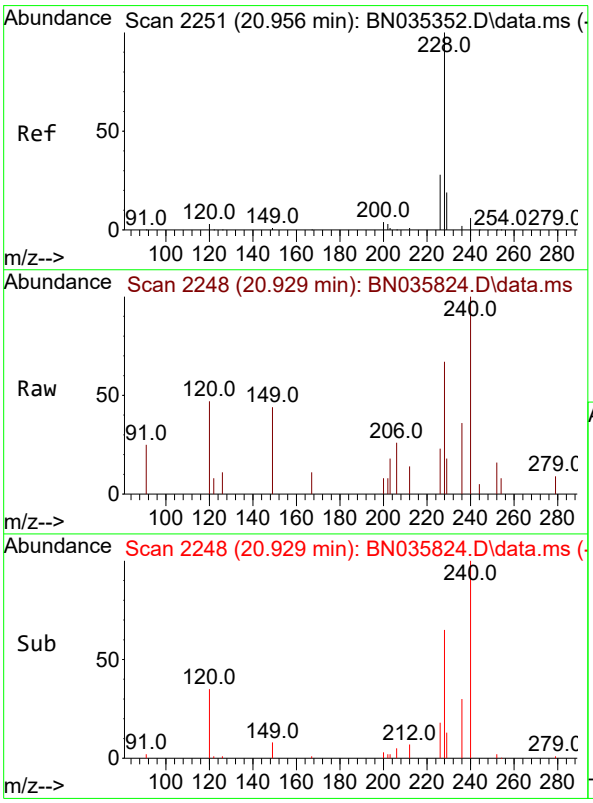

#31
Terphenyl-d14
Concen: 0.520 ng
RT: 19.379 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

**Instrument :**
BNA_N
**ClientSampleId :**
RW10A-MW01S-20241218

Tgt Ion:244 Resp: 9501

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 9.5 | 8.1 | 12.1 |
| 122 | 12.8 | 10.3 | 15.5 |

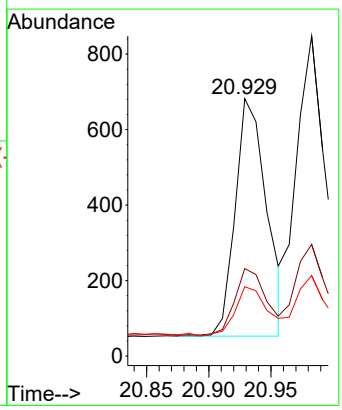


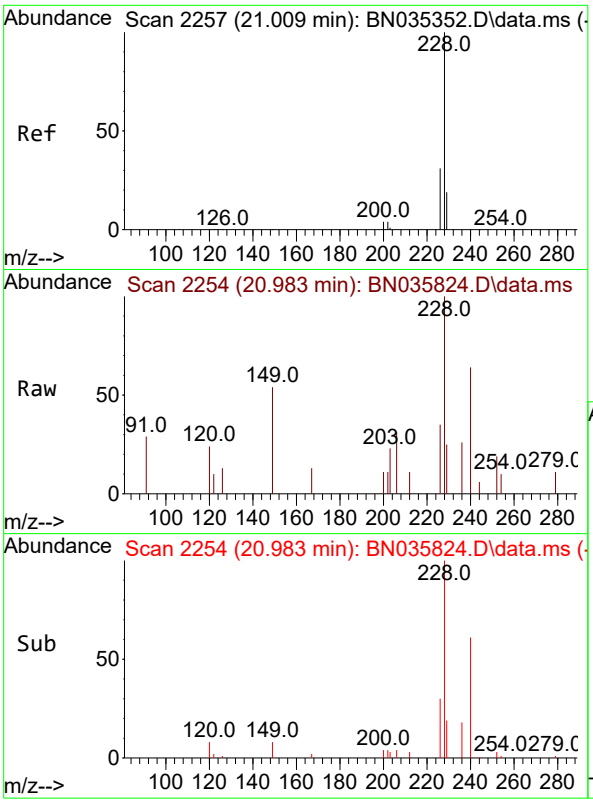




#32
Benzo(a)anthracene
Concen: 0.034 ng
RT: 20.929 min Scan# 2248
Delta R.T. -0.009 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

Tgt Ion:228 Resp: 1100

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 34.0 | 22.5 | 33.7# |
| 229 | 27.0 | 15.8 | 23.8# |



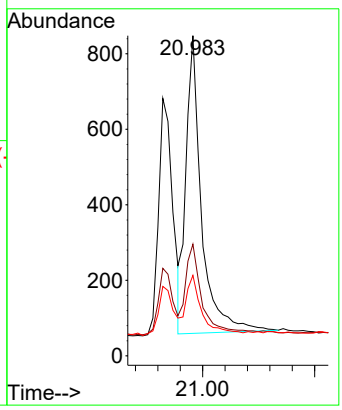


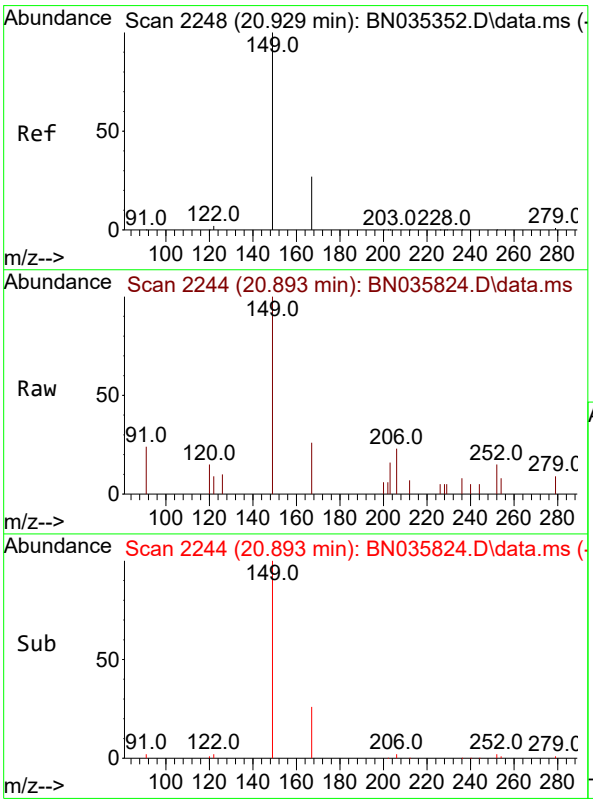

#33
Chrysene
Concen: 0.045 ng
RT: 20.983 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

**Instrument :**
BNA_N
**ClientSampleId :**
RW10A-MW01S-20241218

Tgt Ion:228 Resp: 1514

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 34.9 | 24.6 | 37.0 |
| 229 | 25.1 | 15.9 | 23.9# |

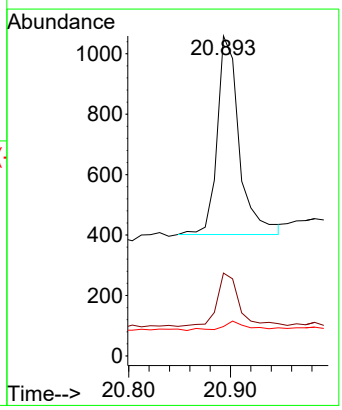


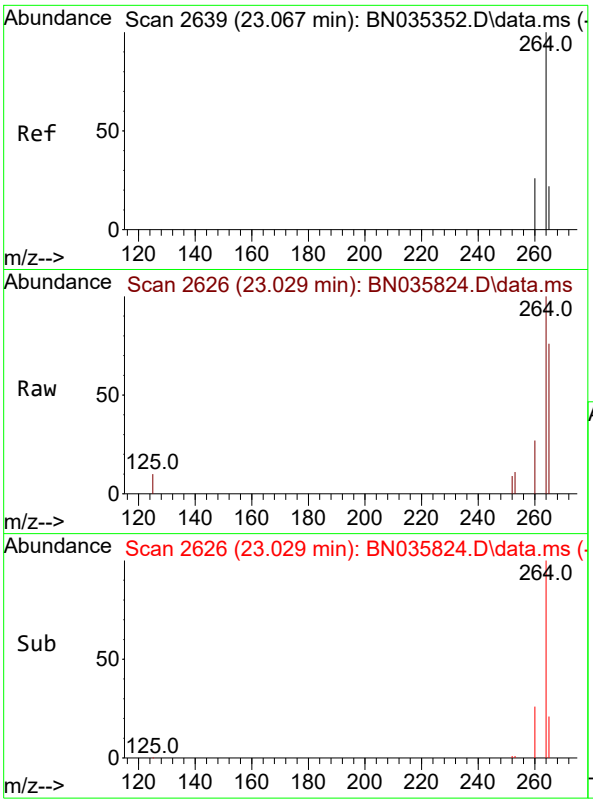




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.077 ng
RT: 20.893 min Scan# 2244
Delta R.T. -0.018 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

Tgt Ion:149 Resp: 988

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 26.7 | 22.2 | 33.4 |
| 279 | 5.5 | 2.7 | 4.1# |



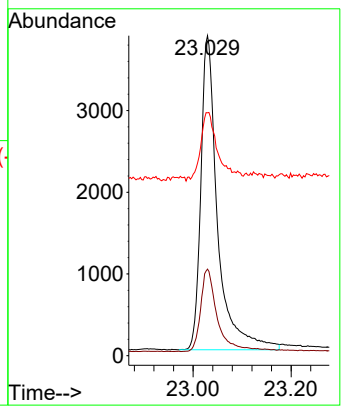


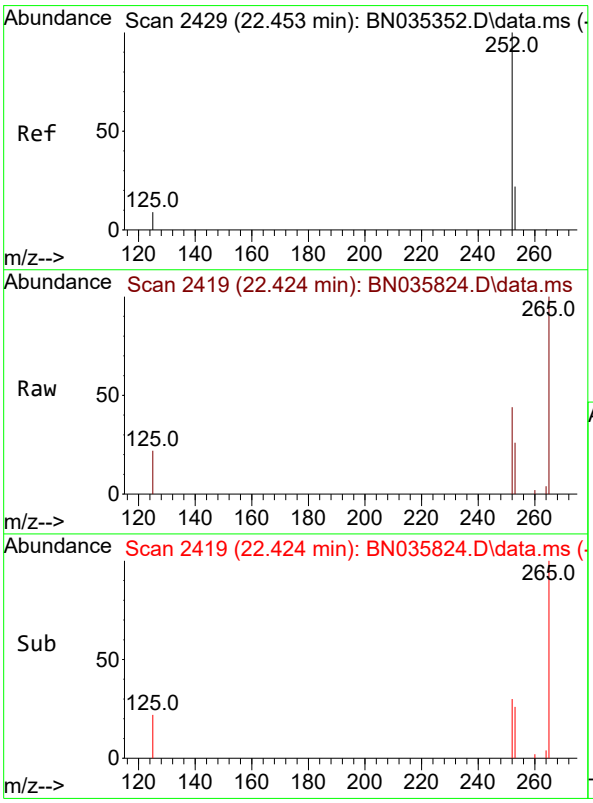

#35
Perylene-d12
Concen: 0.400 ng
RT: 23.029 min Scan# 2
Delta R.T. -0.012 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

**Instrument :**
BNA_N
**ClientSampleId :**
RW10A-MW01S-20241218

Tgt Ion:264 Resp: 9119

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 27.1 | 21.4 | 32.2 |
| 265 | 75.9 | 40.2 | 60.4# |

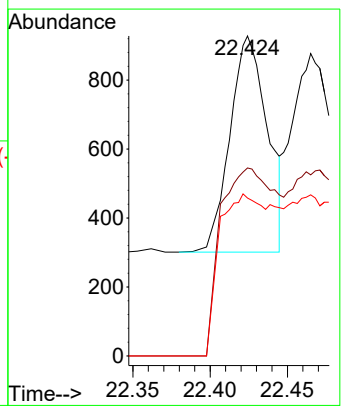


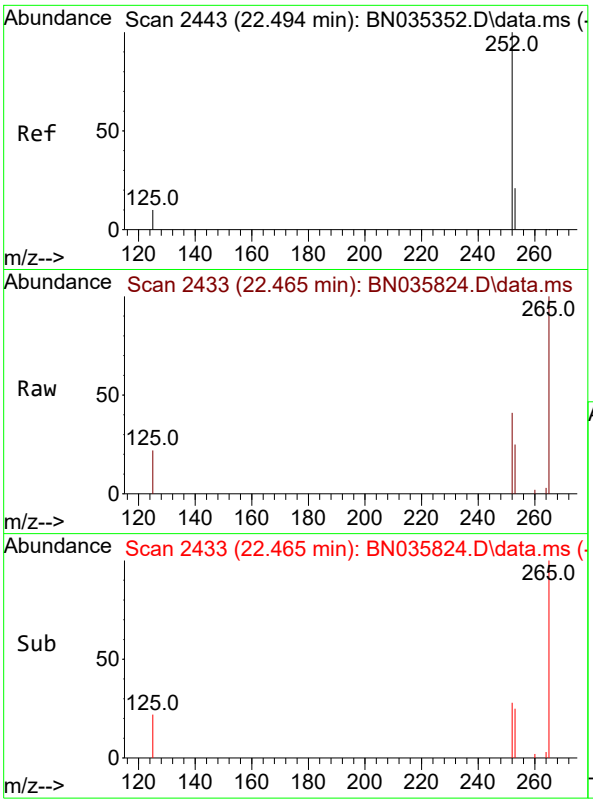




#37
Benzo(b)fluoranthene
Concen: 0.042 ng
RT: 22.424 min Scan# 2419
Delta R.T. -0.006 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

Tgt Ion:252 Resp: 1409

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 58.7 | 19.6 | 29.4# |
| 125 | 49.4 | 9.6 | 14.4# |



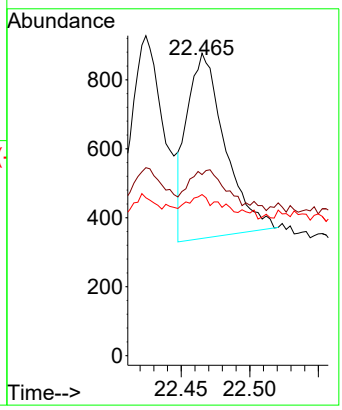


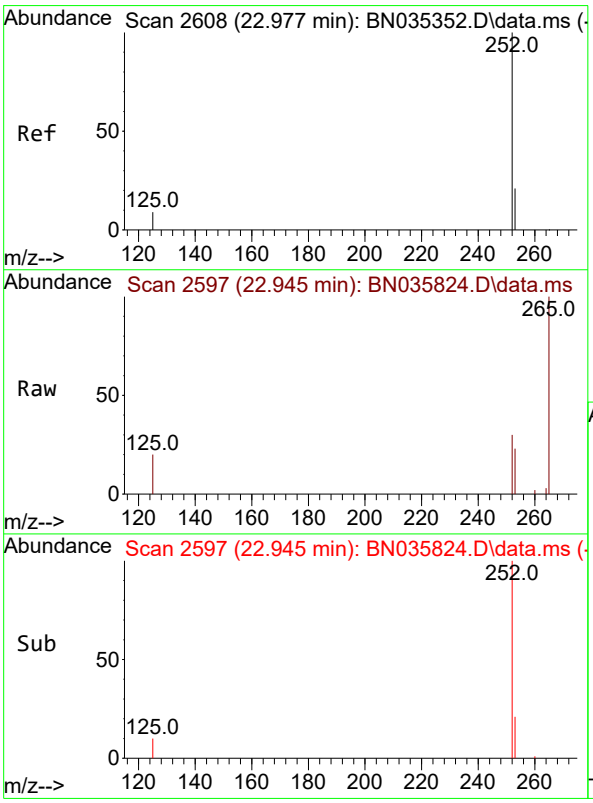

#38
Benzo(k)fluoranthene
Concen: 0.031 ng
RT: 22.465 min Scan# 24
Delta R.T. -0.006 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

**Instrument :**
BNA_N
**ClientSampleId :**
RW10A-MW01S-20241218

Tgt Ion:252 Resp: 1028

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 59.9 | 19.5 | 29.3# |
| 125 | 53.2 | 10.2 | 15.4# |

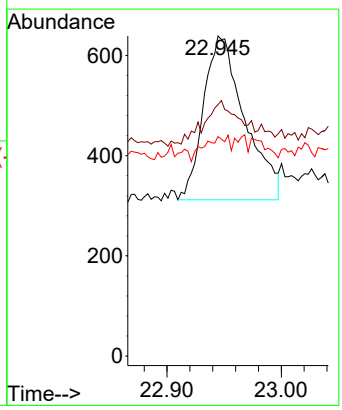


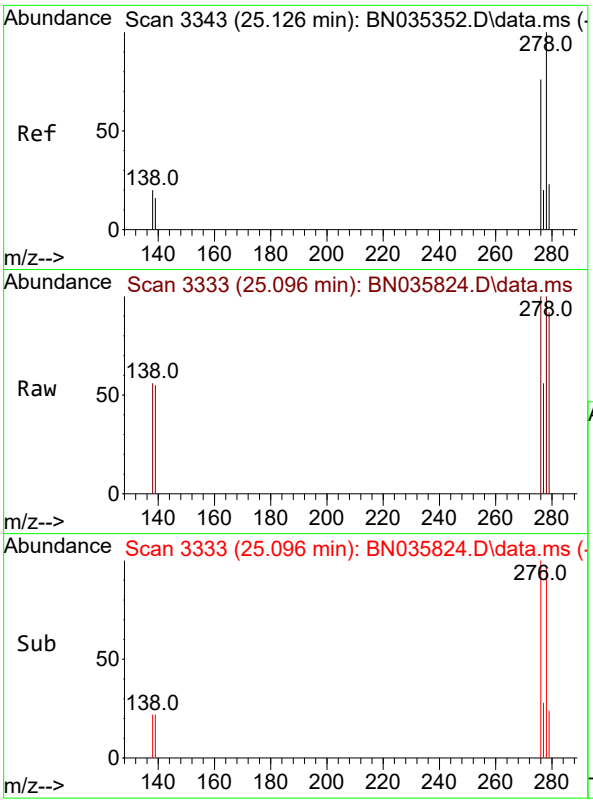




#39
Benzo(a)pyrene
Concen: 0.030 ng
RT: 22.945 min Scan# 2597
Delta R.T. -0.006 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

Tgt Ion:252 Resp: 820

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 78.6 | 20.2 | 30.4# |
| 125 | 68.5 | 10.9 | 16.3# |



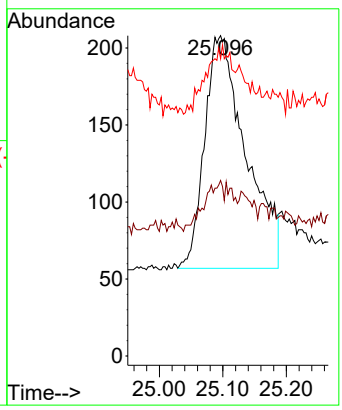


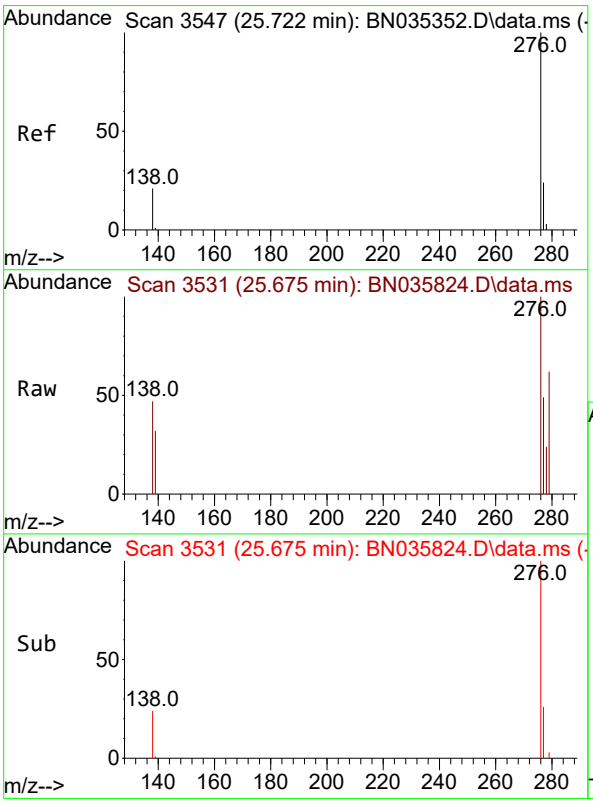

#40
Dibenzo(a,h)anthracene
Concen: 0.024 ng
RT: 25.096 min Scan# 3
Delta R.T. 0.015 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

**Instrument :**
BNA_N
**ClientSampleId :**
RW10A-MW01S-20241218

Tgt Ion:278 Resp: 685

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 54.8 | 14.2 | 21.4# |
| 279 | 92.8 | 20.5 | 30.7# |

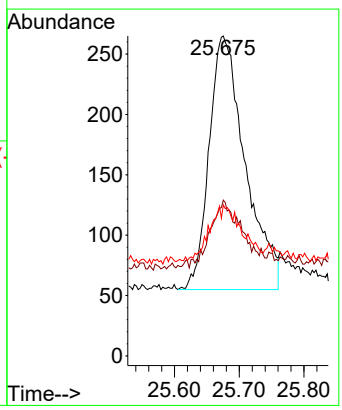



#41
Benzo(g,h,i)perylene
Concen: 0.028 ng
RT: 25.675 min Scan# 3531
Delta R.T. -0.003 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

Tgt Ion:276 Resp: 816

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 48.7 | 19.9 | 29.9# |
| 138 | 47.2 | 17.8 | 26.8# |



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035825.D
Acq On : 24 Dec 2024 17:18
Operator : RC/JU
Sample : P5376-12
Misc :
ALS Vial : 16 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
RW10A-MW01I-20241218

Quant Time: Dec 24 23:20:05 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.264 | 152 | 3186 | 0.400 | ng | 0.00 |
| 7) Naphthalene-d8 | 10.009 | 136 | 7275 | 0.400 | ng | -0.01 |
| 13) Acenaphthene-d10 | 13.924 | 164 | 4568 | 0.400 | ng | -0.01 |
| 19) Phenanthrene-d10 | 16.698 | 188 | 9048 | 0.400 | ng | # 0.00 |
| 29) Chrysene-d12 | 20.947 | 240 | 6943 | 0.400 | ng | # 0.00 |
| 35) Perylene-d12 | 23.029 | 264 | 6791 | 0.400 | ng | #-0.01 |
| System Monitoring Compounds | | | | | | |
| 4) 2-Fluorophenol | 4.924 | 112 | 881 | 0.110 | ng | -0.01 |
| 5) Phenol-d6 | 6.484 | 99 | 395 | 0.041 | ng | 0.00 |
| 8) Nitrobenzene-d5 | 8.408 | 82 | 2909 | 0.655 | ng | 0.00 |
| 11) 2-Methylnaphthalene-d10 | 11.610 | 152 | 4263 | 0.374 | ng | -0.01 |
| 14) 2,4,6-Tribromophenol | 15.443 | 330 | 626 | 0.193 | ng | -0.01 |
| 15) 2-Fluorobiphenyl | 12.528 | 172 | 6668 | 0.386 | ng | -0.02 |
| 27) Fluoranthene-d10 | 18.752 | 212 | 10051 | 0.392 | ng | 0.00 |
| 31) Terphenyl-d14 | 19.379 | 244 | 7353 | 0.537 | ng | 0.00 |
| Target Compounds | | | | | | Qvalue |
| 2) 1,4-Dioxane | 2.982 | 88 | 98 | 0.032 | ng | # 64 |
| 9) Naphthalene | 10.052 | 128 | 451 | 0.024 | ng | # 49 |
| 16) Acenaphthylene | 13.636 | 152 | 407 | 0.021 | ng | # 89 |
| 17) Acenaphthene | 13.989 | 154 | 278 | 0.022 | ng | 94 |
| 26) Anthracene | 16.835 | 178 | 519 | 0.023 | ng | # 88 |
| 28) Fluoranthene | 18.780 | 202 | 792 | 0.024 | ng | # 98 |
| 30) Pyrene | 19.152 | 202 | 780 | 0.030 | ng | 99 |
| 33) Chrysene | 20.983 | 228 | 620 | 0.025 | ng | # 78 |
| 34) Bis(2-ethylhexyl)phtha... | 20.893 | 149 | 598 | 0.062 | ng | # 95 |
| 37) Benzo(b)fluoranthene | 22.427 | 252 | 629 | 0.025 | ng | # 1 |

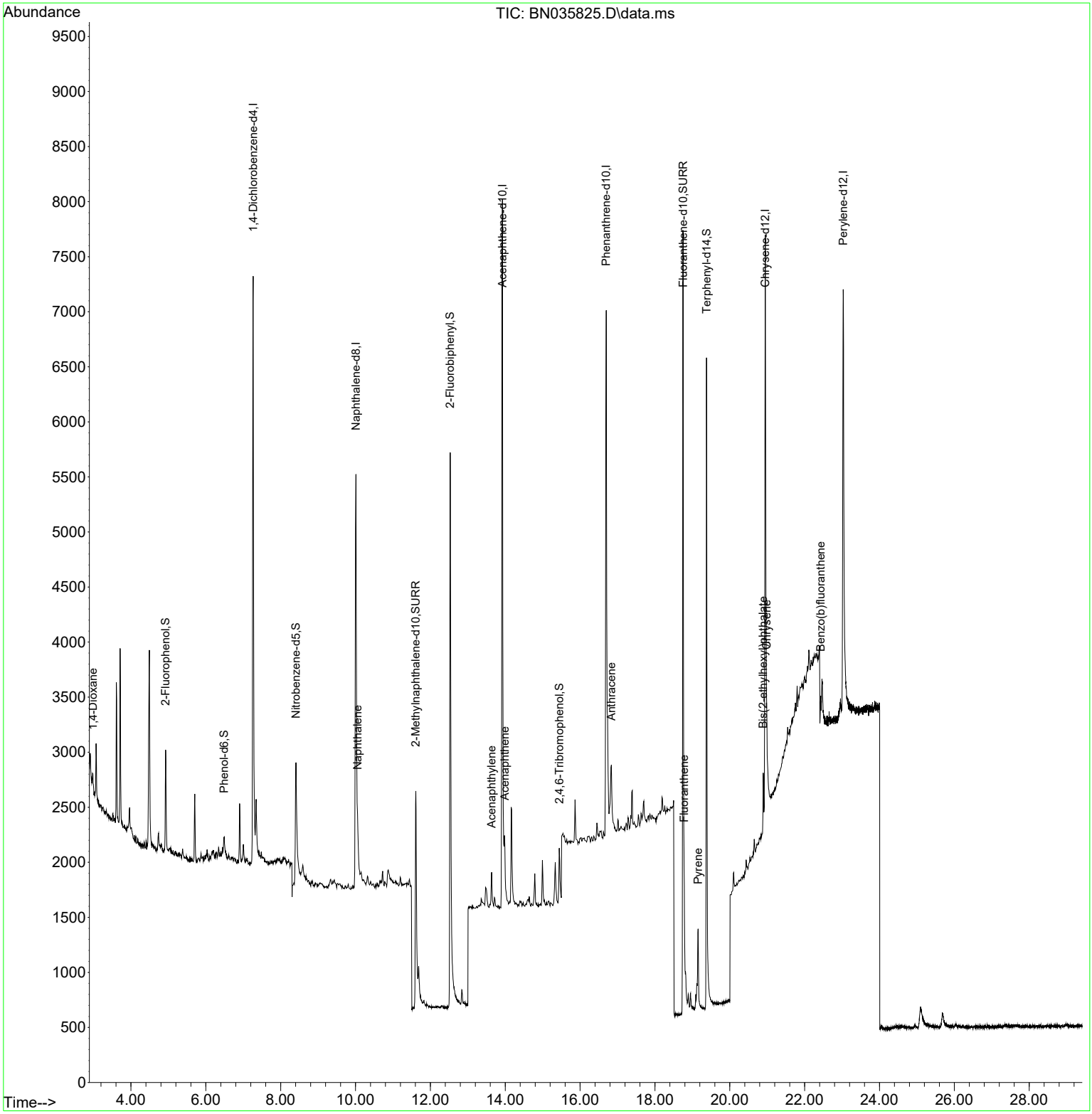
(#) = qualifier out of range (m) = manual integration (+) = signals summed

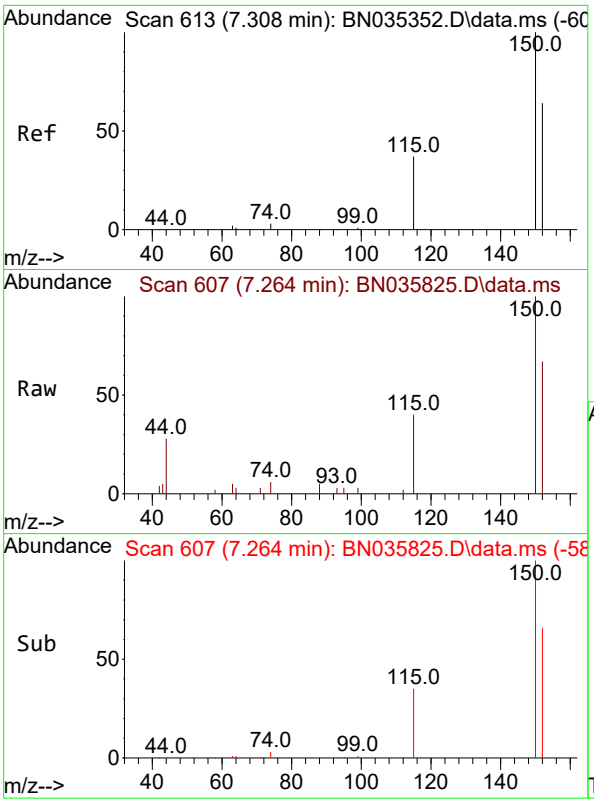
Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035825.D
Acq On : 24 Dec 2024 17:18
Operator : RC/JU
Sample : P5376-12
Misc :
ALS Vial : 16 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
RW10A-MW01I-20241218

Quant Time: Dec 24 23:20:05 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



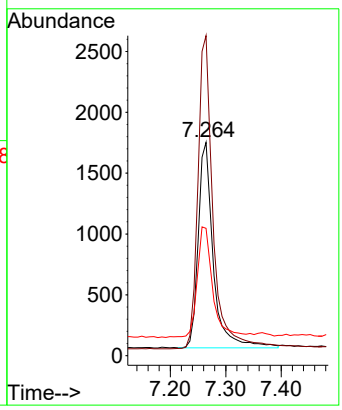


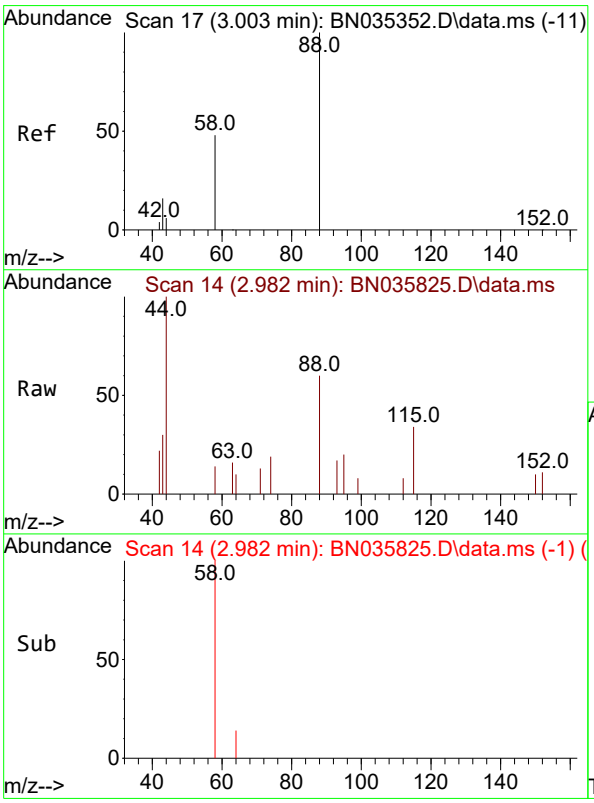

#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.264 min Scan# 6
Delta R.T. -0.008 min
Lab File: BN035825.D
Acq: 24 Dec 2024 17:18

**Instrument :**
BNA_N
**ClientSampleId :**
RW10A-MW01I-20241218

Tgt Ion:152 Resp: 3186

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 150.0 | 124.0 | 186.0 |
| 115 | 59.7 | 49.6 | 74.4 |

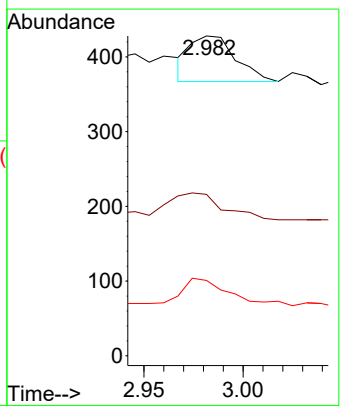


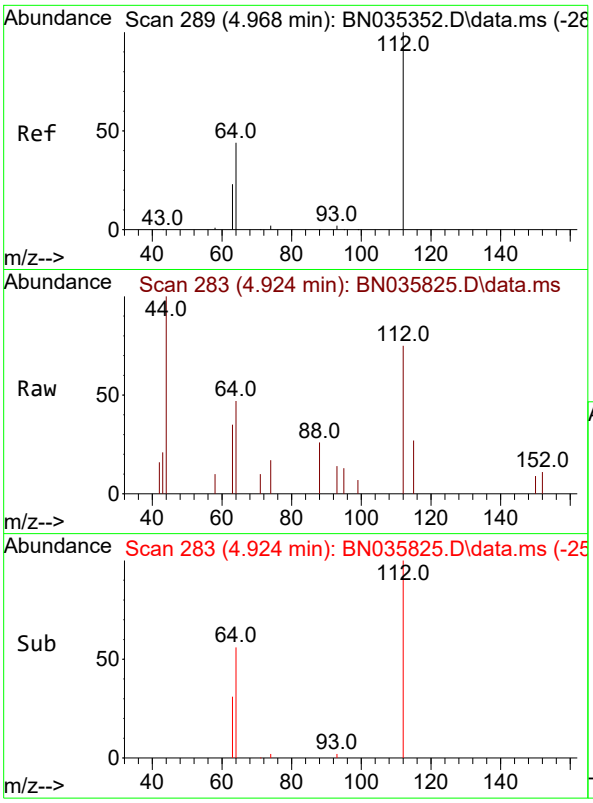




#2
1,4-Dioxane
Concen: 0.032 ng
RT: 2.982 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035825.D
Acq: 24 Dec 2024 17:18

Tgt Ion: 88 Resp: 98

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 70.4 | 17.2 | 25.8# |
| 58 | 63.3 | 44.5 | 66.7 |



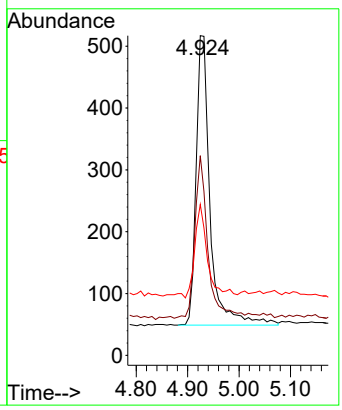


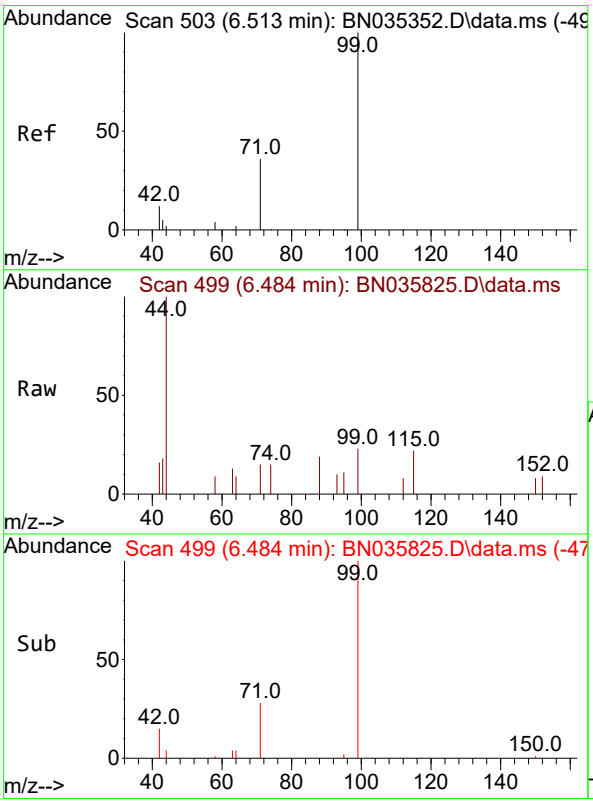

#4
2-Fluorophenol
Concen: 0.110 ng
RT: 4.924 min Scan# 2
Delta R.T. -0.015 min
Lab File: BN035825.D
Acq: 24 Dec 2024 17:18

**Instrument :**
BNA_N
**ClientSampleId :**
RW10A-MW01I-20241218

Tgt Ion:112 Resp: 881

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 52.0 | 39.8 | 59.8 |
| 63 | 28.1 | 21.0 | 31.6 |

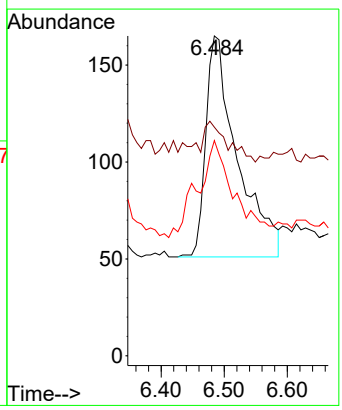


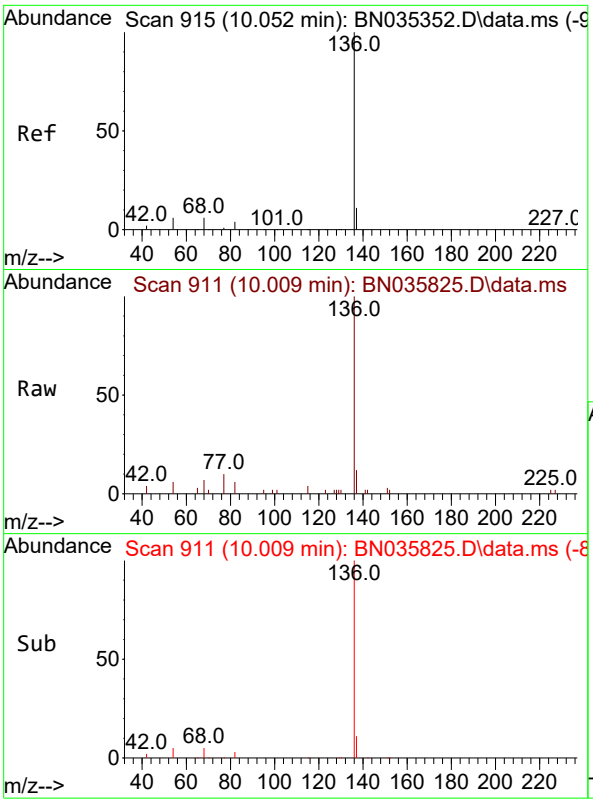




#5
Phenol-d6
Concen: 0.041 ng
RT: 6.484 min Scan# 499
Delta R.T. -0.007 min
Lab File: BN035825.D
Acq: 24 Dec 2024 17:18

Tgt Ion: 99 Resp: 395

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 14.9 | 11.4 | 17.2 |
| 71 | 31.4 | 29.3 | 43.9 |



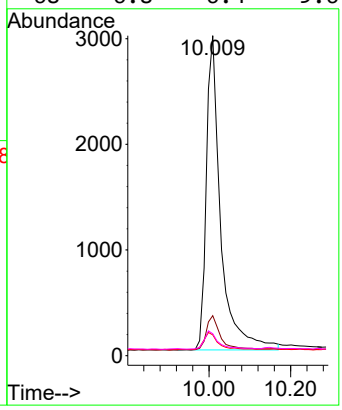


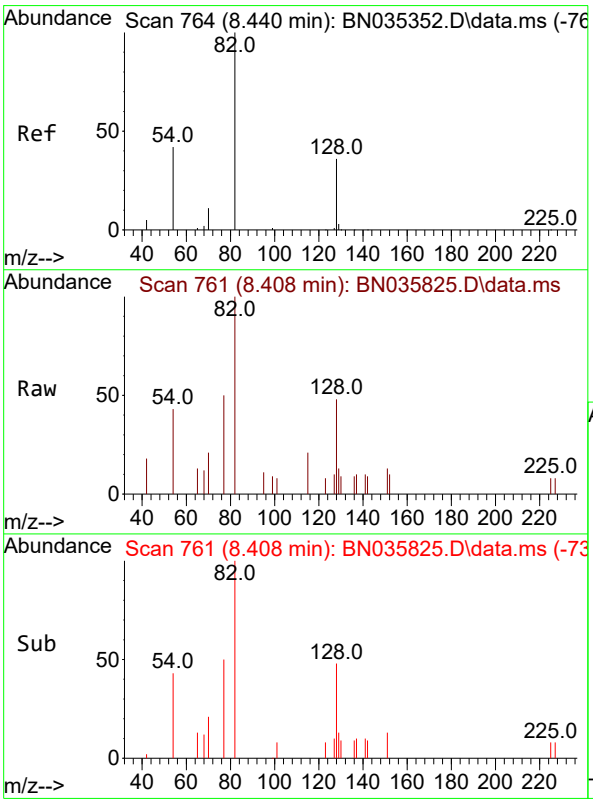

#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN035825.D
Acq: 24 Dec 2024 17:18

**Instrument :**
BNA_N
**ClientSampleId :**
RW10A-MW01I-20241218

Tgt Ion:136 Resp: 7275

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 12.5 | 10.2 | 15.2 |
| 54 | 6.5 | 6.1 | 9.1 |
| 68 | 6.8 | 6.4 | 9.6 |

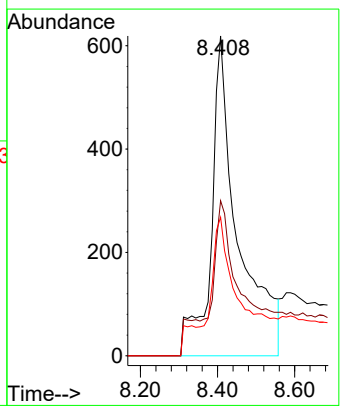


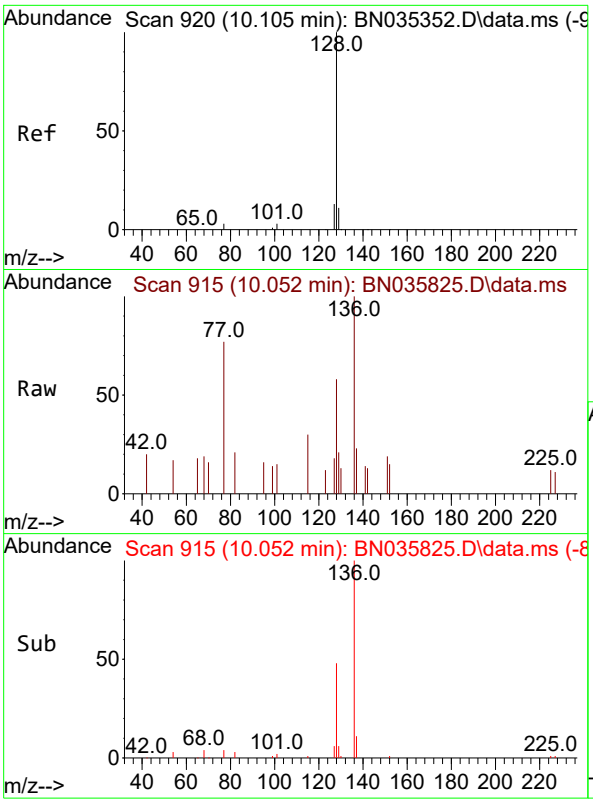




#8
Nitrobenzene-d5
Concen: 0.655 ng
RT: 8.408 min Scan# 761
Delta R.T. -0.000 min
Lab File: BN035825.D
Acq: 24 Dec 2024 17:18

Tgt Ion: 82 Resp: 2909

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 48.5 | 33.4 | 50.0 |
| 54 | 43.3 | 36.7 | 55.1 |



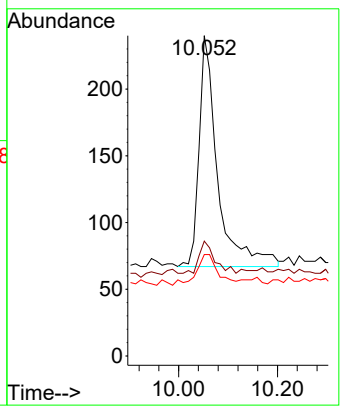


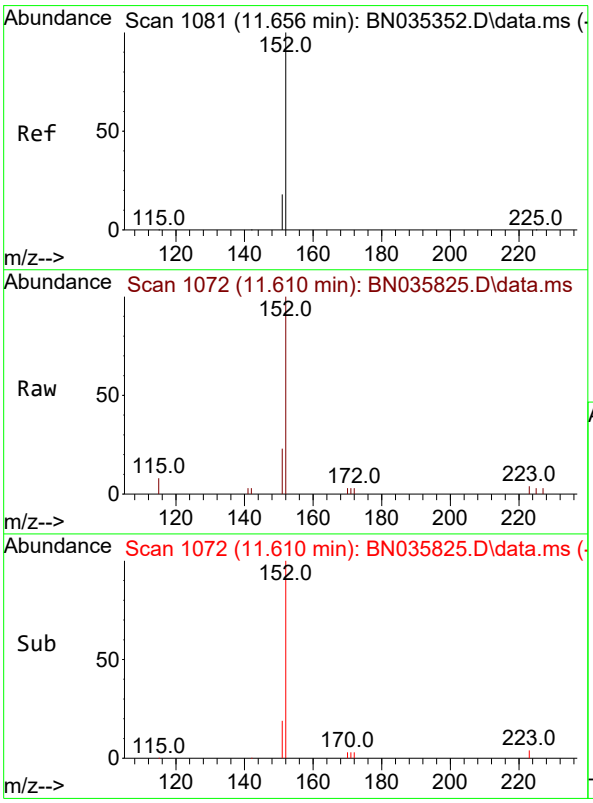

#9
Naphthalene
Concen: 0.024 ng
RT: 10.052 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN035825.D
Acq: 24 Dec 2024 17:18

**Instrument :**
BNA_N
**ClientSampleId :**
RW10A-MW01I-20241218

Tgt Ion:128 Resp: 451

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 35.8 | 9.8 | 14.6# |
| 127 | 31.7 | 11.4 | 17.2# |

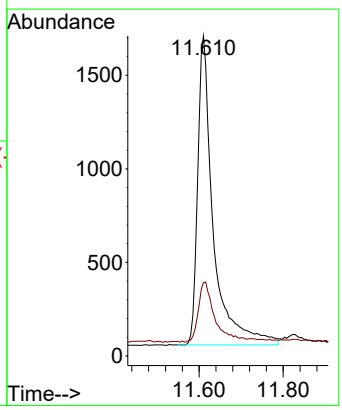


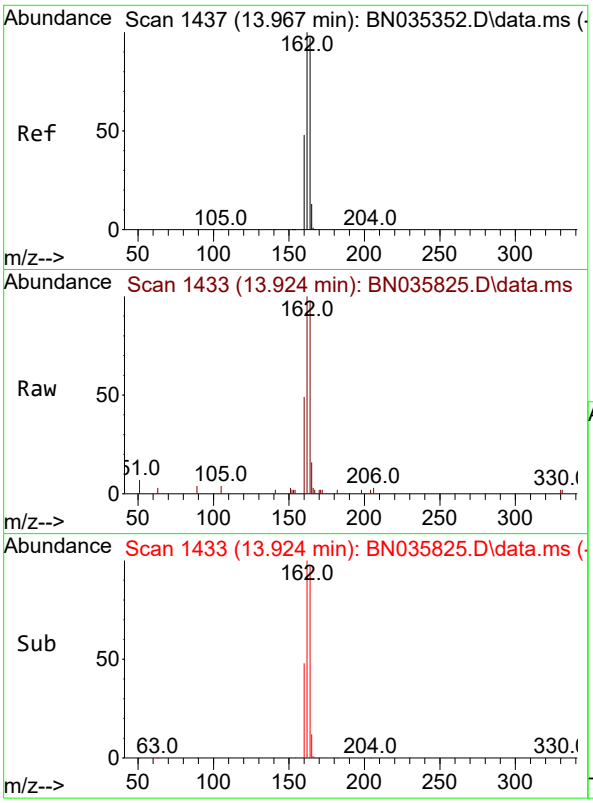




#11
2-Methylnaphthalene-d10
Concen: 0.374 ng
RT: 11.610 min Scan# 1072
Delta R.T. -0.010 min
Lab File: BN035825.D
Acq: 24 Dec 2024 17:18

Tgt Ion:152 Resp: 4263

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.4 | 16.6 | 25.0 |



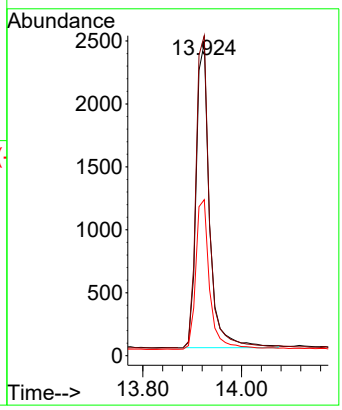


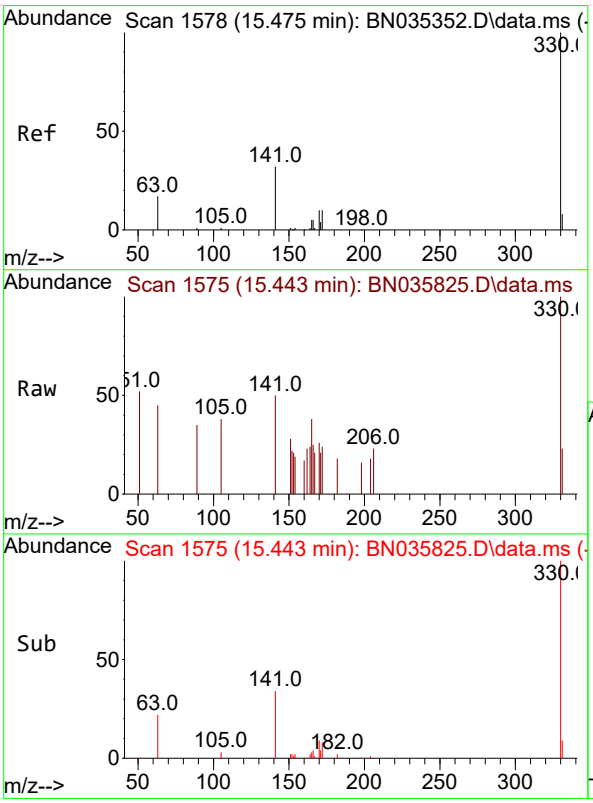

#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.924 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035825.D
Acq: 24 Dec 2024 17:18

**Instrument :**
BNA_N
**ClientSampleId :**
RW10A-MW01I-20241218

Tgt Ion:164 Resp: 4568

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 102.3 | 82.2 | 123.2 |
| 160 | 49.9 | 40.1 | 60.1 |

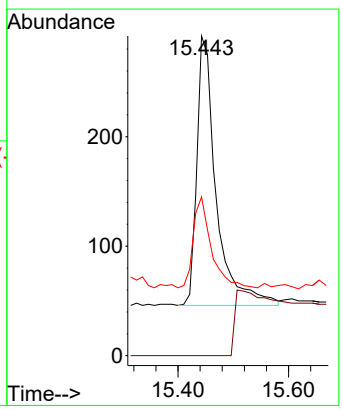


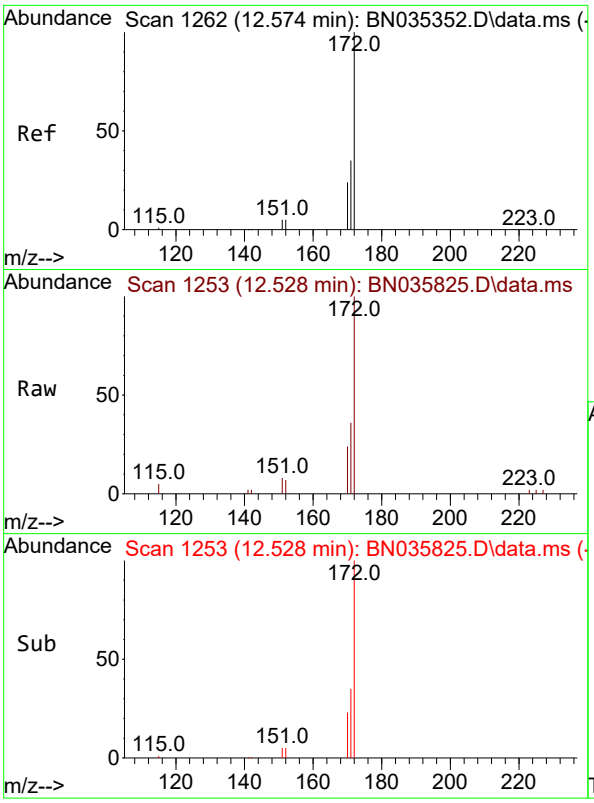




#14
2,4,6-Tribromophenol
Concen: 0.193 ng
RT: 15.443 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN035825.D
Acq: 24 Dec 2024 17:18

Tgt Ion:330 Resp: 626

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 0.0 | 0.0 | 0.0 |
| 141 | 30.7 | 26.6 | 40.0 |



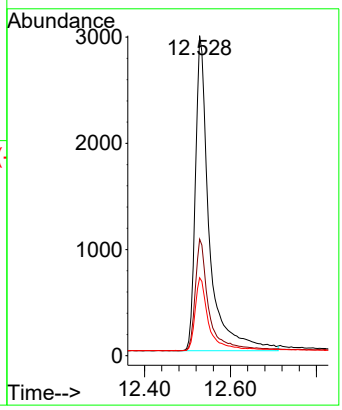


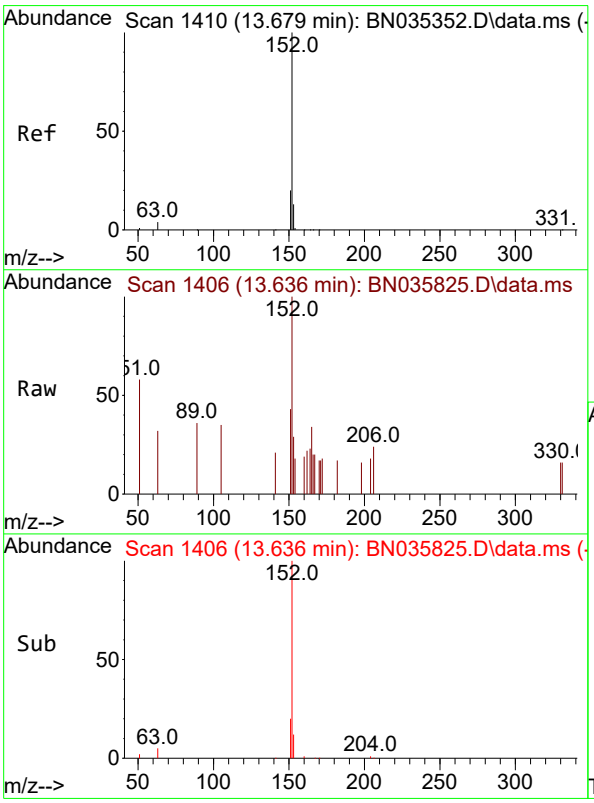

#15
2-Fluorobiphenyl
Concen: 0.386 ng
RT: 12.528 min Scan# 1
Delta R.T. -0.015 min
Lab File: BN035825.D
Acq: 24 Dec 2024 17:18

**Instrument :**
BNA_N
**ClientSampleId :**
RW10A-MW01I-20241218

Tgt Ion:172 Resp: 6668

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 36.4 | 29.0 | 43.4 |
| 170 | 24.4 | 19.8 | 29.8 |

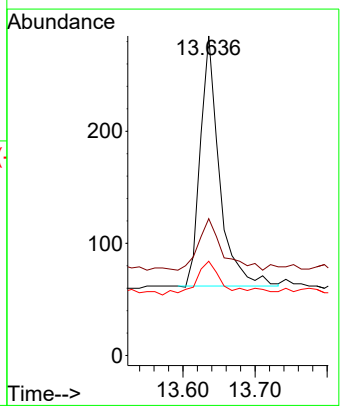


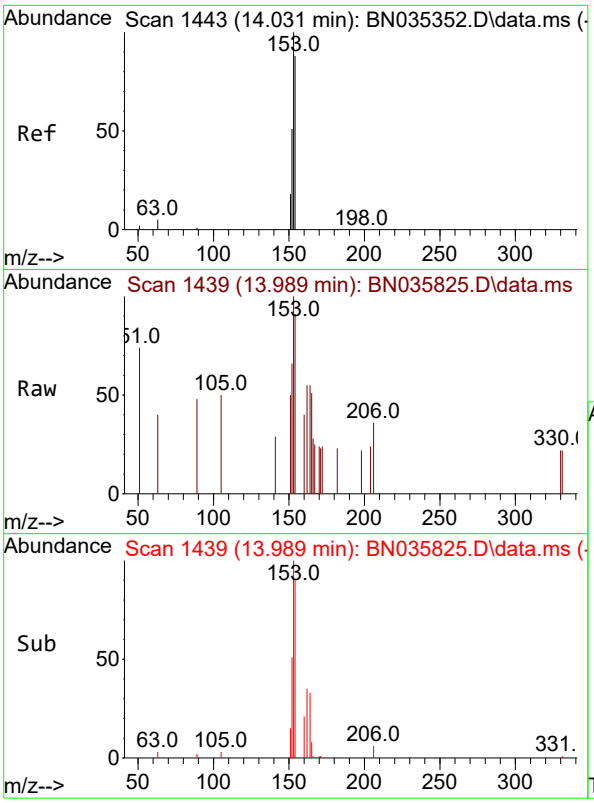




#16
Acenaphthylene
Concen: 0.021 ng
RT: 13.636 min Scan# 1406
Delta R.T. -0.011 min
Lab File: BN035825.D
Acq: 24 Dec 2024 17:18

Tgt Ion:152 Resp: 407

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 25.3 | 16.2 | 24.2# |
| 153 | 17.7 | 10.4 | 15.6# |



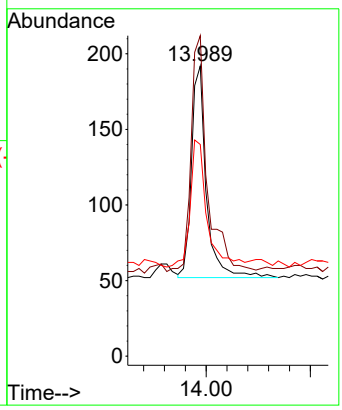


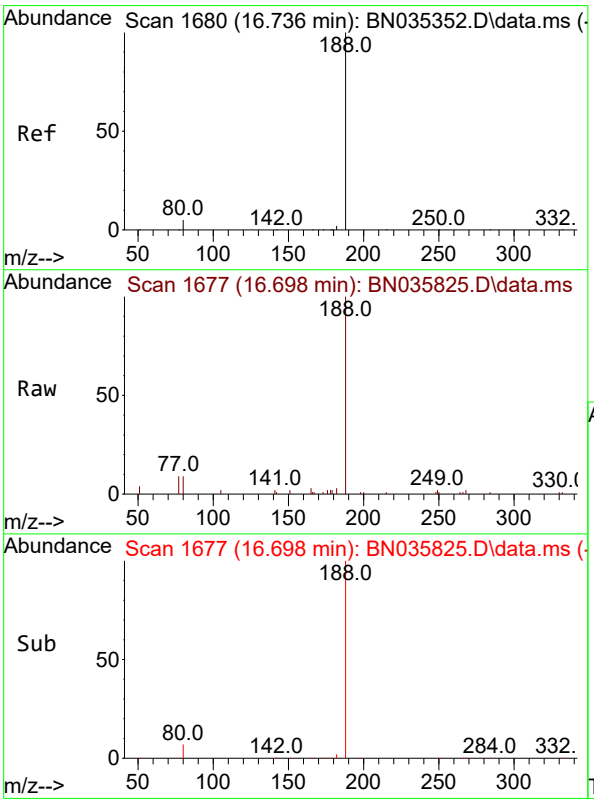

#17
Acenaphthene
Concen: 0.022 ng
RT: 13.989 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035825.D
Acq: 24 Dec 2024 17:18

**Instrument :**
BNA_N
**ClientSampleId :**
RW10A-MW01I-20241218

Tgt Ion:154 Resp: 278

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 121.9 | 92.6 | 139.0 |
| 152 | 67.3 | 49.0 | 73.6 |

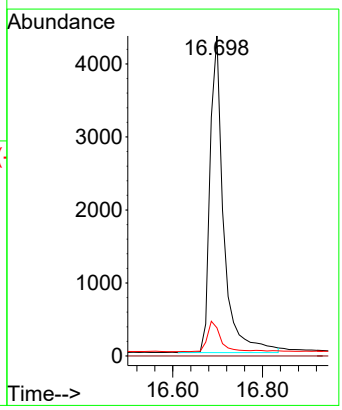


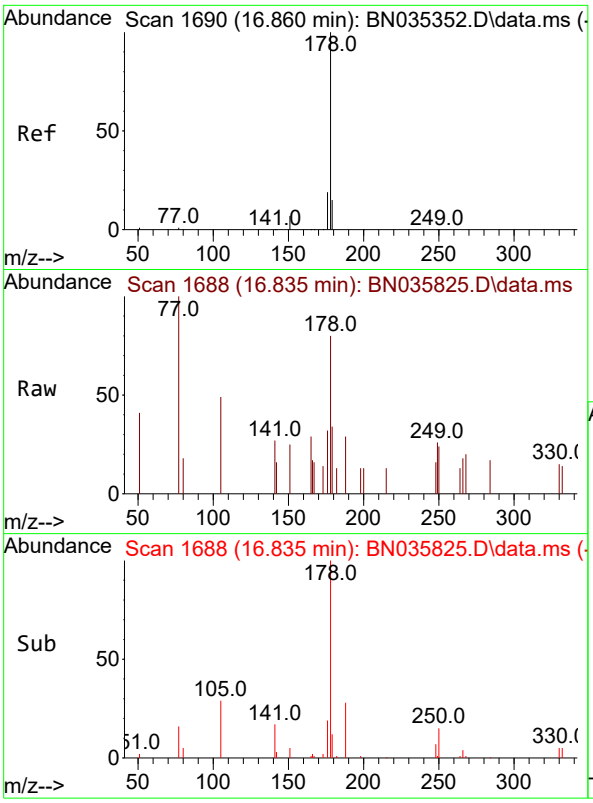




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1677
Delta R.T. -0.000 min
Lab File: BN035825.D
Acq: 24 Dec 2024 17:18

Tgt Ion:188 Resp: 9048

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 8.8 | 4.6 | 6.8# |



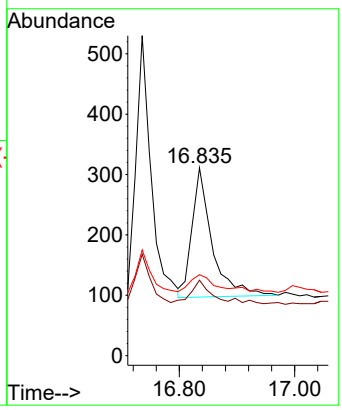


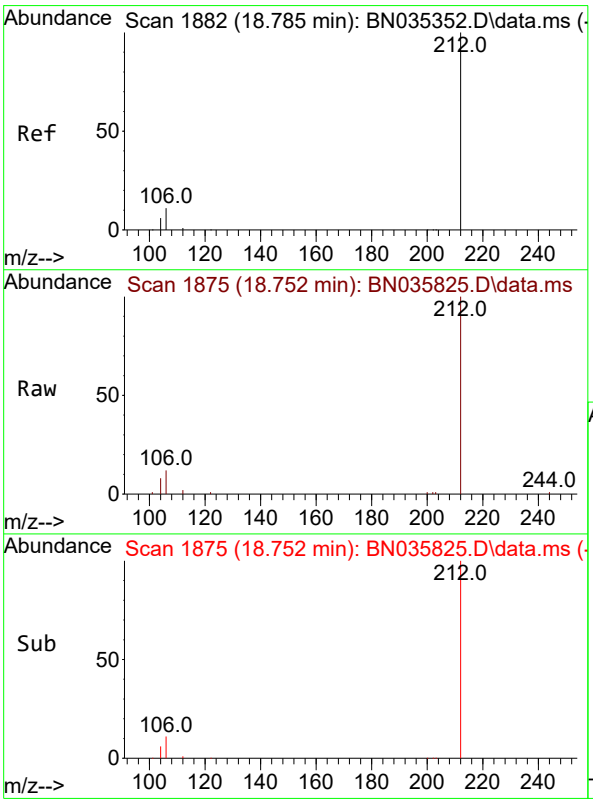

#26
Anthracene
Concen: 0.023 ng
RT: 16.835 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035825.D
Acq: 24 Dec 2024 17:18

**Instrument :**
BNA_N
**ClientSampleId :**
RW10A-MW01I-20241218

Tgt Ion:178 Resp: 519

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 15.4 | 15.0 | 22.6 |
| 179 | 23.1 | 12.6 | 18.8# |

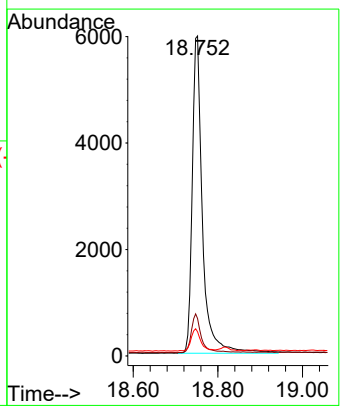


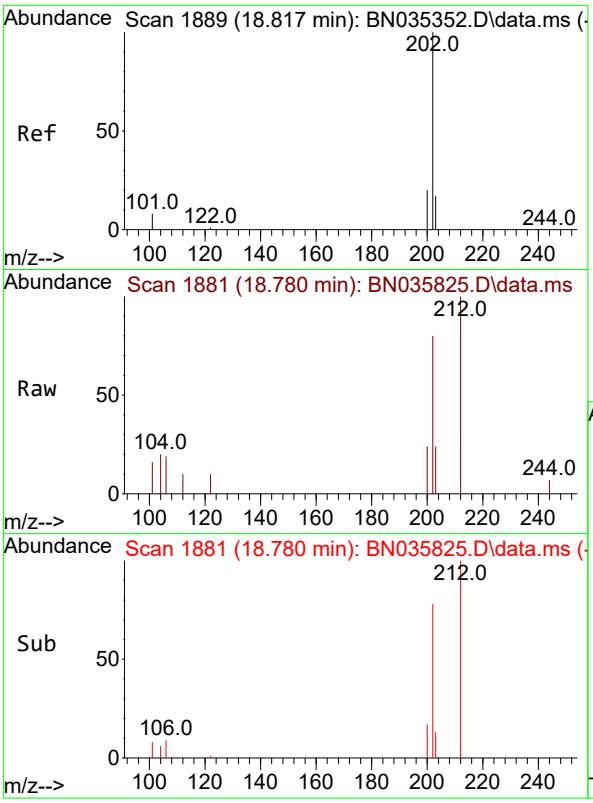




#27
Fluoranthene-d10
Concen: 0.392 ng
RT: 18.752 min Scan# 1875
Delta R.T. -0.009 min
Lab File: BN035825.D
Acq: 24 Dec 2024 17:18

Tgt Ion:212 Resp: 10051

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 11.8 | 9.2 | 13.8 |
| 104 | 6.5 | 5.3 | 7.9 |



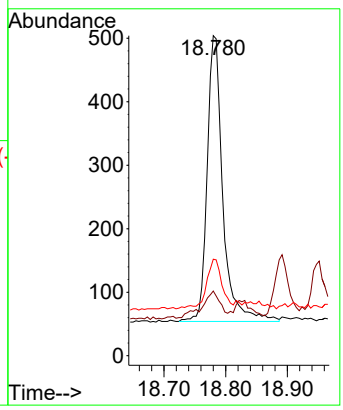


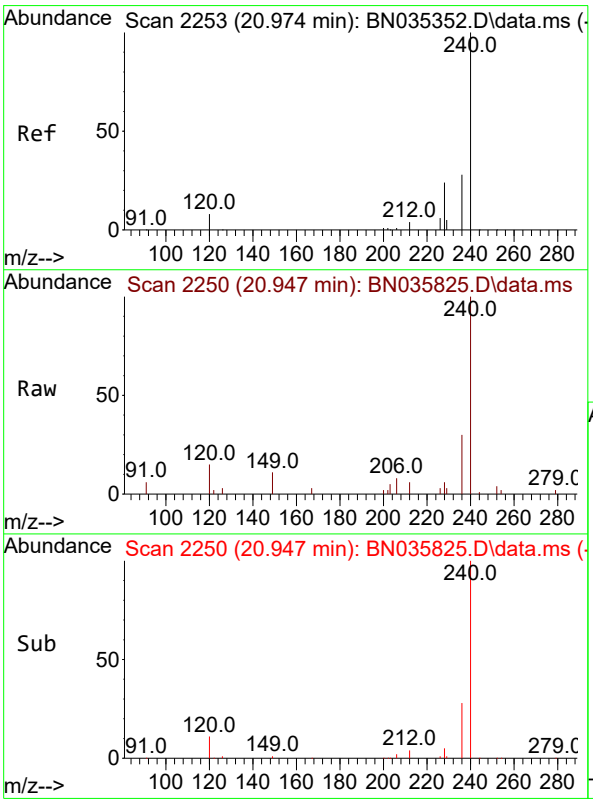

#28
Fluoranthene
Concen: 0.024 ng
RT: 18.780 min Scan# 1
Delta R.T. -0.009 min
Lab File: BN035825.D
Acq: 24 Dec 2024 17:18

**Instrument :**
BNA_N
**ClientSampleId :**
RW10A-MW01I-20241218

Tgt Ion:202 Resp: 792

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 11.1 | 7.4 | 11.0# |
| 203 | 17.2 | 13.7 | 20.5 |

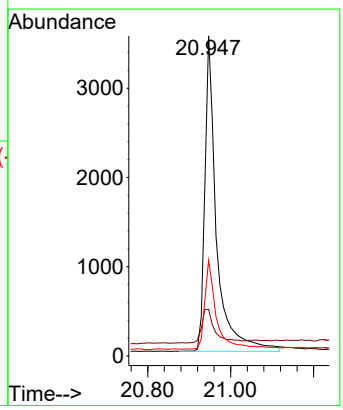


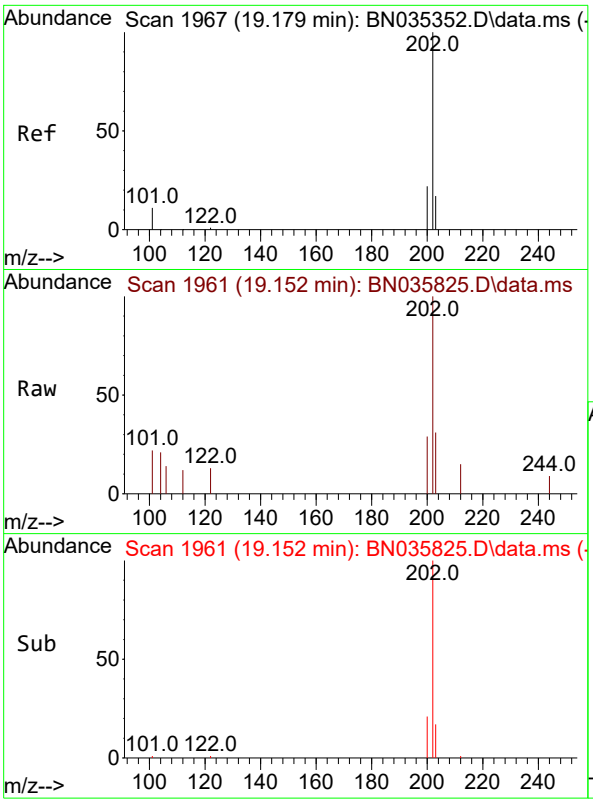




#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2250
Delta R.T. -0.009 min
Lab File: BN035825.D
Acq: 24 Dec 2024 17:18

Tgt Ion:240 Resp: 6943

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 14.5 | 7.9 | 11.9# |
| 236 | 29.9 | 22.9 | 34.3 |



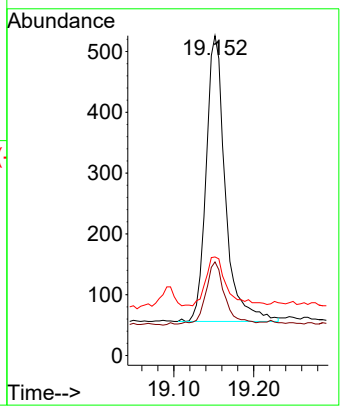


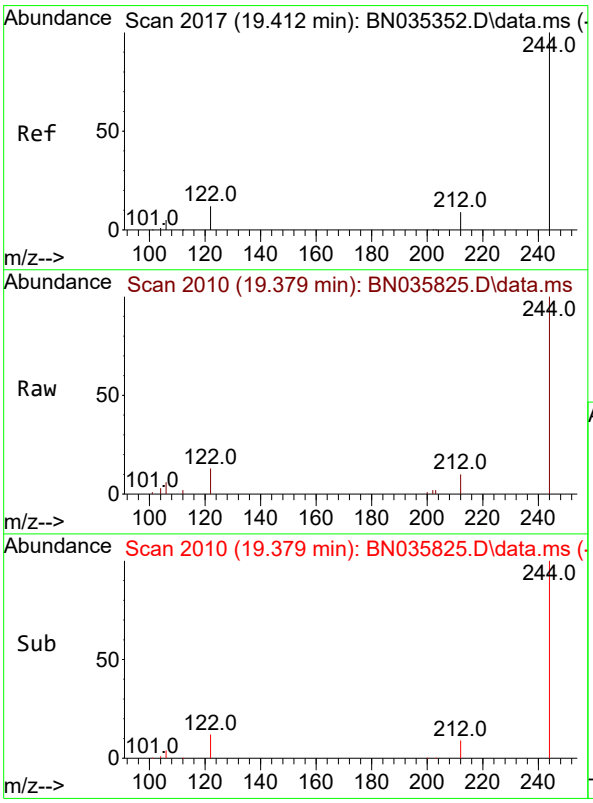

#30
Pyrene
Concen: 0.030 ng
RT: 19.152 min Scan# 1
Delta R.T. -0.009 min
Lab File: BN035825.D
Acq: 24 Dec 2024 17:18

**Instrument :**
BNA_N
**ClientSampleId :**
RW10A-MW01I-20241218

Tgt Ion:202 Resp: 780

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.0 | 17.0 | 25.4 |
| 203 | 18.5 | 14.3 | 21.5 |

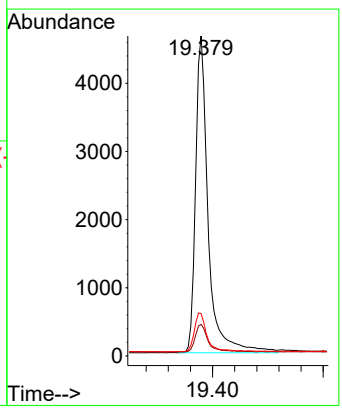


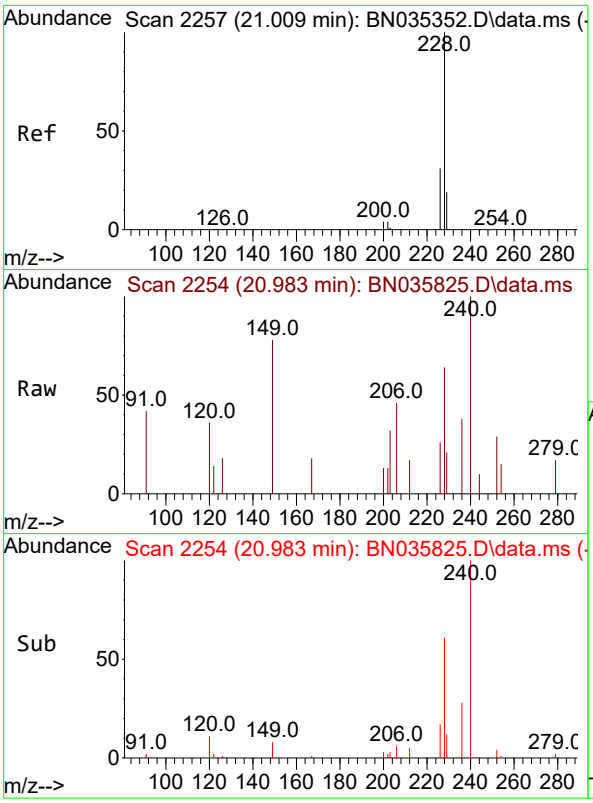




#31
Terphenyl-d14
Concen: 0.537 ng
RT: 19.379 min Scan# 2010
Delta R.T. -0.009 min
Lab File: BN035825.D
Acq: 24 Dec 2024 17:18

Tgt Ion:244 Resp: 7353

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 9.9 | 8.1 | 12.1 |
| 122 | 13.3 | 10.3 | 15.5 |



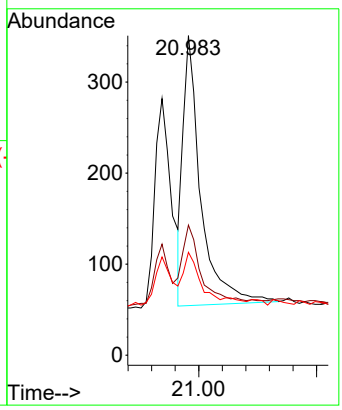


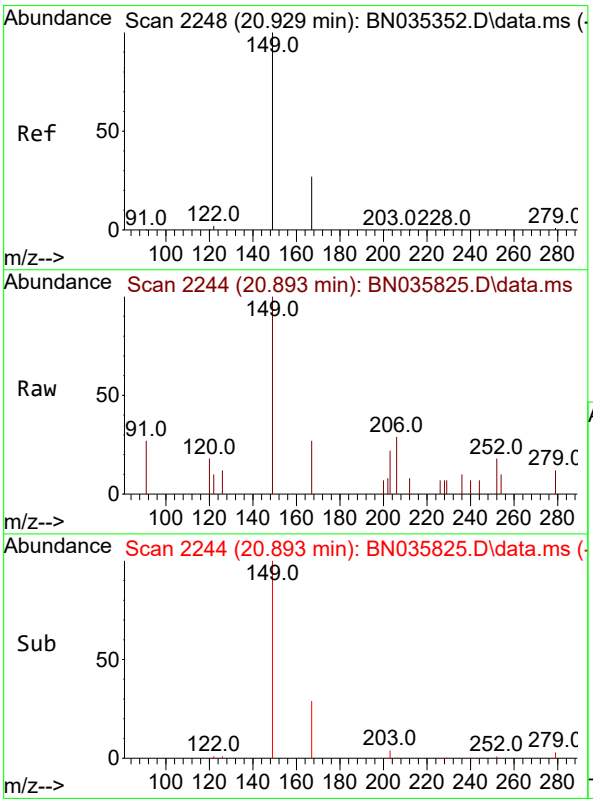

#33
Chrysene
Concen: 0.025 ng
RT: 20.983 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035825.D
Acq: 24 Dec 2024 17:18

**Instrument :**
BNA_N
**ClientSampleId :**
RW10A-MW01I-20241218

Tgt Ion:228 Resp: 620

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 40.7 | 24.6 | 37.0# |
| 229 | 32.2 | 15.9 | 23.9# |

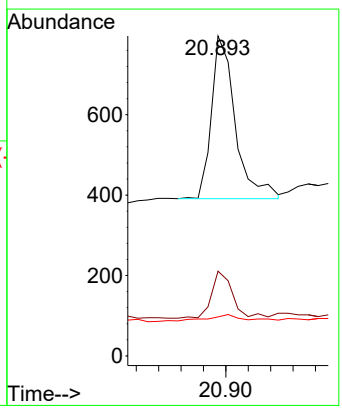


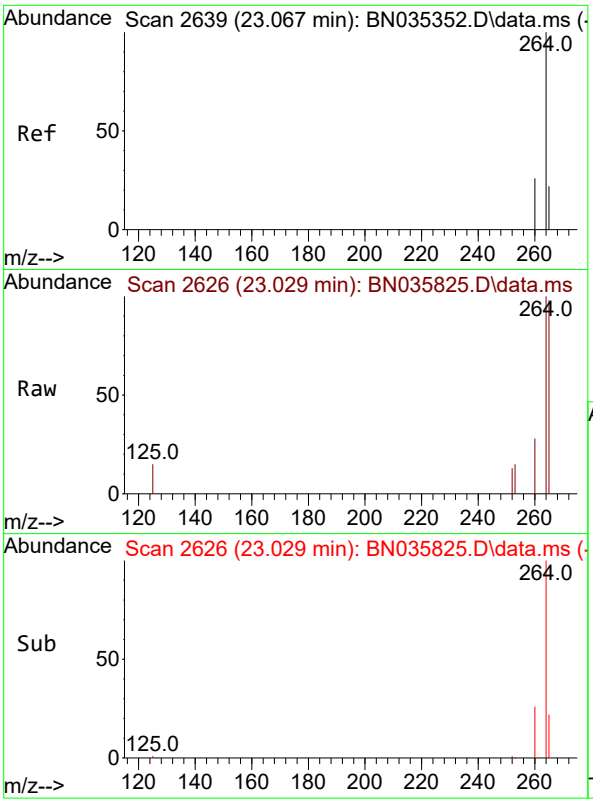




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.062 ng
RT: 20.893 min Scan# 2244
Delta R.T. -0.018 min
Lab File: BN035825.D
Acq: 24 Dec 2024 17:18

Tgt Ion:149 Resp: 598

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 25.4 | 22.2 | 33.4 |
| 279 | 5.5 | 2.7 | 4.1# |



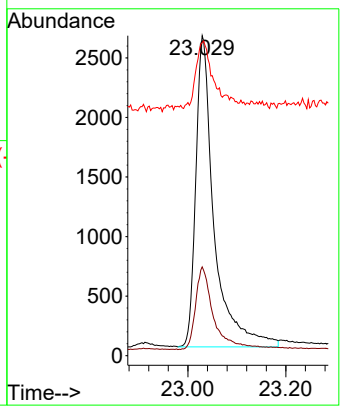


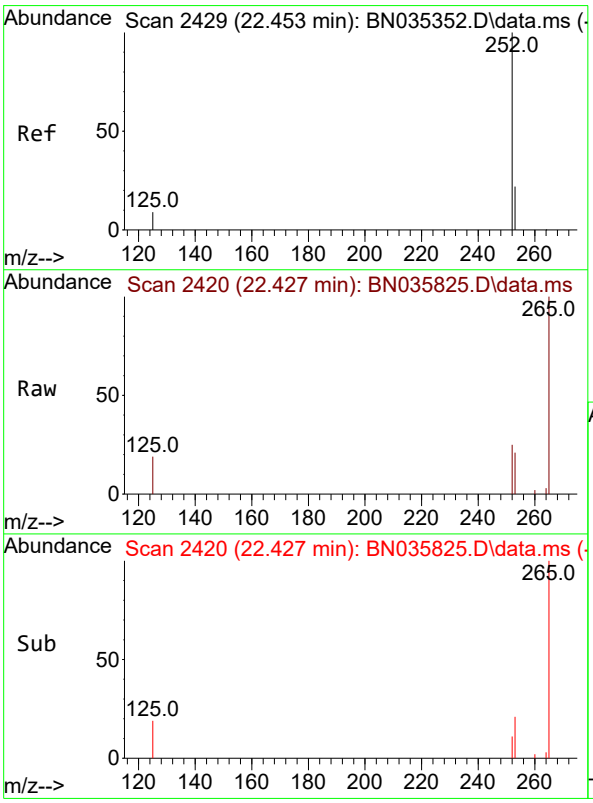

#35
Perylene-d12
Concen: 0.400 ng
RT: 23.029 min Scan# 2
Delta R.T. -0.012 min
Lab File: BN035825.D
Acq: 24 Dec 2024 17:18

**Instrument :**
BNA_N
**ClientSampleId :**
RW10A-MW01I-20241218

Tgt Ion:264 Resp: 6791

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 27.8 | 21.4 | 32.2 |
| 265 | 97.8 | 40.2 | 60.4# |

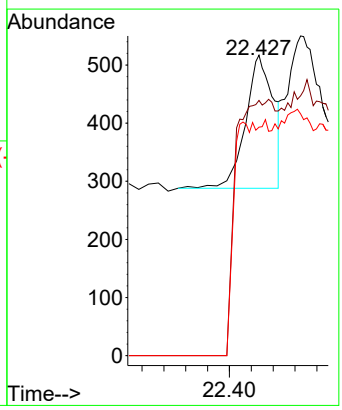



#37
Benzo(b)fluoranthene
Concen: 0.025 ng
RT: 22.427 min Scan# 2420
Delta R.T. -0.003 min
Lab File: BN035825.D
Acq: 24 Dec 2024 17:18

Tgt Ion:252 Resp: 629

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 84.9 | 19.6 | 29.4# |
| 125 | 76.0 | 9.6 | 14.4# |



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035826.D
Acq On : 24 Dec 2024 17:53
Operator : RC/JU
Sample : P5376-13
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
RE117D2-20241218

Quant Time: Dec 24 23:20:19 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.264 | 152 | 3378 | 0.400 | ng | 0.00 |
| 7) Naphthalene-d8 | 10.009 | 136 | 7925 | 0.400 | ng | #-0.01 |
| 13) Acenaphthene-d10 | 13.924 | 164 | 4973 | 0.400 | ng | -0.01 |
| 19) Phenanthrene-d10 | 16.698 | 188 | 10383 | 0.400 | ng | # 0.00 |
| 29) Chrysene-d12 | 20.947 | 240 | 8532 | 0.400 | ng | # 0.00 |
| 35) Perylene-d12 | 23.029 | 264 | 8295 | 0.400 | ng | #-0.01 |
| System Monitoring Compounds | | | | | | |
| 4) 2-Fluorophenol | 4.924 | 112 | 971 | 0.115 | ng | -0.01 |
| 5) Phenol-d6 | 6.477 | 99 | 466 | 0.046 | ng | -0.01 |
| 8) Nitrobenzene-d5 | 8.408 | 82 | 2915 | 0.602 | ng | 0.00 |
| 11) 2-Methylnaphthalene-d10 | 11.610 | 152 | 4563 | 0.368 | ng | -0.01 |
| 14) 2,4,6-Tribromophenol | 15.442 | 330 | 723 | 0.205 | ng | -0.01 |
| 15) 2-Fluorobiphenyl | 12.528 | 172 | 7227 | 0.384 | ng | -0.02 |
| 27) Fluoranthene-d10 | 18.747 | 212 | 12295 | 0.418 | ng | -0.01 |
| 31) Terphenyl-d14 | 19.379 | 244 | 9489 | 0.564 | ng | 0.00 |
| Target Compounds | | | | | | Qvalue |
| 9) Naphthalene | 10.052 | 128 | 457 | 0.022 | ng | # 56 |
| 28) Fluoranthene | 18.780 | 202 | 782 | 0.020 | ng | # 95 |
| 30) Pyrene | 19.151 | 202 | 811 | 0.026 | ng | 98 |
| 34) Bis(2-ethylhexyl)phtha... | 20.893 | 149 | 1313 | 0.111 | ng | 93 |
| 37) Benzo(b)fluoranthene | 22.424 | 252 | 720 | 0.024 | ng | # 1 |

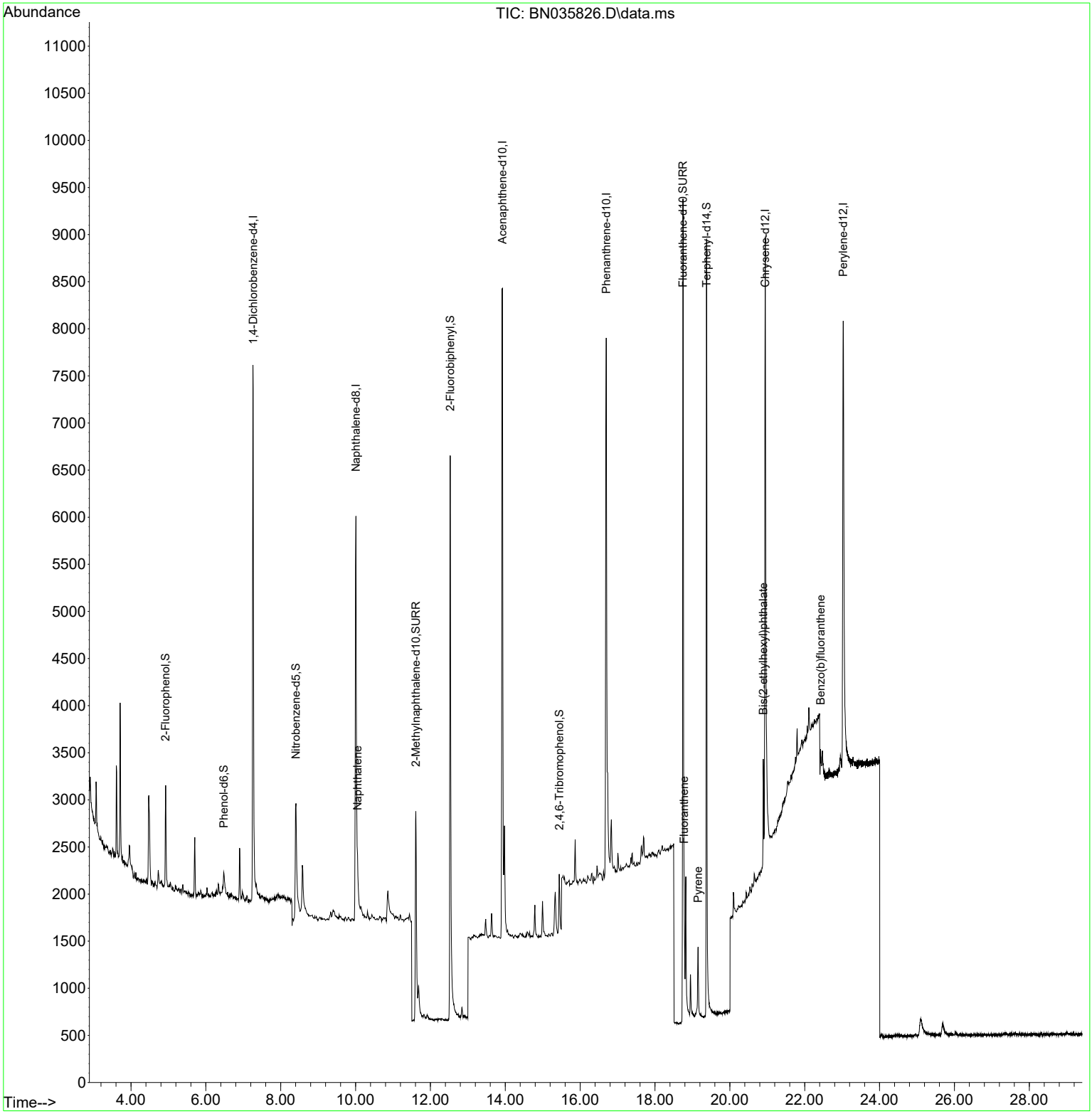
(#) = qualifier out of range (m) = manual integration (+) = signals summed

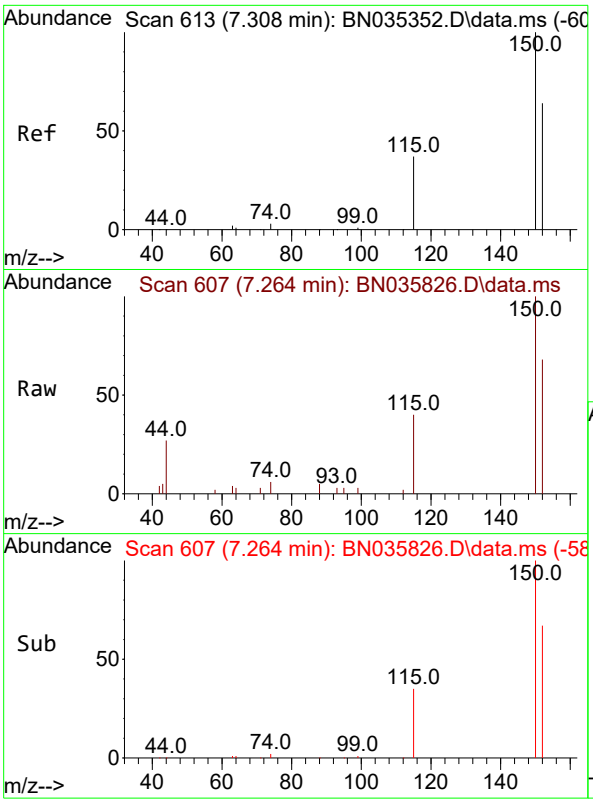
Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035826.D
Acq On : 24 Dec 2024 17:53
Operator : RC/JU
Sample : P5376-13
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
RE117D2-20241218

Quant Time: Dec 24 23:20:19 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



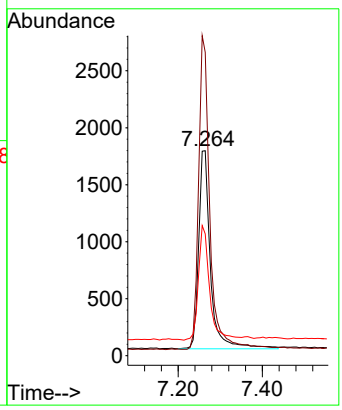


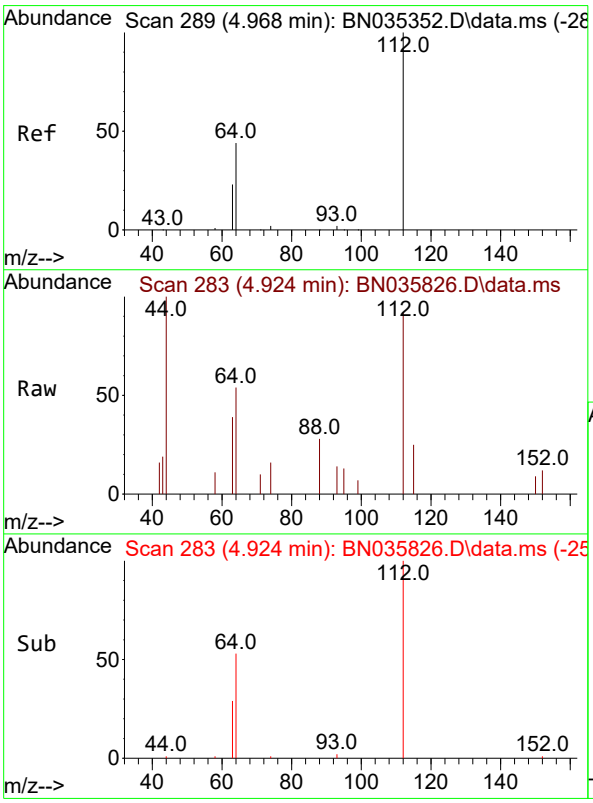

#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.264 min Scan# 6
Delta R.T. -0.008 min
Lab File: BN035826.D
Acq: 24 Dec 2024 17:53

**Instrument :**
BNA_N
**ClientSampleId :**
RE117D2-20241218

Tgt Ion:152 Resp: 3378

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 148.1 | 124.0 | 186.0 |
| 115 | 59.4 | 49.6 | 74.4 |

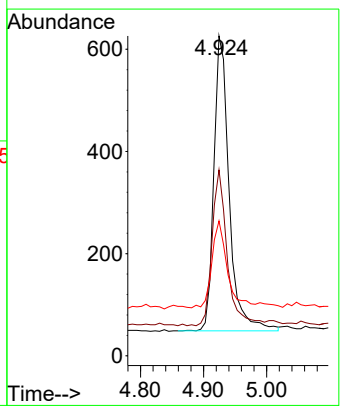


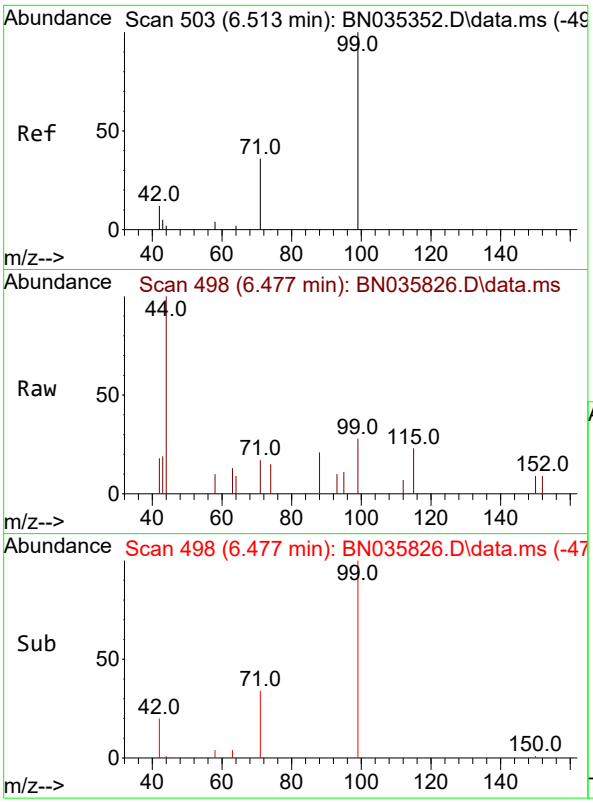




#4
2-Fluorophenol
Concen: 0.115 ng
RT: 4.924 min Scan# 283
Delta R.T. -0.015 min
Lab File: BN035826.D
Acq: 24 Dec 2024 17:53

Tgt Ion:112 Resp: 971

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 52.3 | 39.8 | 59.8 |
| 63 | 29.4 | 21.0 | 31.6 |



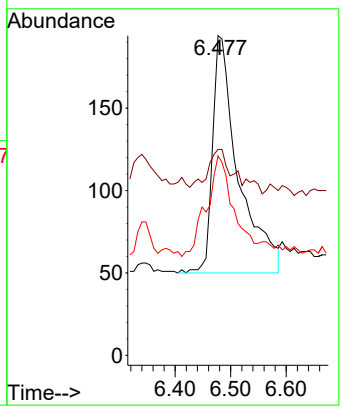


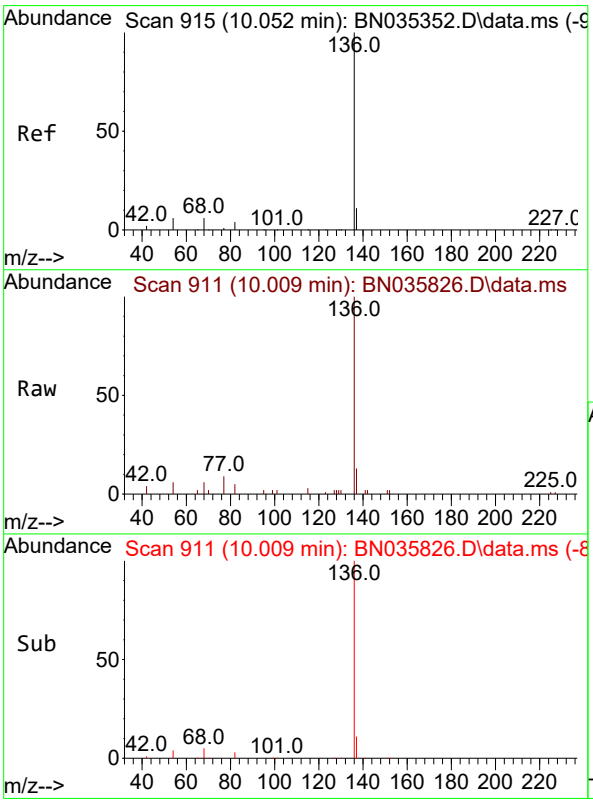

#5
Phenol-d6
Concen: 0.046 ng
RT: 6.477 min Scan# 4
Delta R.T. -0.015 min
Lab File: BN035826.D
Acq: 24 Dec 2024 17:53

**Instrument :**
BNA_N
**ClientSampleId :**
RE117D2-20241218

Tgt Ion: 99 Resp: 466

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 20.2 | 11.4 | 17.2# |
| 71 | 44.6 | 29.3 | 43.9# |

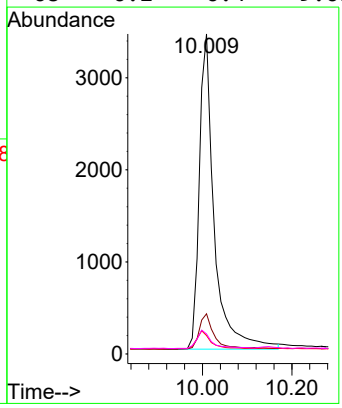


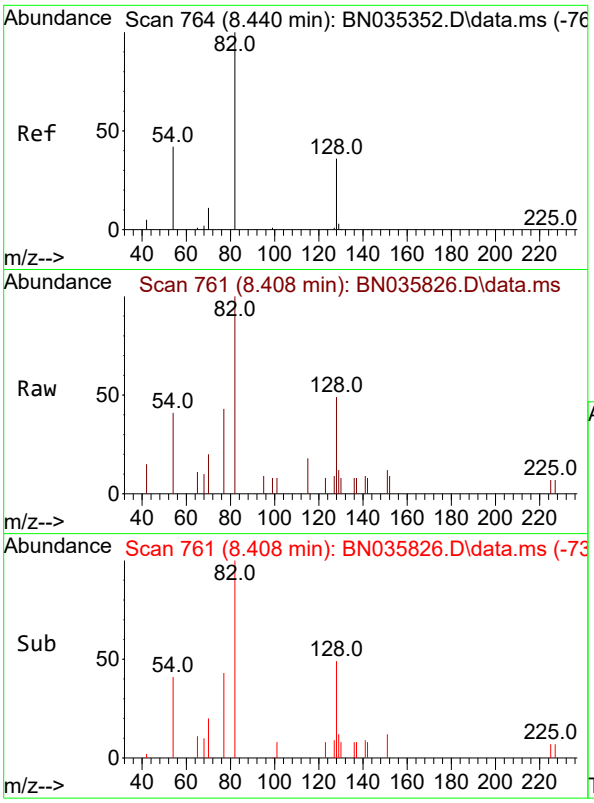




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 911
Delta R.T. -0.011 min
Lab File: BN035826.D
Acq: 24 Dec 2024 17:53

Tgt Ion:136 Resp: 7925

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 12.5 | 10.2 | 15.2 |
| 54 | 5.8 | 6.1 | 9.1# |
| 68 | 6.2 | 6.4 | 9.6# |



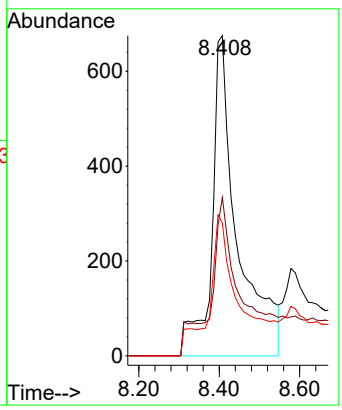


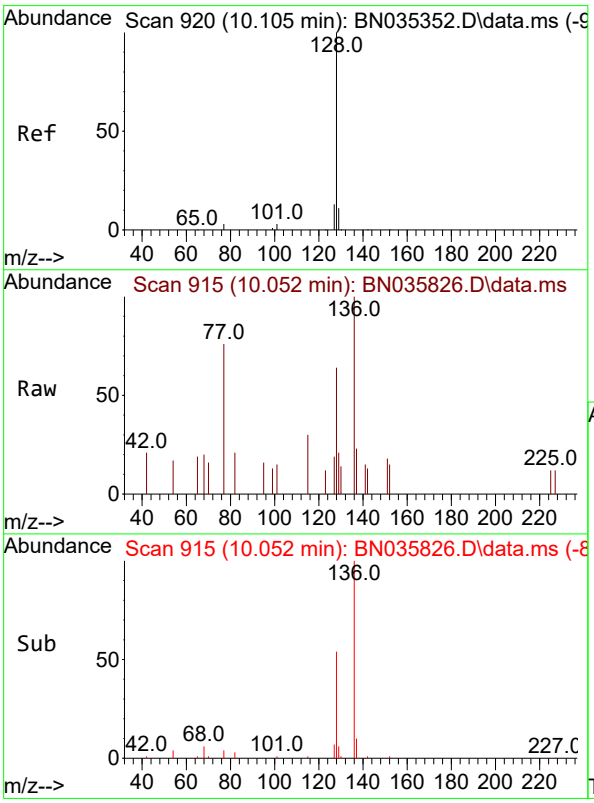

#8
Nitrobenzene-d5
Concen: 0.602 ng
RT: 8.408 min Scan# 7
Delta R.T. -0.000 min
Lab File: BN035826.D
Acq: 24 Dec 2024 17:53

**Instrument :**
BNA_N
**ClientSampleId :**
RE117D2-20241218

Tgt Ion: 82 Resp: 2915

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 49.5 | 33.4 | 50.0 |
| 54 | 41.5 | 36.7 | 55.1 |

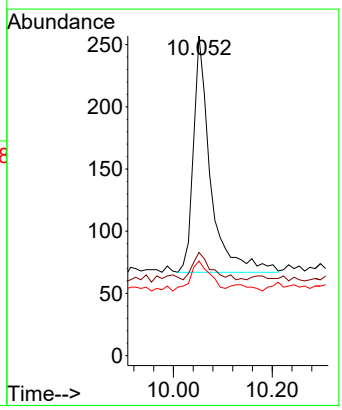


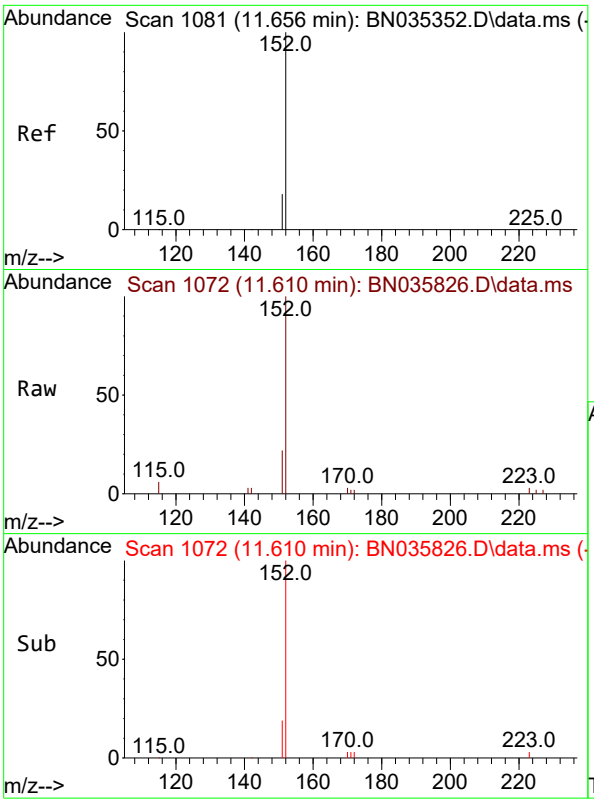




#9
Naphthalene
Concen: 0.022 ng
RT: 10.052 min Scan# 915
Delta R.T. -0.011 min
Lab File: BN035826.D
Acq: 24 Dec 2024 17:53

Tgt Ion:128 Resp: 457

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 32.3 | 9.8 | 14.6# |
| 127 | 29.6 | 11.4 | 17.2# |



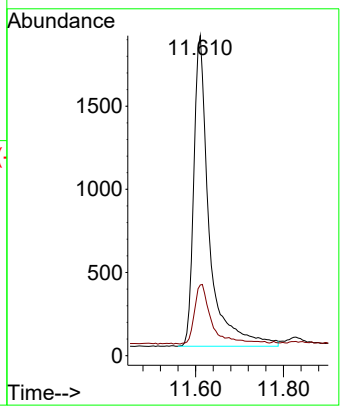


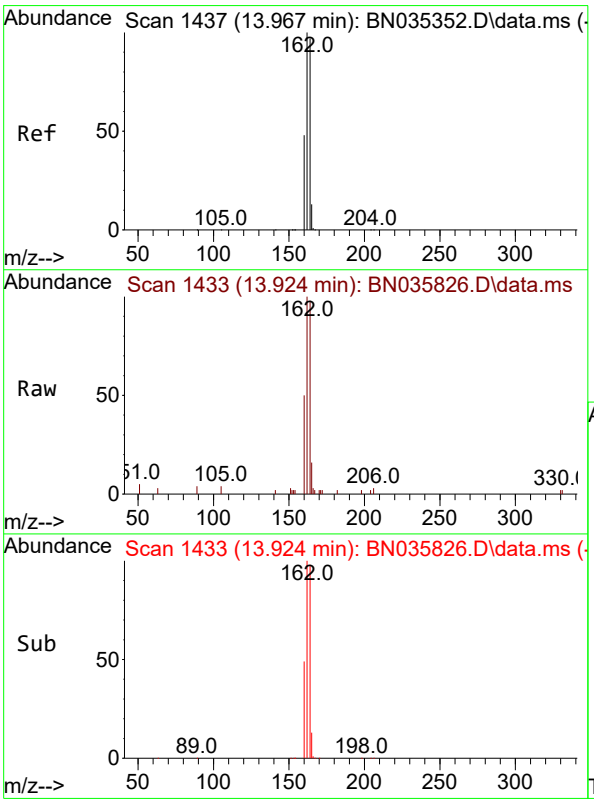

#11
2-Methylnaphthalene-d10
Concen: 0.368 ng
RT: 11.610 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035826.D
Acq: 24 Dec 2024 17:53

**Instrument :**
BNA_N
**ClientSampleId :**
RE117D2-20241218

Tgt Ion:152 Resp: 4563

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 21.5 | 16.6 | 25.0 |

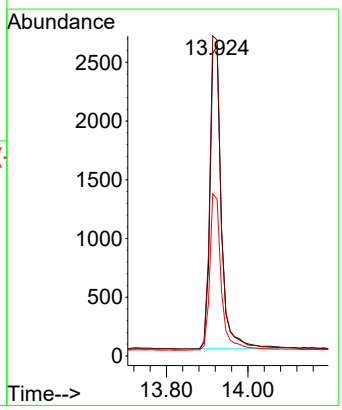


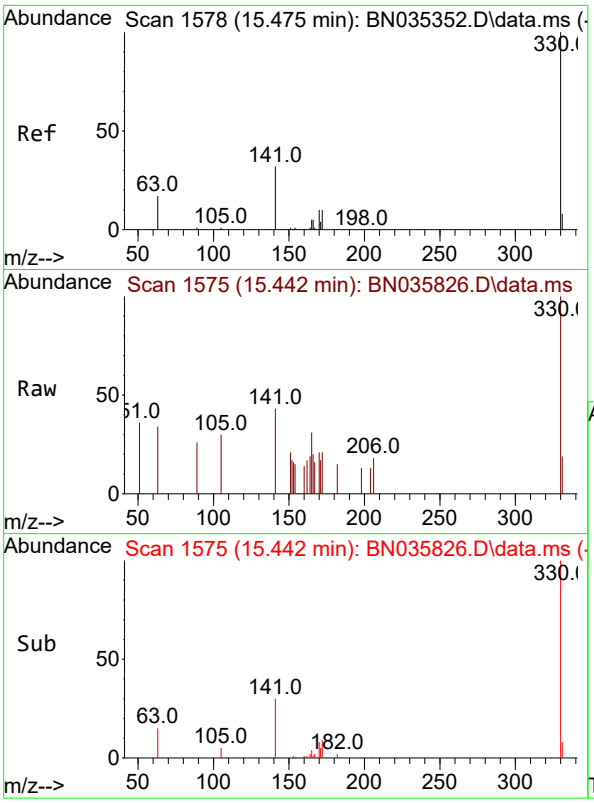




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.924 min Scan# 1433
Delta R.T. -0.011 min
Lab File: BN035826.D
Acq: 24 Dec 2024 17:53

Tgt Ion:164 Resp: 4973

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 102.0 | 82.2 | 123.2 |
| 160 | 50.6 | 40.1 | 60.1 |



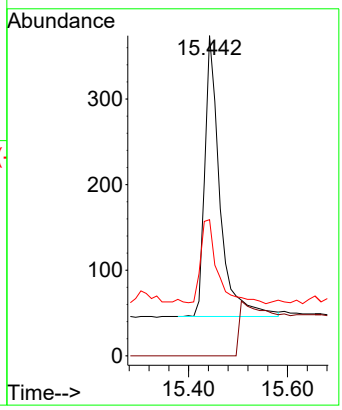


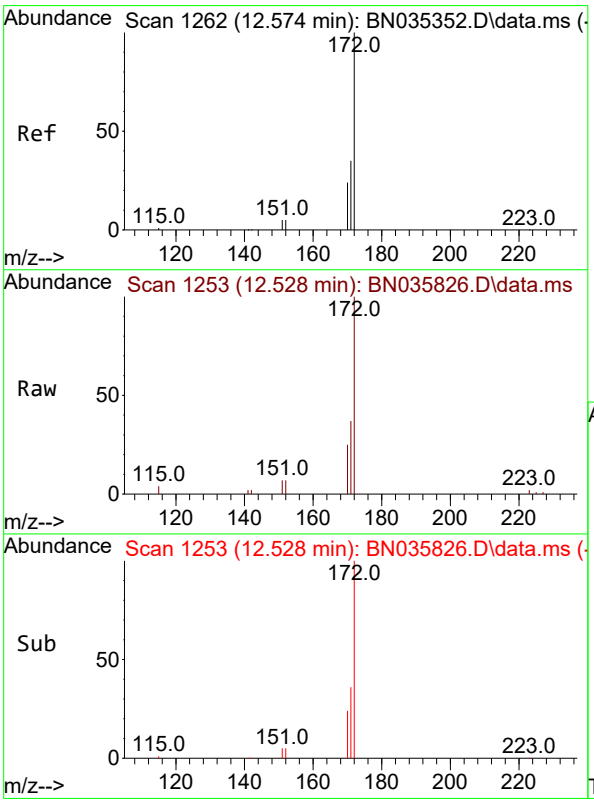

#14
2,4,6-Tribromophenol
Concen: 0.205 ng
RT: 15.442 min Scan# 1
Delta R.T. -0.011 min
Lab File: BN035826.D
Acq: 24 Dec 2024 17:53

**Instrument :**
BNA_N
**ClientSampleId :**
RE117D2-20241218

Tgt Ion:330 Resp: 723

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 0.0 | 0.0 | 0.0 |
| 141 | 33.2 | 26.6 | 40.0 |

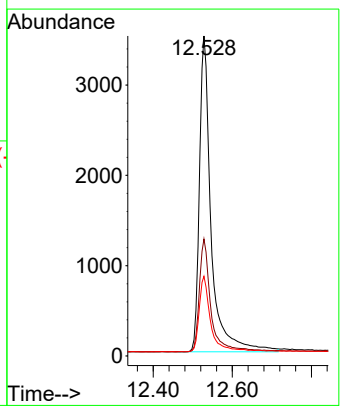


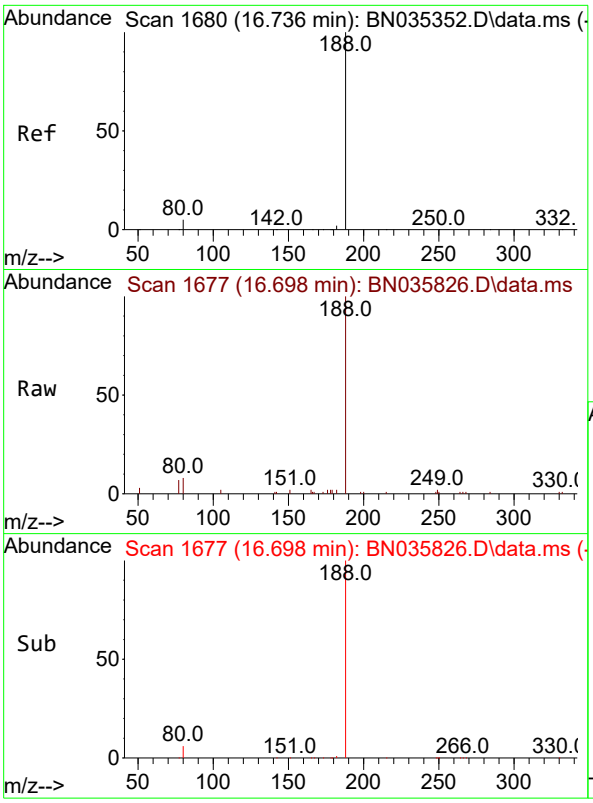




#15
2-Fluorobiphenyl
Concen: 0.384 ng
RT: 12.528 min Scan# 1253
Delta R.T. -0.015 min
Lab File: BN035826.D
Acq: 24 Dec 2024 17:53

Tgt Ion:172 Resp: 7227

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 36.6 | 29.0 | 43.4 |
| 170 | 24.9 | 19.8 | 29.8 |



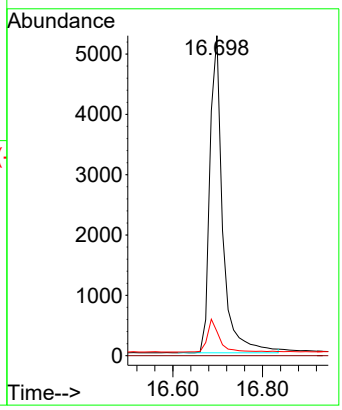


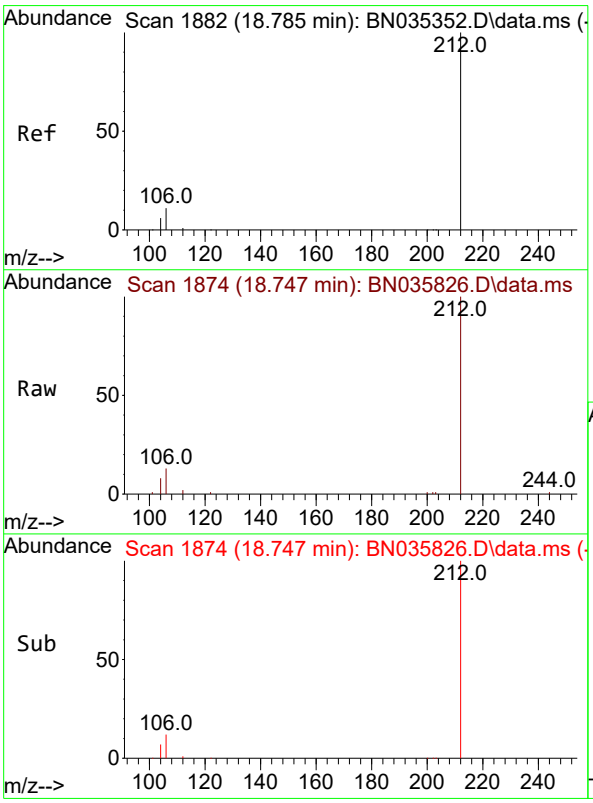

#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035826.D
Acq: 24 Dec 2024 17:53

**Instrument :**
BNA_N
**ClientSampleId :**
RE117D2-20241218

Tgt Ion:188 Resp: 10383

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 7.6 | 4.6 | 6.8# |

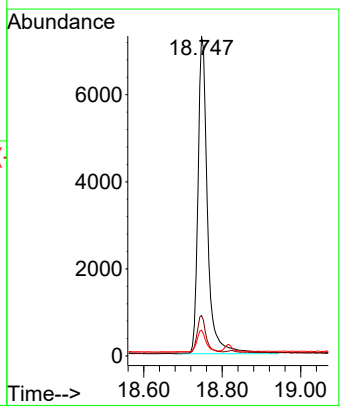


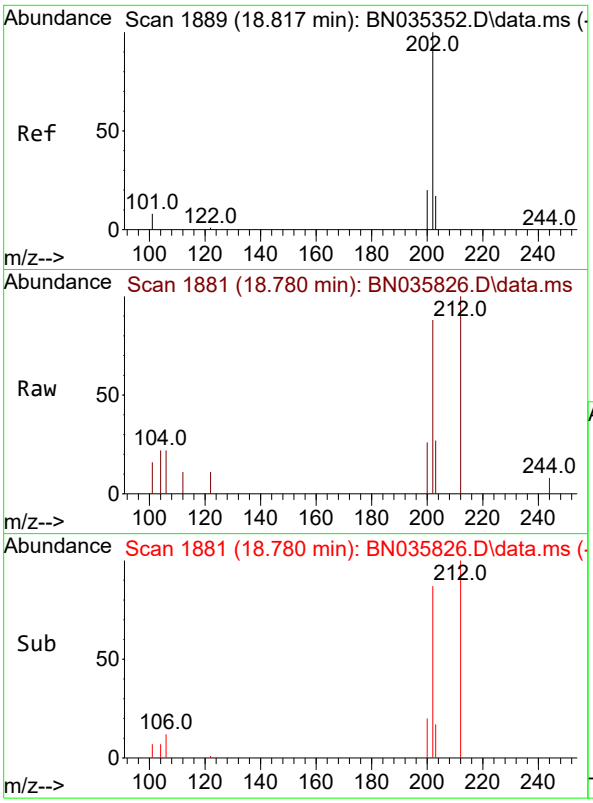




#27
Fluoranthene-d10
Concen: 0.418 ng
RT: 18.747 min Scan# 1874
Delta R.T. -0.014 min
Lab File: BN035826.D
Acq: 24 Dec 2024 17:53

Tgt Ion:212 Resp: 12295

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 11.2 | 9.2 | 13.8 |
| 104 | 6.3 | 5.3 | 7.9 |



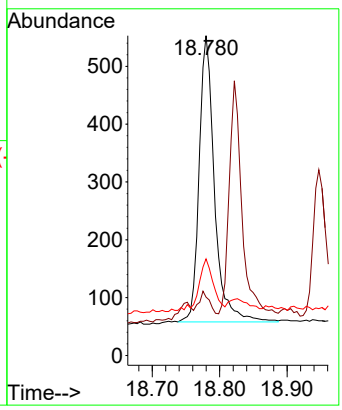


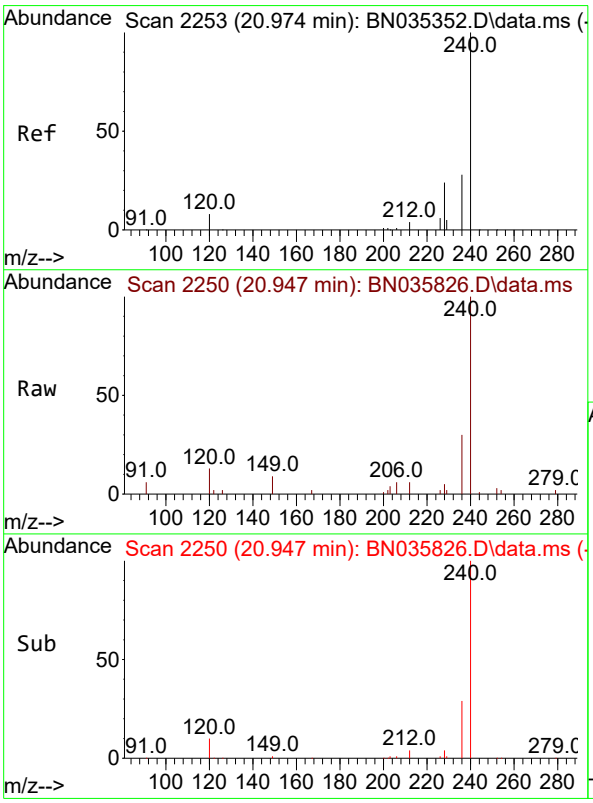

#28
Fluoranthene
Concen: 0.020 ng
RT: 18.780 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035826.D
Acq: 24 Dec 2024 17:53

**Instrument :**
BNA_N
**ClientSampleId :**
RE117D2-20241218

Tgt Ion:202 Resp: 782

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 5.5 | 7.4 | 11.0# |
| 203 | 18.2 | 13.7 | 20.5 |

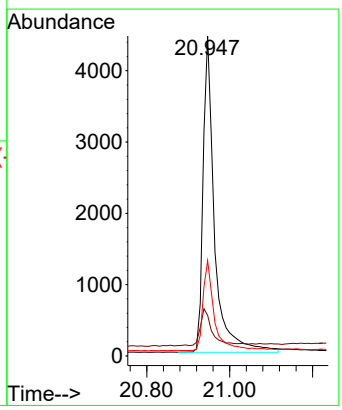


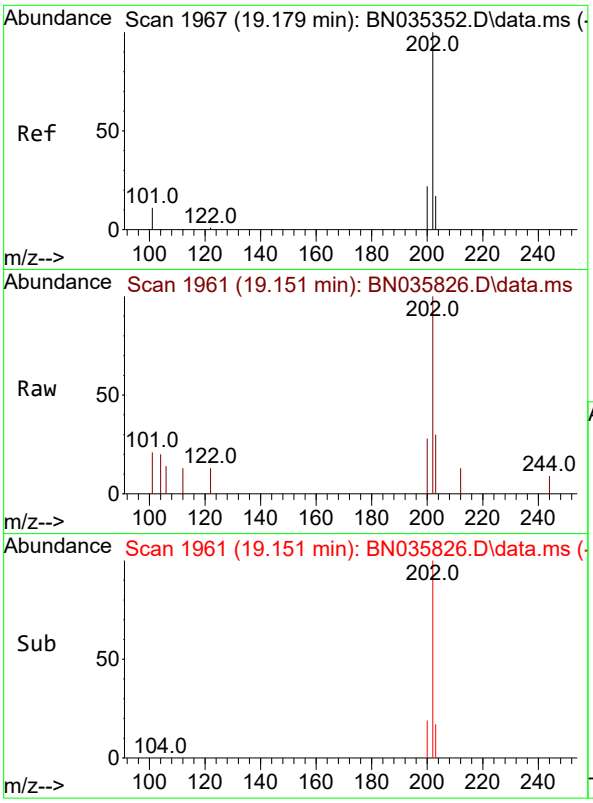




#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2250
Delta R.T. -0.009 min
Lab File: BN035826.D
Acq: 24 Dec 2024 17:53

Tgt Ion:240 Resp: 8532

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 12.7 | 7.9 | 11.9# |
| 236 | 29.8 | 22.9 | 34.3 |



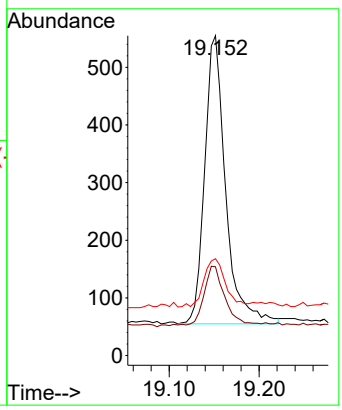


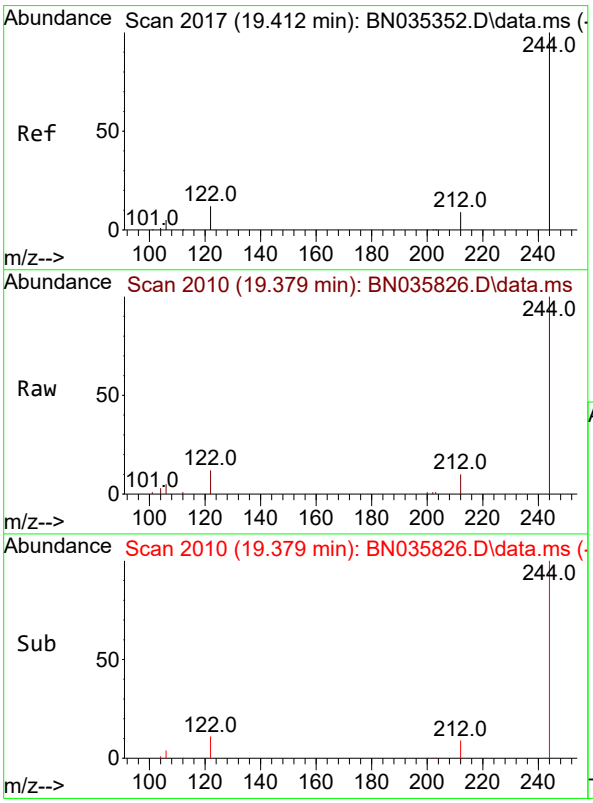

#30
Pyrene
Concen: 0.026 ng
RT: 19.151 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035826.D
Acq: 24 Dec 2024 17:53

**Instrument :**
BNA_N
**ClientSampleId :**
RE117D2-20241218

Tgt Ion:202 Resp: 811

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 20.8 | 17.0 | 25.4 |
| 203 | 16.8 | 14.3 | 21.5 |

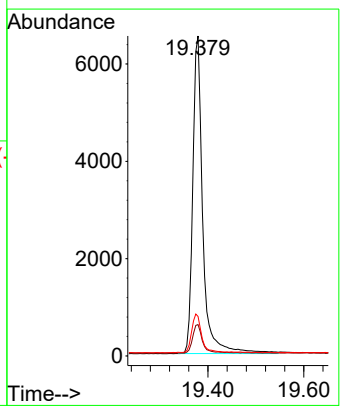


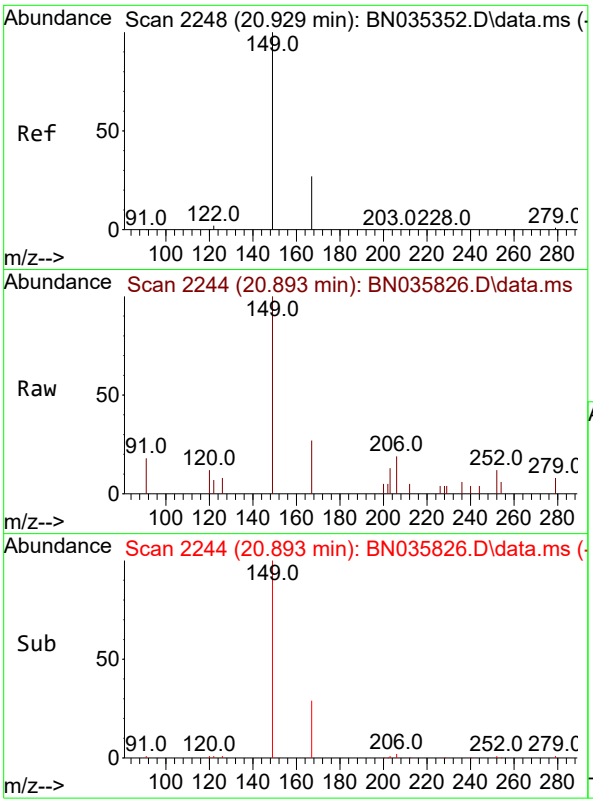




#31
Terphenyl-d14
Concen: 0.564 ng
RT: 19.379 min Scan# 2010
Delta R.T. -0.010 min
Lab File: BN035826.D
Acq: 24 Dec 2024 17:53

Tgt Ion:244 Resp: 9489

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 9.8 | 8.1 | 12.1 |
| 122 | 12.3 | 10.3 | 15.5 |



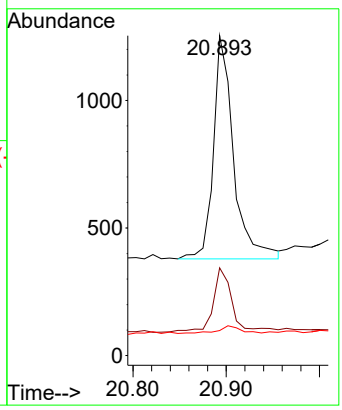


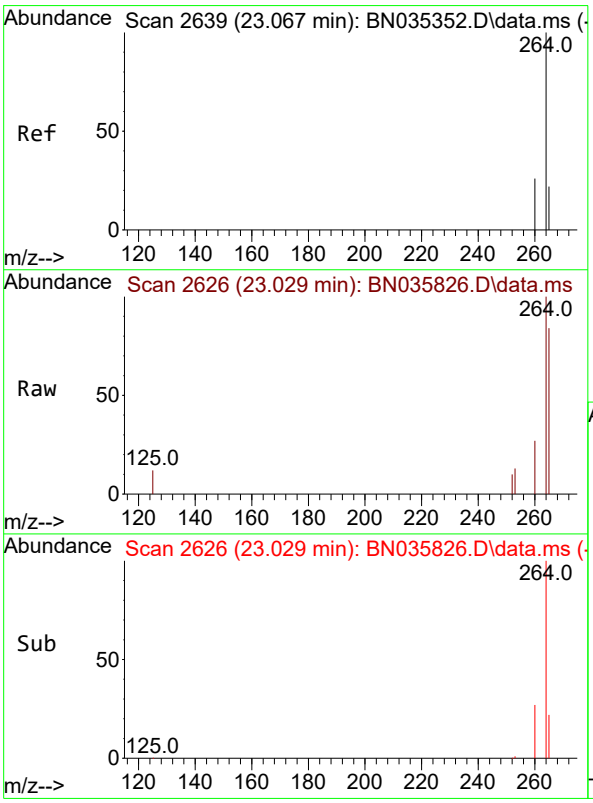

#34
Bis(2-ethylhexyl)phthalate
Concen: 0.111 ng
RT: 20.893 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035826.D
Acq: 24 Dec 2024 17:53

**Instrument :**
BNA_N
**ClientSampleId :**
RE117D2-20241218

Tgt Ion:149 Resp: 1313

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 23.5 | 22.2 | 33.4 |
| 279 | 3.8 | 2.7 | 4.1 |

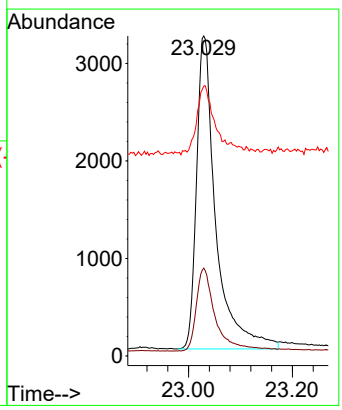


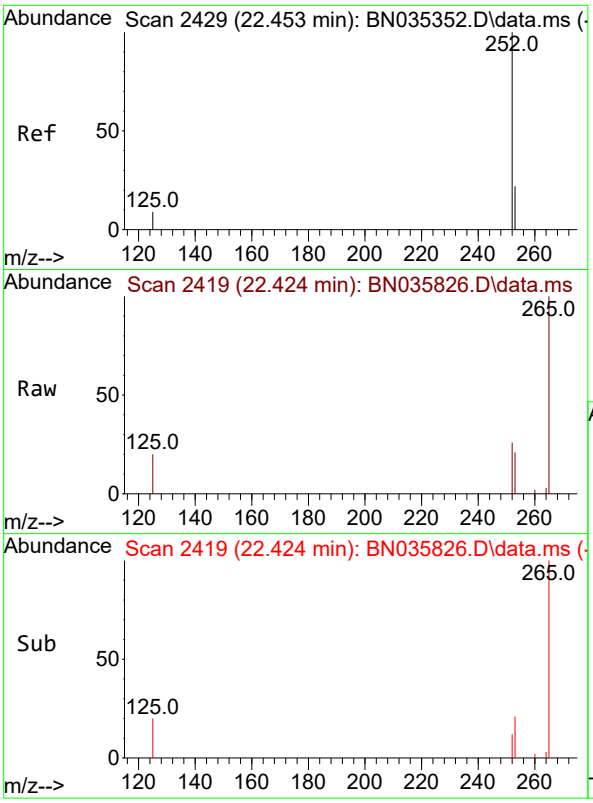




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.029 min Scan# 2626
Delta R.T. -0.012 min
Lab File: BN035826.D
Acq: 24 Dec 2024 17:53

Tgt Ion:264 Resp: 8295

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 27.5 | 21.4 | 32.2 |
| 265 | 84.4 | 40.2 | 60.4# |



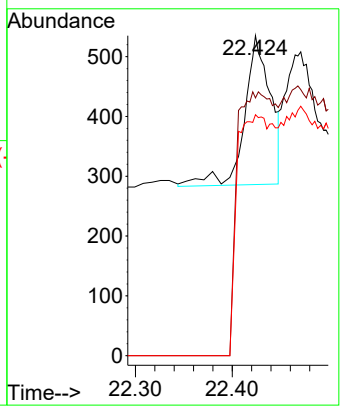



#37
Benzo(b)fluoranthene
Concen: 0.024 ng
RT: 22.424 min Scan# 24
Delta R.T. -0.006 min
Lab File: BN035826.D
Acq: 24 Dec 2024 17:53

**Instrument :**
BNA_N
**ClientSampleId :**
RE117D2-20241218

Tgt Ion:252 Resp: 720

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 80.6 | 19.6 | 29.4# |
| 125 | 75.3 | 9.6 | 14.4# |



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035827.D
Acq On : 24 Dec 2024 18:29
Operator : RC/JU
Sample : P5376-14
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
TT161S1-20241219

Quant Time: Dec 24 23:20:32 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

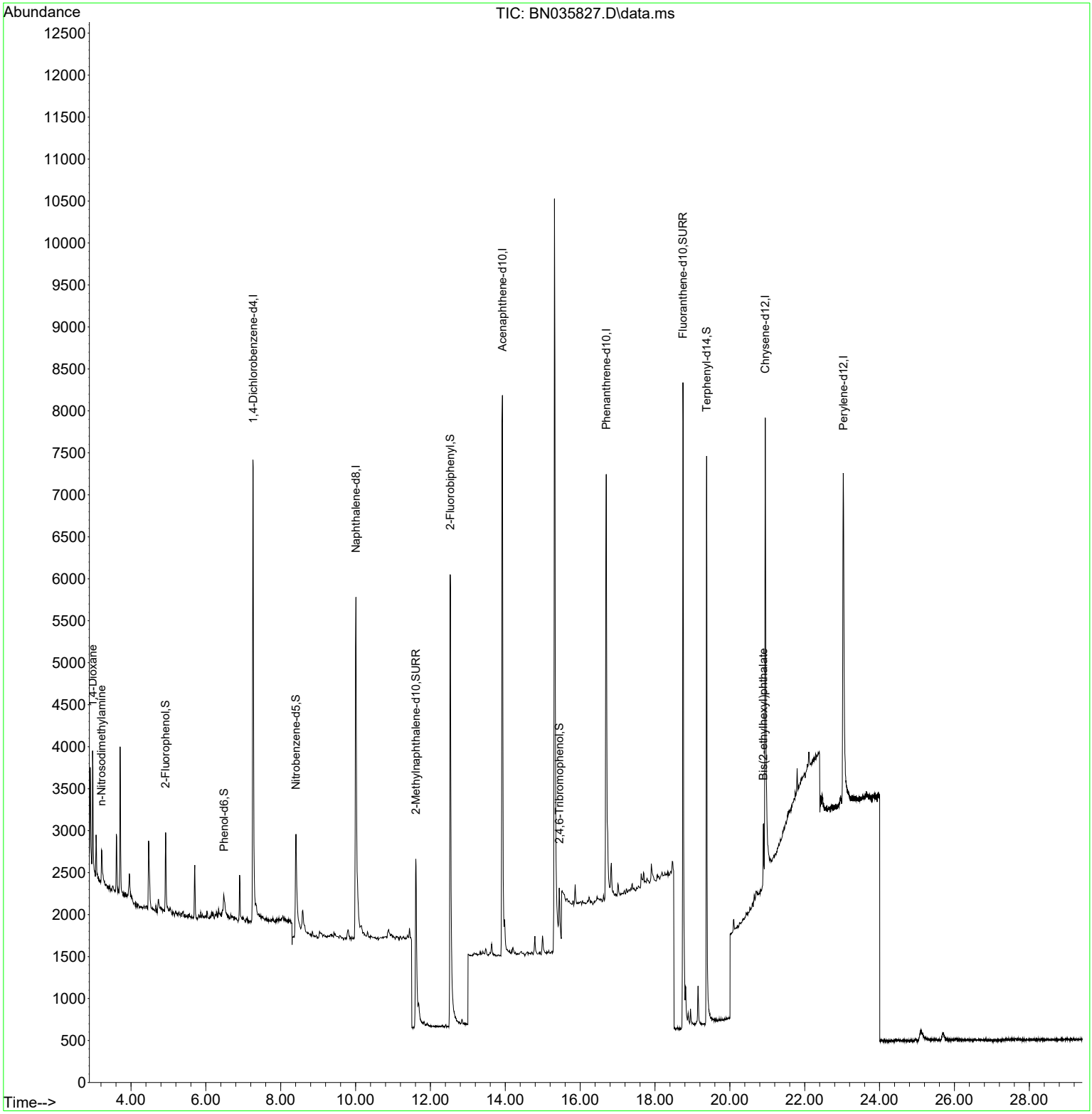
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.264 | 152 | 3265 | 0.400 | ng | 0.00 |
| 7) Naphthalene-d8 | 10.009 | 136 | 7883 | 0.400 | ng | #-0.01 |
| 13) Acenaphthene-d10 | 13.924 | 164 | 4842 | 0.400 | ng | -0.01 |
| 19) Phenanthrene-d10 | 16.698 | 188 | 9395 | 0.400 | ng | # 0.00 |
| 29) Chrysene-d12 | 20.947 | 240 | 7091 | 0.400 | ng | # 0.00 |
| 35) Perylene-d12 | 23.032 | 264 | 6735 | 0.400 | ng | # 0.00 |
| System Monitoring Compounds | | | | | | |
| 4) 2-Fluorophenol | 4.924 | 112 | 907 | 0.111 | ng | -0.01 |
| 5) Phenol-d6 | 6.484 | 99 | 487 | 0.050 | ng | 0.00 |
| 8) Nitrobenzene-d5 | 8.408 | 82 | 2197 | 0.456 | ng | 0.00 |
| 11) 2-Methylnaphthalene-d10 | 11.610 | 152 | 4487 | 0.364 | ng | -0.01 |
| 14) 2,4,6-Tribromophenol | 15.443 | 330 | 681 | 0.198 | ng | -0.01 |
| 15) 2-Fluorobiphenyl | 12.528 | 172 | 7221 | 0.395 | ng | -0.02 |
| 27) Fluoranthene-d10 | 18.747 | 212 | 10577 | 0.397 | ng | -0.01 |
| 31) Terphenyl-d14 | 19.379 | 244 | 7825 | 0.559 | ng | 0.00 |
| Target Compounds | | | | | | Qvalue |
| 2) 1,4-Dioxane | 2.974 | 88 | 1019 | 0.326 | ng | # 95 |
| 3) n-Nitrosodimethylamine | 3.213 | 42 | 132 | 0.051 | ng | # 1 |
| 34) Bis(2-ethylhexyl)phtha... | 20.893 | 149 | 896 | 0.091 | ng | # 98 |

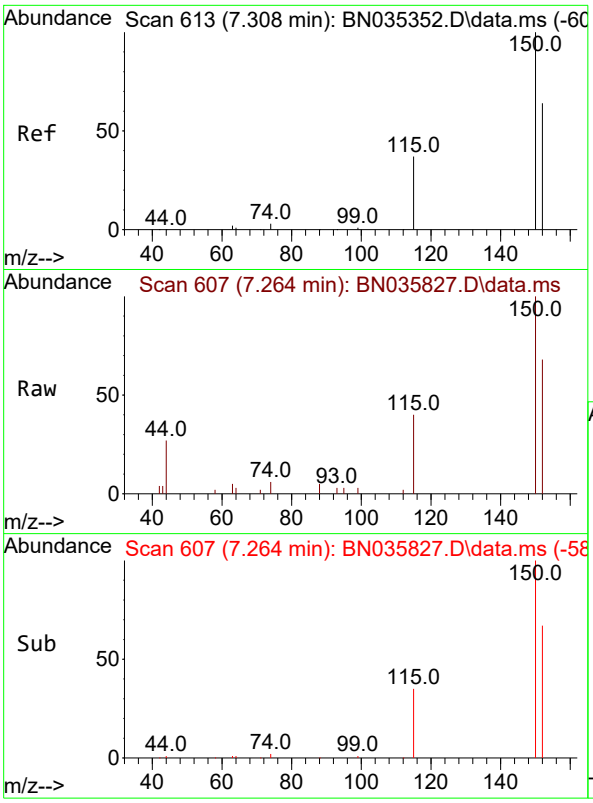
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035827.D
Acq On : 24 Dec 2024 18:29
Operator : RC/JU
Sample : P5376-14
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
TT161S1-20241219

Quant Time: Dec 24 23:20:32 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



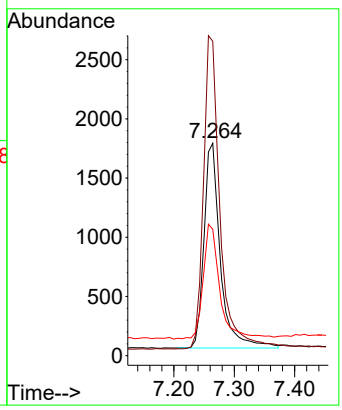


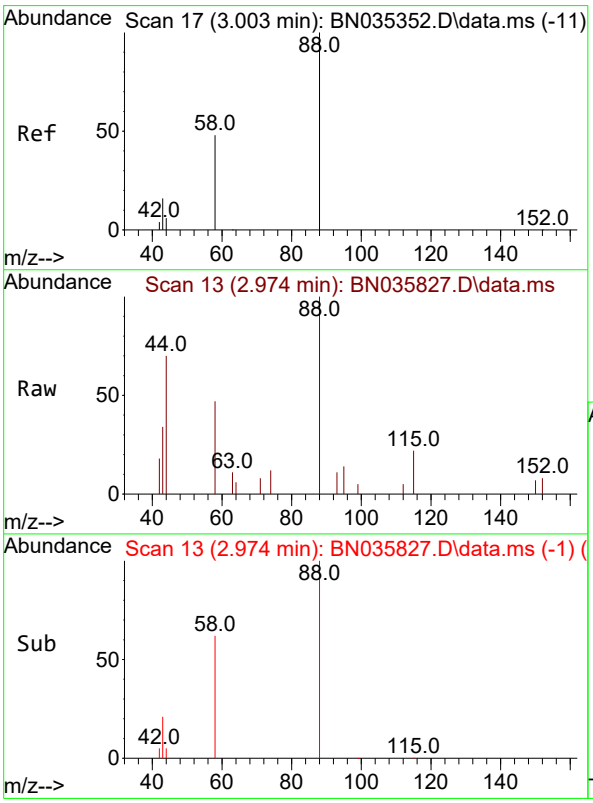

#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.264 min Scan# 6
Delta R.T. -0.008 min
Lab File: BN035827.D
Acq: 24 Dec 2024 18:29

**Instrument :**
BNA_N
**ClientSampleId :**
TT161S1-20241219

Tgt Ion:152 Resp: 3265

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 148.0 | 124.0 | 186.0 |
| 115 | 59.5 | 49.6 | 74.4 |

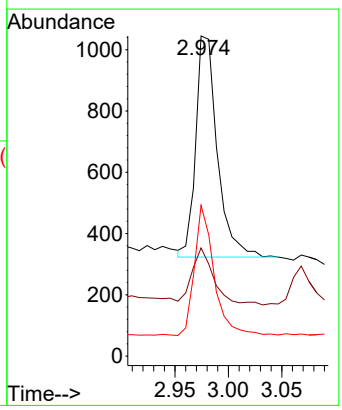


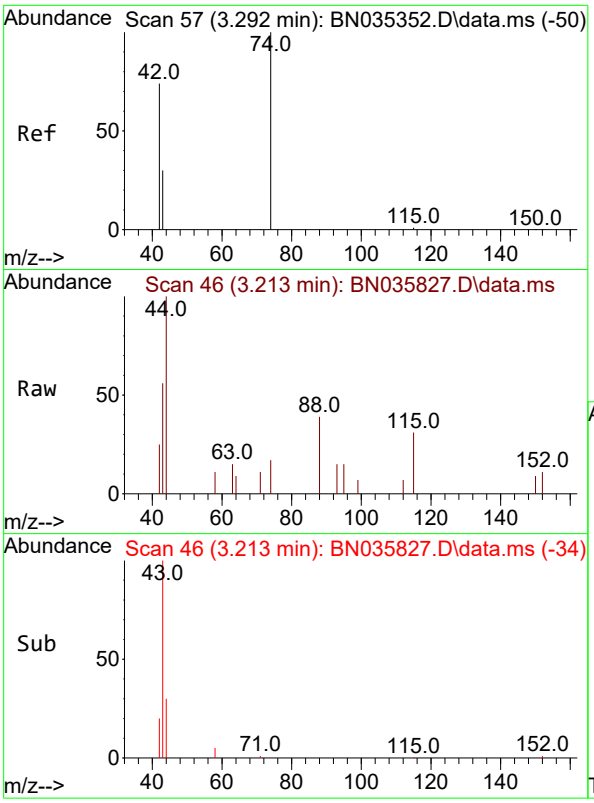




#2
1,4-Dioxane
Concen: 0.326 ng
RT: 2.974 min Scan# 13
Delta R.T. -0.007 min
Lab File: BN035827.D
Acq: 24 Dec 2024 18:29

Tgt Ion: 88 Resp: 1019

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 26.0 | 17.2 | 25.8# |
| 58 | 53.1 | 44.5 | 66.7 |



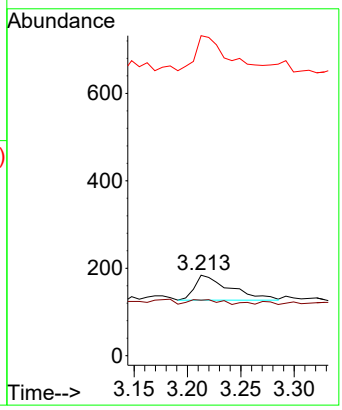


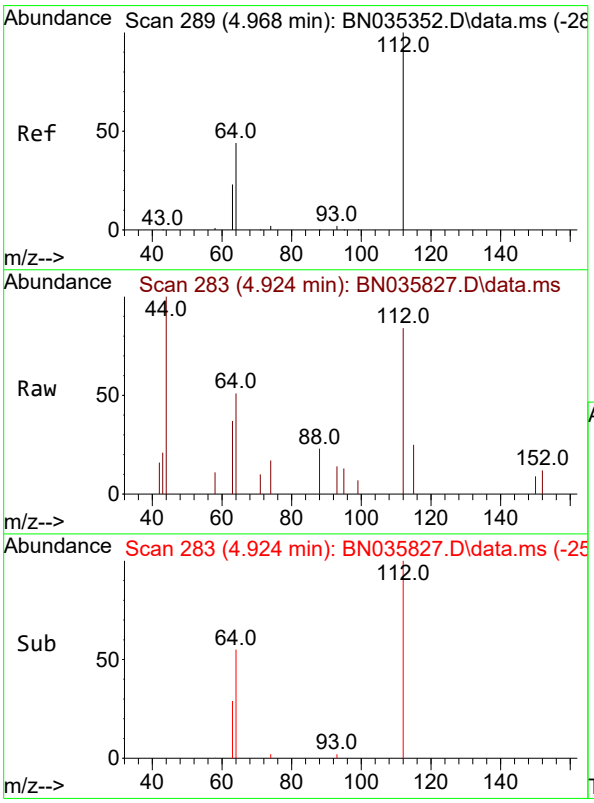

#3
n-Nitrosodimethylamine
Concen: 0.051 ng
RT: 3.213 min Scan# 4
Delta R.T. -0.065 min
Lab File: BN035827.D
Acq: 24 Dec 2024 18:29

**Instrument :**
BNA_N
**ClientSampleId :**
TT161S1-20241219

Tgt Ion: 42 Resp: 132

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 15.2 | 124.9 | 187.3# |
| 44 | 120.5 | 2.2 | 3.4# |

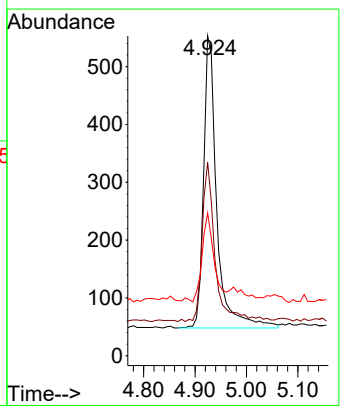


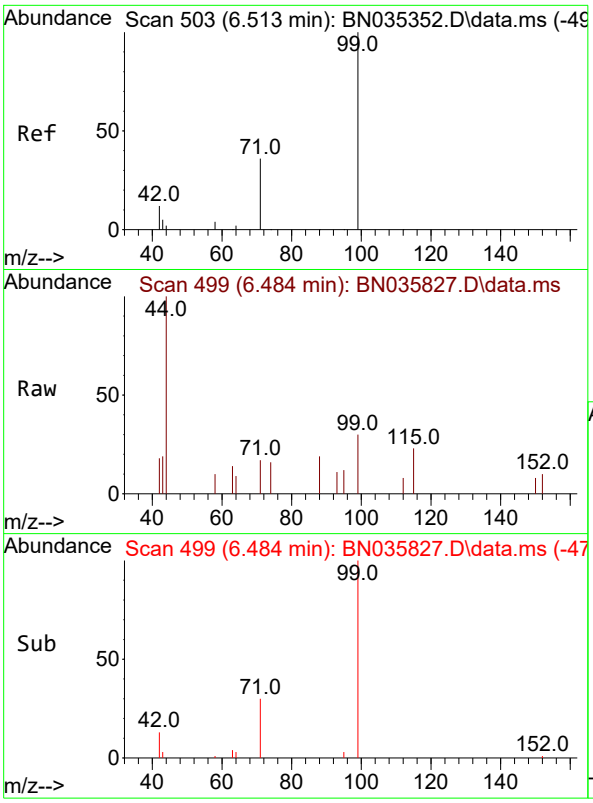




#4
2-Fluorophenol
Concen: 0.111 ng
RT: 4.924 min Scan# 283
Delta R.T. -0.015 min
Lab File: BN035827.D
Acq: 24 Dec 2024 18:29

Tgt Ion:112 Resp: 907

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 53.8 | 39.8 | 59.8 |
| 63 | 26.7 | 21.0 | 31.6 |



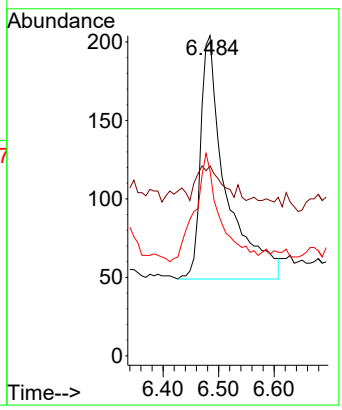


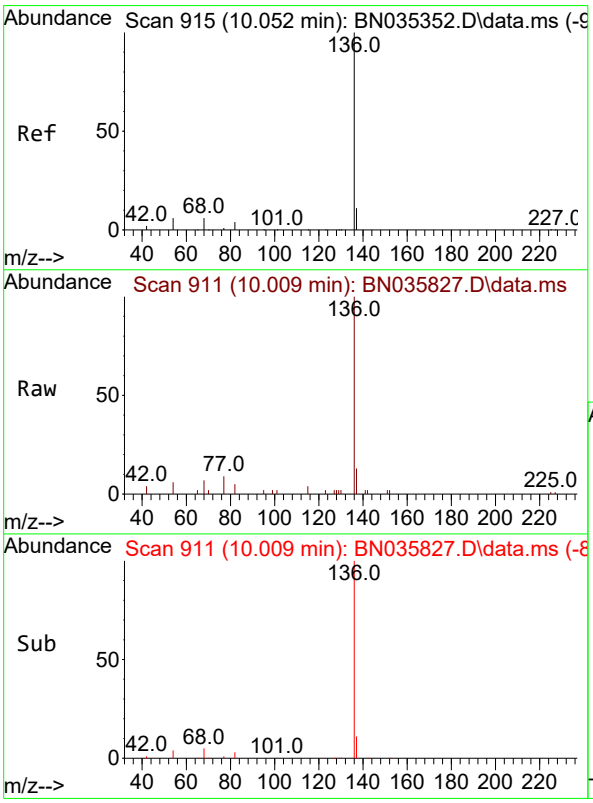

#5
Phenol-d6
Concen: 0.050 ng
RT: 6.484 min Scan# 4
Delta R.T. -0.007 min
Lab File: BN035827.D
Acq: 24 Dec 2024 18:29

**Instrument :**
BNA_N
**ClientSampleId :**
TT161S1-20241219

Tgt Ion: 99 Resp: 487

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 13.3 | 11.4 | 17.2 |
| 71 | 44.6 | 29.3 | 43.9# |

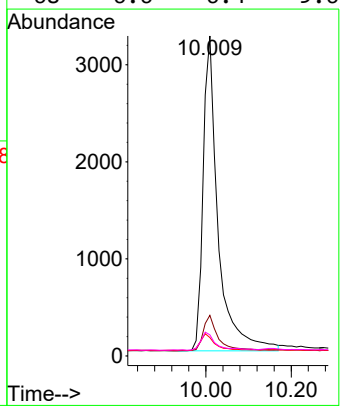


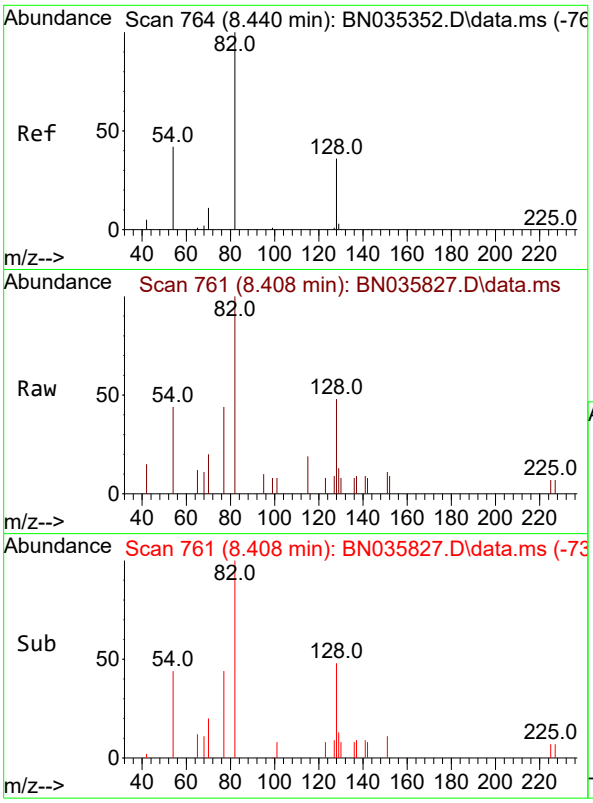




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 911
Delta R.T. -0.011 min
Lab File: BN035827.D
Acq: 24 Dec 2024 18:29

Tgt Ion:136 Resp: 7883

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 12.7 | 10.2 | 15.2 |
| 54 | 5.7 | 6.1 | 9.1# |
| 68 | 6.6 | 6.4 | 9.6 |



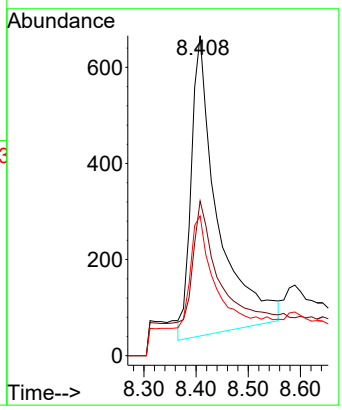


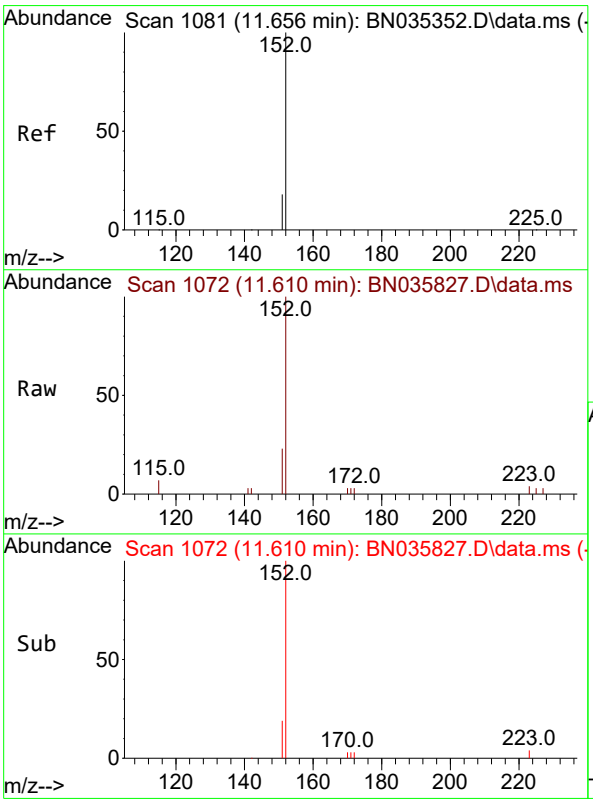

#8
Nitrobenzene-d5
Concen: 0.456 ng
RT: 8.408 min Scan# 7
Delta R.T. -0.000 min
Lab File: BN035827.D
Acq: 24 Dec 2024 18:29

**Instrument :**
BNA_N
**ClientSampleId :**
TT161S1-20241219

Tgt Ion: 82 Resp: 2197

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 48.3 | 33.4 | 50.0 |
| 54 | 43.7 | 36.7 | 55.1 |

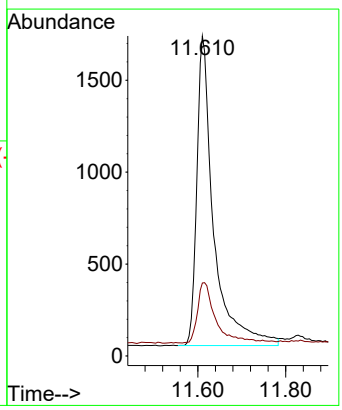


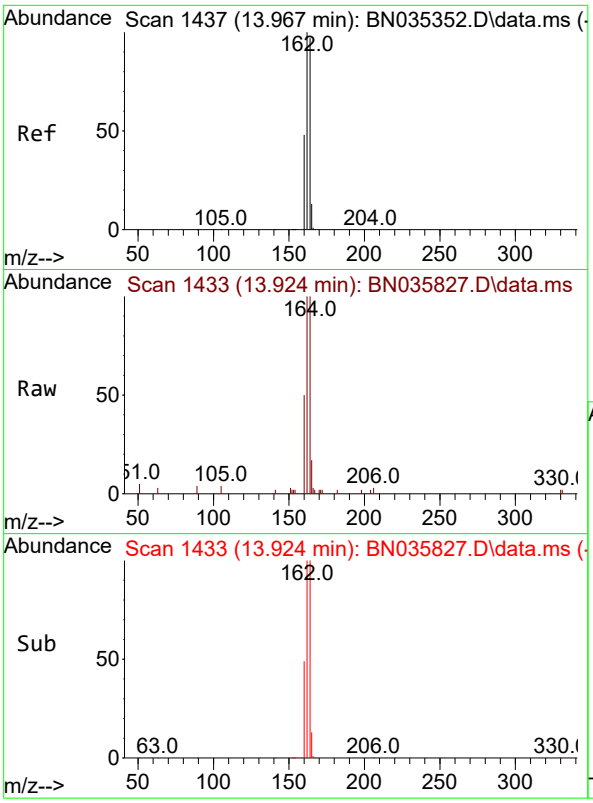




#11
2-Methylnaphthalene-d10
Concen: 0.364 ng
RT: 11.610 min Scan# 1072
Delta R.T. -0.010 min
Lab File: BN035827.D
Acq: 24 Dec 2024 18:29

Tgt Ion:152 Resp: 4487

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.8 | 16.6 | 25.0 |



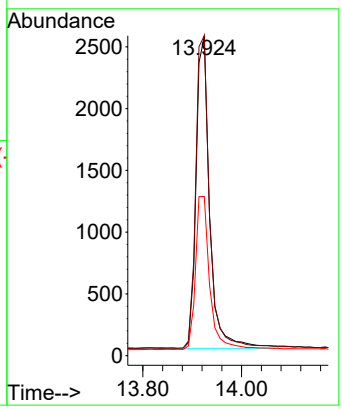


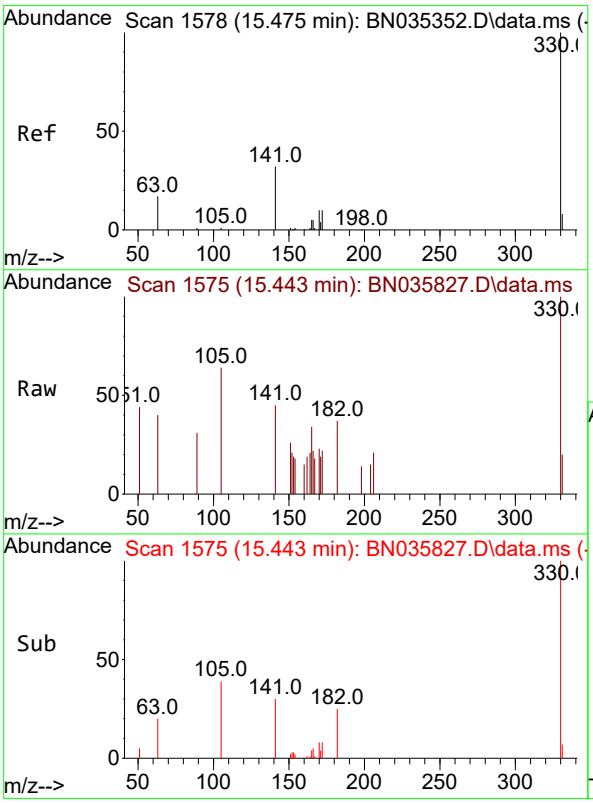

#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.924 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035827.D
Acq: 24 Dec 2024 18:29

**Instrument :**
BNA_N
**ClientSampleId :**
TT161S1-20241219

Tgt Ion:164 Resp: 4842

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 100.3 | 82.2 | 123.2 |
| 160 | 49.9 | 40.1 | 60.1 |

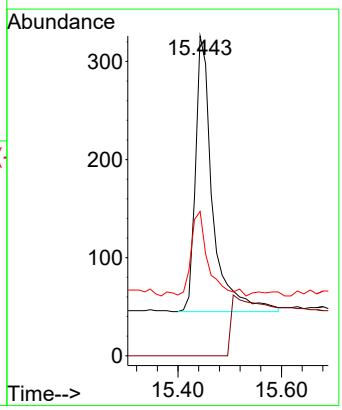


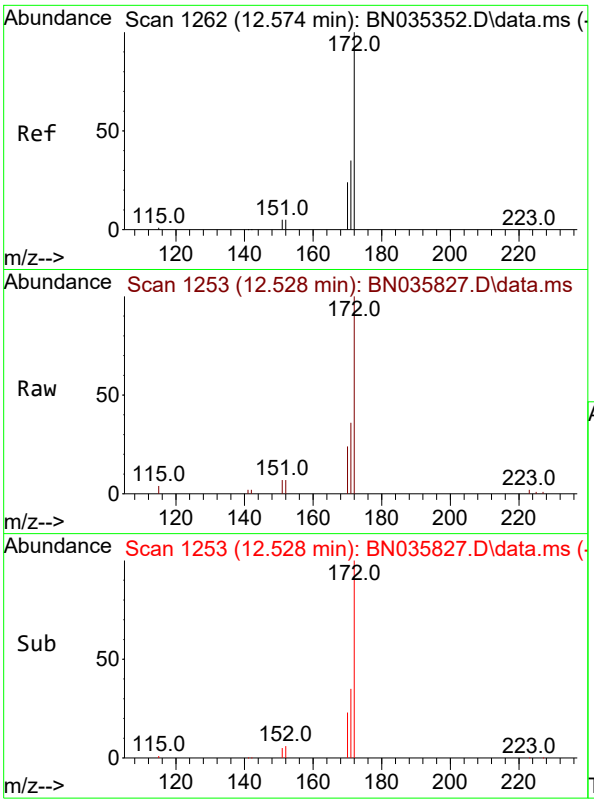




#14
2,4,6-Tribromophenol
Concen: 0.198 ng
RT: 15.443 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN035827.D
Acq: 24 Dec 2024 18:29

Tgt Ion:330 Resp: 681

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 0.0 | 0.0 | 0.0 |
| 141 | 29.8 | 26.6 | 40.0 |



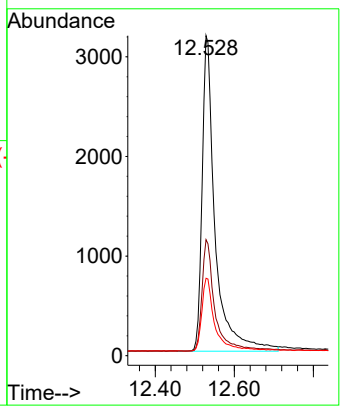


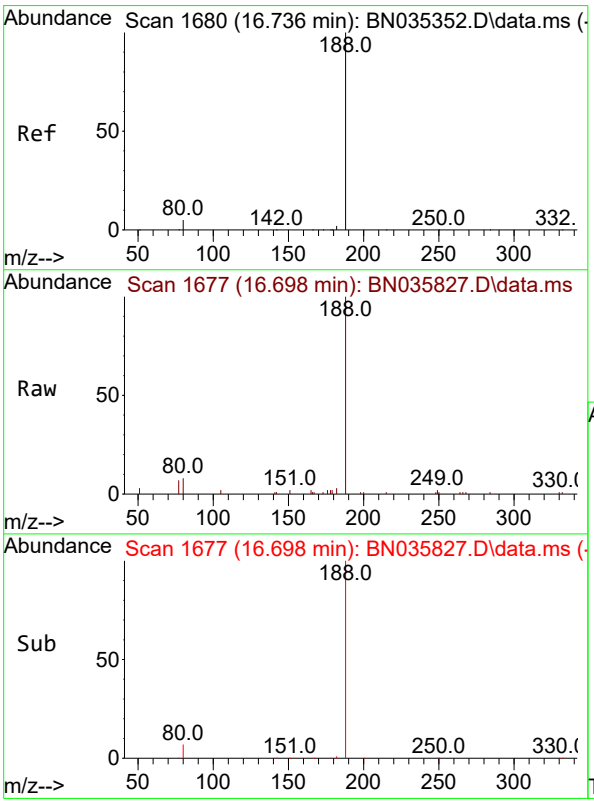

#15
2-Fluorobiphenyl
Concen: 0.395 ng
RT: 12.528 min Scan# 1
Delta R.T. -0.015 min
Lab File: BN035827.D
Acq: 24 Dec 2024 18:29

**Instrument :**
BNA_N
**ClientSampleId :**
TT161S1-20241219

Tgt Ion:172 Resp: 7221

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 36.3 | 29.0 | 43.4 |
| 170 | 24.2 | 19.8 | 29.8 |

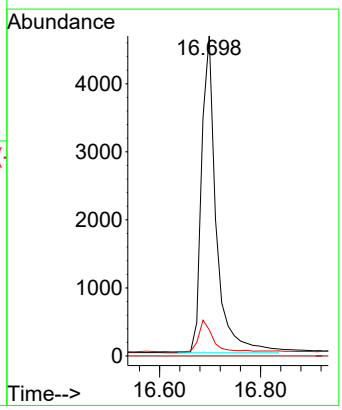


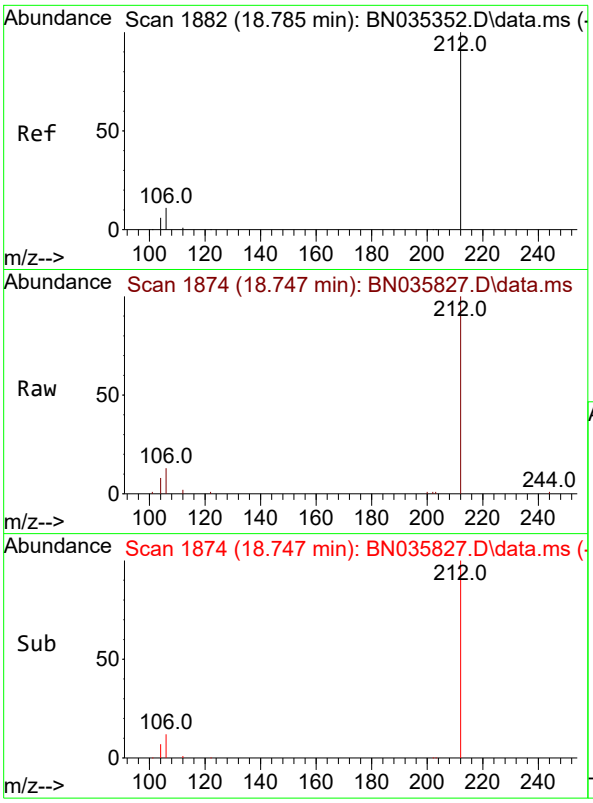




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1677
Delta R.T. -0.000 min
Lab File: BN035827.D
Acq: 24 Dec 2024 18:29

Tgt Ion:188 Resp: 9395

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 8.2 | 4.6 | 6.8# |



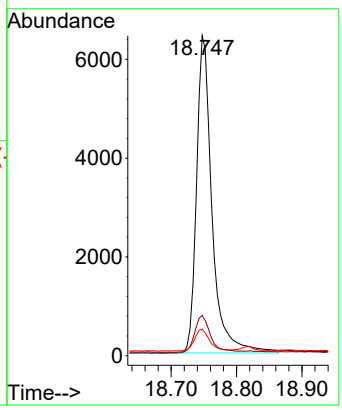


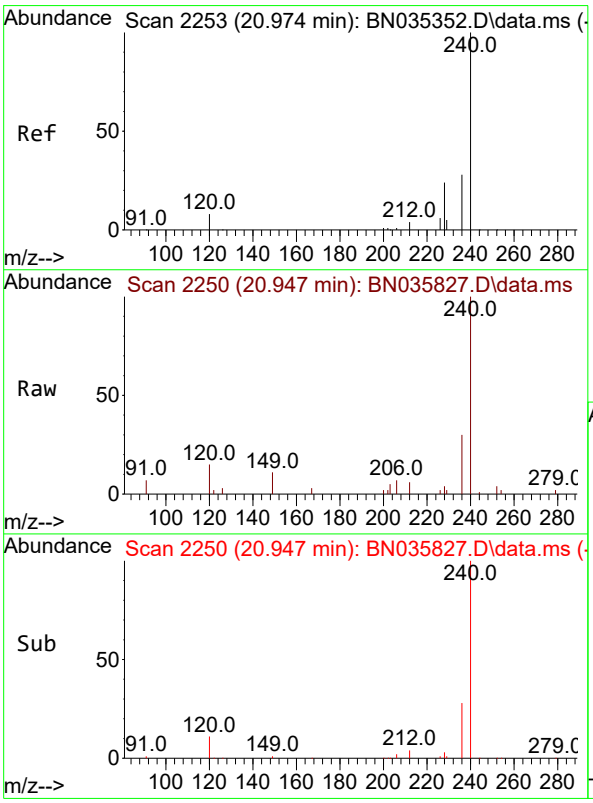

#27
Fluoranthene-d10
Concen: 0.397 ng
RT: 18.747 min Scan# 1
Delta R.T. -0.014 min
Lab File: BN035827.D
Acq: 24 Dec 2024 18:29

**Instrument :**
BNA_N
**ClientSampleId :**
TT161S1-20241219

Tgt Ion:212 Resp: 10577

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 11.7 | 9.2 | 13.8 |
| 104 | 6.7 | 5.3 | 7.9 |

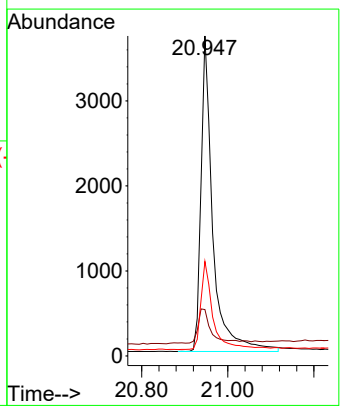


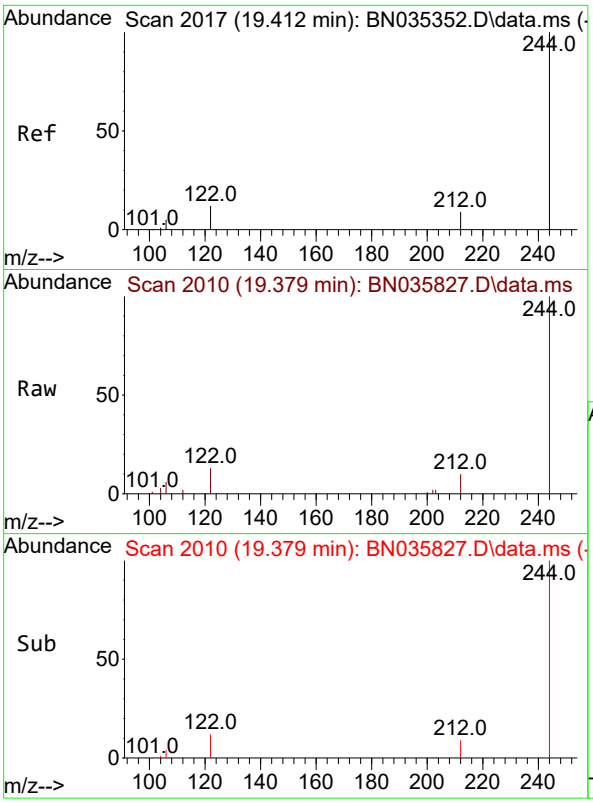




#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2250
Delta R.T. -0.009 min
Lab File: BN035827.D
Acq: 24 Dec 2024 18:29

Tgt Ion:240 Resp: 7091

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 14.5 | 7.9 | 11.9# |
| 236 | 29.6 | 22.9 | 34.3 |



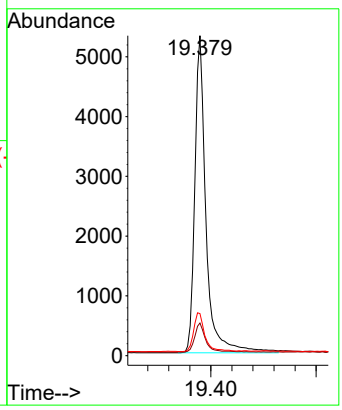


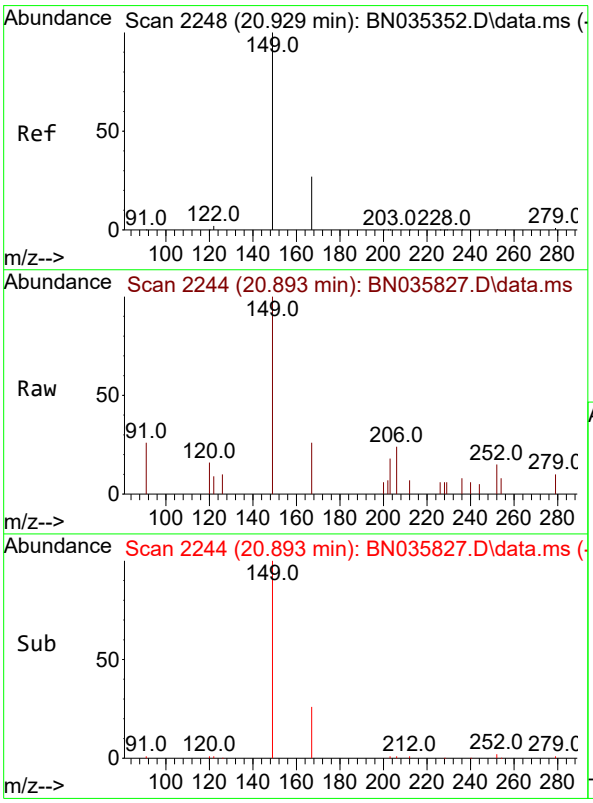

#31
Terphenyl-d14
Concen: 0.559 ng
RT: 19.379 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035827.D
Acq: 24 Dec 2024 18:29

**Instrument :**
BNA_N
**ClientSampleId :**
TT161S1-20241219

Tgt Ion:244 Resp: 7825

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 10.2 | 8.1 | 12.1 |
| 122 | 13.1 | 10.3 | 15.5 |

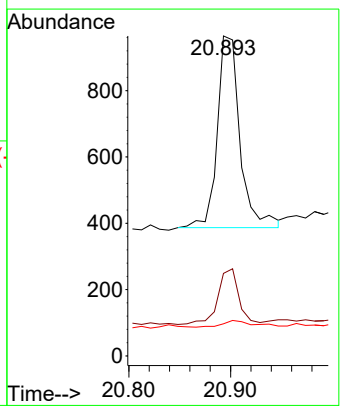


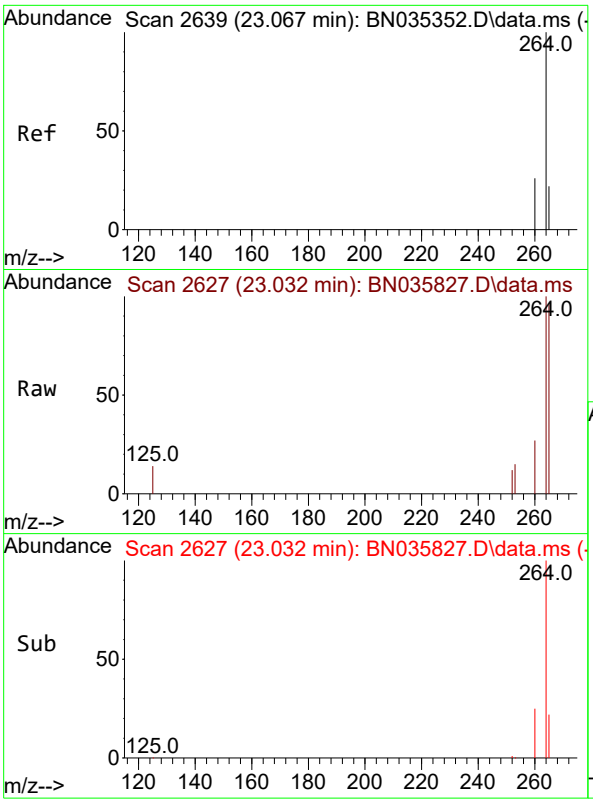




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.091 ng
RT: 20.893 min Scan# 2244
Delta R.T. -0.018 min
Lab File: BN035827.D
Acq: 24 Dec 2024 18:29

Tgt Ion:149 Resp: 896

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 26.8 | 22.2 | 33.4 |
| 279 | 4.6 | 2.7 | 4.1# |



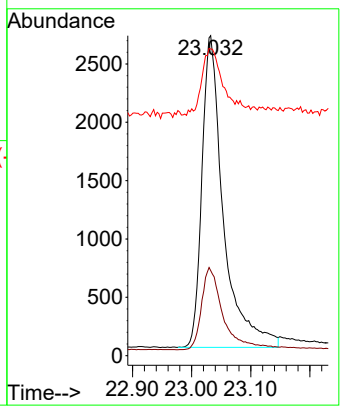



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.032 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035827.D
Acq: 24 Dec 2024 18:29

**Instrument :**
BNA_N
**ClientSampleId :**
TT161S1-20241219

Tgt Ion:264 Resp: 6735

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 26.6 | 21.4 | 32.2 |
| 265 | 95.8 | 40.2 | 60.4# |



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035828.D
Acq On : 24 Dec 2024 19:05
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 20 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Quant Time: Dec 24 23:54:42 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

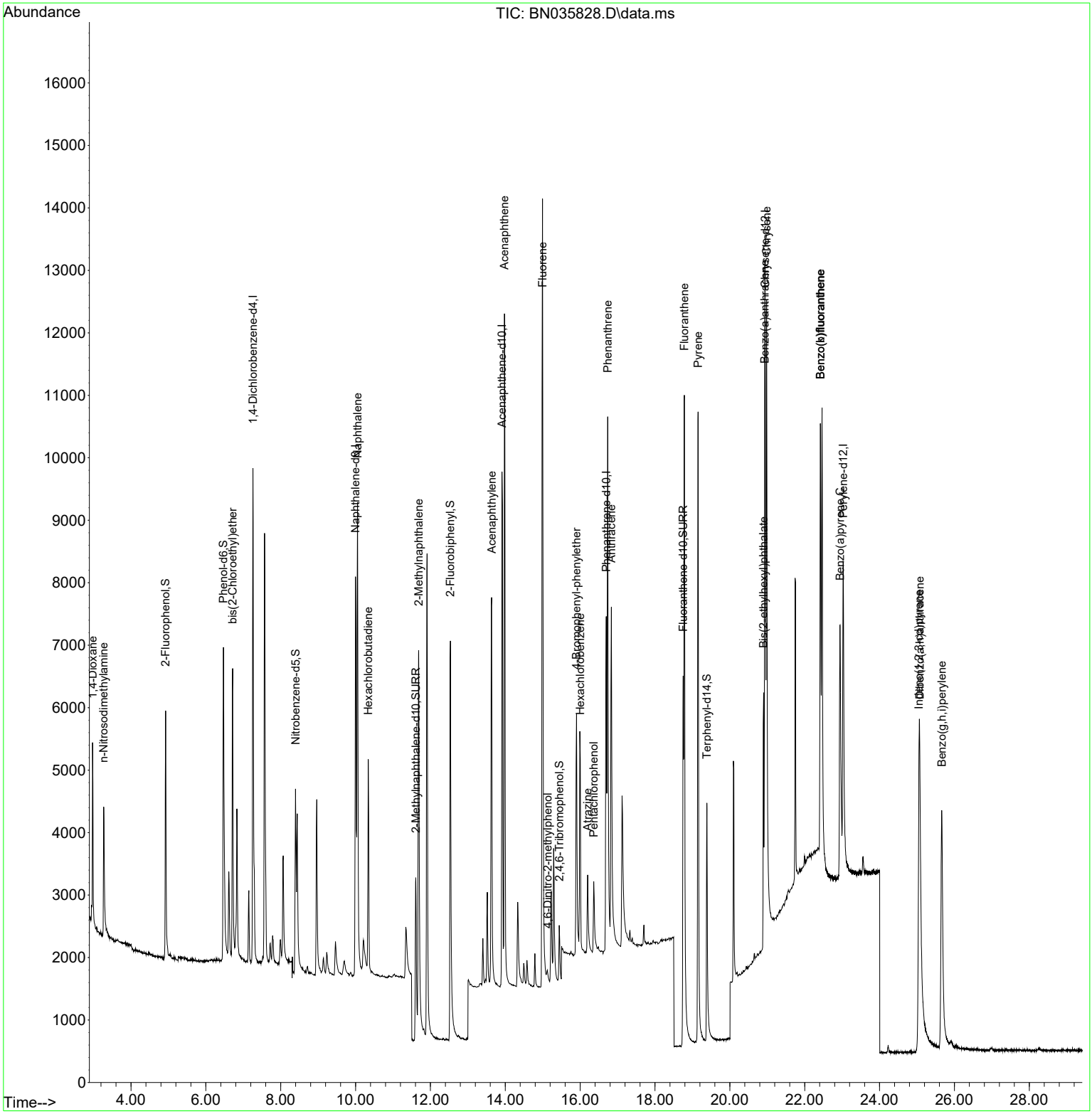
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.257 | 152 | 4008 | 0.400 | ng | | -0.02 |
| 7) Naphthalene-d8 | 9.998 | 136 | 9840 | 0.400 | ng | | -0.02 |
| 13) Acenaphthene-d10 | 13.914 | 164 | 5373 | 0.400 | ng | | -0.02 |
| 19) Phenanthrene-d10 | 16.698 | 188 | 9905 | 0.400 | ng | | # 0.00 |
| 29) Chrysene-d12 | 20.947 | 240 | 7447 | 0.400 | ng | | # 0.00 |
| 35) Perylene-d12 | 23.029 | 264 | 7426 | 0.400 | ng | | #-0.01 |
| System Monitoring Compounds | | | | | | | |
| 4) 2-Fluorophenol | 4.924 | 112 | 3589 | 0.358 | ng | | -0.01 |
| 5) Phenol-d6 | 6.470 | 99 | 6110 | 0.506 | ng | | -0.02 |
| 8) Nitrobenzene-d5 | 8.397 | 82 | 3407 | 0.567 | ng | | -0.01 |
| 11) 2-Methylnaphthalene-d10 | 11.610 | 152 | 5246 | 0.341 | ng | | -0.01 |
| 14) 2,4,6-Tribromophenol | 15.442 | 330 | 1040 | 0.273 | ng | | -0.01 |
| 15) 2-Fluorobiphenyl | 12.533 | 172 | 8409 | 0.414 | ng | | -0.01 |
| 27) Fluoranthene-d10 | 18.752 | 212 | 9222 | 0.328 | ng | | 0.00 |
| 31) Terphenyl-d14 | 19.384 | 244 | 6024 | 0.410 | ng | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 2.974 | 88 | 2007 | 0.524 | ng | | 99 |
| 3) n-Nitrosodimethylamine | 3.270 | 42 | 1227 | 0.384 | ng | # | 82 |
| 6) bis(2-Chloroethyl)ether | 6.715 | 93 | 4129 | 0.407 | ng | | 99 |
| 9) Naphthalene | 10.052 | 128 | 10772 | 0.415 | ng | | 99 |
| 10) Hexachlorobutadiene | 10.340 | 225 | 2784 | 0.465 | ng | # | 99 |
| 12) 2-Methylnaphthalene | 11.686 | 142 | 6505 | 0.350 | ng | | 99 |
| 16) Acenaphthylene | 13.636 | 152 | 8453 | 0.375 | ng | | 99 |
| 17) Acenaphthene | 13.978 | 154 | 5821 | 0.389 | ng | | 100 |
| 18) Fluorene | 14.993 | 166 | 7311 | 0.341 | ng | | 99 |
| 20) 4,6-Dinitro-2-methylph... | 15.132 | 198 | 239 | 0.245 | ng | # | 24 |
| 21) 4-Bromophenyl-phenylether | 15.904 | 248 | 2287 | 0.395 | ng | # | 91 |
| 22) Hexachlorobenzene | 16.003 | 284 | 3296 | 0.484 | ng | | 99 |
| 23) Atrazine | 16.202 | 200 | 1504 | 0.365 | ng | | 95 |
| 24) Pentachlorophenol | 16.363 | 266 | 898 | 0.303 | ng | | 89 |
| 25) Phenanthrene | 16.735 | 178 | 10097 | 0.371 | ng | | 100 |
| 26) Anthracene | 16.835 | 178 | 8619 | 0.350 | ng | | 100 |
| 28) Fluoranthene | 18.784 | 202 | 11973 | 0.326 | ng | | 99 |
| 30) Pyrene | 19.151 | 202 | 12223 | 0.445 | ng | | 100 |
| 32) Benzo(a)anthracene | 20.929 | 228 | 8203 | 0.315 | ng | | 99 |
| 33) Chrysene | 20.982 | 228 | 11628 | 0.433 | ng | | 99 |
| 34) Bis(2-ethylhexyl)phtha... | 20.902 | 149 | 4135 | 0.402 | ng | | 99 |
| 36) Indeno(1,2,3-cd)pyrene | 25.052 | 276 | 10298 | 0.355 | ng | # | 83 |
| 37) Benzo(b)fluoranthene | 22.418 | 252 | 17240 | 0.635 | ng | # | 95 |
| 38) Benzo(k)fluoranthene | 22.418 | 252 | 17240 | 0.645 | ng | | 95 |
| 39) Benzo(a)pyrene | 22.944 | 252 | 8337 | 0.373 | ng | # | 87 |
| 40) Dibenzo(a,h)anthracene | 25.073 | 278 | 7409 | 0.323 | ng | # | 90 |
| 41) Benzo(g,h,i)perylene | 25.663 | 276 | 9651 | 0.403 | ng | | 98 |

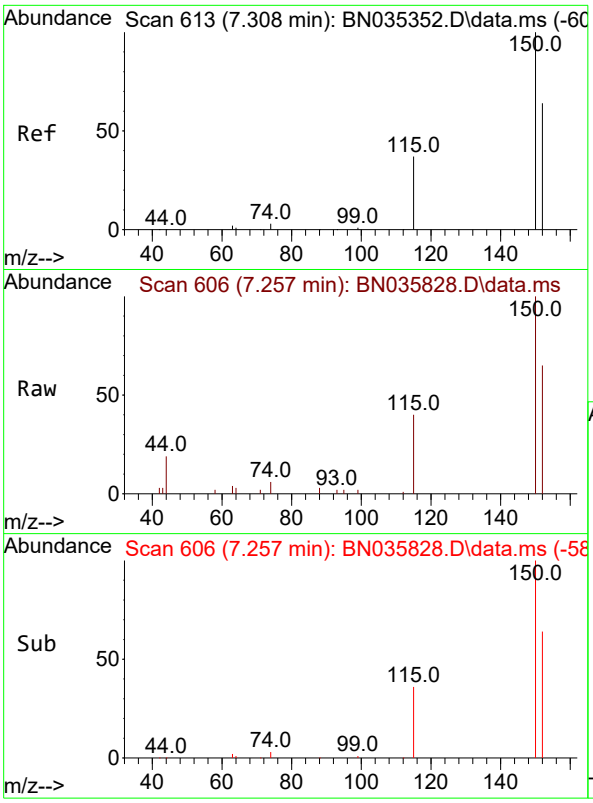
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035828.D
Acq On : 24 Dec 2024 19:05
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 20 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Quant Time: Dec 24 23:54:42 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



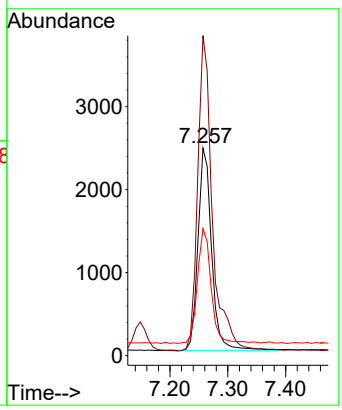


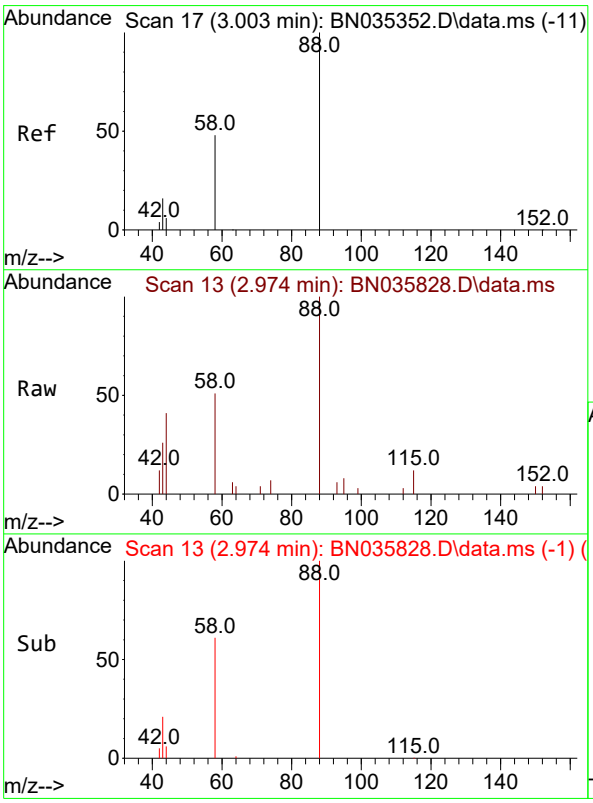

#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 6
Delta R.T. -0.015 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:152 Resp: 4008

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 154.2 | 124.0 | 186.0 |
| 115 | 61.2 | 49.6 | 74.4 |

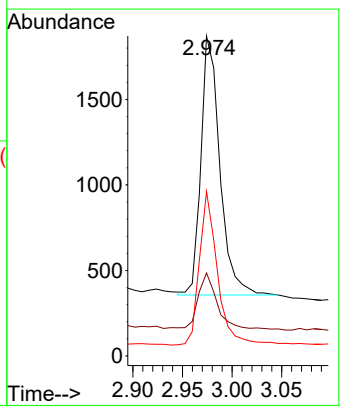


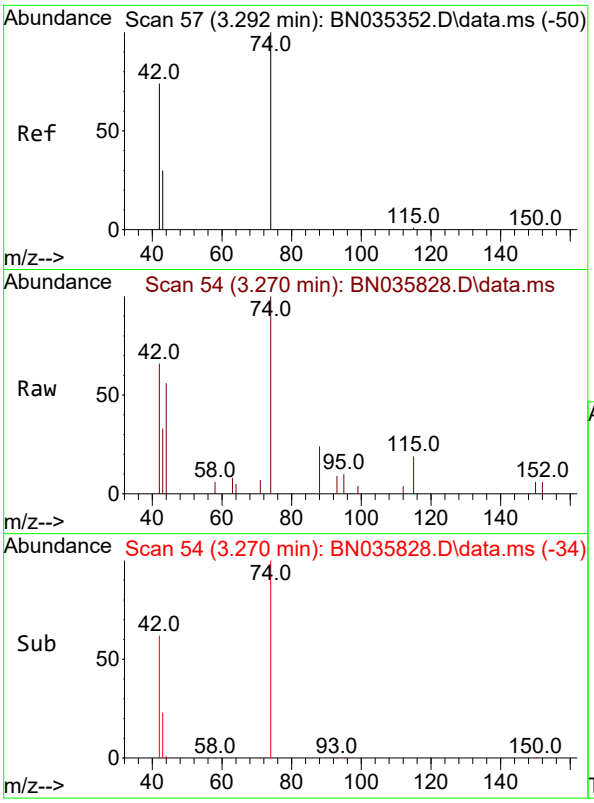




#2
1,4-Dioxane
Concen: 0.524 ng
RT: 2.974 min Scan# 13
Delta R.T. -0.008 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion: 88 Resp: 2007

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 21.5 | 17.2 | 25.8 |
| 58 | 56.9 | 44.5 | 66.7 |



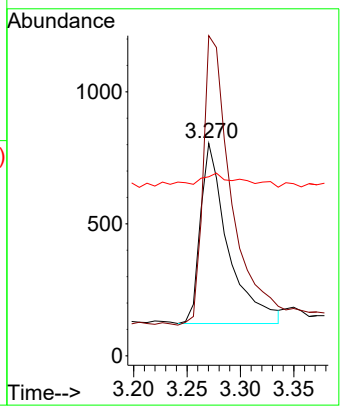


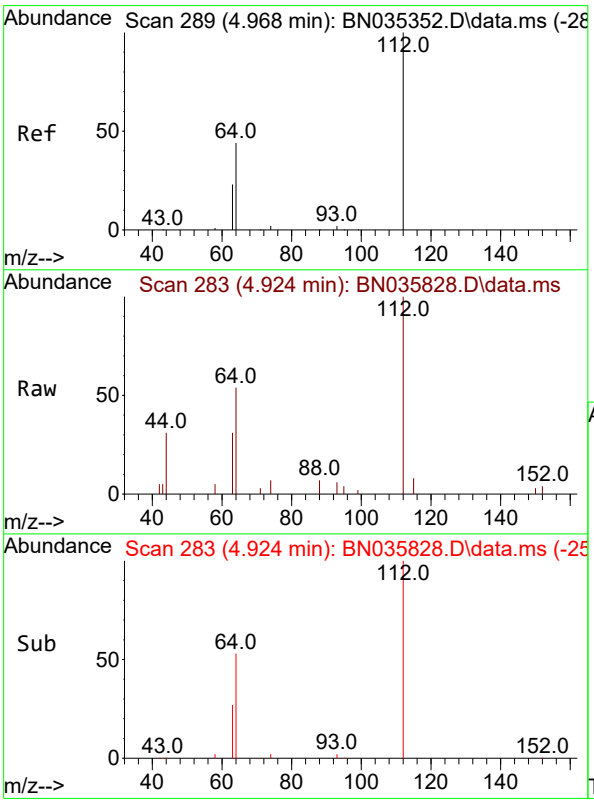

#3
n-Nitrosodimethylamine
Concen: 0.384 ng
RT: 3.270 min Scan# 54
Delta R.T. -0.008 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion: 42 Resp: 1227

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 178.7 | 124.9 | 187.3 |
| 44 | 14.2 | 2.2 | 3.4# |

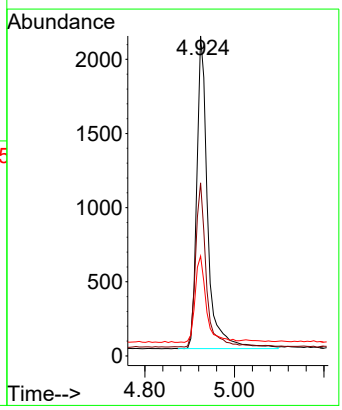


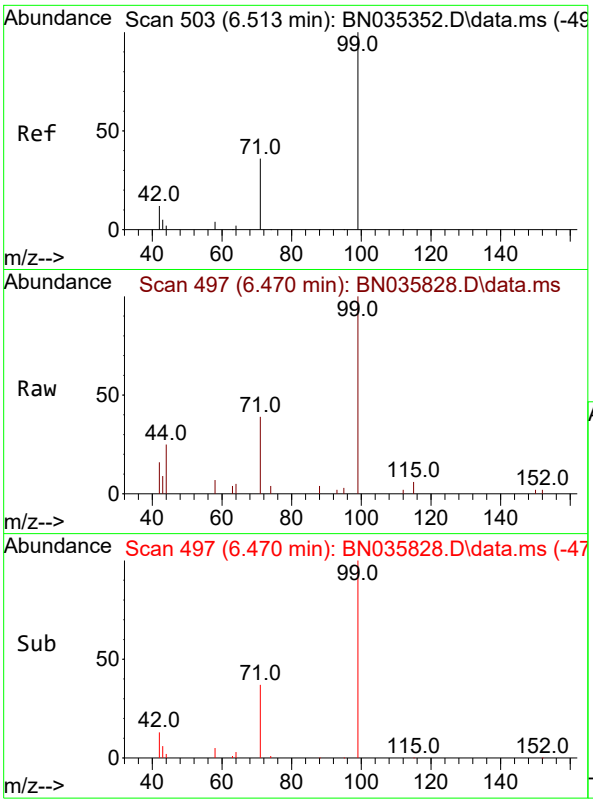




#4
2-Fluorophenol
Concen: 0.358 ng
RT: 4.924 min Scan# 283
Delta R.T. -0.015 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:112 Resp: 3589

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 51.1 | 39.8 | 59.8 |
| 63 | 27.8 | 21.0 | 31.6 |



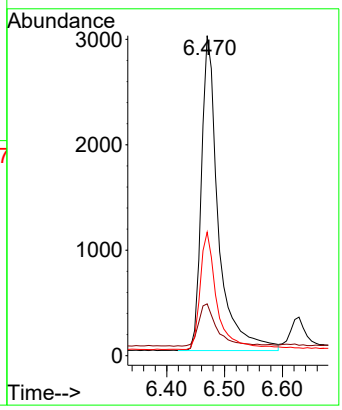


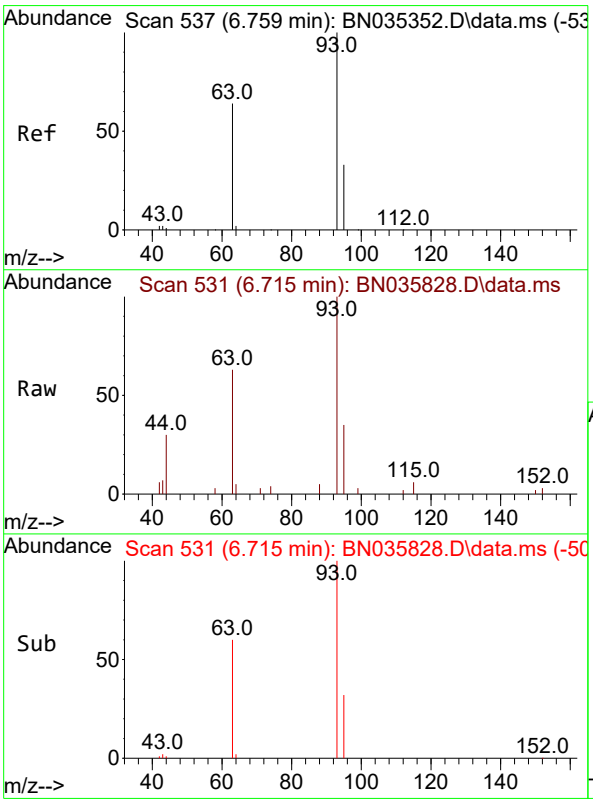

#5
Phenol-d6
Concen: 0.506 ng
RT: 6.470 min Scan# 4
Delta R.T. -0.022 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion: 99 Resp: 6110

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 14.9 | 11.4 | 17.2 |
| 71 | 37.7 | 29.3 | 43.9 |

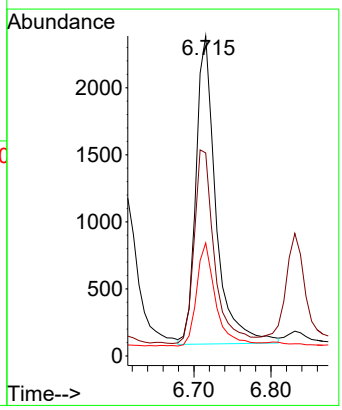


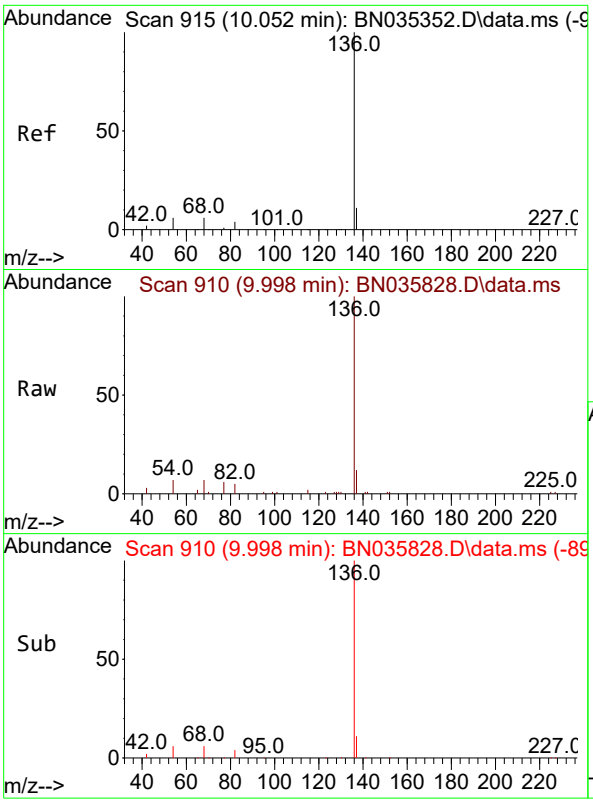




#6
bis(2-Chloroethyl)ether
Concen: 0.407 ng
RT: 6.715 min Scan# 531
Delta R.T. -0.015 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion: 93 Resp: 4129

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 63.6 | 50.4 | 75.6 |
| 95 | 31.8 | 25.7 | 38.5 |



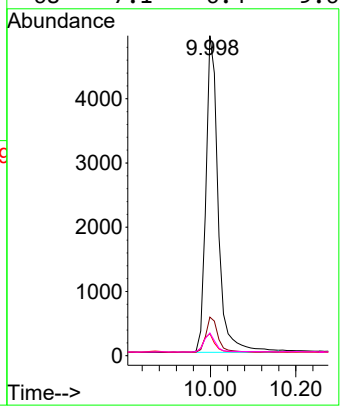


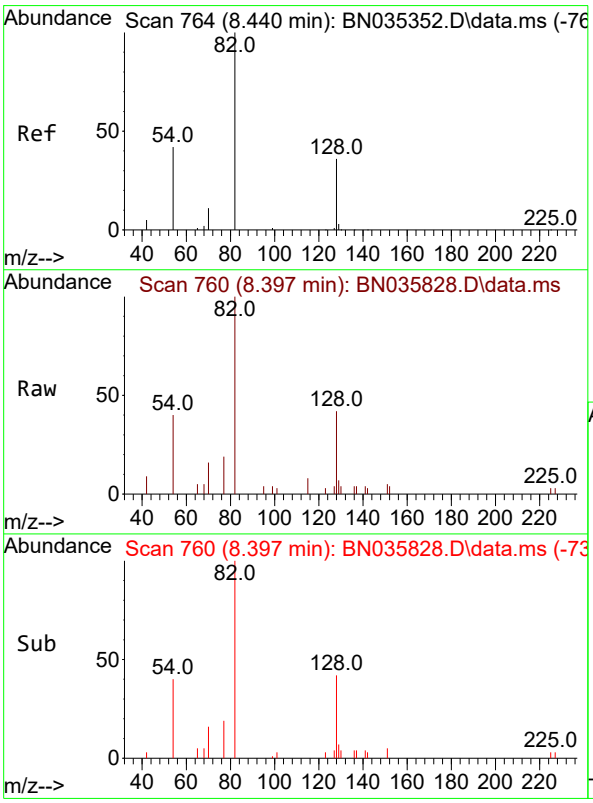

#7
Naphthalene-d8
Concen: 0.400 ng
RT: 9.998 min Scan# 91
Delta R.T. -0.022 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:136 Resp: 9840

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 12.1 | 10.2 | 15.2 |
| 54 | 6.9 | 6.1 | 9.1 |
| 68 | 7.1 | 6.4 | 9.6 |

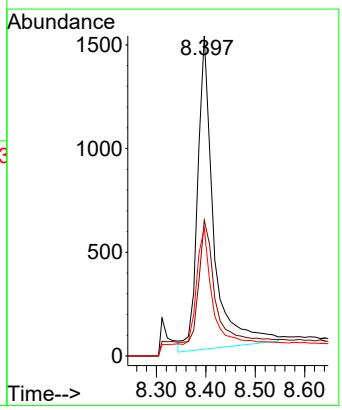


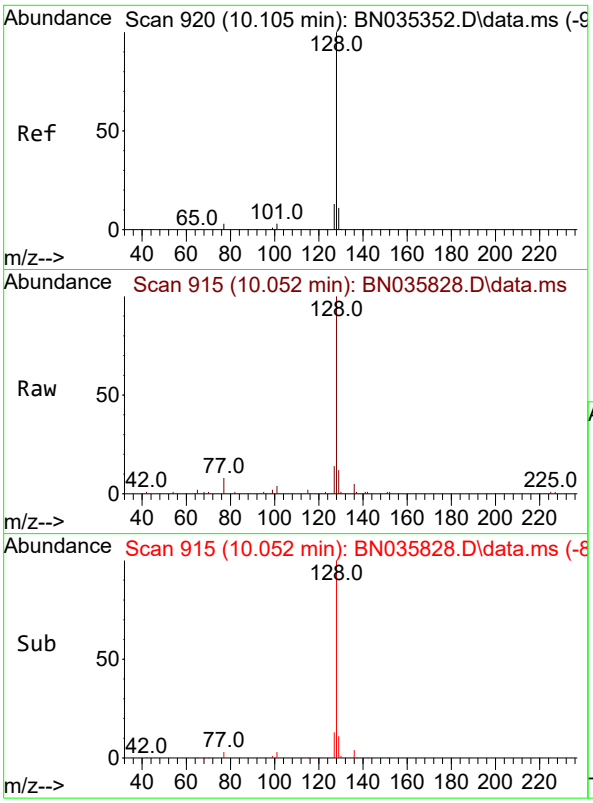




#8
Nitrobenzene-d5
Concen: 0.567 ng
RT: 8.397 min Scan# 760
Delta R.T. -0.011 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion: 82 Resp: 3407

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 42.4 | 33.4 | 50.0 |
| 54 | 39.9 | 36.7 | 55.1 |



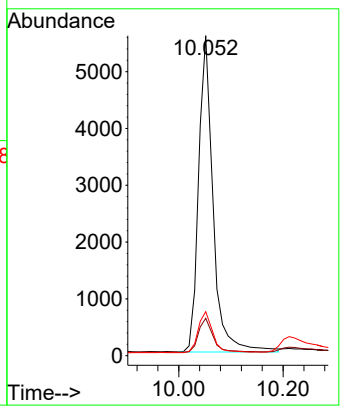


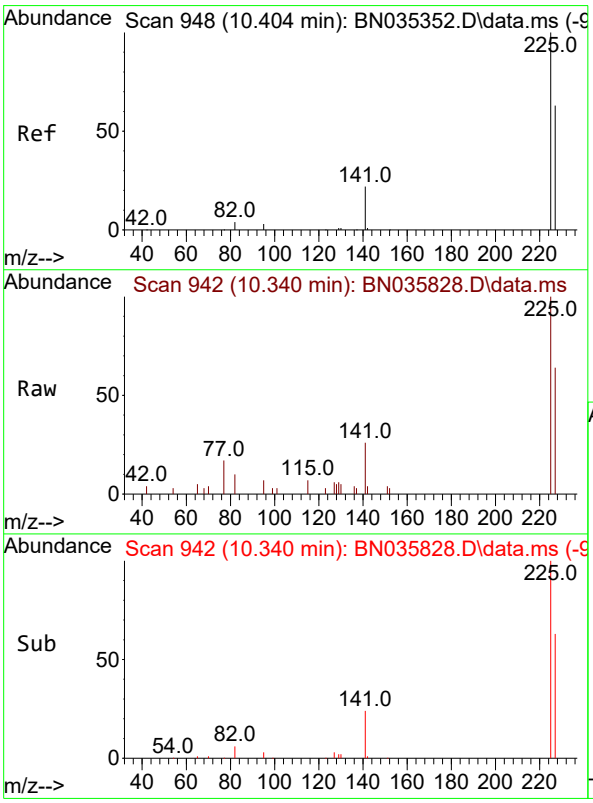

#9
Naphthalene
Concen: 0.415 ng
RT: 10.052 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:128 Resp: 10772

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 11.7 | 9.8 | 14.6 |
| 127 | 13.8 | 11.4 | 17.2 |

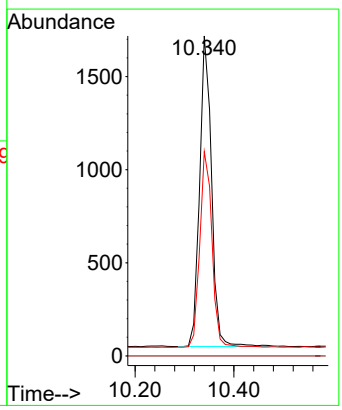


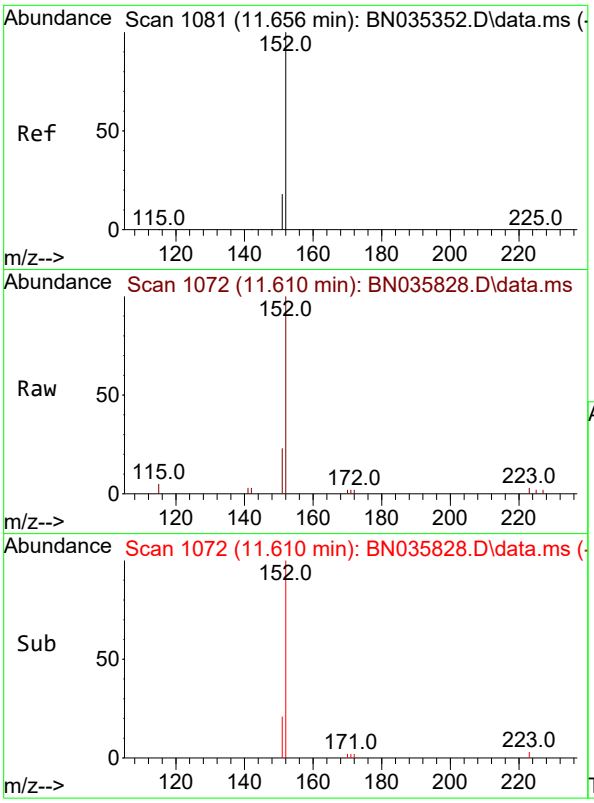




#10
Hexachlorobutadiene
Concen: 0.465 ng
RT: 10.340 min Scan# 942
Delta R.T. -0.022 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:225 Resp: 2784

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 0.0 | 0.0 | 0.0 |
| 227 | 64.9 | 51.3 | 76.9 |



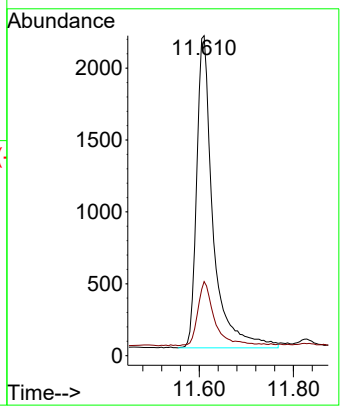


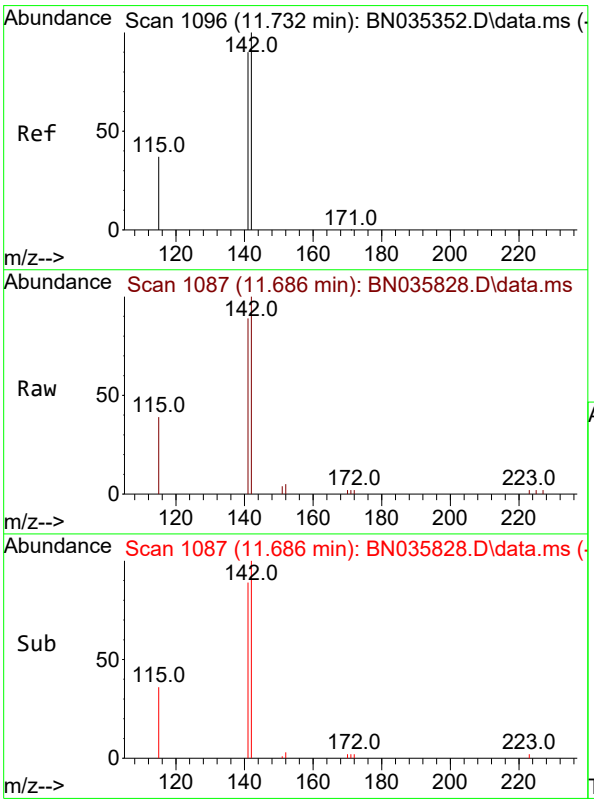

#11
2-Methylnaphthalene-d10
Concen: 0.341 ng
RT: 11.610 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:152 Resp: 5246

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.7 | 16.6 | 25.0 |

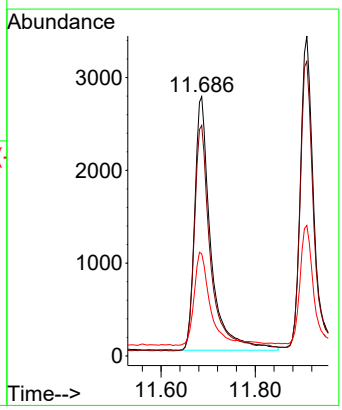


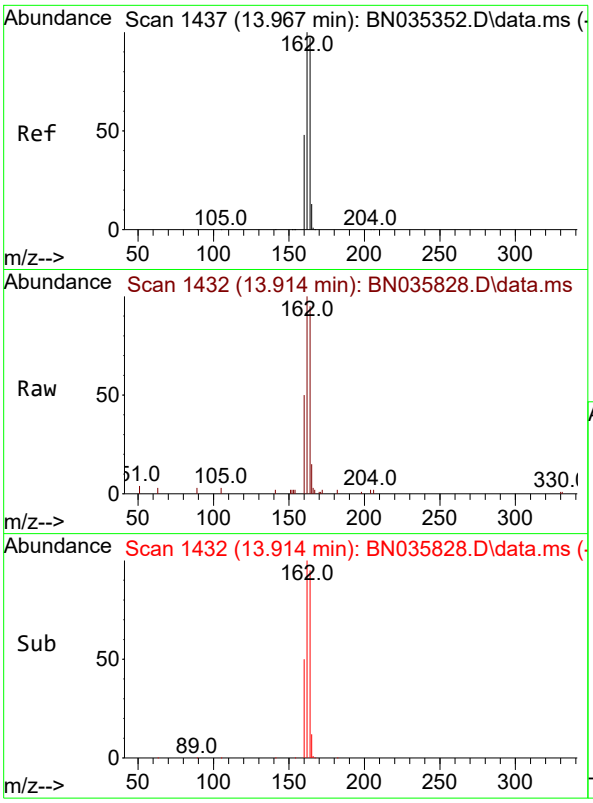




#12
2-Methylnaphthalene
Concen: 0.350 ng
RT: 11.686 min Scan# 1087
Delta R.T. -0.010 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:142 Resp: 6505

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 88.9 | 72.2 | 108.4 |
| 115 | 39.4 | 31.4 | 47.0 |



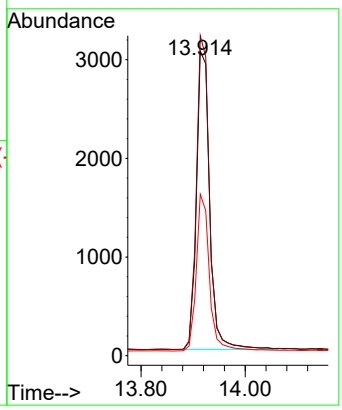


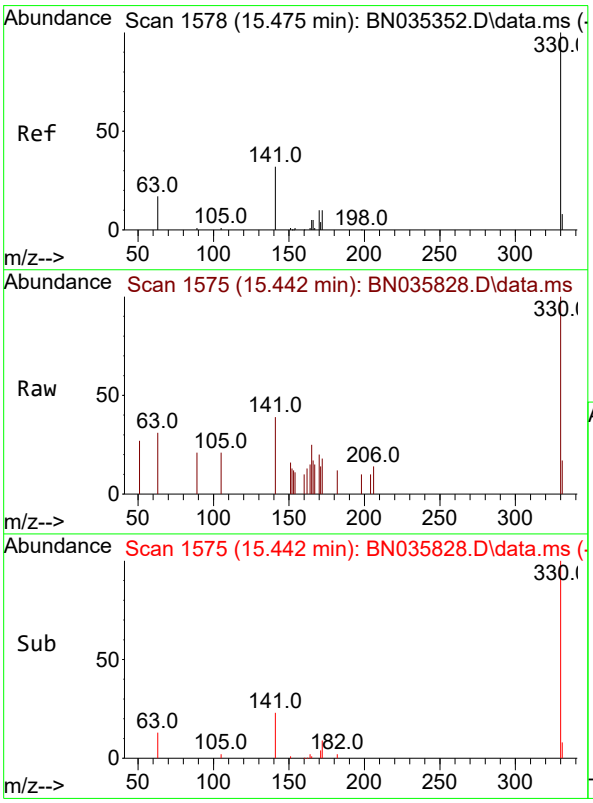

#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.914 min Scan# 14
Delta R.T. -0.022 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:164 Resp: 5373

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 105.0 | 82.2 | 123.2 |
| 160 | 53.0 | 40.1 | 60.1 |

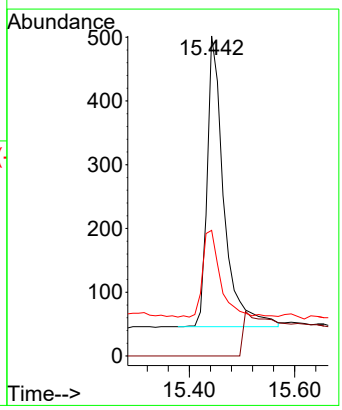


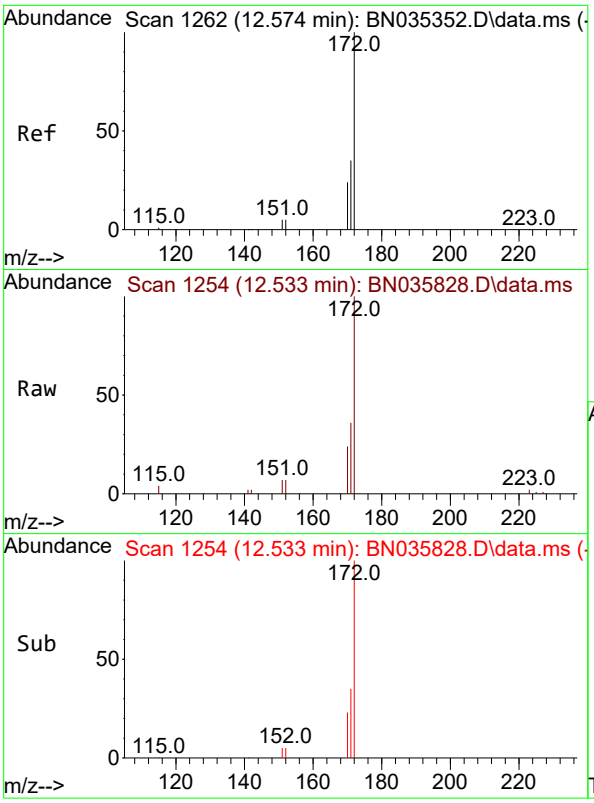




#14
2,4,6-Tribromophenol
Concen: 0.273 ng
RT: 15.442 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:330 Resp: 1040

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 0.0 | 0.0 | 0.0 |
| 141 | 32.0 | 26.6 | 40.0 |



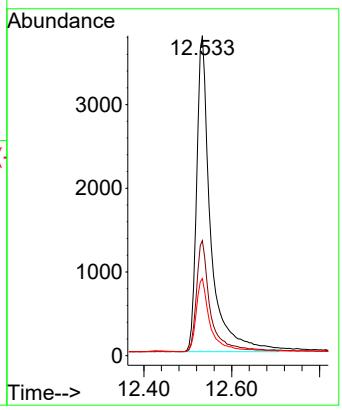


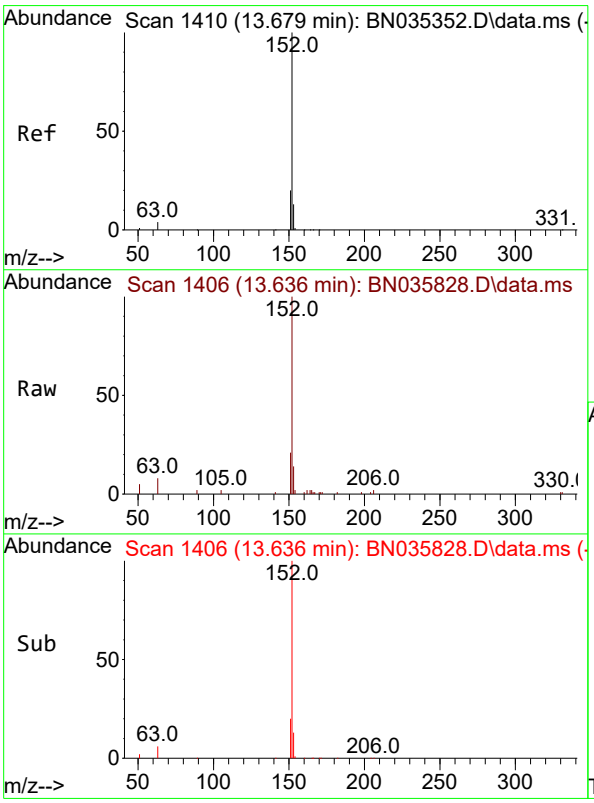

#15
2-Fluorobiphenyl
Concen: 0.414 ng
RT: 12.533 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:172 Resp: 8409

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 36.0 | 29.0 | 43.4 |
| 170 | 24.1 | 19.8 | 29.8 |

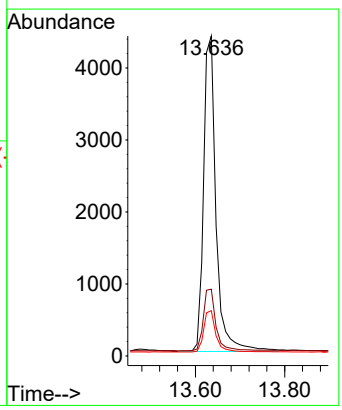


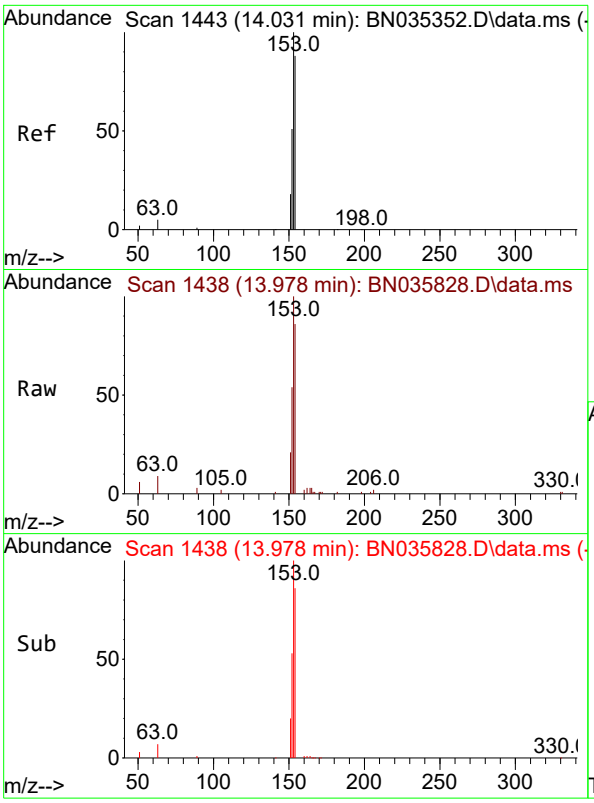




#16
Acenaphthylene
Concen: 0.375 ng
RT: 13.636 min Scan# 1406
Delta R.T. -0.011 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:152 Resp: 8453

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 19.8 | 16.2 | 24.2 |
| 153 | 13.0 | 10.4 | 15.6 |



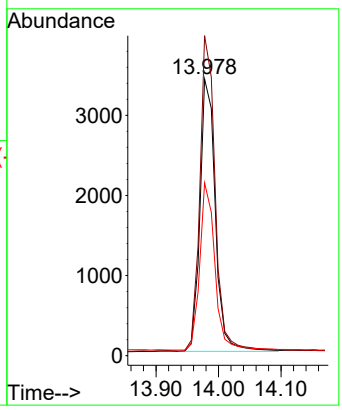


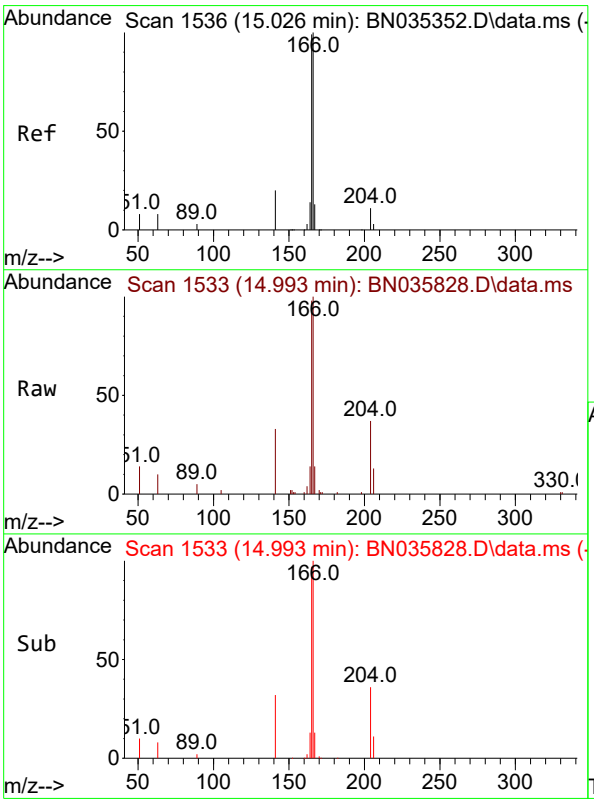

#17
Acenaphthene
Concen: 0.389 ng
RT: 13.978 min Scan# 14
Delta R.T. -0.022 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:154 Resp: 5821

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 116.2 | 92.6 | 139.0 |
| 152 | 60.8 | 49.0 | 73.6 |

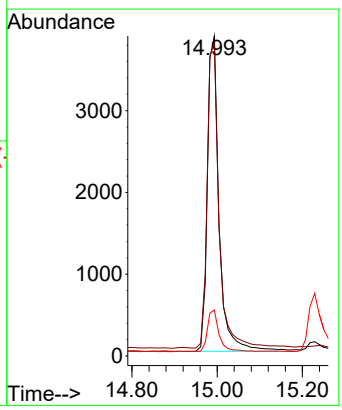


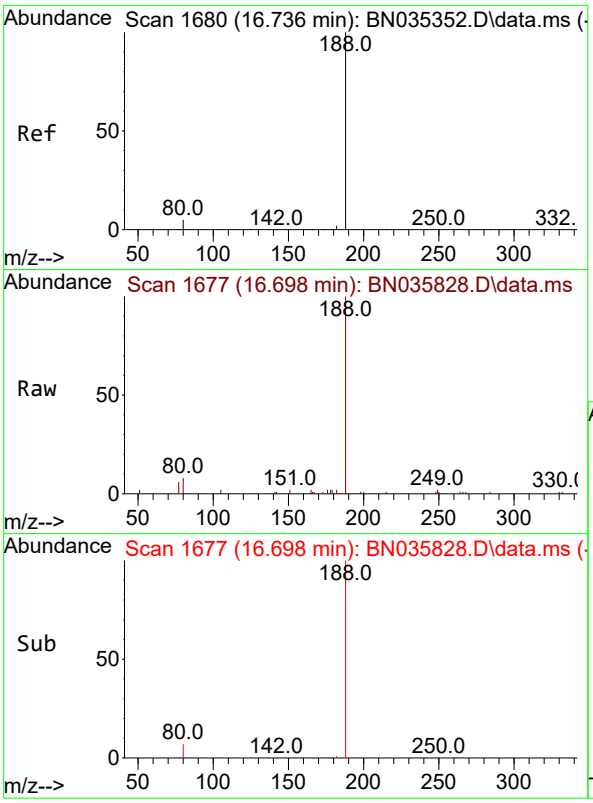




#18
Fluorene
Concen: 0.341 ng
RT: 14.993 min Scan# 1533
Delta R.T. -0.011 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:166 Resp: 7311

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 98.6 | 79.7 | 119.5 |
| 167 | 13.0 | 10.8 | 16.2 |



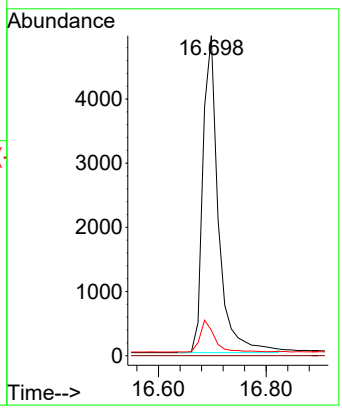


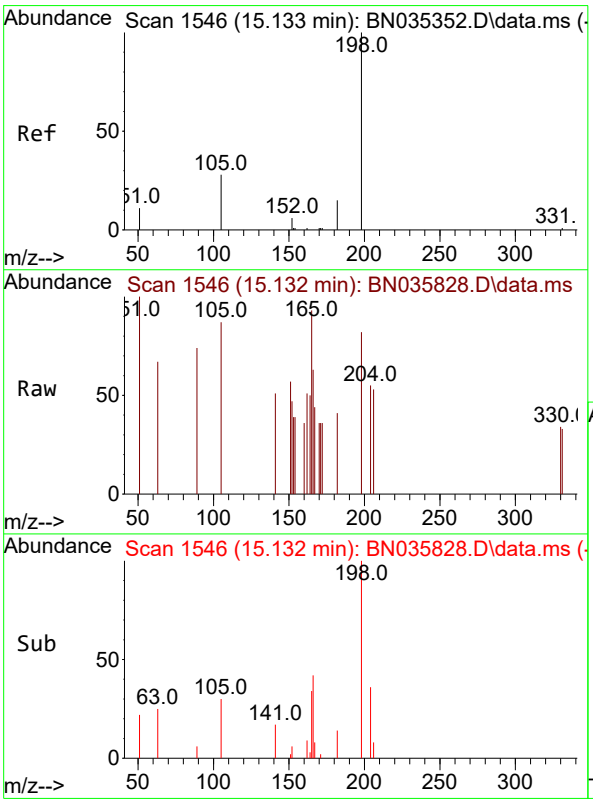

#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:188 Resp: 9905

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 8.0 | 4.6 | 6.8# |

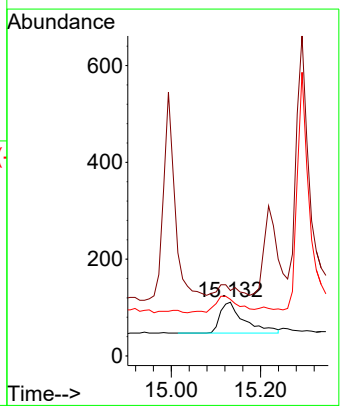


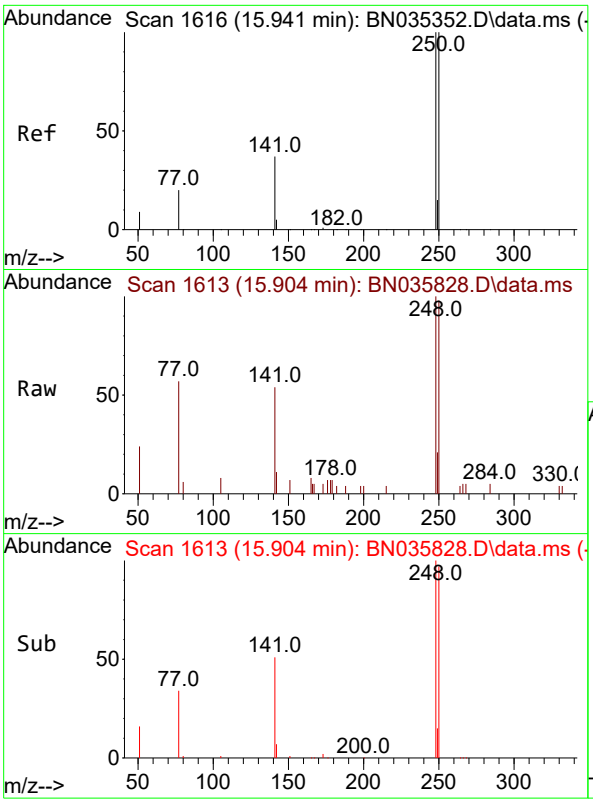




#20
4,6-Dinitro-2-methylphenol
Concen: 0.245 ng
RT: 15.132 min Scan# 1546
Delta R.T. 0.010 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:198 Resp: 239

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 198 | 100 | | |
| 51 | 121.6 | 46.5 | 69.7# |
| 105 | 105.4 | 45.3 | 67.9# |



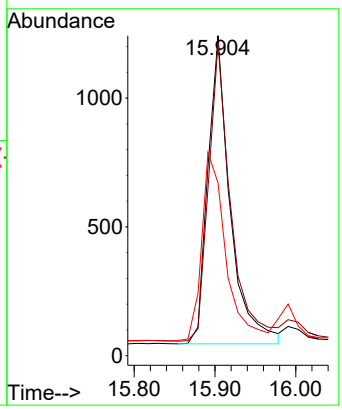


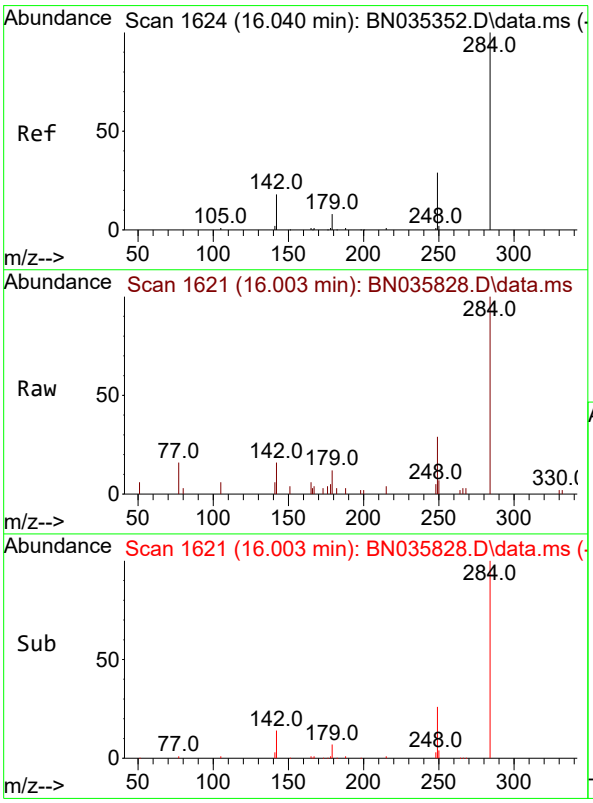

#21
4-Bromophenyl-phenylether
Concen: 0.395 ng
RT: 15.904 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:248 Resp: 2287

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 97.8 | 80.6 | 120.8 |
| 141 | 53.9 | 31.5 | 47.3# |

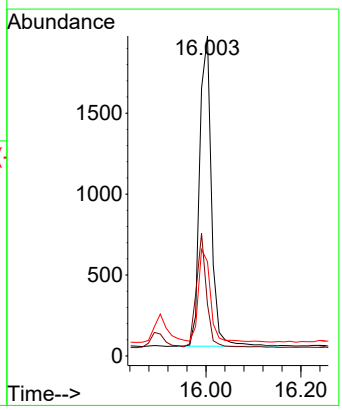


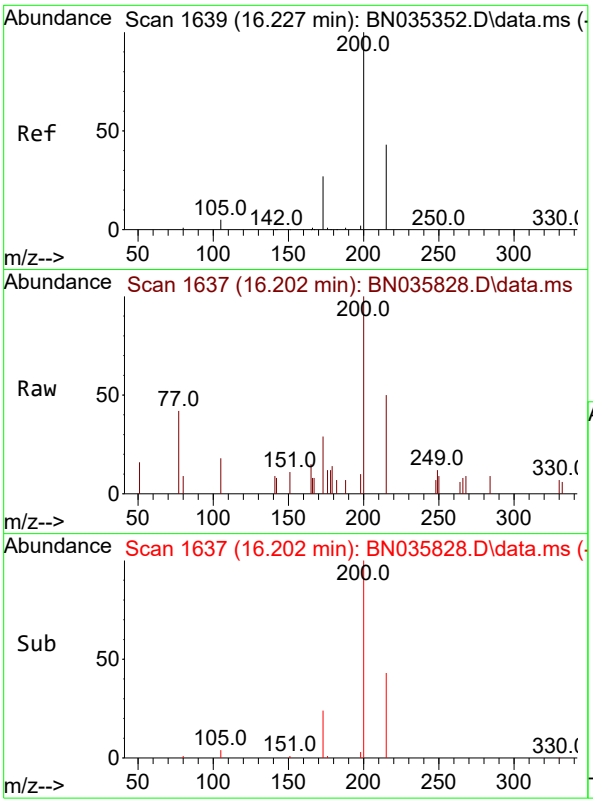




#22
Hexachlorobenzene
Concen: 0.484 ng
RT: 16.003 min Scan# 1621
Delta R.T. -0.013 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:284 Resp: 3296

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 32.1 | 26.7 | 40.1 |
| 249 | 30.7 | 24.6 | 36.8 |



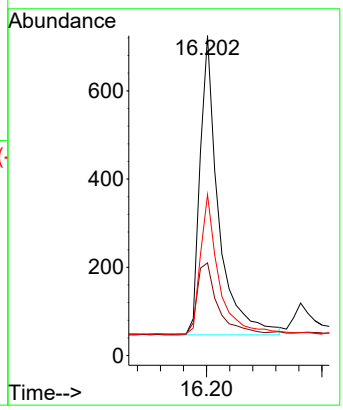


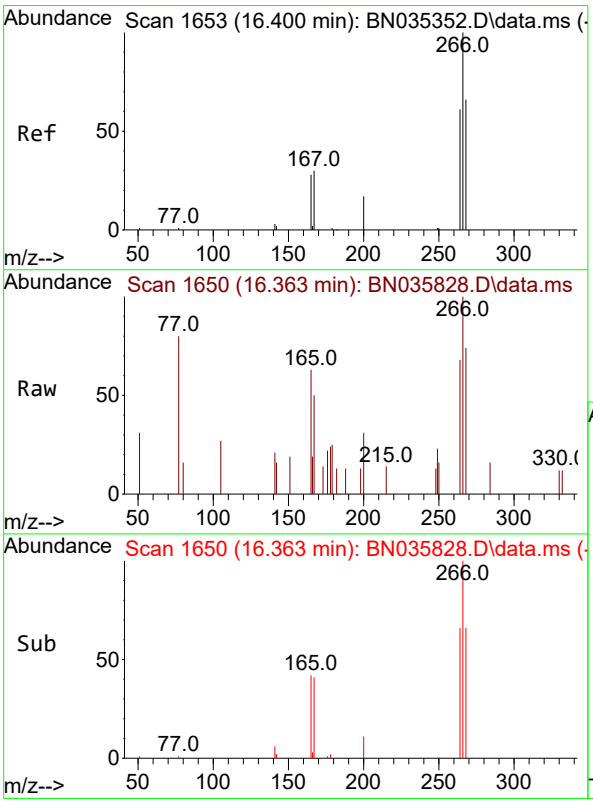

#23
Atrazine
Concen: 0.365 ng
RT: 16.202 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:200 Resp: 1504

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 173 | 29.0 | 24.1 | 36.1 |
| 215 | 50.3 | 36.9 | 55.3 |

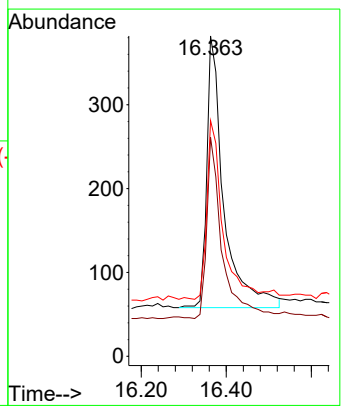


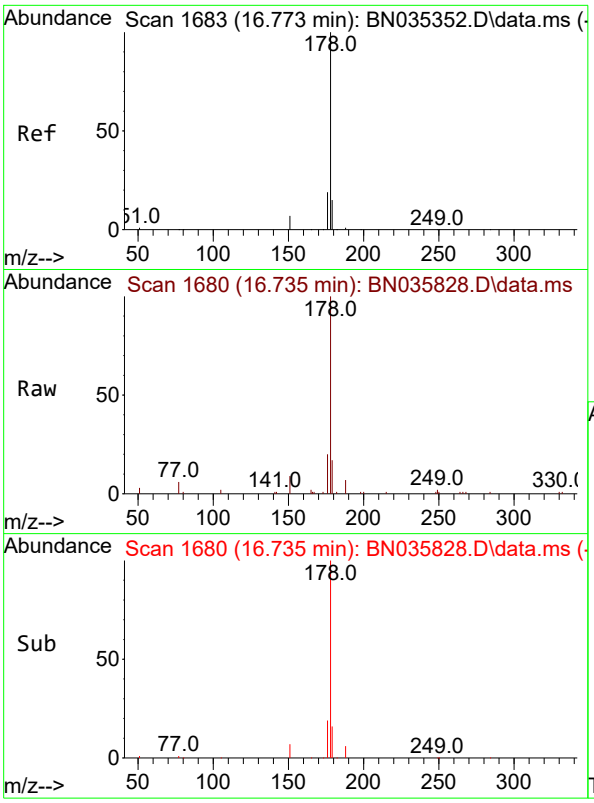




#24
Pentachlorophenol
Concen: 0.303 ng
RT: 16.363 min Scan# 1650
Delta R.T. -0.013 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:266 Resp: 898

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 264 | 60.9 | 42.3 | 63.5 |
| 268 | 61.1 | 43.3 | 64.9 |



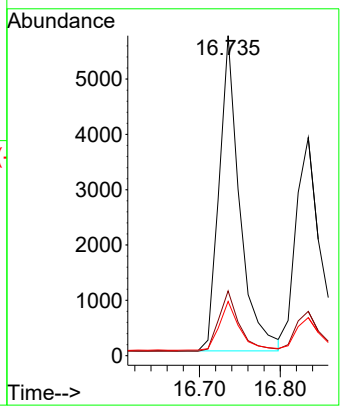


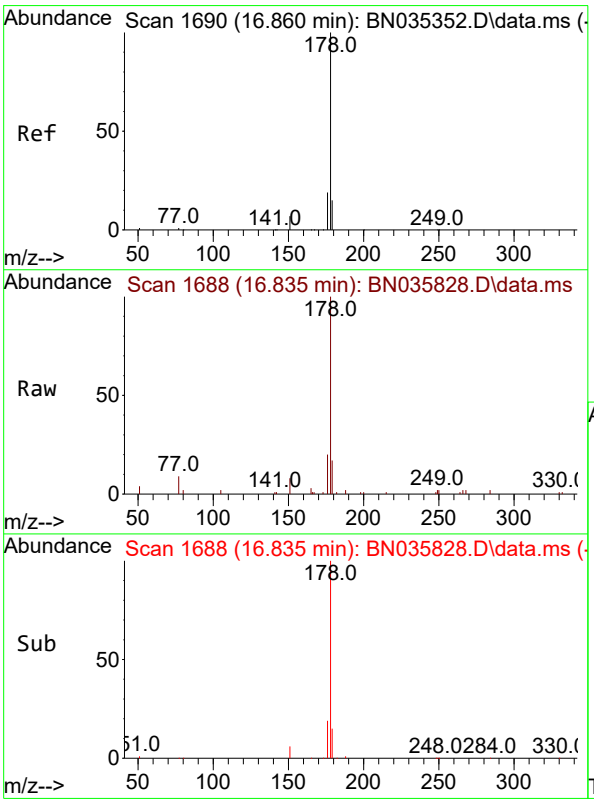

#25
Phenanthrene
Concen: 0.371 ng
RT: 16.735 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:178 Resp: 10097

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.2 | 15.4 | 23.2 |
| 179 | 15.4 | 12.3 | 18.5 |

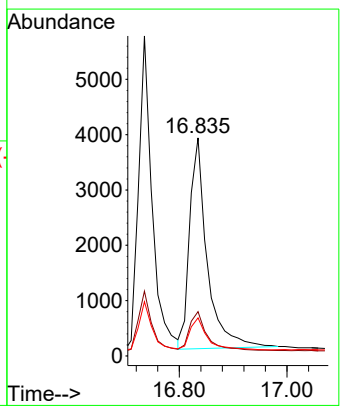


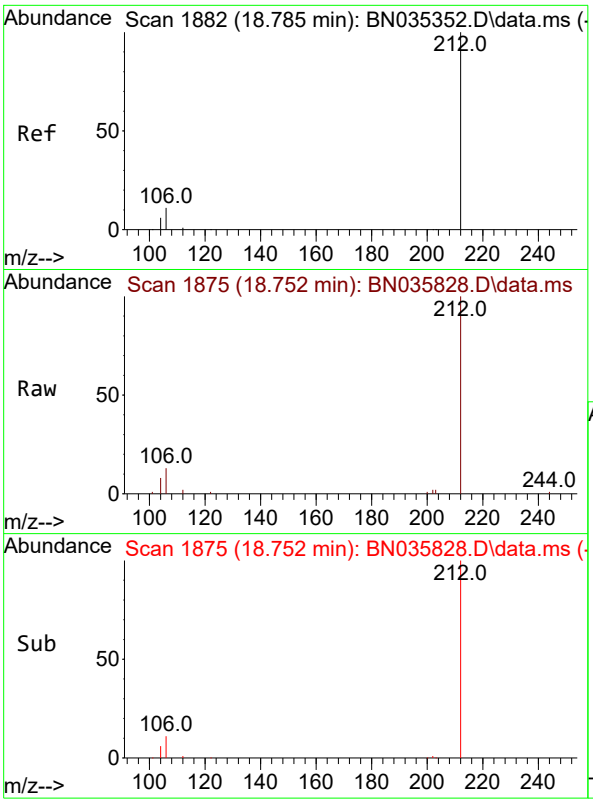




#26
Anthracene
Concen: 0.350 ng
RT: 16.835 min Scan# 1688
Delta R.T. -0.000 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:178 Resp: 8619

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.0 | 15.0 | 22.6 |
| 179 | 15.5 | 12.6 | 18.8 |



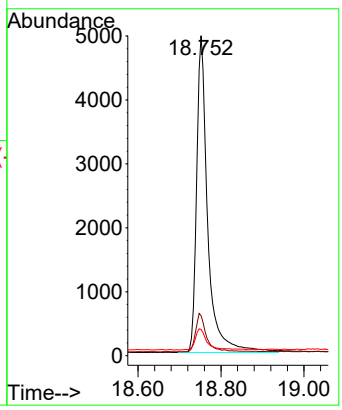


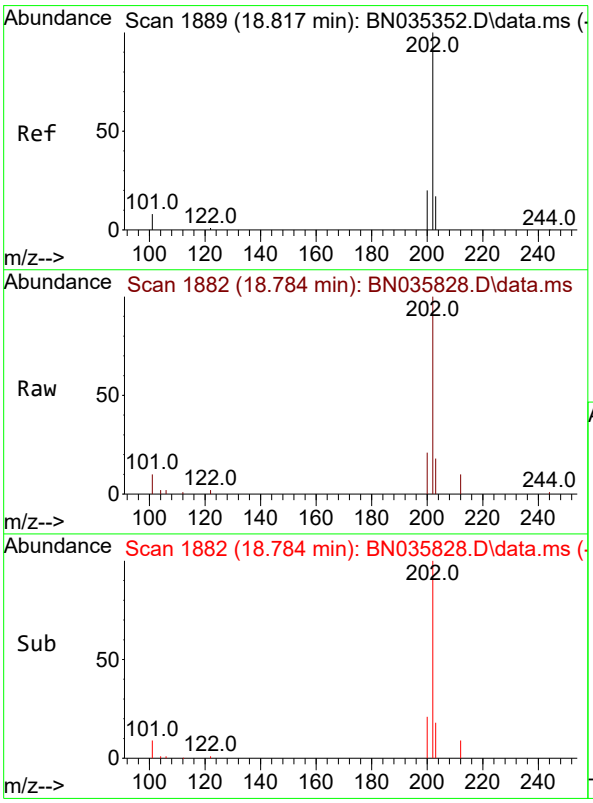

#27
Fluoranthene-d10
Concen: 0.328 ng
RT: 18.752 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:212 Resp: 9222

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 11.8 | 9.2 | 13.8 |
| 104 | 7.0 | 5.3 | 7.9 |

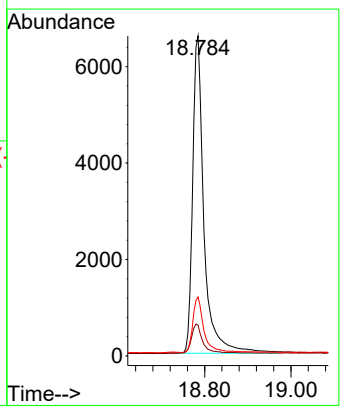


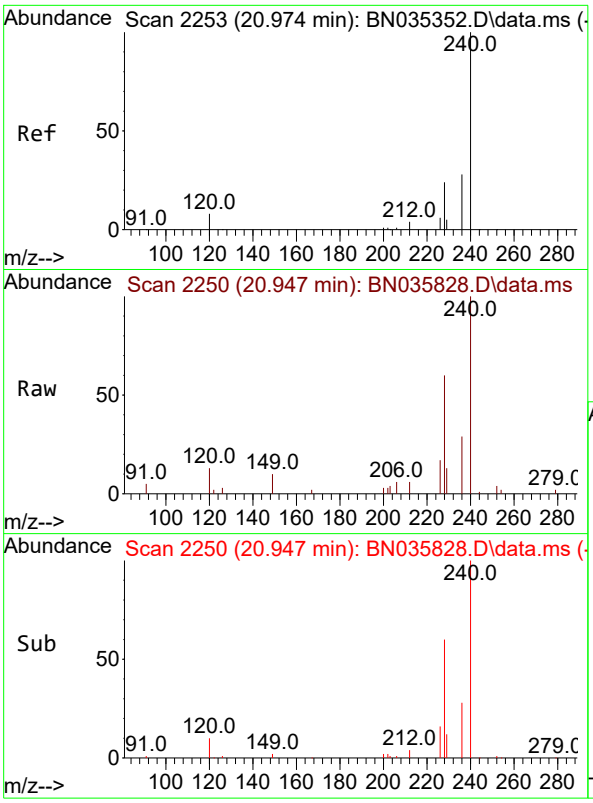




#28
Fluoranthene
Concen: 0.326 ng
RT: 18.784 min Scan# 1882
Delta R.T. -0.005 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:202 Resp: 11973

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 8.8 | 7.4 | 11.0 |
| 203 | 17.3 | 13.7 | 20.5 |



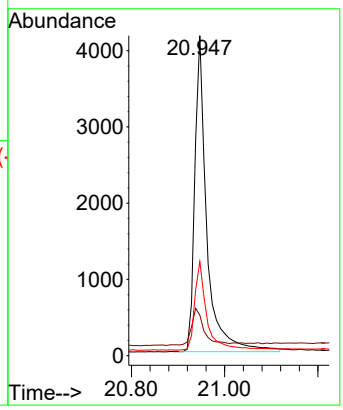


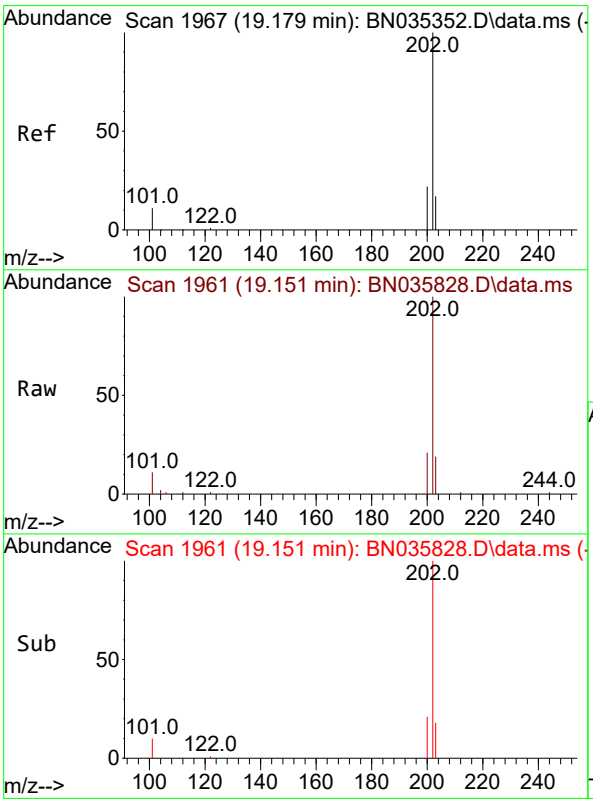

#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:240 Resp: 7447

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 12.6 | 7.9 | 11.9# |
| 236 | 29.4 | 22.9 | 34.3 |

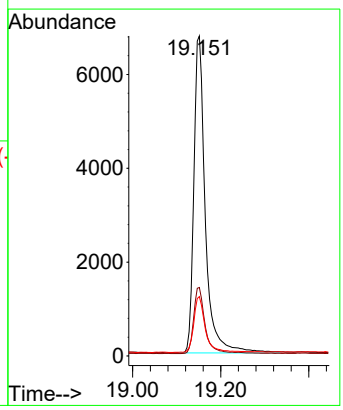


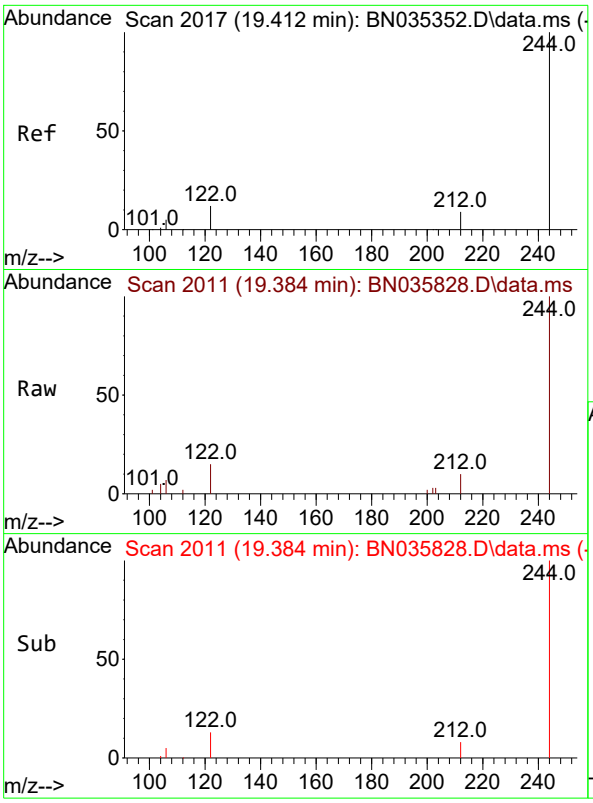




#30
Pyrene
Concen: 0.445 ng
RT: 19.151 min Scan# 1961
Delta R.T. -0.010 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:202 Resp: 12223

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 20.9 | 17.0 | 25.4 |
| 203 | 17.8 | 14.3 | 21.5 |



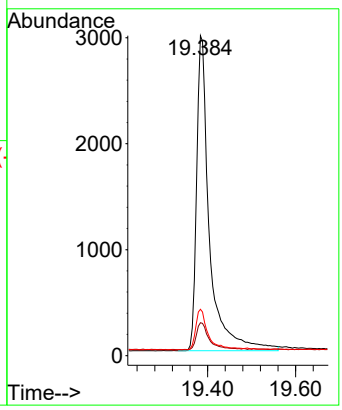


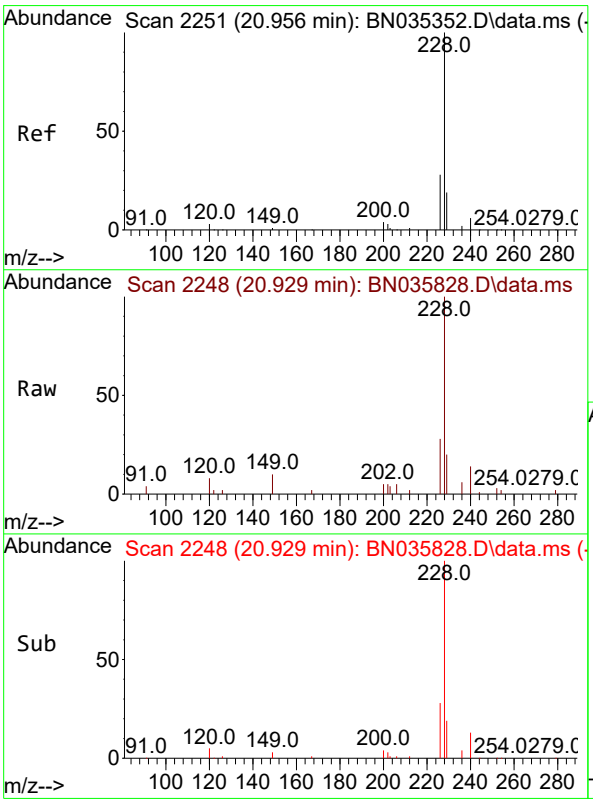

#31
Terphenyl-d14
Concen: 0.410 ng
RT: 19.384 min Scan# 2
Delta R.T. -0.005 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:244 Resp: 6024

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 10.3 | 8.1 | 12.1 |
| 122 | 14.5 | 10.3 | 15.5 |

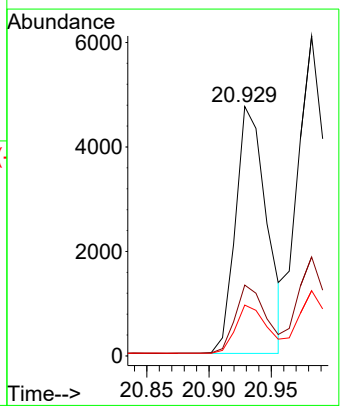


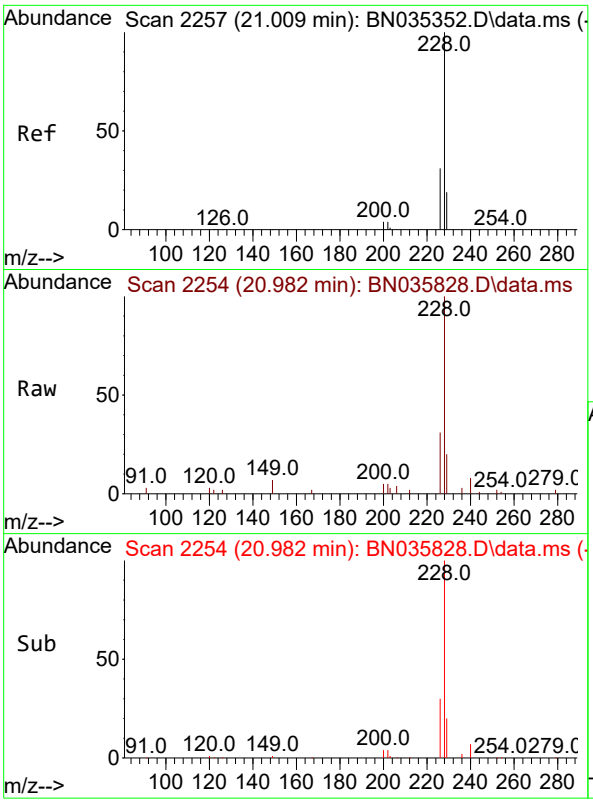




#32
Benzo(a)anthracene
Concen: 0.315 ng
RT: 20.929 min Scan# 2248
Delta R.T. -0.009 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:228 Resp: 8203

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 28.4 | 22.5 | 33.7 |
| 229 | 20.4 | 15.8 | 23.8 |



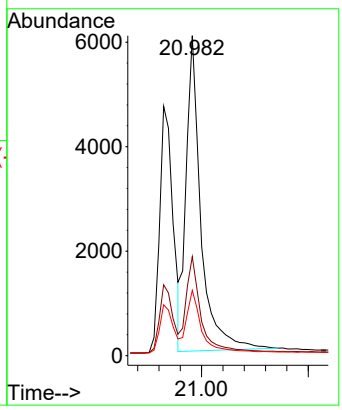


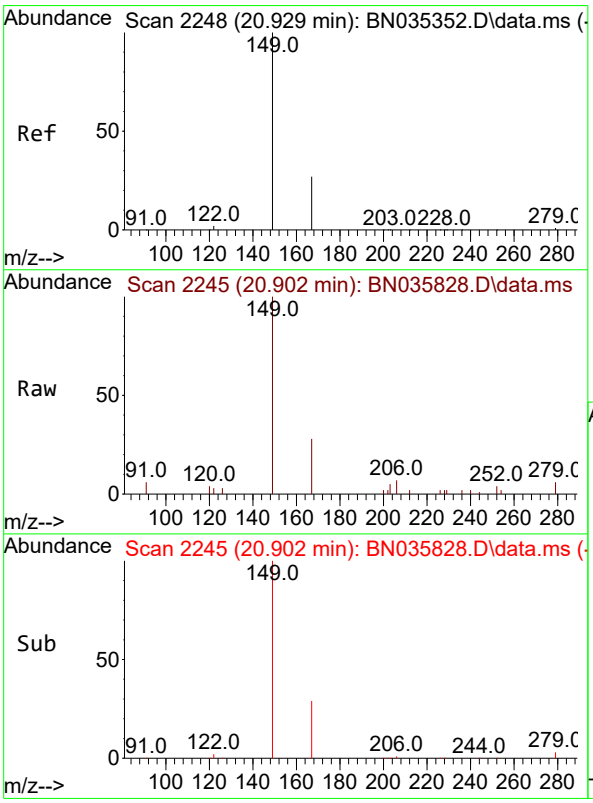

#33
Chrysene
Concen: 0.433 ng
RT: 20.982 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:228 Resp: 11628

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 31.0 | 24.6 | 37.0 |
| 229 | 20.4 | 15.9 | 23.9 |

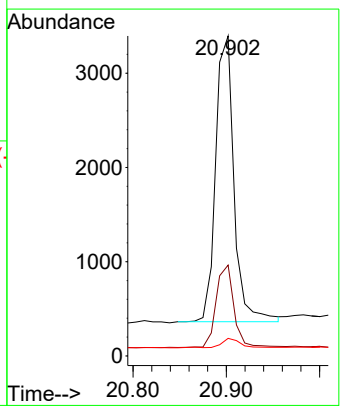


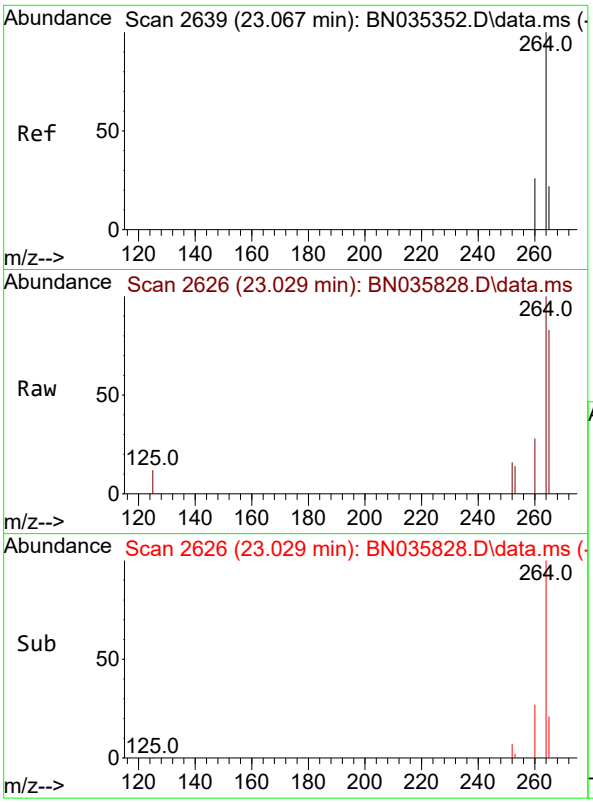




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.402 ng
RT: 20.902 min Scan# 2245
Delta R.T. -0.009 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:149 Resp: 4135

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 28.1 | 22.2 | 33.4 |
| 279 | 3.5 | 2.7 | 4.1 |



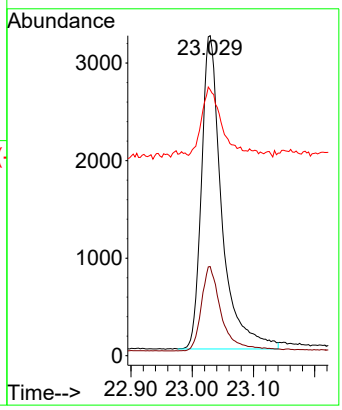


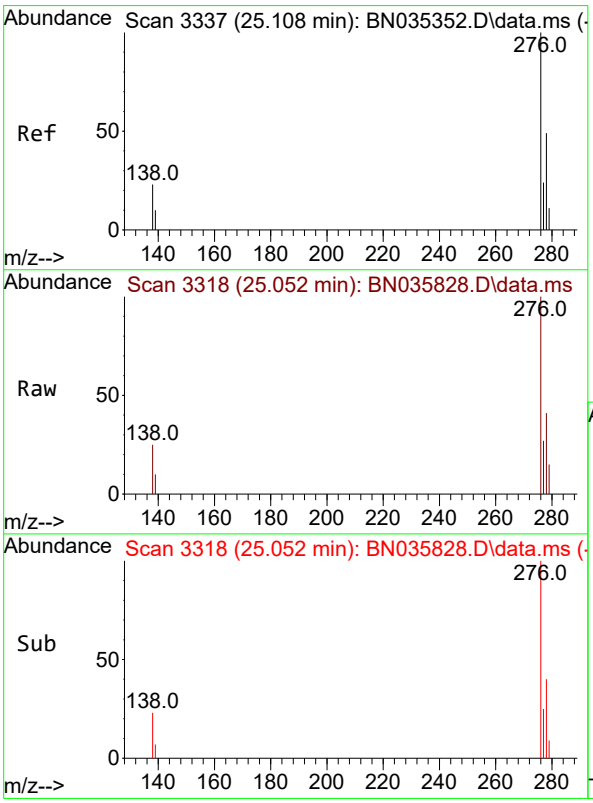

#35
Perylene-d12
Concen: 0.400 ng
RT: 23.029 min Scan# 2
Delta R.T. -0.012 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:264 Resp: 7426

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 27.9 | 21.4 | 32.2 |
| 265 | 83.1 | 40.2 | 60.4# |

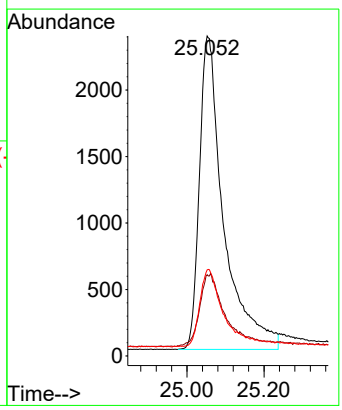


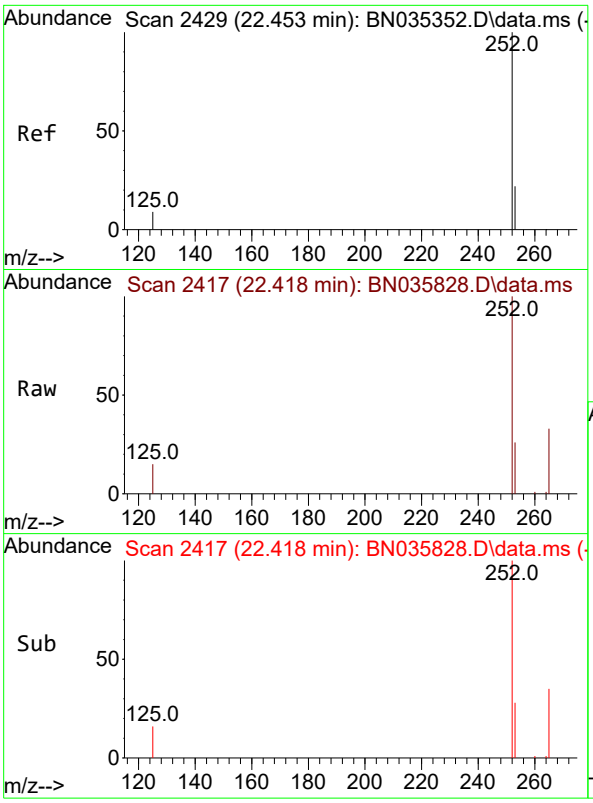




#36
Indeno(1,2,3-cd)pyrene
Concen: 0.355 ng
RT: 25.052 min Scan# 3318
Delta R.T. -0.015 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:276 Resp: 10298

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 8.7 | 19.4 | 29.0# |
| 277 | 22.9 | 19.8 | 29.6 |



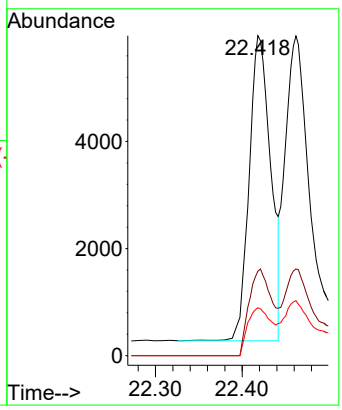


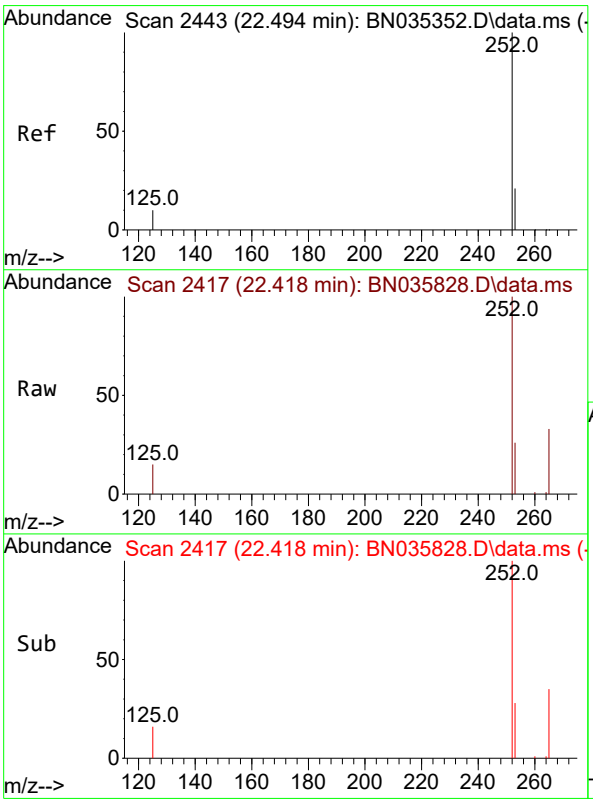

#37
Benzo(b)fluoranthene
Concen: 0.635 ng
RT: 22.418 min Scan# 24
Delta R.T. -0.012 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:252 Resp: 17240

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 26.4 | 19.6 | 29.4 |
| 125 | 15.0 | 9.6 | 14.4# |

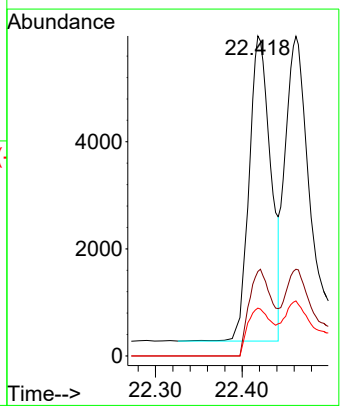


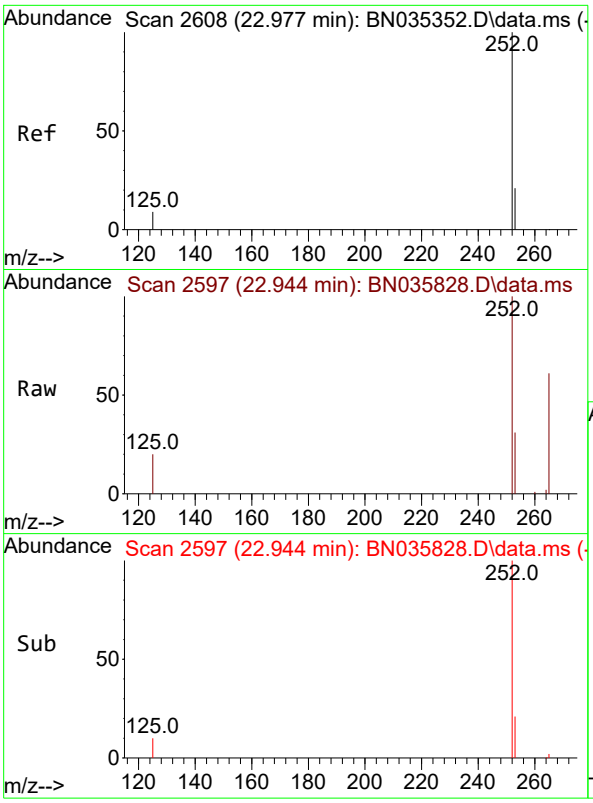




#38
Benzo(k)fluoranthene
Concen: 0.645 ng
RT: 22.418 min Scan# 2417
Delta R.T. -0.053 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:252 Resp: 17240

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 26.4 | 19.5 | 29.3 |
| 125 | 15.0 | 10.2 | 15.4 |



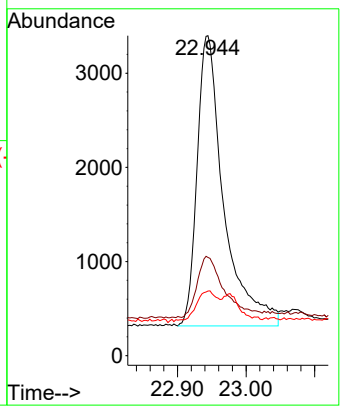


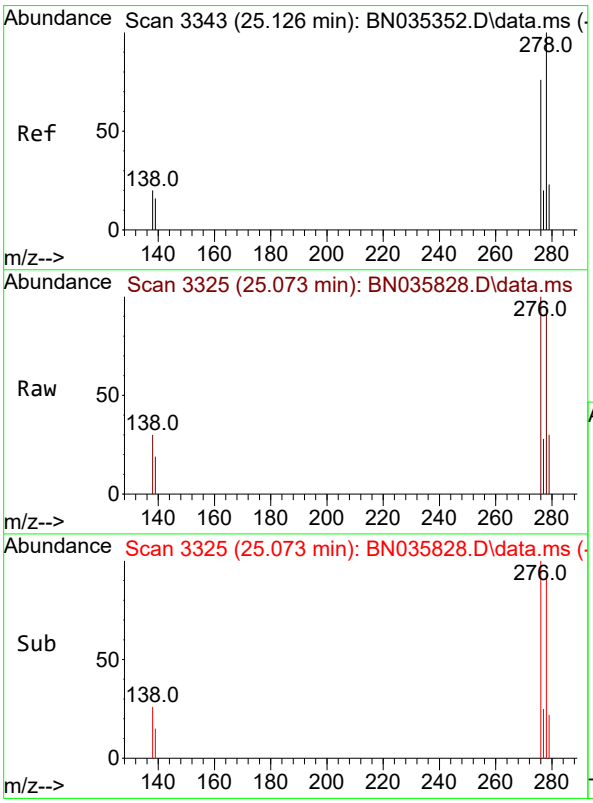

#39
Benzo(a)pyrene
Concen: 0.373 ng
RT: 22.944 min Scan# 2
Delta R.T. -0.006 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:252 Resp: 8337

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 30.7 | 20.2 | 30.4# |
| 125 | 20.2 | 10.9 | 16.3# |

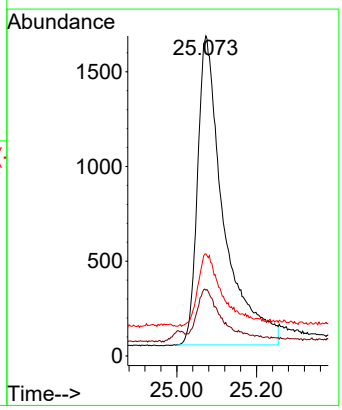


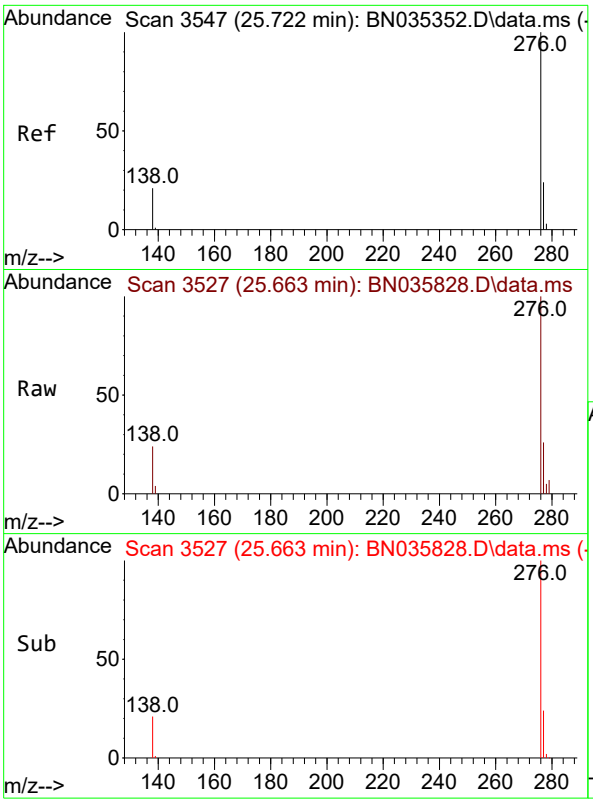




#40
Dibenzo(a,h)anthracene
Concen: 0.323 ng
RT: 25.073 min Scan# 3325
Delta R.T. -0.009 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:278 Resp: 7409

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 20.5 | 14.2 | 21.4 |
| 279 | 31.9 | 20.5 | 30.7# |



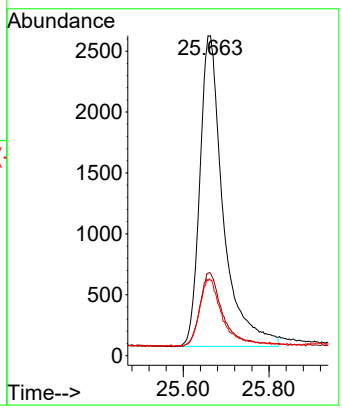



#41
Benzo(g,h,i)perylene
Concen: 0.403 ng
RT: 25.663 min Scan# 3
Delta R.T. -0.015 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:276 Resp: 9651

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 25.8 | 19.9 | 29.9 |
| 138 | 23.6 | 17.8 | 26.8 |



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035830.D
Acq On : 24 Dec 2024 20:55
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 20 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Quant Time: Dec 24 23:55:02 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

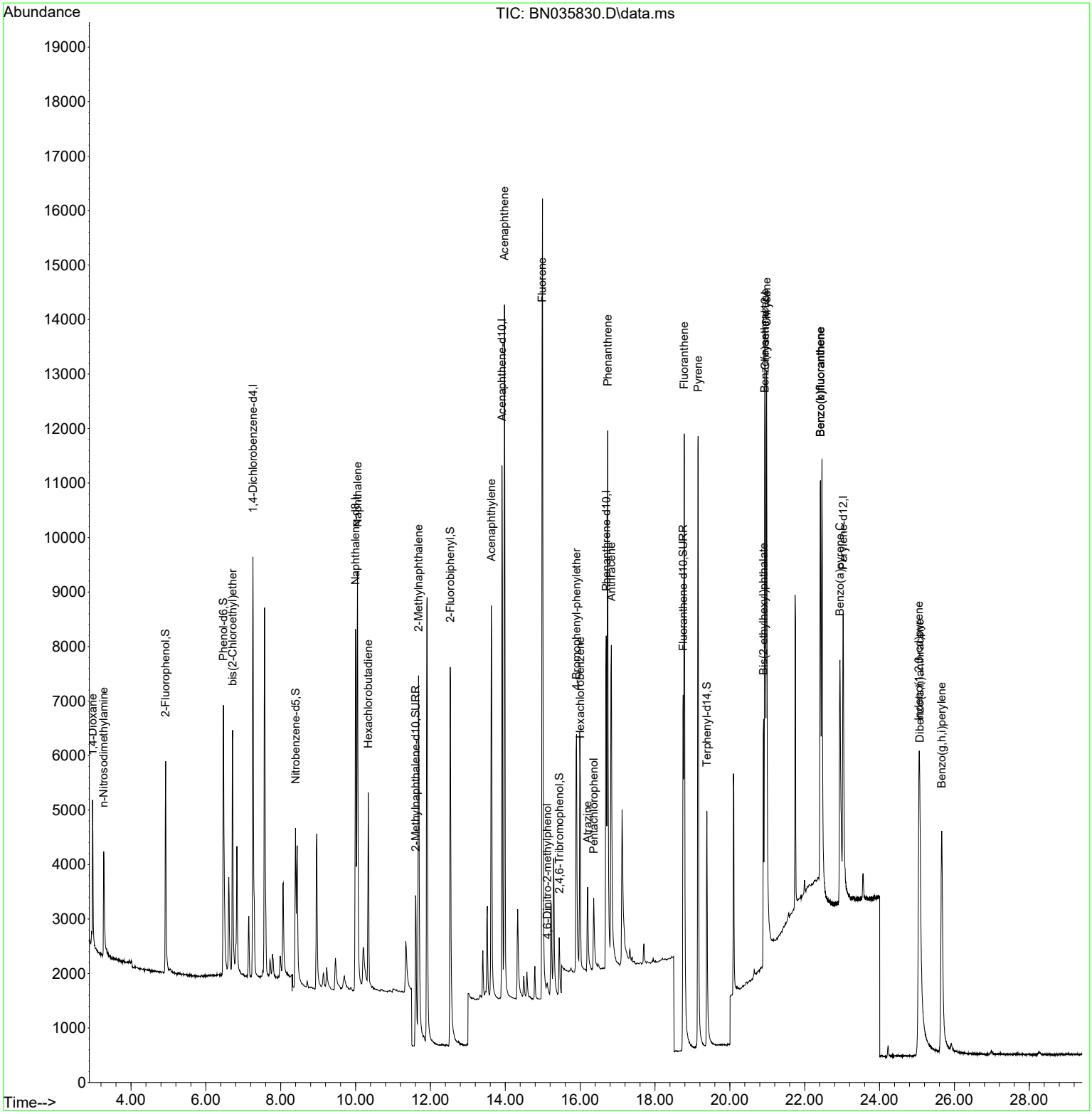
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.257 | 152 | 3866 | 0.400 | ng | | -0.01 |
| 7) Naphthalene-d8 | 9.998 | 136 | 9955 | 0.400 | ng | | -0.02 |
| 13) Acenaphthene-d10 | 13.914 | 164 | 5956 | 0.400 | ng | | -0.02 |
| 19) Phenanthrene-d10 | 16.698 | 188 | 11143 | 0.400 | ng | | # 0.00 |
| 29) Chrysene-d12 | 20.947 | 240 | 7851 | 0.400 | ng | | # 0.00 |
| 35) Perylene-d12 | 23.026 | 264 | 7870 | 0.400 | ng | | #-0.01 |
| System Monitoring Compounds | | | | | | | |
| 4) 2-Fluorophenol | 4.924 | 112 | 3514 | 0.363 | ng | | -0.01 |
| 5) Phenol-d6 | 6.470 | 99 | 6003 | 0.516 | ng | | -0.02 |
| 8) Nitrobenzene-d5 | 8.397 | 82 | 3360 | 0.553 | ng | | -0.01 |
| 11) 2-Methylnaphthalene-d10 | 11.605 | 152 | 5482 | 0.352 | ng | | -0.02 |
| 14) 2,4,6-Tribromophenol | 15.443 | 330 | 1203 | 0.285 | ng | | -0.01 |
| 15) 2-Fluorobiphenyl | 12.528 | 172 | 9033 | 0.401 | ng | | -0.02 |
| 27) Fluoranthene-d10 | 18.752 | 212 | 9737 | 0.308 | ng | | 0.00 |
| 31) Terphenyl-d14 | 19.384 | 244 | 6543 | 0.422 | ng | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 2.974 | 88 | 1940 | 0.525 | ng | | 99 |
| 3) n-Nitrosodimethylamine | 3.270 | 42 | 1162 | 0.377 | ng | # | 83 |
| 6) bis(2-Chloroethyl)ether | 6.715 | 93 | 4053 | 0.415 | ng | | 99 |
| 9) Naphthalene | 10.052 | 128 | 10855 | 0.413 | ng | | 99 |
| 10) Hexachlorobutadiene | 10.340 | 225 | 2815 | 0.465 | ng | # | 100 |
| 12) 2-Methylnaphthalene | 11.681 | 142 | 6938 | 0.369 | ng | | 98 |
| 16) Acenaphthylene | 13.625 | 152 | 9384 | 0.375 | ng | | 100 |
| 17) Acenaphthene | 13.978 | 154 | 6532 | 0.393 | ng | | 100 |
| 18) Fluorene | 14.983 | 166 | 8318 | 0.350 | ng | | 99 |
| 20) 4,6-Dinitro-2-methylph... | 15.122 | 198 | 301 | 0.275 | ng | # | 35 |
| 21) 4-Bromophenyl-phenylether | 15.904 | 248 | 2677 | 0.411 | ng | # | 94 |
| 22) Hexachlorobenzene | 16.003 | 284 | 3900 | 0.510 | ng | | 96 |
| 23) Atrazine | 16.202 | 200 | 1790 | 0.386 | ng | | 96 |
| 24) Pentachlorophenol | 16.363 | 266 | 1032 | 0.310 | ng | | 88 |
| 25) Phenanthrene | 16.735 | 178 | 11523 | 0.376 | ng | | 100 |
| 26) Anthracene | 16.835 | 178 | 9576 | 0.346 | ng | | 100 |
| 28) Fluoranthene | 18.780 | 202 | 13046 | 0.316 | ng | | 100 |
| 30) Pyrene | 19.152 | 202 | 13156 | 0.454 | ng | | 100 |
| 32) Benzo(a)anthracene | 20.929 | 228 | 8776 | 0.320 | ng | | 100 |
| 33) Chrysene | 20.983 | 228 | 12184 | 0.430 | ng | | 100 |
| 34) Bis(2-ethylhexyl)phtha... | 20.902 | 149 | 4711 | 0.434 | ng | | 100 |
| 36) Indeno(1,2,3-cd)pyrene | 25.052 | 276 | 10972 | 0.357 | ng | | 99 |
| 37) Benzo(b)fluoranthene | 22.418 | 252 | 14430 | 0.501 | ng | # | 95 |
| 38) Benzo(k)fluoranthene | 22.418 | 252 | 14430 | 0.509 | ng | | 95 |
| 39) Benzo(a)pyrene | 22.942 | 252 | 8861 | 0.374 | ng | # | 88 |
| 40) Dibenzo(a,h)anthracene | 25.076 | 278 | 7792 | 0.321 | ng | | 92 |
| 41) Benzo(g,h,i)perylene | 25.661 | 276 | 10218 | 0.403 | ng | | 99 |

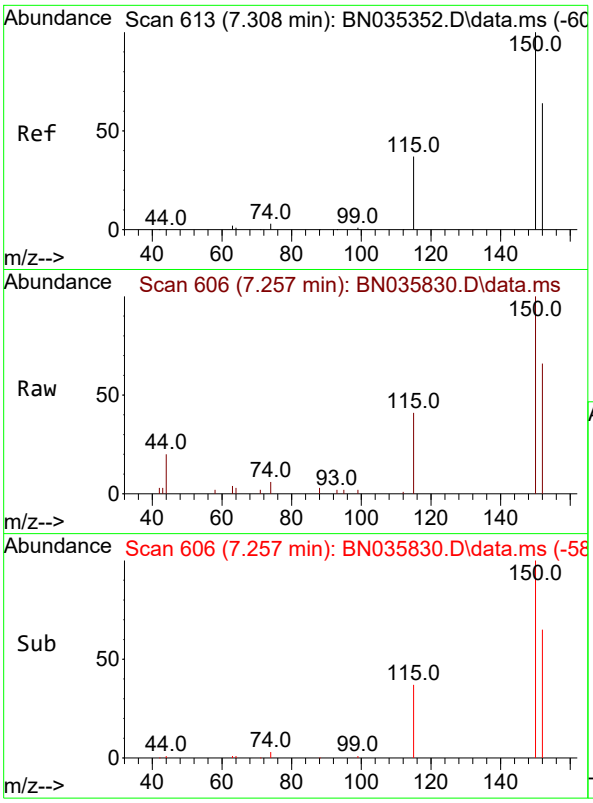
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035830.D
Acq On : 24 Dec 2024 20:55
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 20 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Quant Time: Dec 24 23:55:02 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



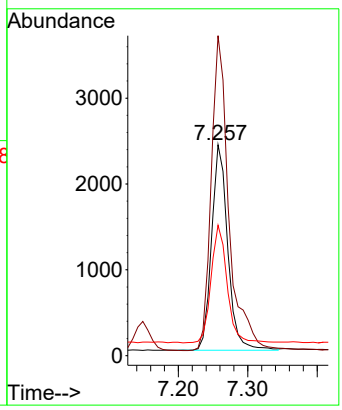


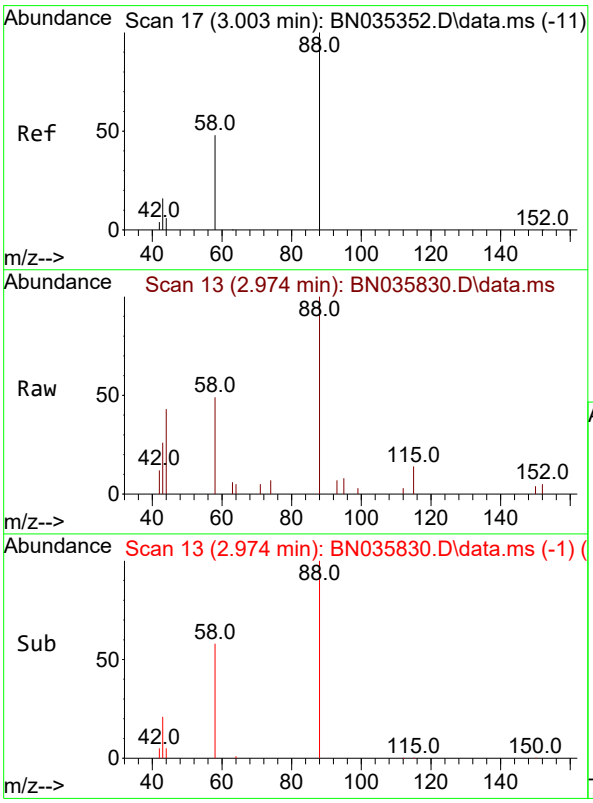

#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 6
Delta R.T. -0.015 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:152 Resp: 3866

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 151.7 | 124.0 | 186.0 |
| 115 | 61.8 | 49.6 | 74.4 |

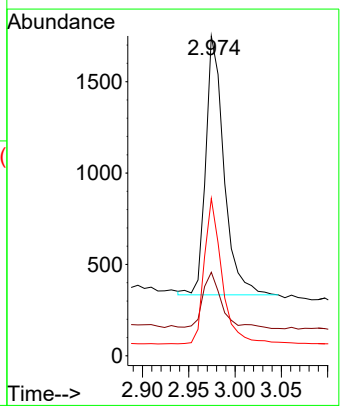


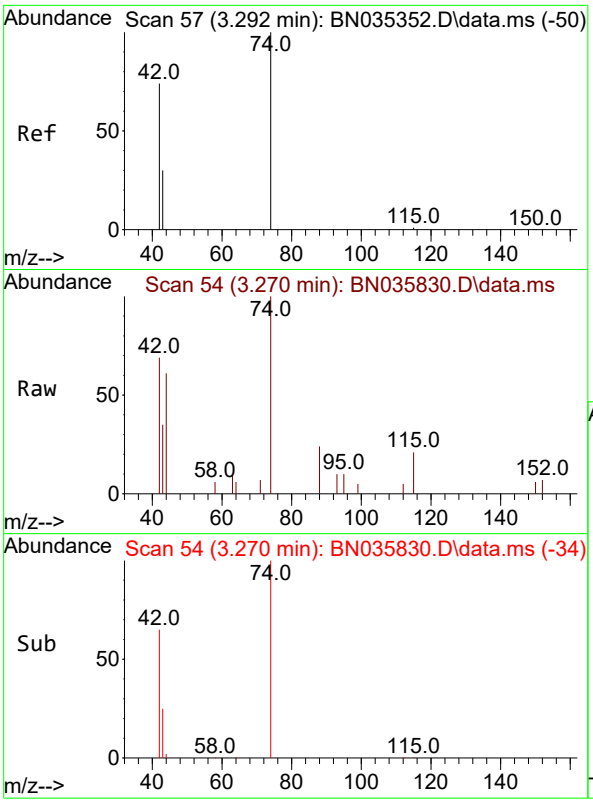




#2
1,4-Dioxane
Concen: 0.525 ng
RT: 2.974 min Scan# 13
Delta R.T. -0.007 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion: 88 Resp: 1940

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 22.6 | 17.2 | 25.8 |
| 58 | 55.1 | 44.5 | 66.7 |



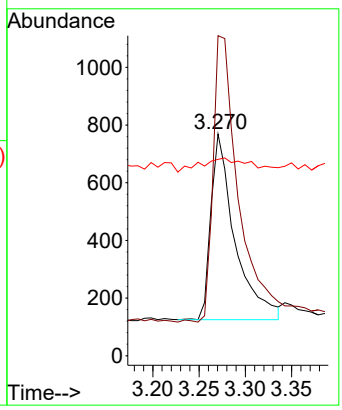


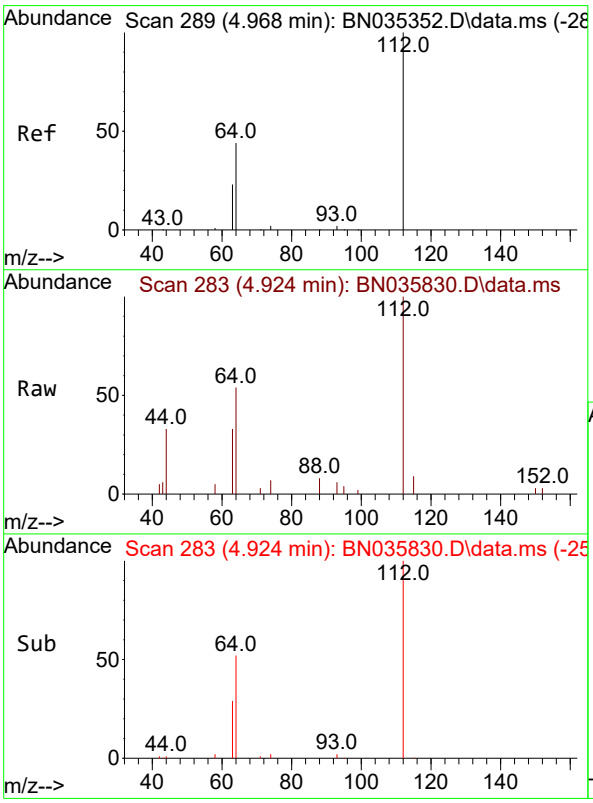

#3
n-Nitrosodimethylamine
Concen: 0.377 ng
RT: 3.270 min Scan# 54
Delta R.T. -0.007 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion: 42 Resp: 1162

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 177.6 | 124.9 | 187.3 |
| 44 | 15.8 | 2.2 | 3.4# |

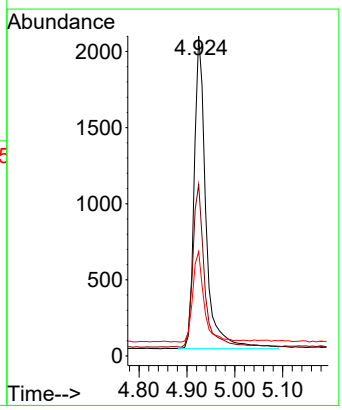


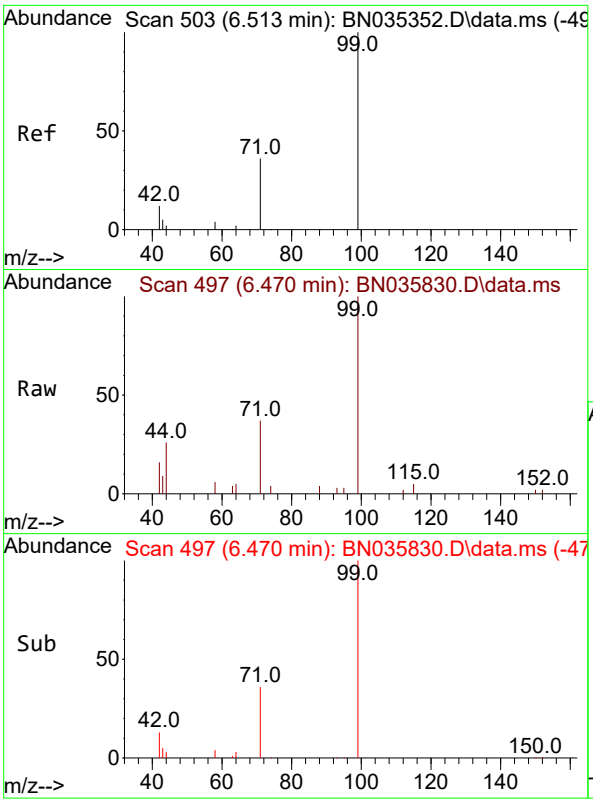




#4
2-Fluorophenol
Concen: 0.363 ng
RT: 4.924 min Scan# 283
Delta R.T. -0.015 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion:112 Resp: 3514

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 50.9 | 39.8 | 59.8 |
| 63 | 27.9 | 21.0 | 31.6 |



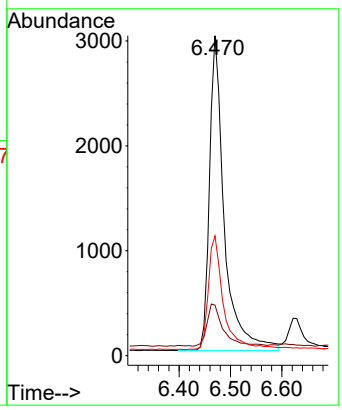


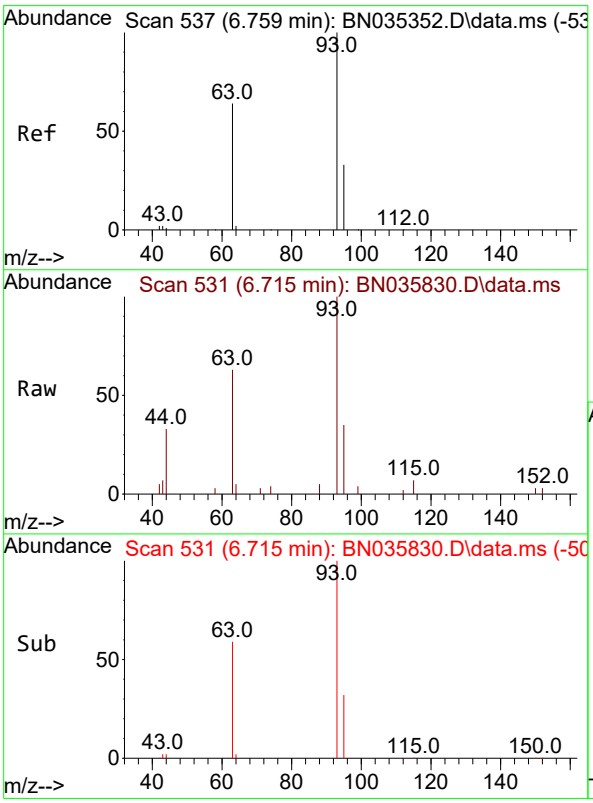

#5
Phenol-d6
Concen: 0.516 ng
RT: 6.470 min Scan# 4
Delta R.T. -0.022 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion: 99 Resp: 6003

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 14.8 | 11.4 | 17.2 |
| 71 | 37.8 | 29.3 | 43.9 |

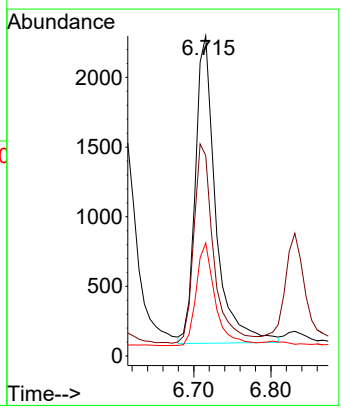


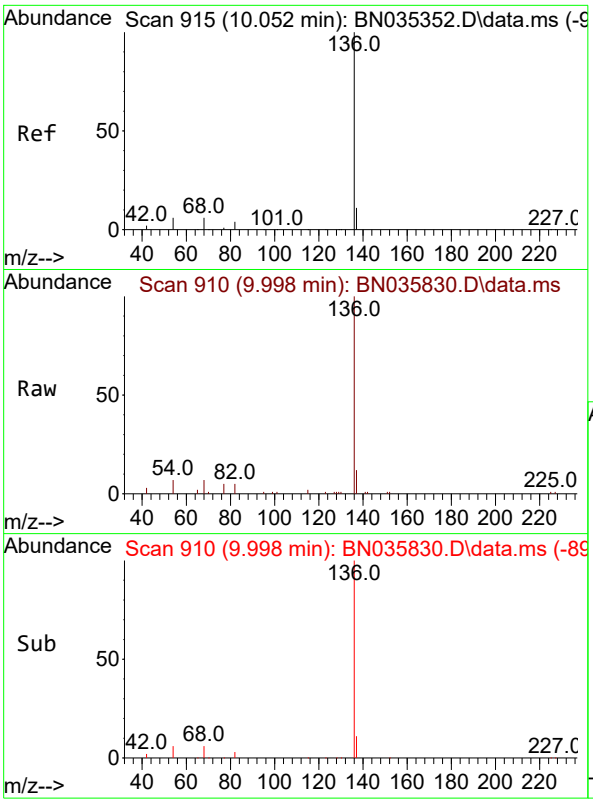




#6
bis(2-Chloroethyl)ether
Concen: 0.415 ng
RT: 6.715 min Scan# 531
Delta R.T. -0.015 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion: 93 Resp: 4053

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 63.1 | 50.4 | 75.6 |
| 95 | 31.0 | 25.7 | 38.5 |



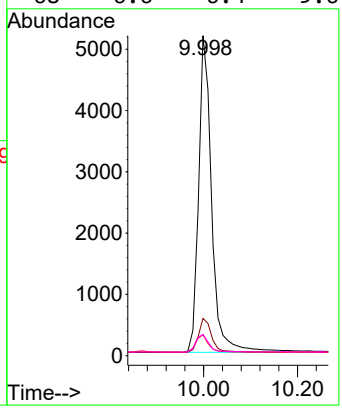


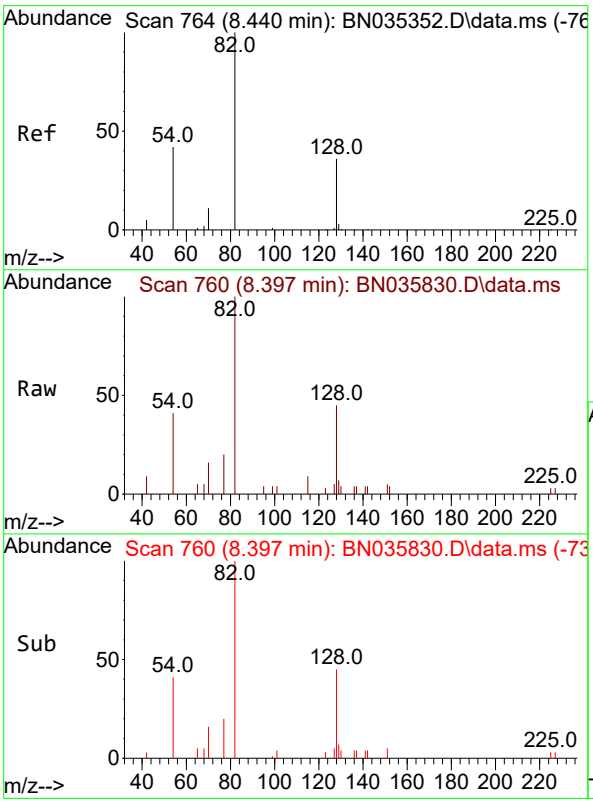

#7
Naphthalene-d8
Concen: 0.400 ng
RT: 9.998 min Scan# 91
Delta R.T. -0.022 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:136 Resp: 9955

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.6 | 10.2 | 15.2 |
| 54 | 6.6 | 6.1 | 9.1 |
| 68 | 6.6 | 6.4 | 9.6 |

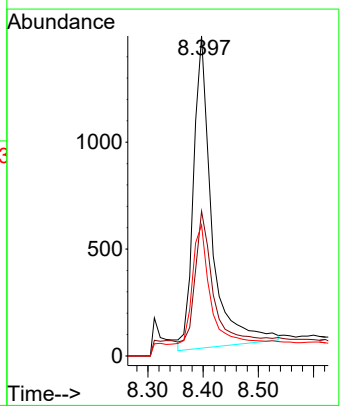


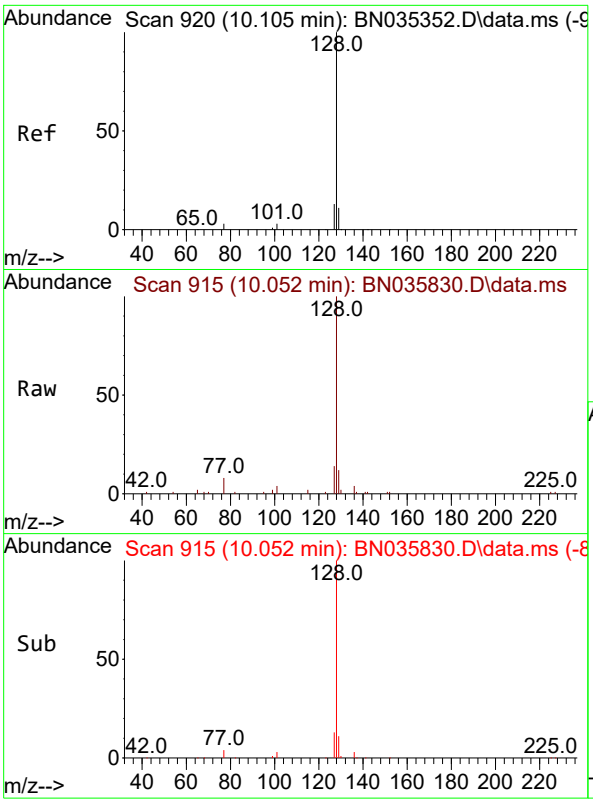




#8
Nitrobenzene-d5
Concen: 0.553 ng
RT: 8.397 min Scan# 760
Delta R.T. -0.011 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion: 82 Resp: 3360

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 45.2 | 33.4 | 50.0 |
| 54 | 40.9 | 36.7 | 55.1 |



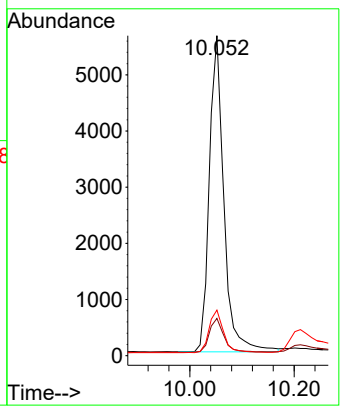


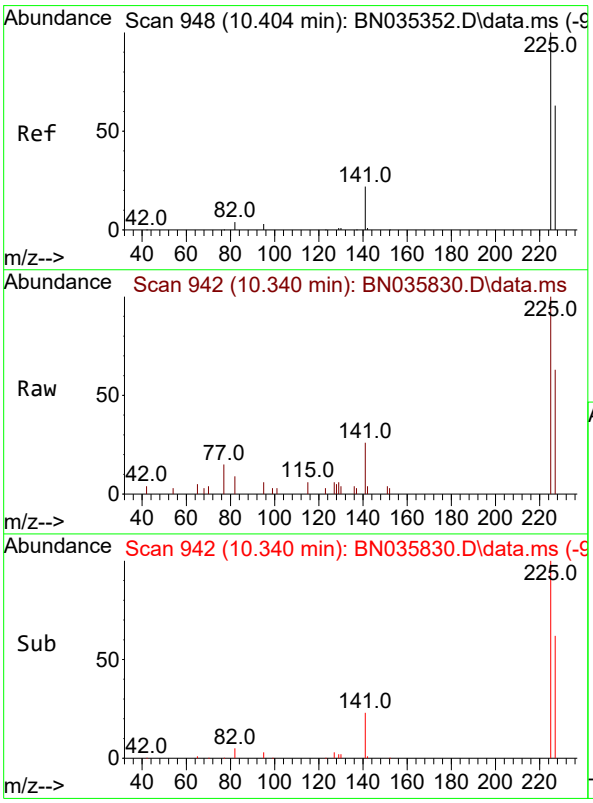

#9
Naphthalene
Concen: 0.413 ng
RT: 10.052 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:128 Resp: 10855

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 11.7 | 9.8 | 14.6 |
| 127 | 14.3 | 11.4 | 17.2 |

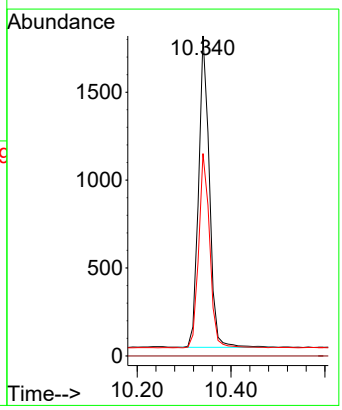


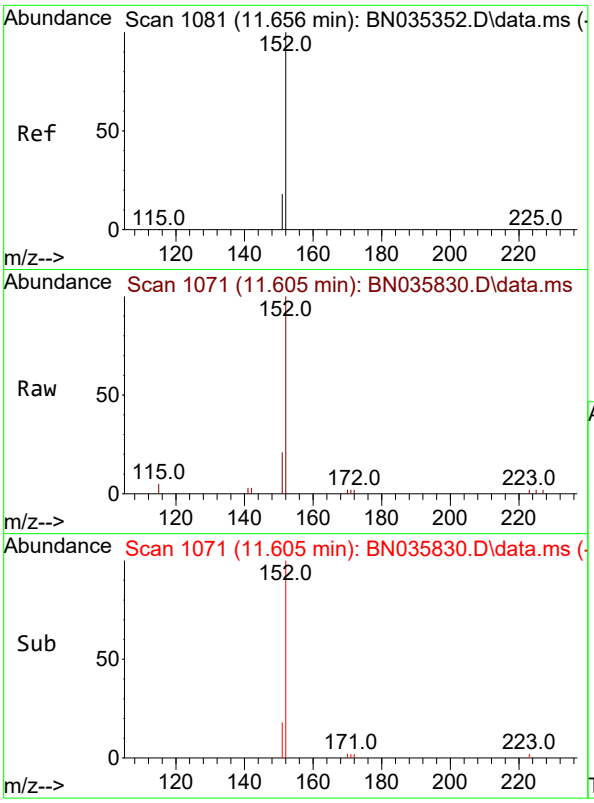




#10
Hexachlorobutadiene
Concen: 0.465 ng
RT: 10.340 min Scan# 942
Delta R.T. -0.022 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion:225 Resp: 2815

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 0.0 | 0.0 | 0.0 |
| 227 | 64.1 | 51.3 | 76.9 |



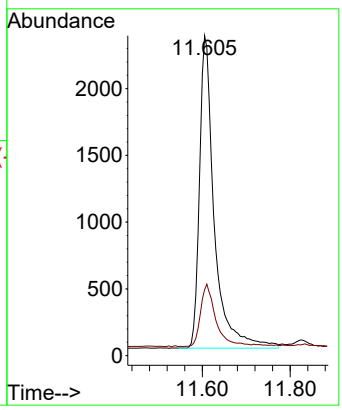


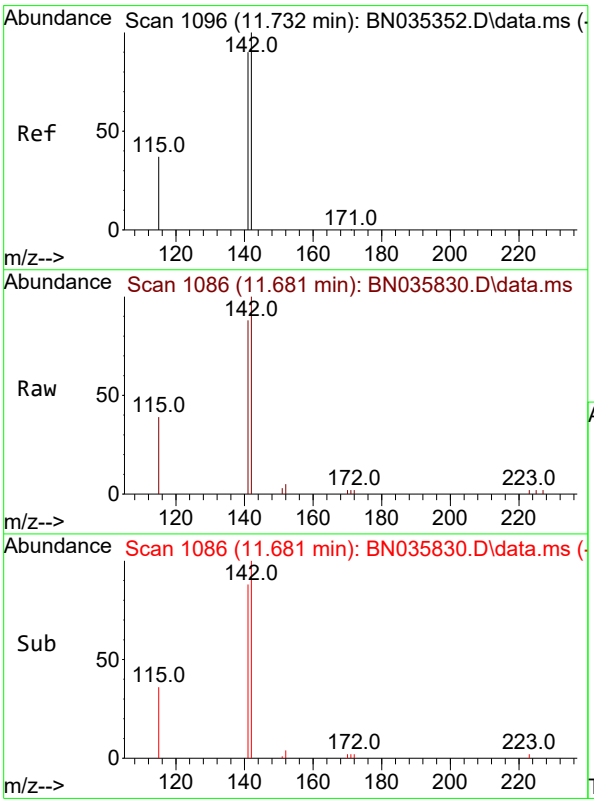

#11
2-Methylnaphthalene-d10
Concen: 0.352 ng
RT: 11.605 min Scan# 1
Delta R.T. -0.015 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:152 Resp: 5482

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.4 | 16.6 | 25.0 |

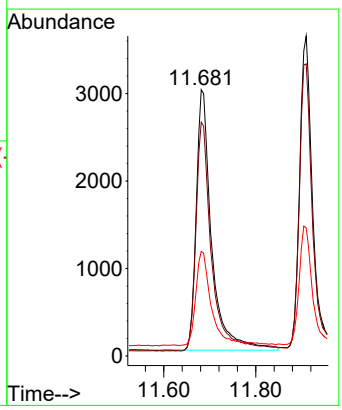


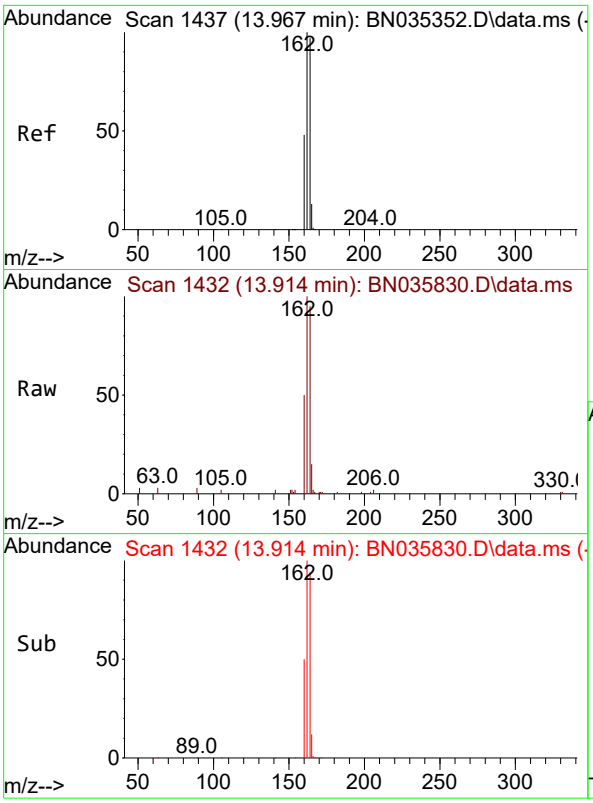




#12
2-Methylnaphthalene
Concen: 0.369 ng
RT: 11.681 min Scan# 1086
Delta R.T. -0.015 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion:142 Resp: 6938

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 87.8 | 72.2 | 108.4 |
| 115 | 39.3 | 31.4 | 47.0 |



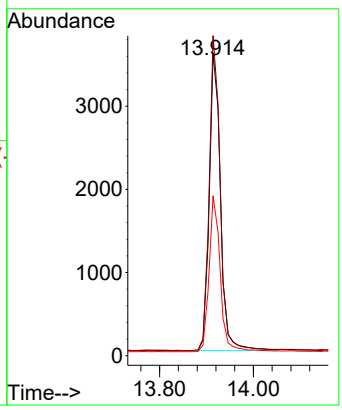


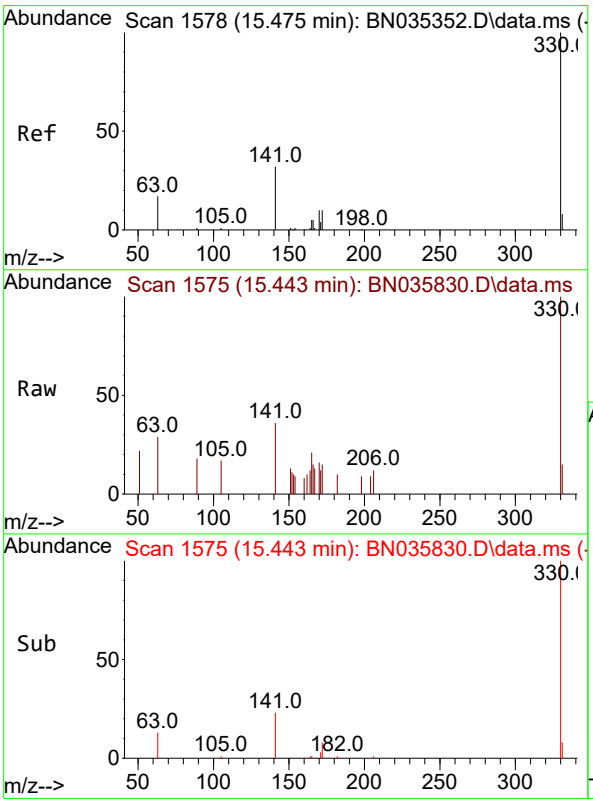

#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.914 min Scan# 14
Delta R.T. -0.022 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:164 Resp: 5956

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 105.8 | 82.2 | 123.2 |
| 160 | 52.9 | 40.1 | 60.1 |

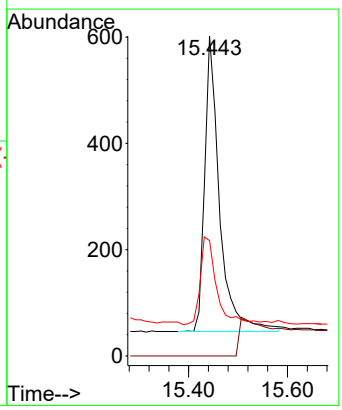


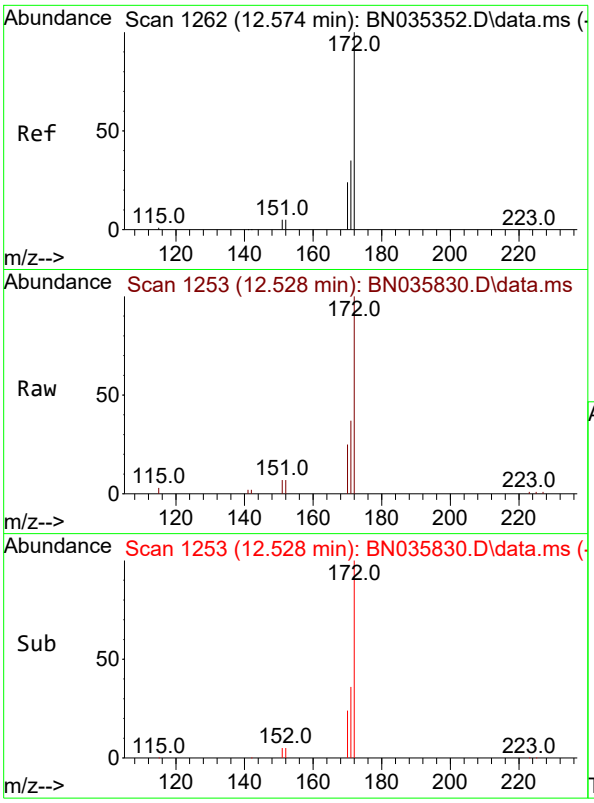




#14
2,4,6-Tribromophenol
Concen: 0.285 ng
RT: 15.443 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion:330 Resp: 1203

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 0.0 | 0.0 | 0.0 |
| 141 | 33.3 | 26.6 | 40.0 |



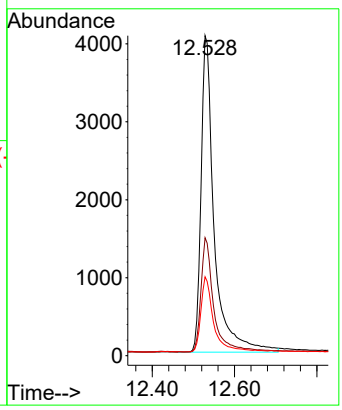


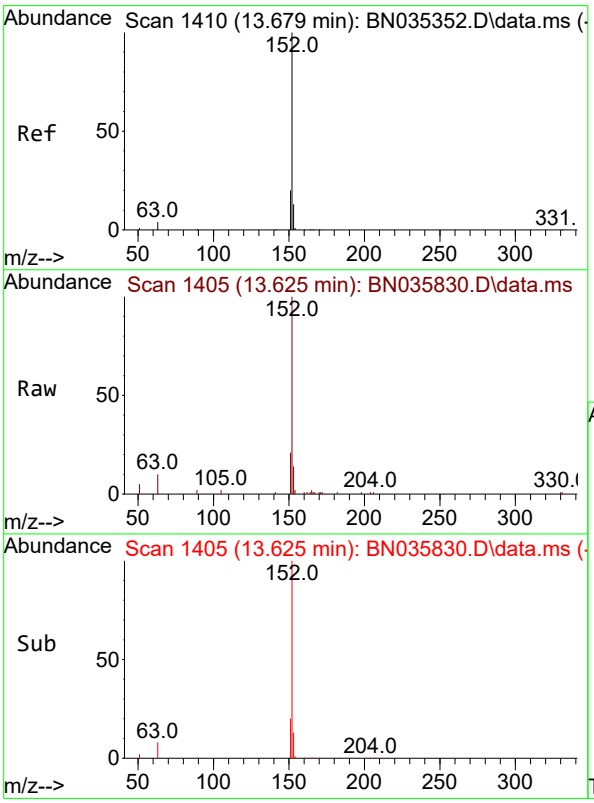

#15
2-Fluorobiphenyl
Concen: 0.401 ng
RT: 12.528 min Scan# 1
Delta R.T. -0.015 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:172 Resp: 9033

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 36.9 | 29.0 | 43.4 |
| 170 | 24.7 | 19.8 | 29.8 |

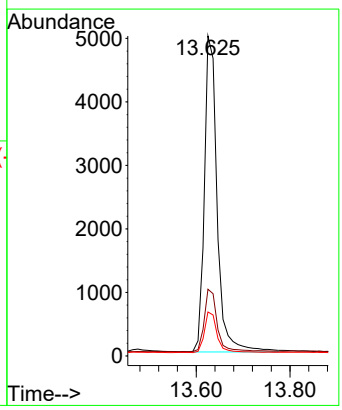


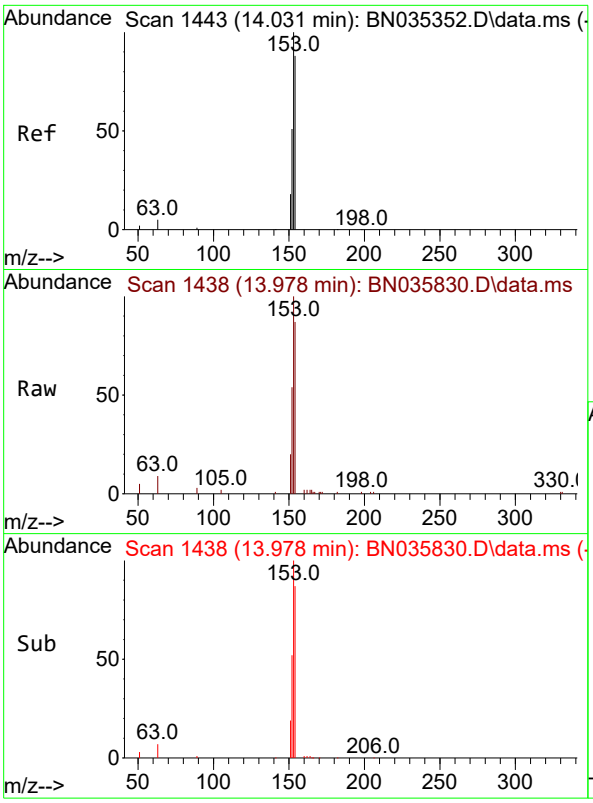




#16
Acenaphthylene
Concen: 0.375 ng
RT: 13.625 min Scan# 1405
Delta R.T. -0.022 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion:152 Resp: 9384

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.2 | 16.2 | 24.2 |
| 153 | 12.7 | 10.4 | 15.6 |



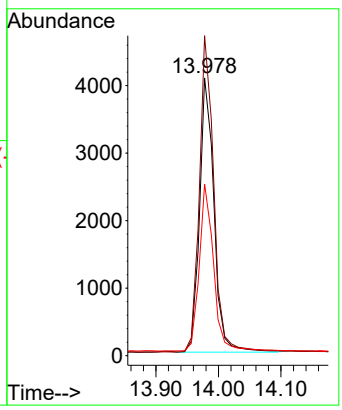


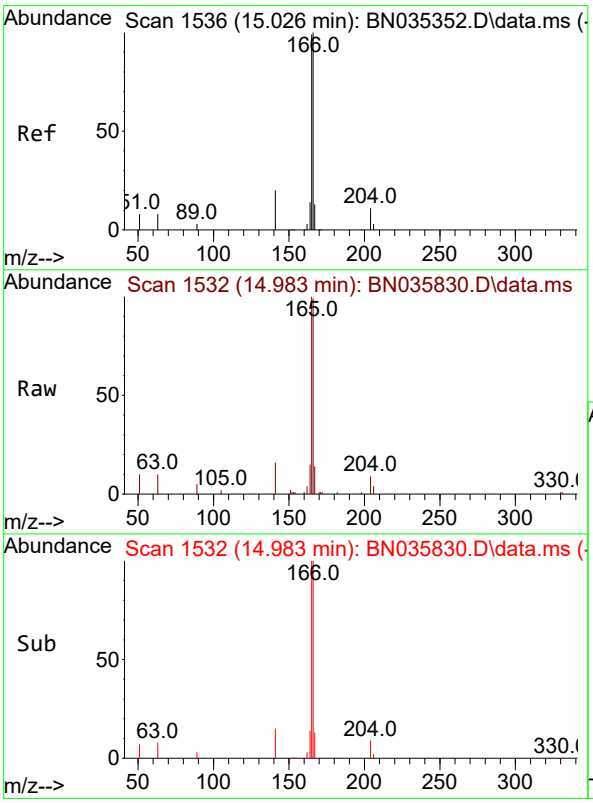

#17
Acenaphthene
Concen: 0.393 ng
RT: 13.978 min Scan# 14
Delta R.T. -0.022 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:154 Resp: 6532

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 115.7 | 92.6 | 139.0 |
| 152 | 60.6 | 49.0 | 73.6 |

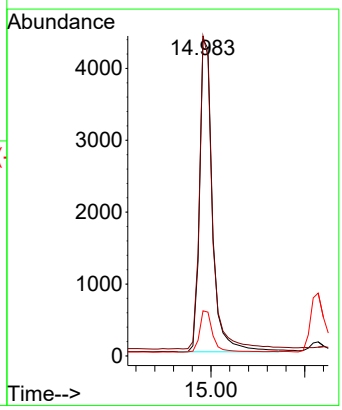


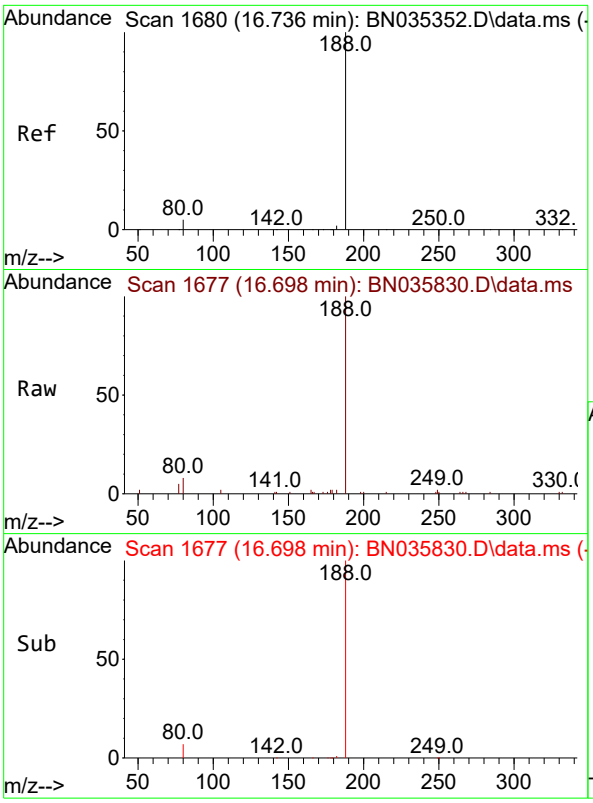




#18
Fluorene
Concen: 0.350 ng
RT: 14.983 min Scan# 1532
Delta R.T. -0.022 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion:166 Resp: 8318

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 98.0 | 79.7 | 119.5 |
| 167 | 13.4 | 10.8 | 16.2 |



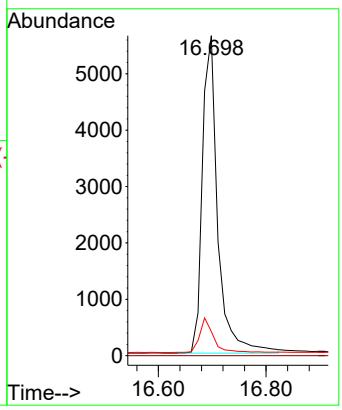


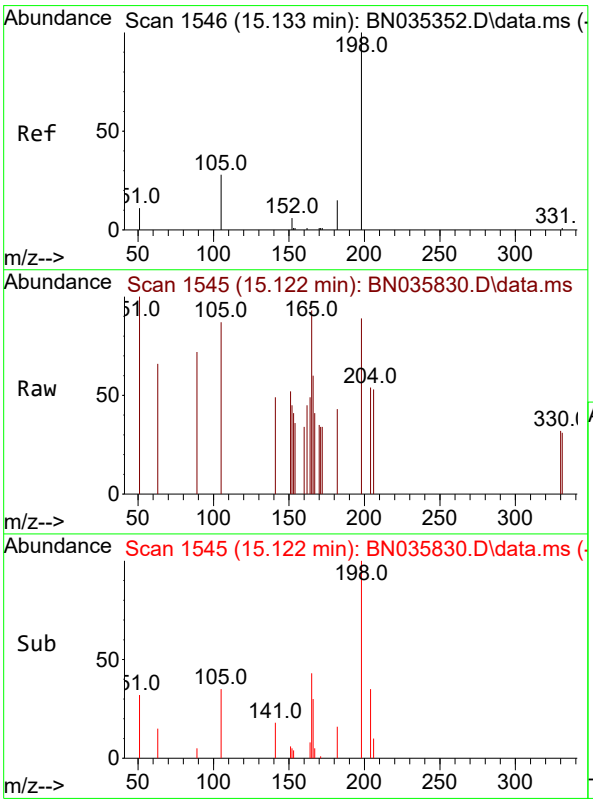

#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:188 Resp: 11143

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 7.6 | 4.6 | 6.8# |

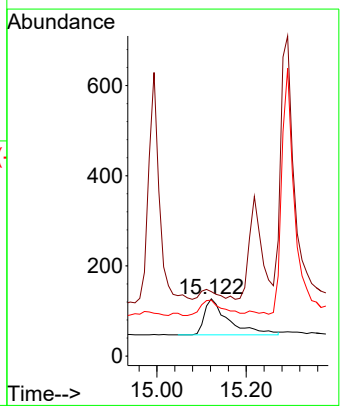


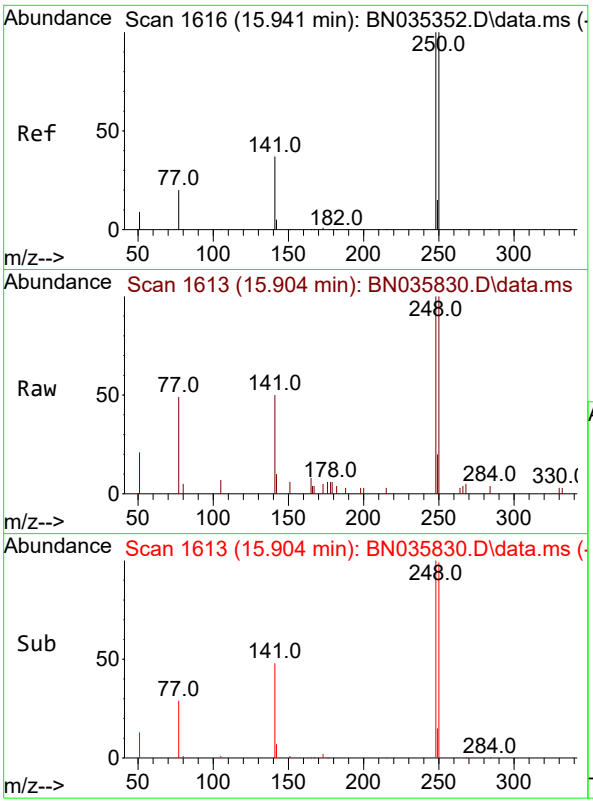




#20
4,6-Dinitro-2-methylphenol
Concen: 0.275 ng
RT: 15.122 min Scan# 1545
Delta R.T. -0.000 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion:198 Resp: 301

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 198 | 100 | | |
| 51 | 112.6 | 46.5 | 69.7# |
| 105 | 97.6 | 45.3 | 67.9# |



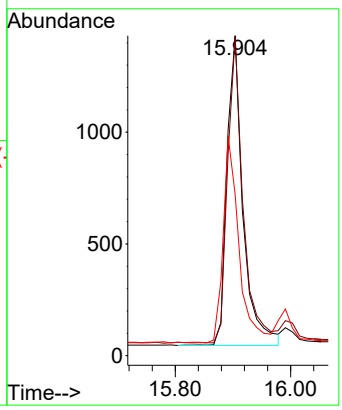


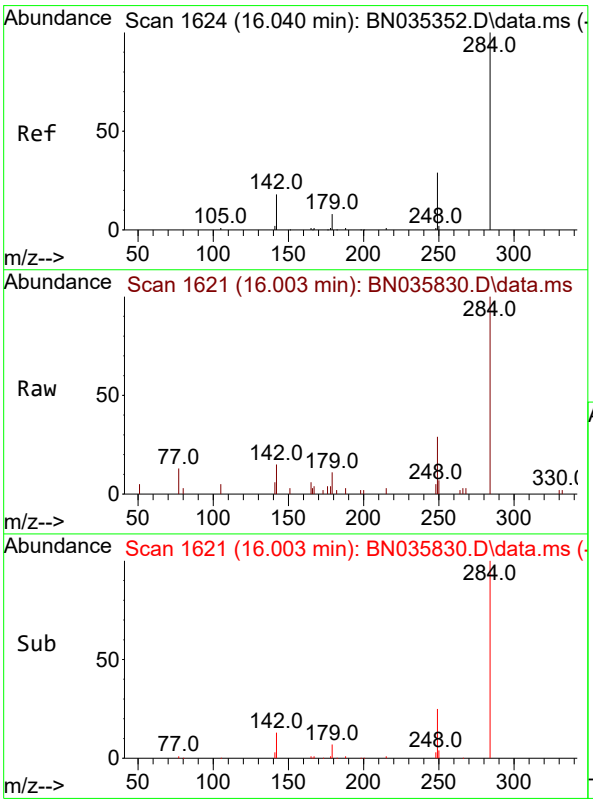

#21
4-Bromophenyl-phenylether
Concen: 0.411 ng
RT: 15.904 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:248 Resp: 2677

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 99.7 | 80.6 | 120.8 |
| 141 | 50.3 | 31.5 | 47.3# |

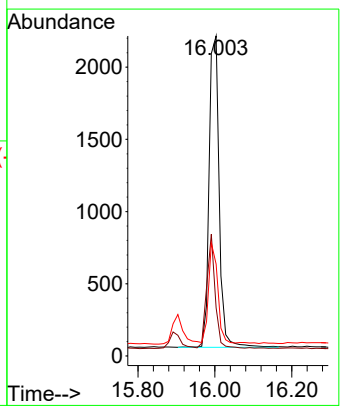


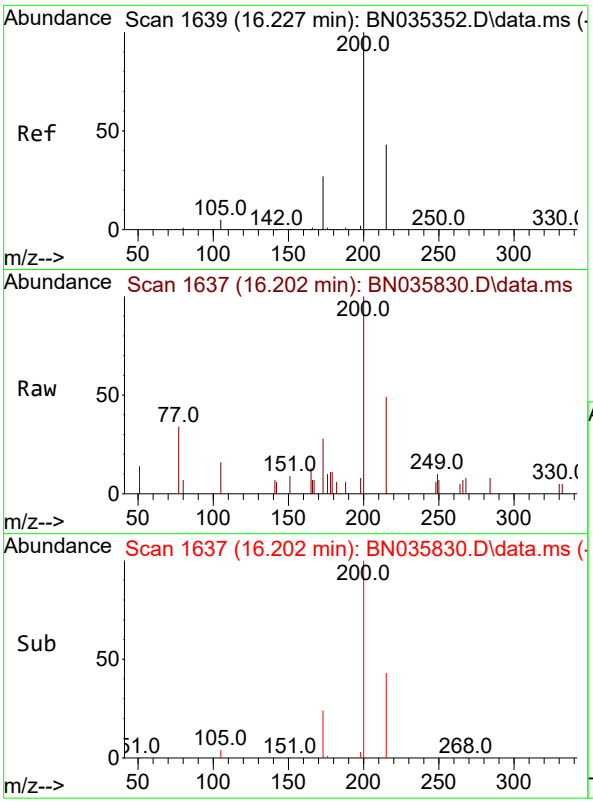




#22
Hexachlorobenzene
Concen: 0.510 ng
RT: 16.003 min Scan# 1621
Delta R.T. -0.013 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion:284 Resp: 3900

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 30.4 | 26.7 | 40.1 |
| 249 | 29.3 | 24.6 | 36.8 |



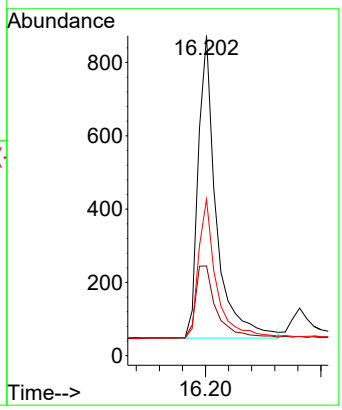


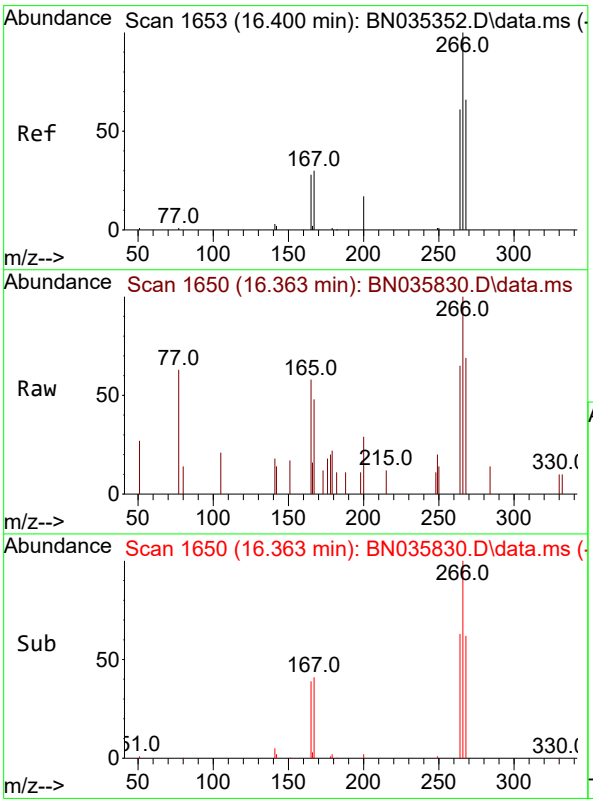

#23
Atrazine
Concen: 0.386 ng
RT: 16.202 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:200 Resp: 1790

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 173 | 28.1 | 24.1 | 36.1 |
| 215 | 48.9 | 36.9 | 55.3 |

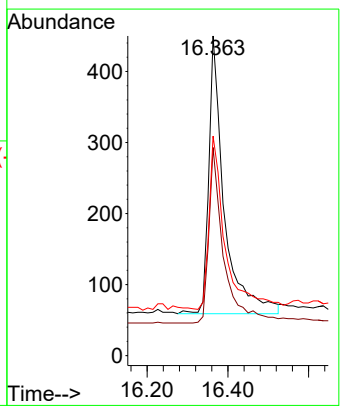


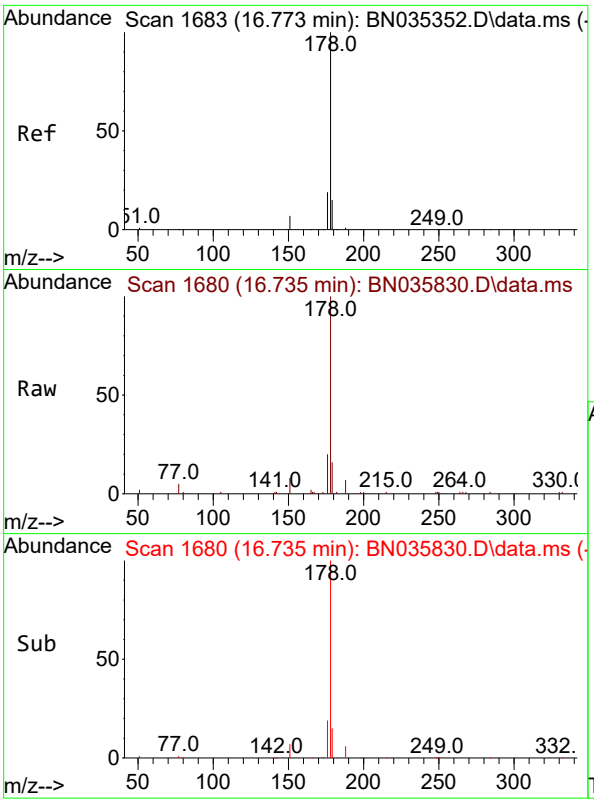




#24
Pentachlorophenol
Concen: 0.310 ng
RT: 16.363 min Scan# 1650
Delta R.T. -0.013 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion:266 Resp: 1032

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 264 | 60.9 | 42.3 | 63.5 |
| 268 | 63.5 | 43.3 | 64.9 |



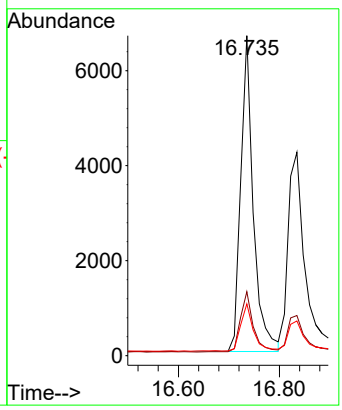


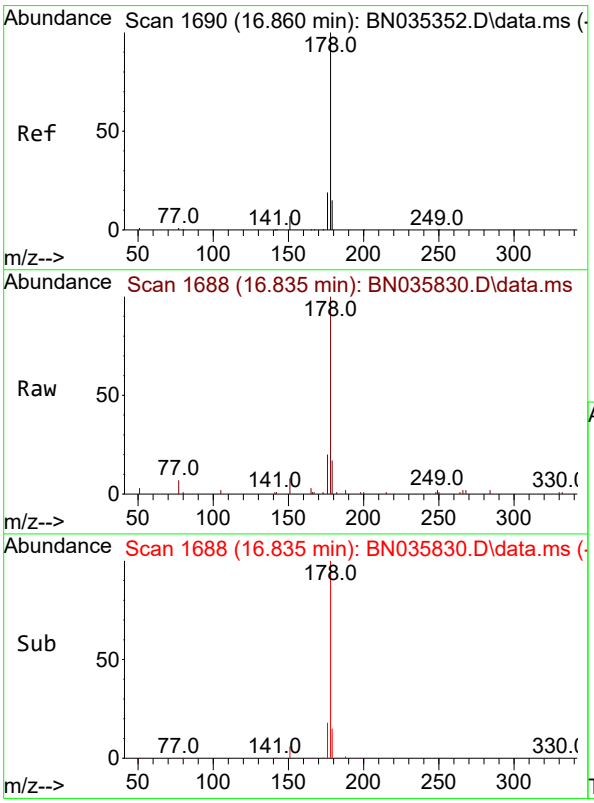

#25
Phenanthrene
Concen: 0.376 ng
RT: 16.735 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:178 Resp: 11523

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.1 | 15.4 | 23.2 |
| 179 | 15.6 | 12.3 | 18.5 |

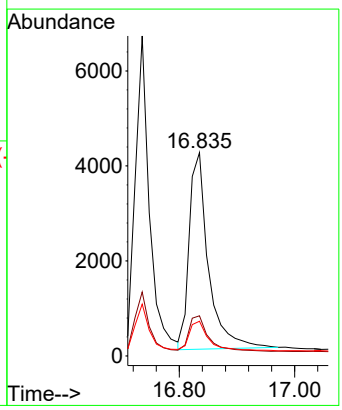


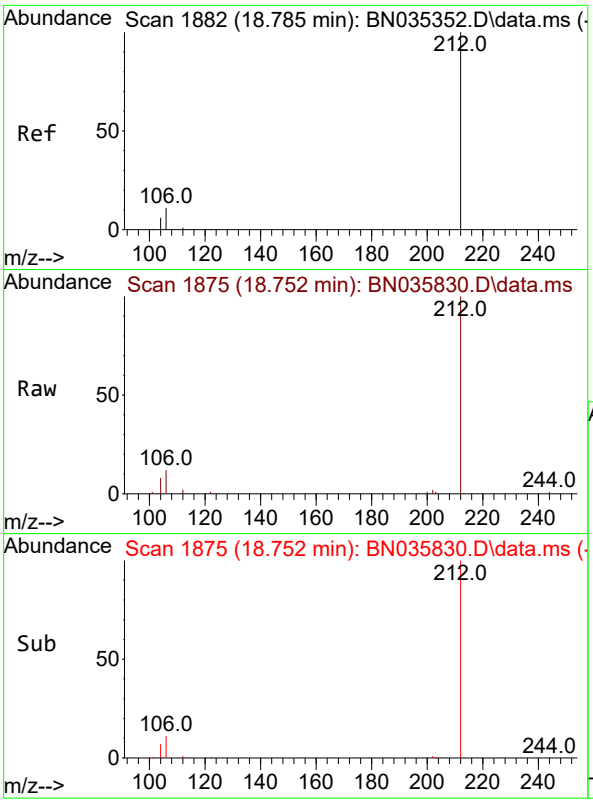




#26
Anthracene
Concen: 0.346 ng
RT: 16.835 min Scan# 1688
Delta R.T. -0.000 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion:178 Resp: 9576

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.9 | 15.0 | 22.6 |
| 179 | 15.6 | 12.6 | 18.8 |



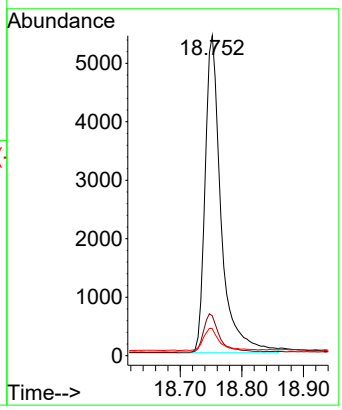


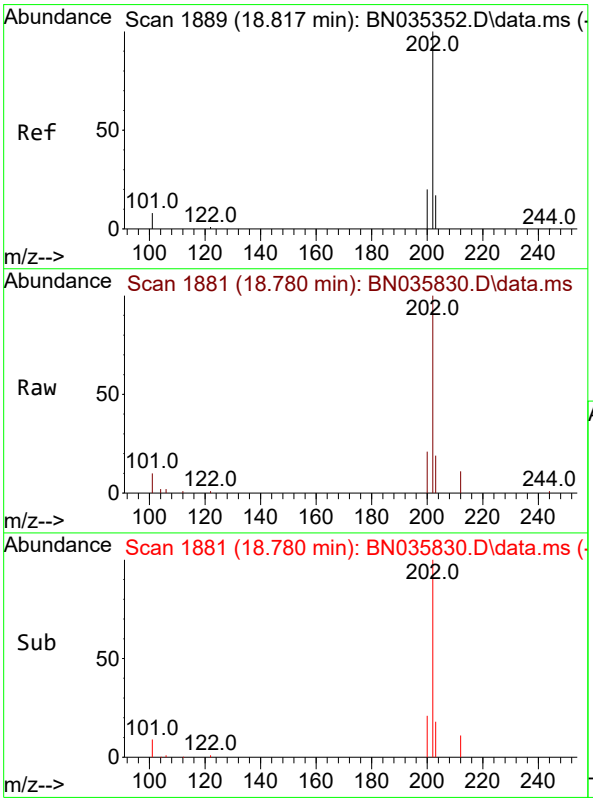

#27
Fluoranthene-d10
Concen: 0.308 ng
RT: 18.752 min Scan# 1
Delta R.T. -0.009 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:212 Resp: 9737

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 12.0 | 9.2 | 13.8 |
| 104 | 7.3 | 5.3 | 7.9 |

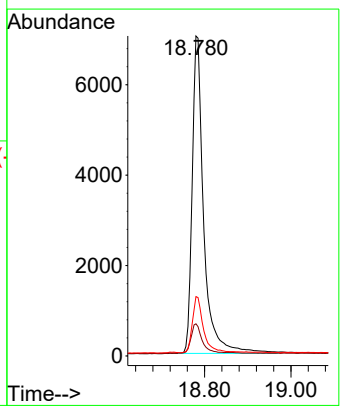


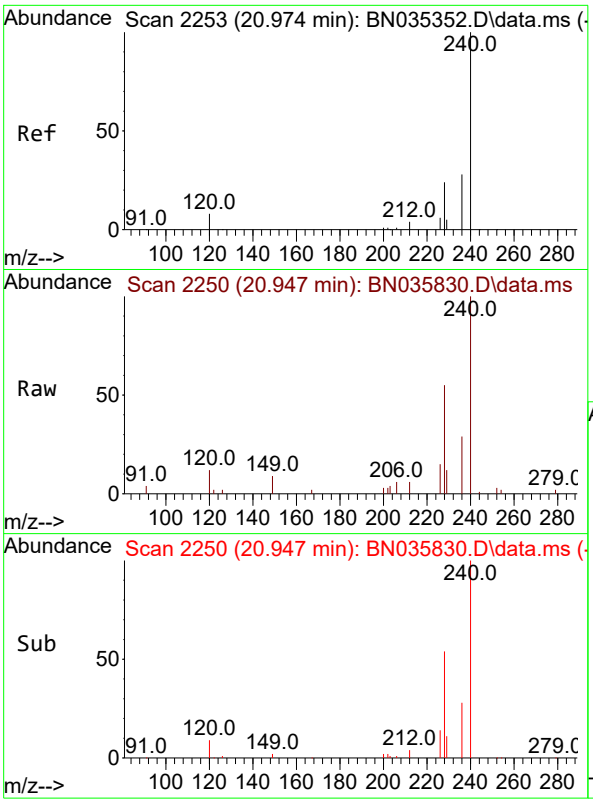




#28
Fluoranthene
Concen: 0.316 ng
RT: 18.780 min Scan# 1881
Delta R.T. -0.009 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion:202 Resp: 13046

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 8.9 | 7.4 | 11.0 |
| 203 | 17.0 | 13.7 | 20.5 |



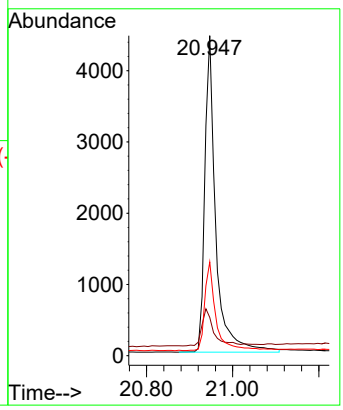


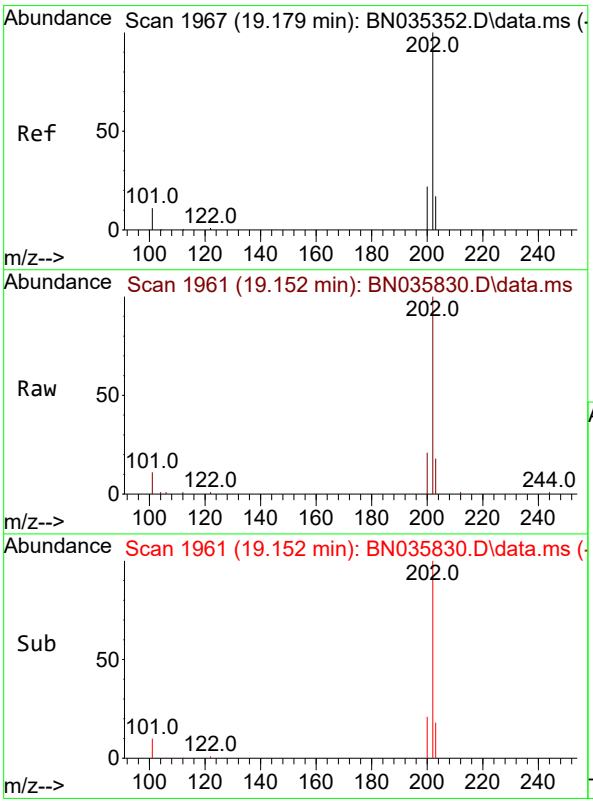

#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:240 Resp: 7851

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 11.9 | 7.9 | 11.9# |
| 236 | 29.3 | 22.9 | 34.3 |

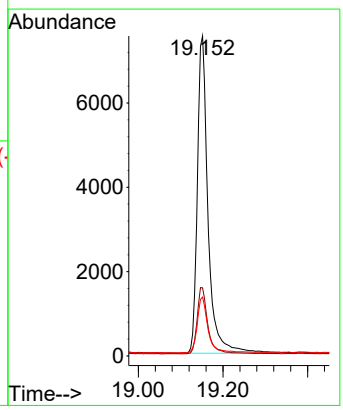


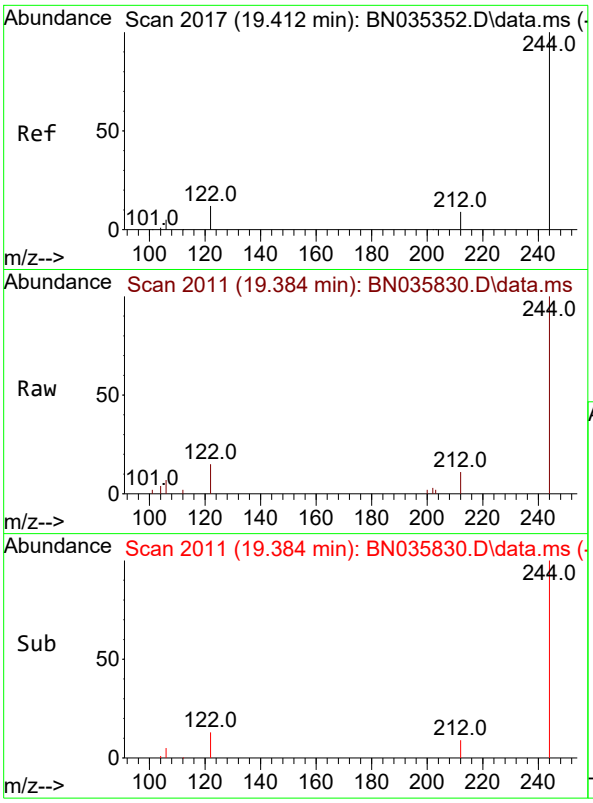




#30
Pyrene
Concen: 0.454 ng
RT: 19.152 min Scan# 1961
Delta R.T. -0.009 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion:202 Resp: 13156

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 20.9 | 17.0 | 25.4 |
| 203 | 17.9 | 14.3 | 21.5 |



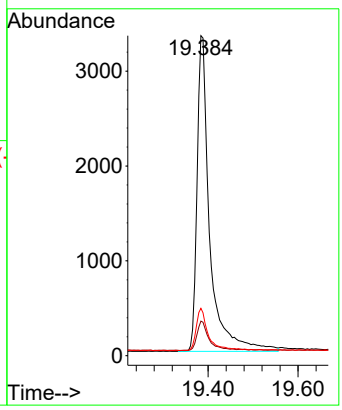


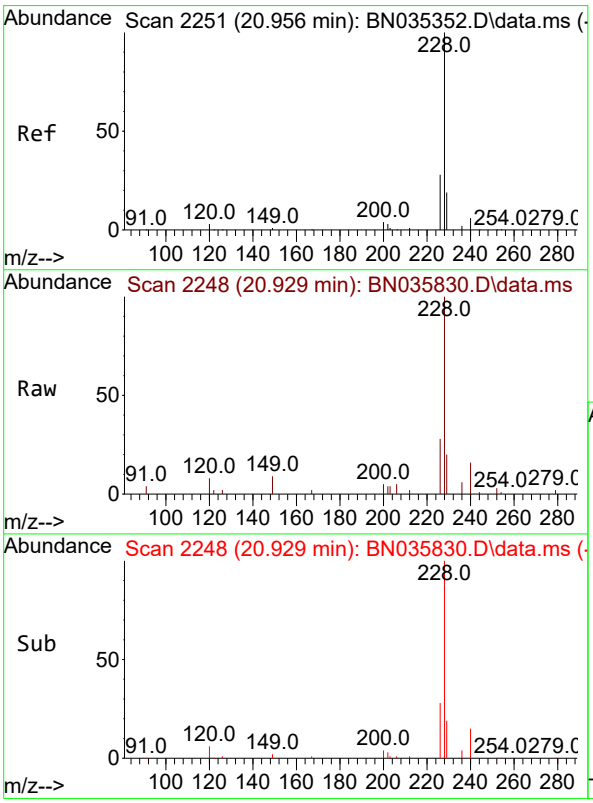

#31
Terphenyl-d14
Concen: 0.422 ng
RT: 19.384 min Scan# 2
Delta R.T. -0.005 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:244 Resp: 6543

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 10.8 | 8.1 | 12.1 |
| 122 | 14.8 | 10.3 | 15.5 |

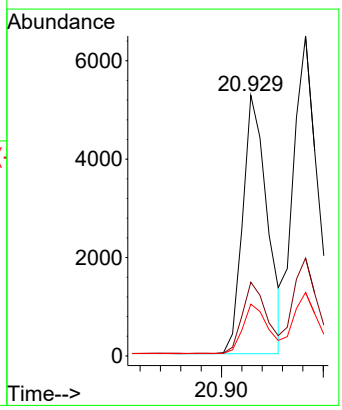


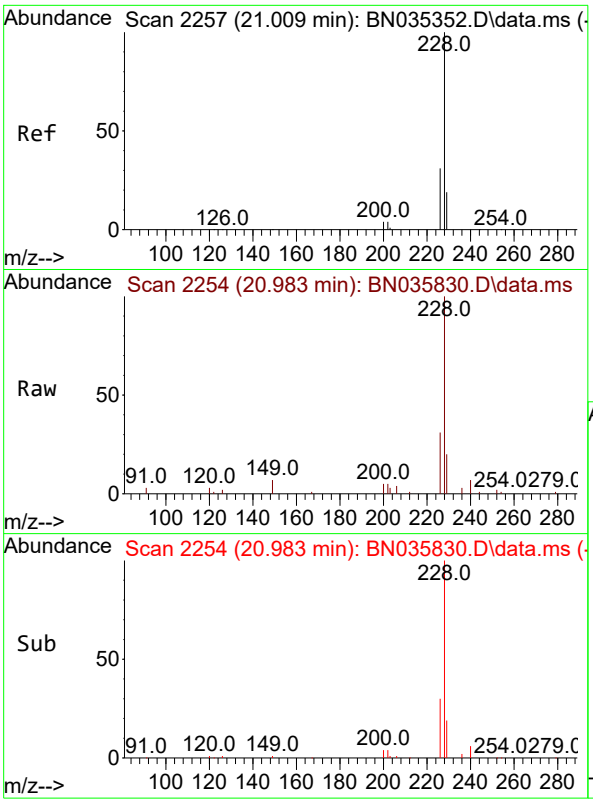




#32
Benzo(a)anthracene
Concen: 0.320 ng
RT: 20.929 min Scan# 2248
Delta R.T. -0.009 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion:228 Resp: 8776

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 28.3 | 22.5 | 33.7 |
| 229 | 19.9 | 15.8 | 23.8 |



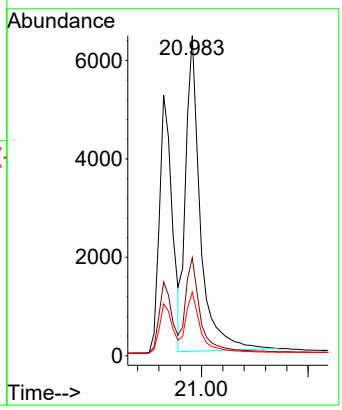


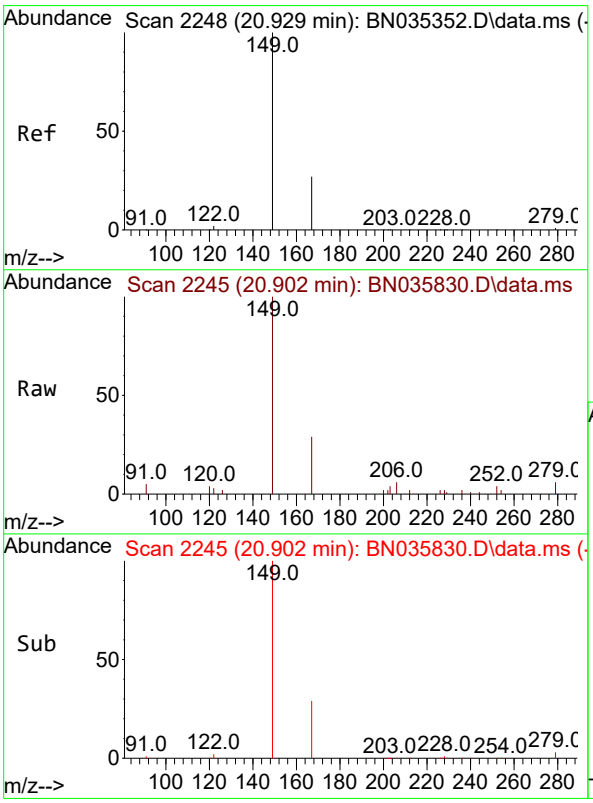

#33
Chrysene
Concen: 0.430 ng
RT: 20.983 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:228 Resp: 12184

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 30.6 | 24.6 | 37.0 |
| 229 | 19.9 | 15.9 | 23.9 |

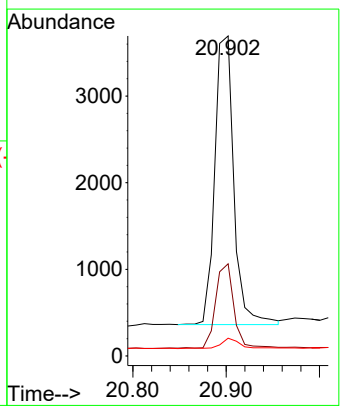


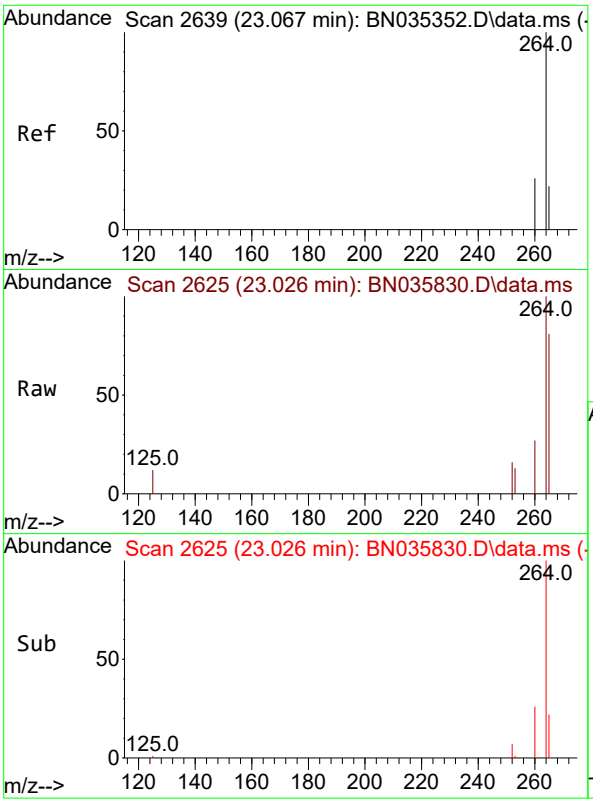




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.434 ng
RT: 20.902 min Scan# 2245
Delta R.T. -0.009 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion:149 Resp: 4711

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 27.7 | 22.2 | 33.4 |
| 279 | 3.7 | 2.7 | 4.1 |



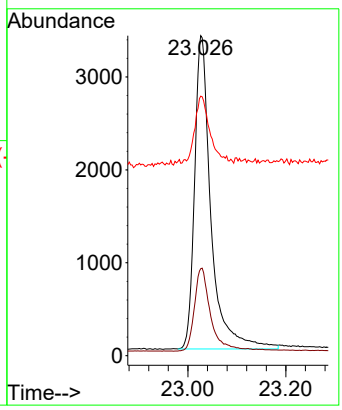


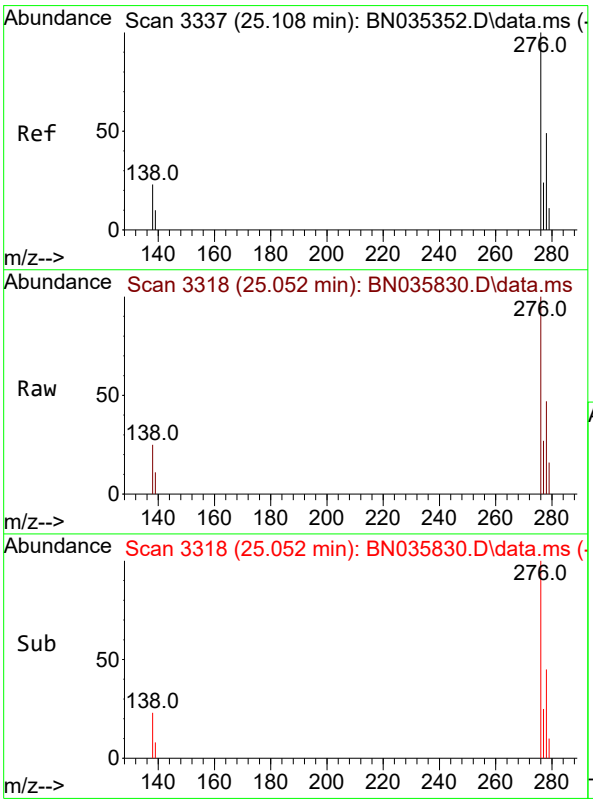

#35
Perylene-d12
Concen: 0.400 ng
RT: 23.026 min Scan# 2
Delta R.T. -0.015 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:264 Resp: 7870

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 27.2 | 21.4 | 32.2 |
| 265 | 81.1 | 40.2 | 60.4# |

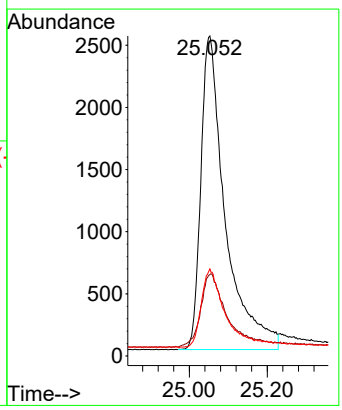


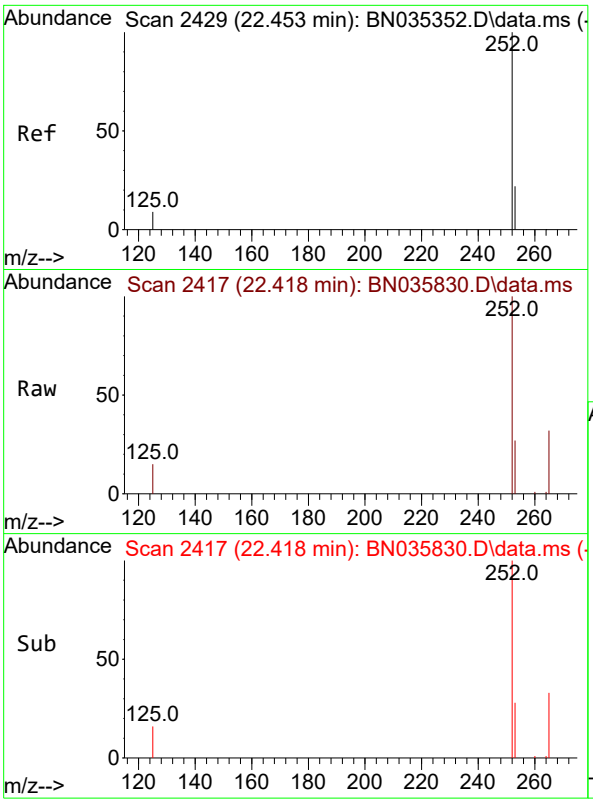




#36
Indeno(1,2,3-cd)pyrene
Concen: 0.357 ng
RT: 25.052 min Scan# 3318
Delta R.T. -0.015 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion:276 Resp: 10972

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 24.1 | 19.4 | 29.0 |
| 277 | 23.8 | 19.8 | 29.6 |



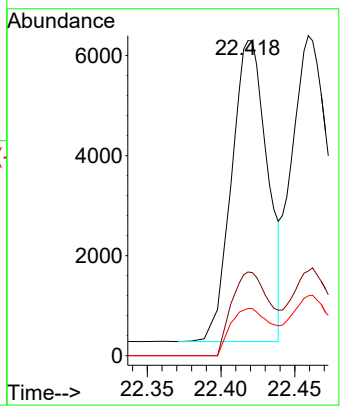


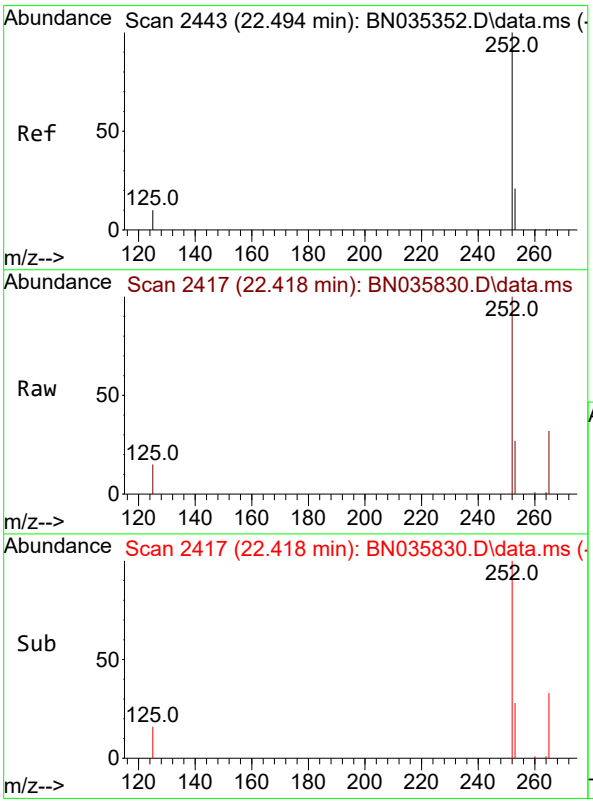

#37
Benzo(b)fluoranthene
Concen: 0.501 ng
RT: 22.418 min Scan# 24
Delta R.T. -0.012 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:252 Resp: 14430

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 26.6 | 19.6 | 29.4 |
| 125 | 15.0 | 9.6 | 14.4# |

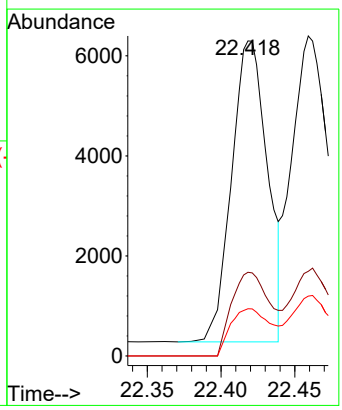


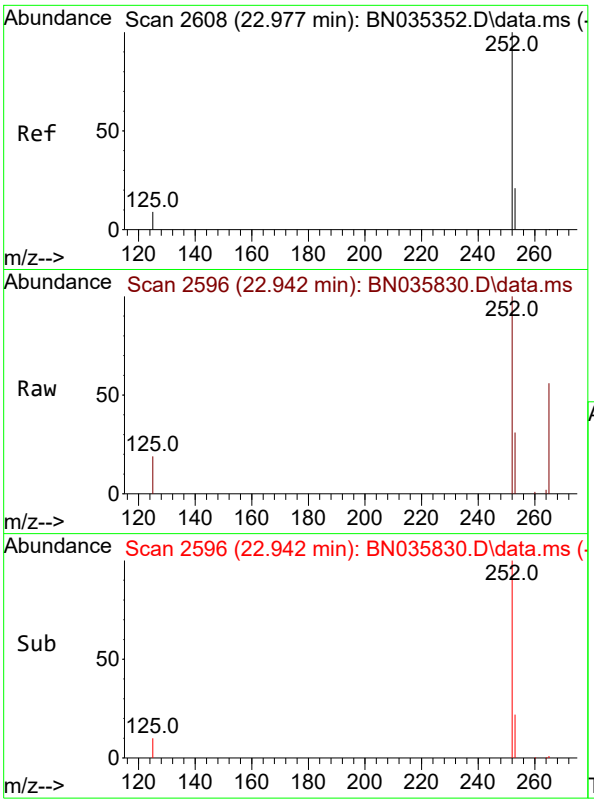




#38
Benzo(k)fluoranthene
Concen: 0.509 ng
RT: 22.418 min Scan# 2417
Delta R.T. -0.053 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion:252 Resp: 14430

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 26.6 | 19.5 | 29.3 |
| 125 | 15.0 | 10.2 | 15.4 |



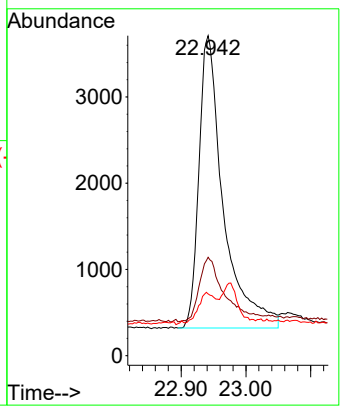


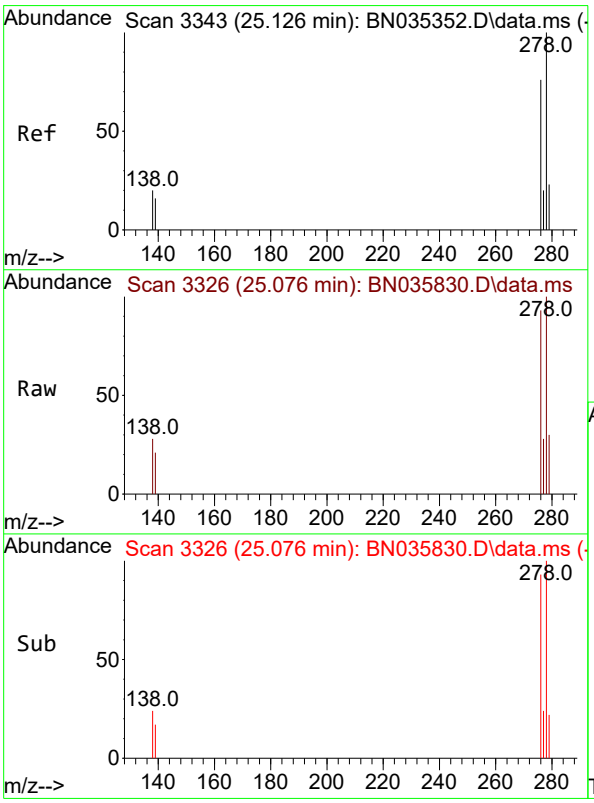

#39
Benzo(a)pyrene
Concen: 0.374 ng
RT: 22.942 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:252 Resp: 8861

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 30.7 | 20.2 | 30.4# |
| 125 | 19.3 | 10.9 | 16.3# |

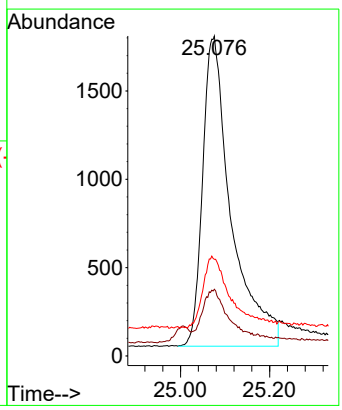


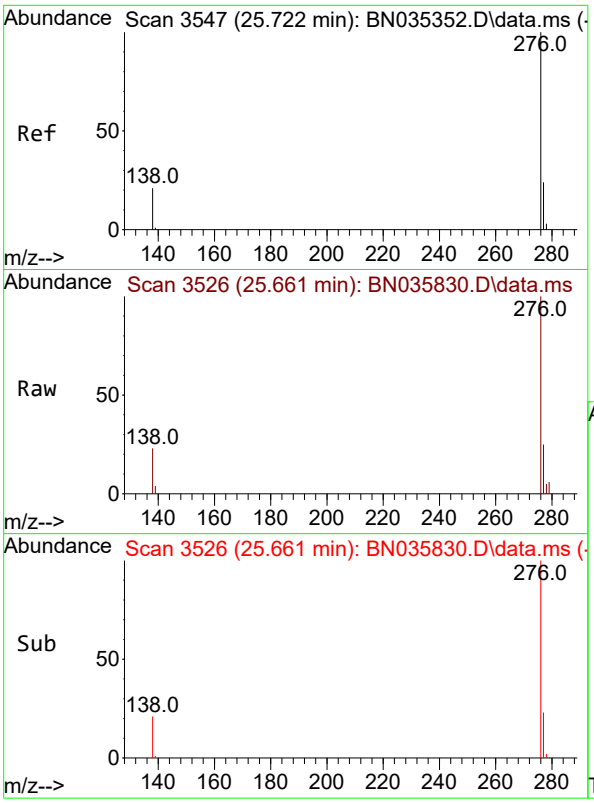




#40
Dibenzo(a,h)anthracene
Concen: 0.321 ng
RT: 25.076 min Scan# 3326
Delta R.T. -0.006 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion:278 Resp: 7792

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 20.9 | 14.2 | 21.4 |
| 279 | 30.2 | 20.5 | 30.7 |



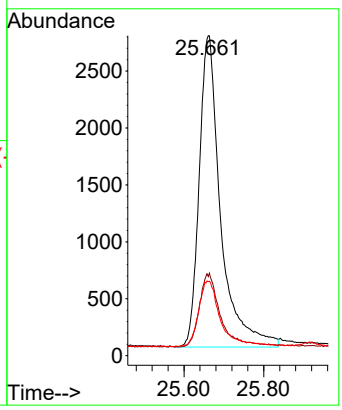



#41
Benzo(g,h,i)perylene
Concen: 0.403 ng
RT: 25.661 min Scan# 3
Delta R.T. -0.018 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:276 Resp: 10218

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 24.8 | 19.9 | 29.9 |
| 138 | 23.2 | 17.8 | 26.8 |



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035833.D
Acq On : 24 Dec 2024 23:18
Operator : RC/JU
Sample : P5376-16
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
RW11-MW01S-20241219

Quant Time: Dec 25 02:35:03 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

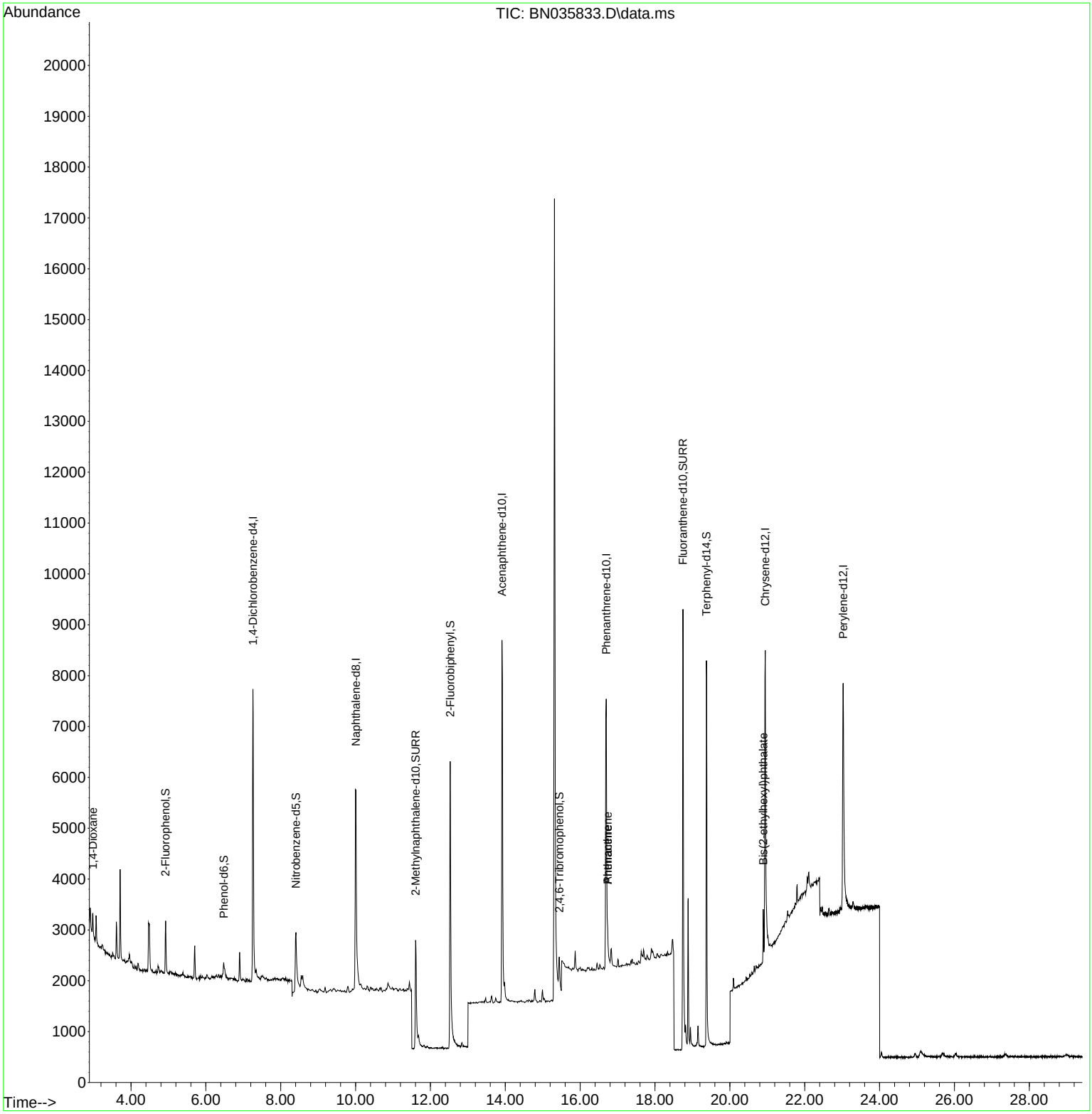
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.257 | 152 | 3277 | 0.400 | ng | -0.01 |
| 7) Naphthalene-d8 | 10.009 | 136 | 7724 | 0.400 | ng | #-0.01 |
| 13) Acenaphthene-d10 | 13.914 | 164 | 4815 | 0.400 | ng | -0.02 |
| 19) Phenanthrene-d10 | 16.698 | 188 | 10024 | 0.400 | ng | # 0.00 |
| 29) Chrysene-d12 | 20.947 | 240 | 8069 | 0.400 | ng | 0.00 |
| 35) Perylene-d12 | 23.026 | 264 | 7784 | 0.400 | ng | #-0.01 |
| System Monitoring Compounds | | | | | | |
| 4) 2-Fluorophenol | 4.924 | 112 | 965 | 0.118 | ng | -0.01 |
| 5) Phenol-d6 | 6.477 | 99 | 504 | 0.051 | ng | -0.01 |
| 8) Nitrobenzene-d5 | 8.408 | 82 | 2228 | 0.472 | ng | 0.00 |
| 11) 2-Methylnaphthalene-d10 | 11.605 | 152 | 4512 | 0.373 | ng | -0.02 |
| 14) 2,4,6-Tribromophenol | 15.443 | 330 | 723 | 0.212 | ng | -0.01 |
| 15) 2-Fluorobiphenyl | 12.528 | 172 | 7112 | 0.391 | ng | -0.02 |
| 27) Fluoranthene-d10 | 18.747 | 212 | 11675 | 0.411 | ng | -0.01 |
| 31) Terphenyl-d14 | 19.375 | 244 | 8422 | 0.529 | ng | -0.01 |
| Target Compounds | | | | | | Qvalue |
| 2) 1,4-Dioxane | 2.982 | 88 | 506 | 0.162 | ng | # 77 |
| 25) Phenanthrene | 16.736 | 178 | 582 | 0.021 | ng | # 92 |
| 26) Anthracene | 16.736 | 178 | 569 | 0.023 | ng | 94 |
| 34) Bis(2-ethylhexyl)phtha... | 20.893 | 149 | 981 | 0.088 | ng | # 98 |

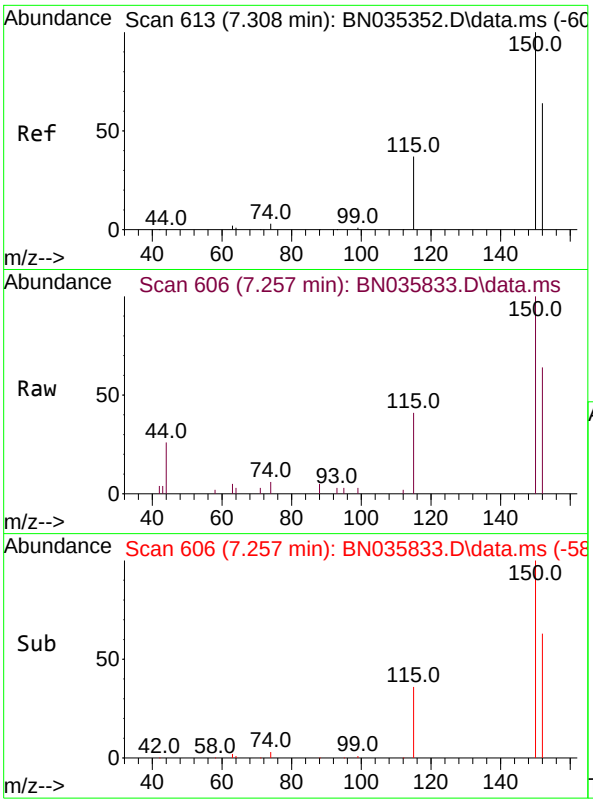
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035833.D
Acq On : 24 Dec 2024 23:18
Operator : RC/JU
Sample : P5376-16
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
RW11-MW01S-20241219

Quant Time: Dec 25 02:35:03 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



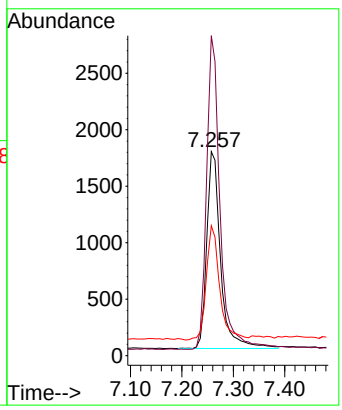


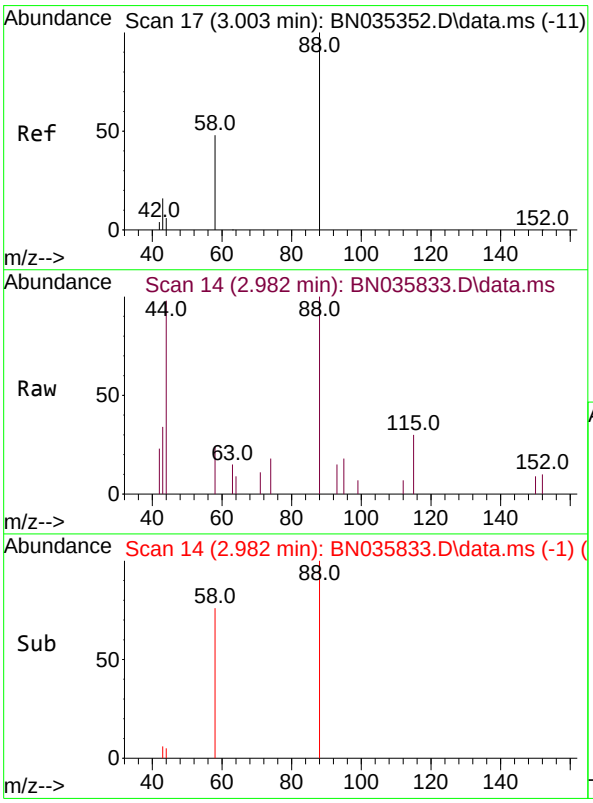

#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 6(
Delta R.T. -0.015 min
Lab File: BN035833.D
Acq: 24 Dec 2024 23:18

**Instrument :**
BNA_N
**ClientSampleId :**
RW11-MW01S-20241219

Tgt Ion:152 Resp: 3277

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 156.9 | 124.0 | 186.0 |
| 115 | 63.7 | 49.6 | 74.4 |

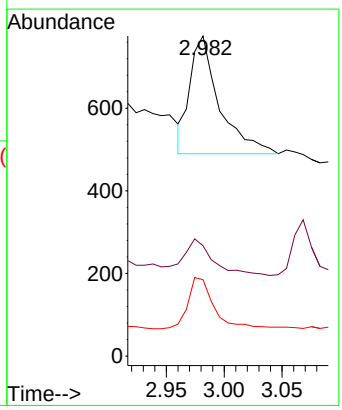


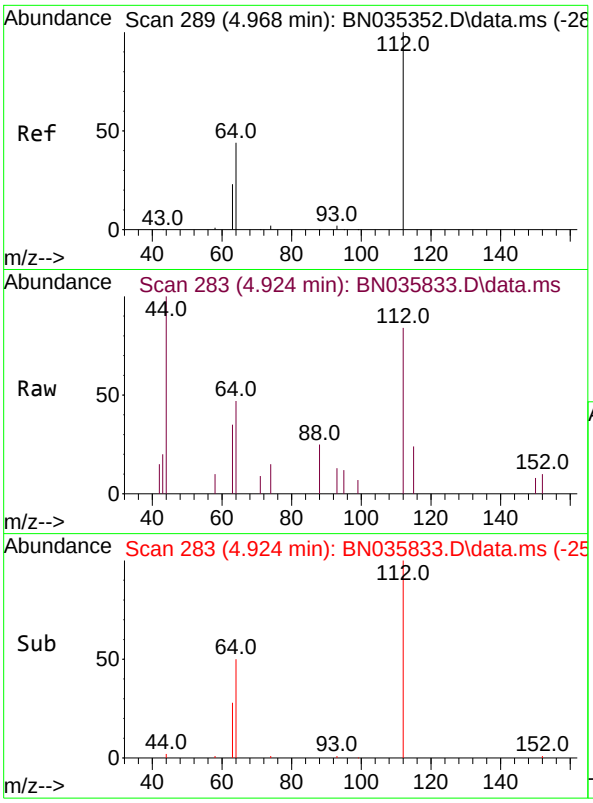




#2
1,4-Dioxane
Concen: 0.162 ng
RT: 2.982 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035833.D
Acq: 24 Dec 2024 23:18

Tgt Ion: 88 Resp: 506

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 32.0 | 17.2 | 25.8# |
| 58 | 38.5 | 44.5 | 66.7# |



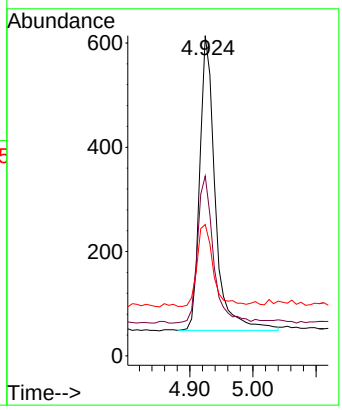


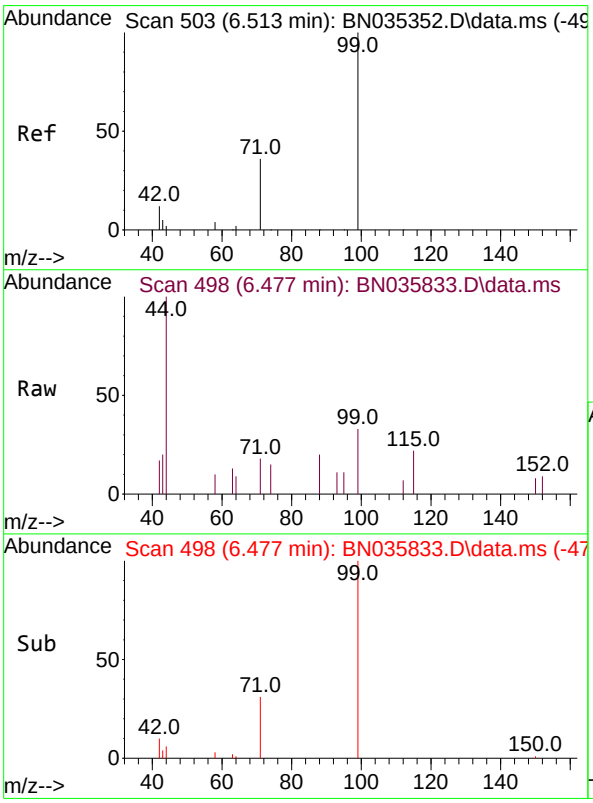

#4
2-Fluorophenol
Concen: 0.118 ng
RT: 4.924 min Scan# 2
Delta R.T. -0.015 min
Lab File: BN035833.D
Acq: 24 Dec 2024 23:18

**Instrument :**
BNA_N
**ClientSampleId :**
RW11-MW01S-20241219

Tgt Ion:112 Resp: 965

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 50.8 | 39.8 | 59.8 |
| 63 | 28.6 | 21.0 | 31.6 |

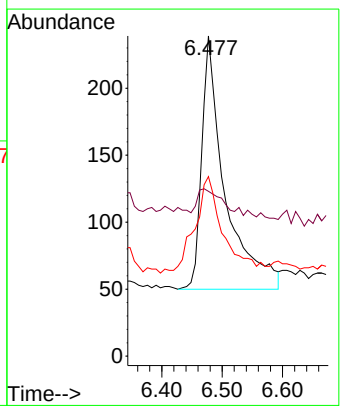


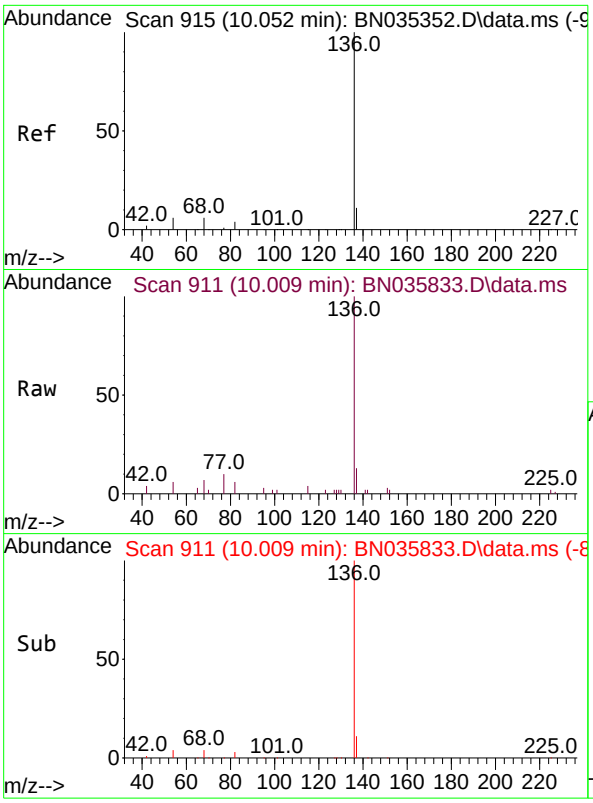




#5
Phenol-d6
Concen: 0.051 ng
RT: 6.477 min Scan# 498
Delta R.T. -0.015 min
Lab File: BN035833.D
Acq: 24 Dec 2024 23:18

Tgt Ion: 99 Resp: 504

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 12.7 | 11.4 | 17.2 |
| 71 | 47.0 | 29.3 | 43.9# |



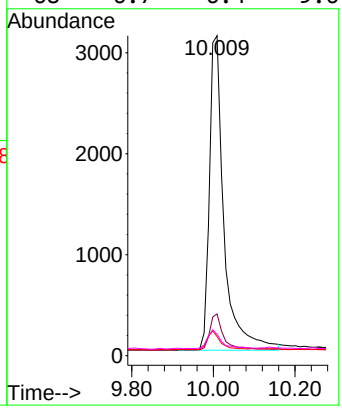


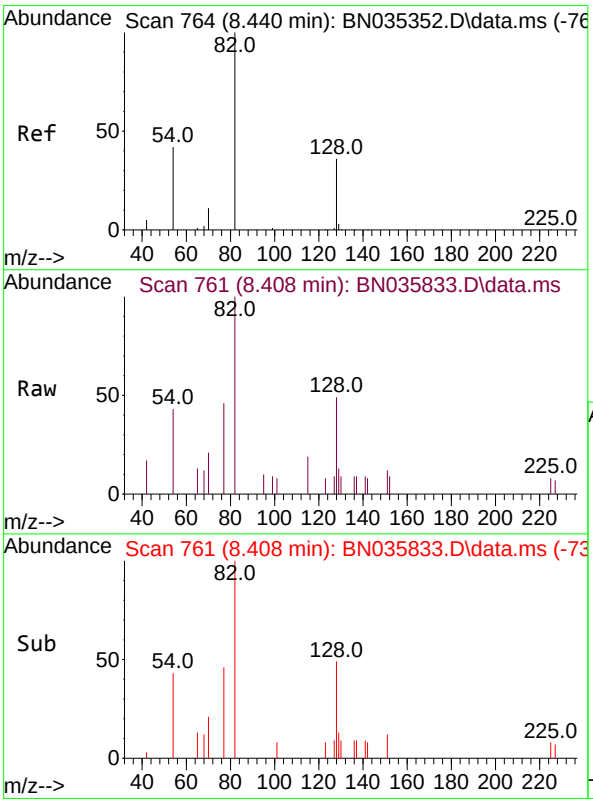

#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN035833.D
Acq: 24 Dec 2024 23:18

**Instrument :**
BNA_N
**ClientSampleId :**
RW11-MW01S-20241219

Tgt Ion:136 Resp: 7724

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 13.0 | 10.2 | 15.2 |
| 54 | 6.0 | 6.1 | 9.1# |
| 68 | 6.7 | 6.4 | 9.6 |

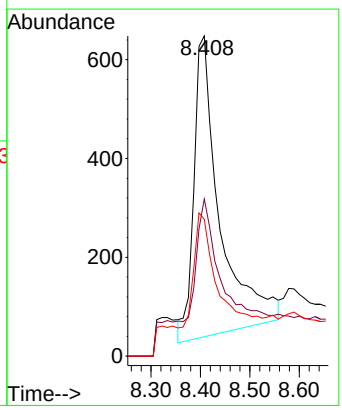


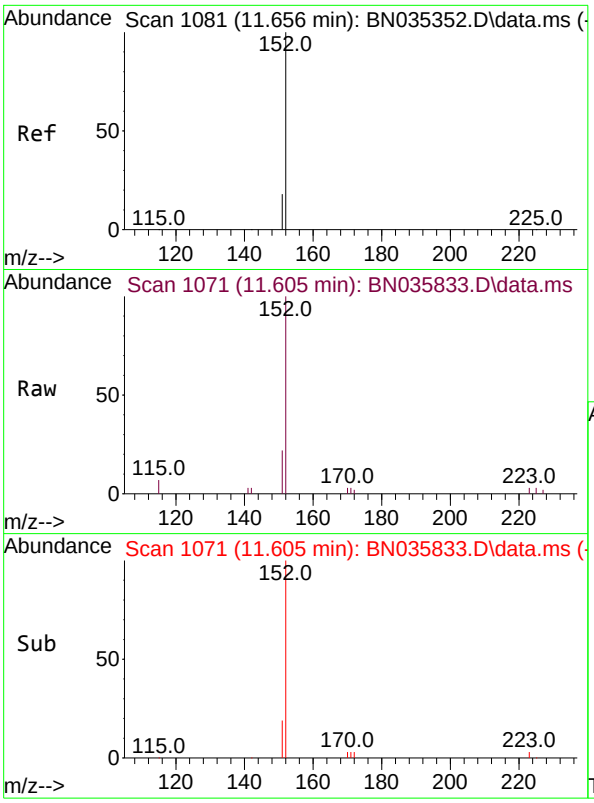




#8
Nitrobenzene-d5
Concen: 0.472 ng
RT: 8.408 min Scan# 761
Delta R.T. -0.000 min
Lab File: BN035833.D
Acq: 24 Dec 2024 23:18

Tgt Ion: 82 Resp: 2228

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 49.1 | 33.4 | 50.0 |
| 54 | 42.7 | 36.7 | 55.1 |



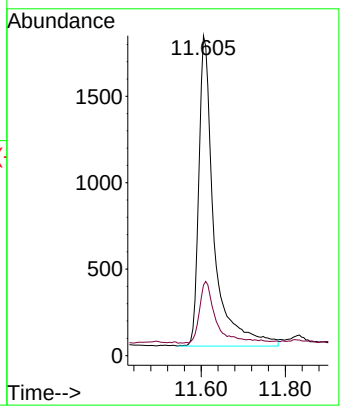


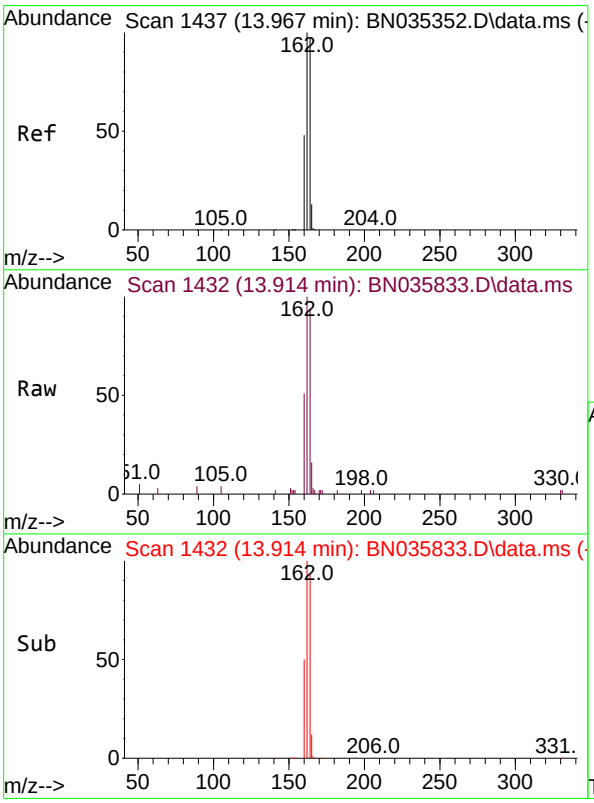

#11
2-Methylnaphthalene-d10
Concen: 0.373 ng
RT: 11.605 min Scan# 1
Delta R.T. -0.015 min
Lab File: BN035833.D
Acq: 24 Dec 2024 23:18

**Instrument :**
BNA_N
**ClientSampleId :**
RW11-MW01S-20241219

Tgt Ion:152 Resp: 4512

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 21.5 | 16.6 | 25.0 |

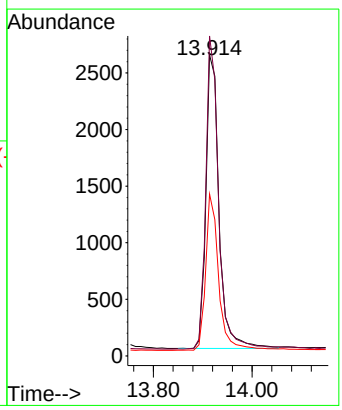


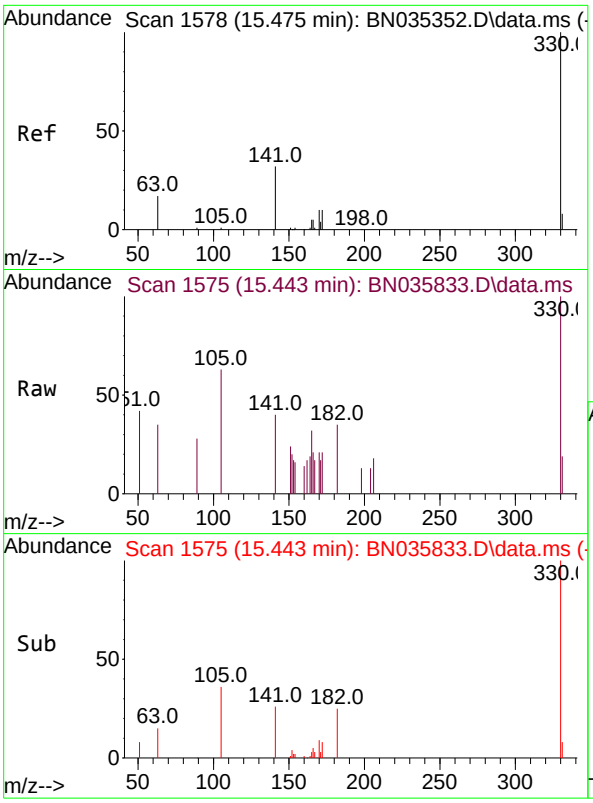




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.914 min Scan# 1432
Delta R.T. -0.021 min
Lab File: BN035833.D
Acq: 24 Dec 2024 23:18

Tgt Ion:164 Resp: 4815

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 106.3 | 82.2 | 123.2 |
| 160 | 53.8 | 40.1 | 60.1 |



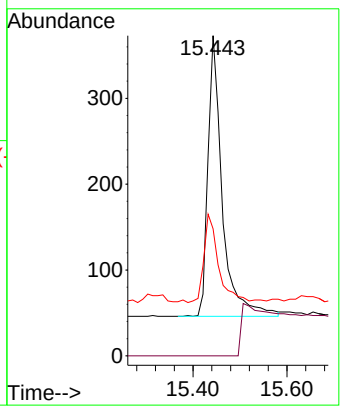


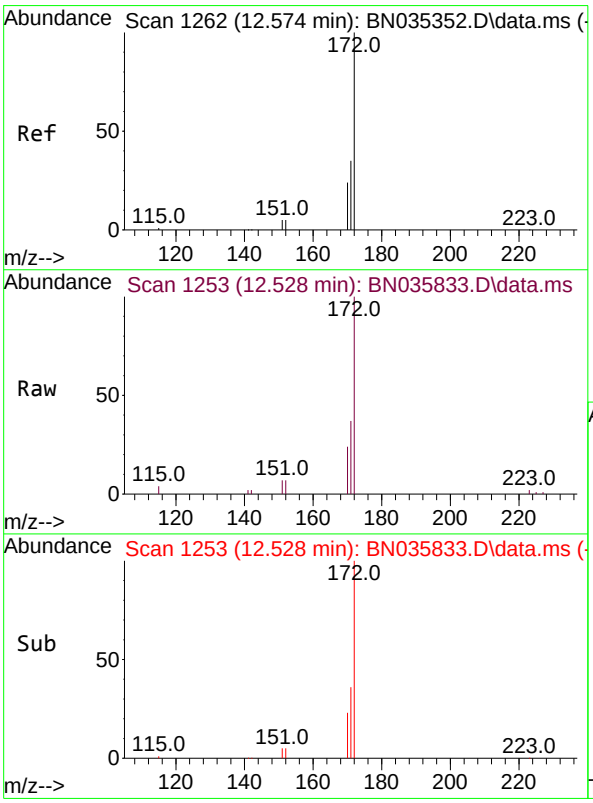

#14
2,4,6-Tribromophenol
Concen: 0.212 ng
RT: 15.443 min Scan# 1
Delta R.T. -0.011 min
Lab File: BN035833.D
Acq: 24 Dec 2024 23:18

**Instrument :**
BNA_N
**ClientSampleId :**
RW11-MW01S-20241219

Tgt Ion:330 Resp: 723

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 0.0 | 0.0 | 0.0 |
| 141 | 31.5 | 26.6 | 40.0 |

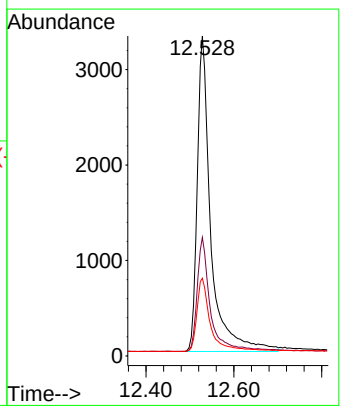


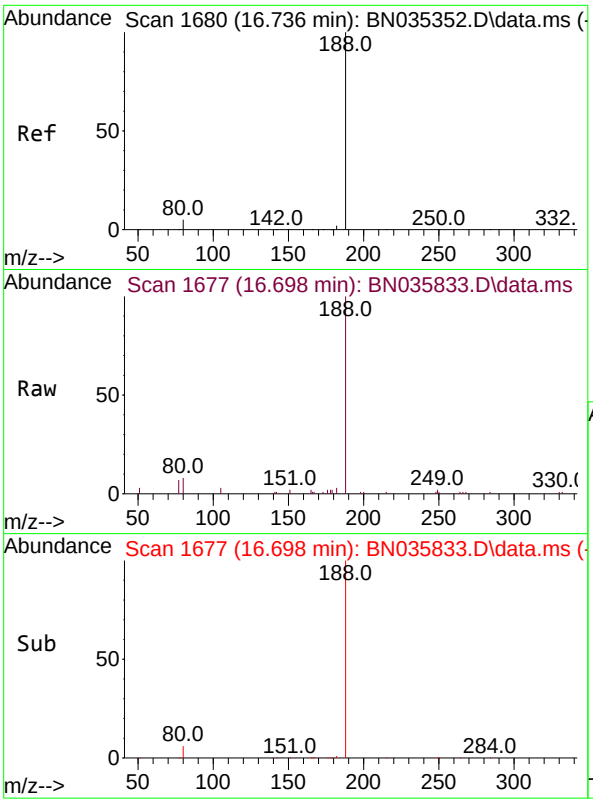




#15
2-Fluorobiphenyl
Concen: 0.391 ng
RT: 12.528 min Scan# 1253
Delta R.T. -0.015 min
Lab File: BN035833.D
Acq: 24 Dec 2024 23:18

Tgt Ion:172 Resp: 7112

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 37.1 | 29.0 | 43.4 |
| 170 | 24.3 | 19.8 | 29.8 |



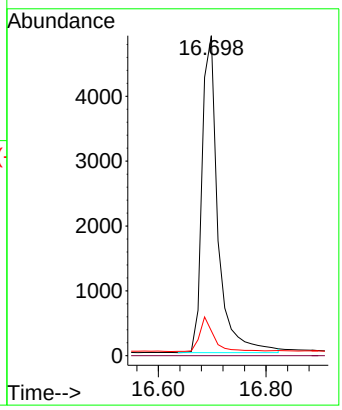


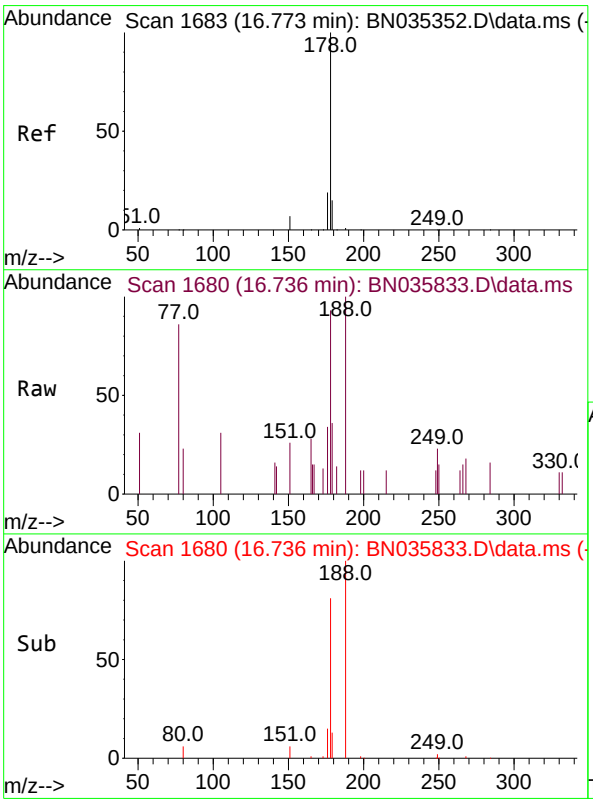

#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035833.D
Acq: 24 Dec 2024 23:18

**Instrument :**
BNA_N
**ClientSampleId :**
RW11-MW01S-20241219

Tgt Ion:188 Resp: 10024

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 7.8 | 4.6 | 6.8# |

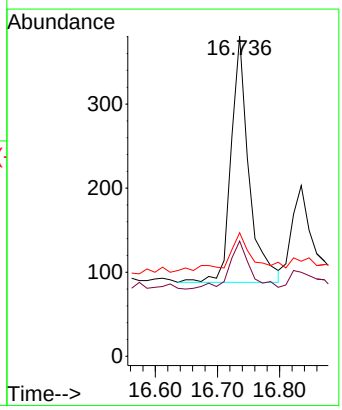


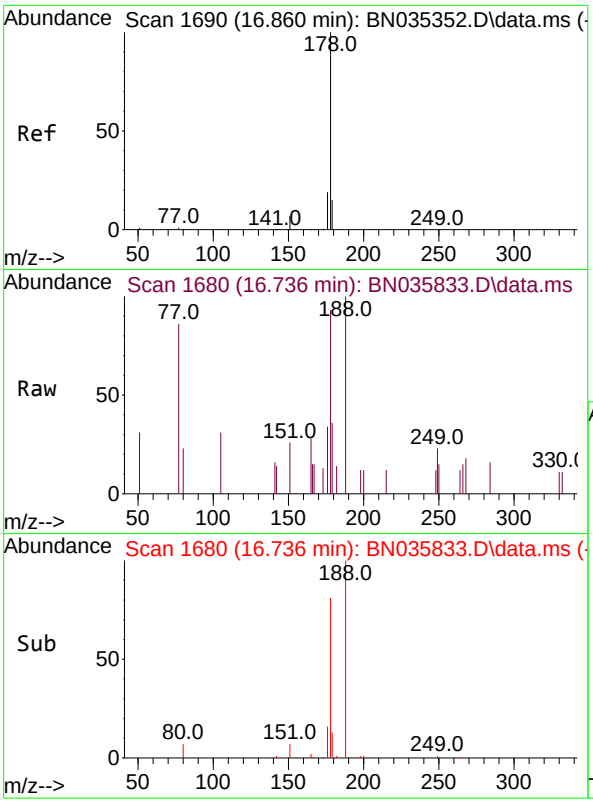




#25
Phenanthrene
Concen: 0.021 ng
RT: 16.736 min Scan# 1680
Delta R.T. -0.013 min
Lab File: BN035833.D
Acq: 24 Dec 2024 23:18

Tgt Ion:178 Resp: 582

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 23.0 | 15.4 | 23.2 |
| 179 | 18.7 | 12.3 | 18.5# |



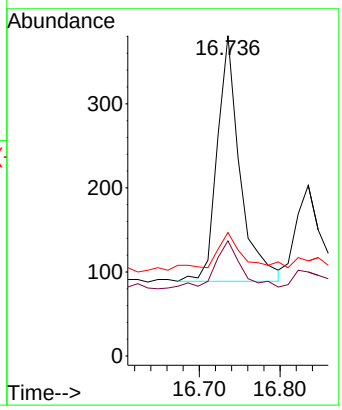


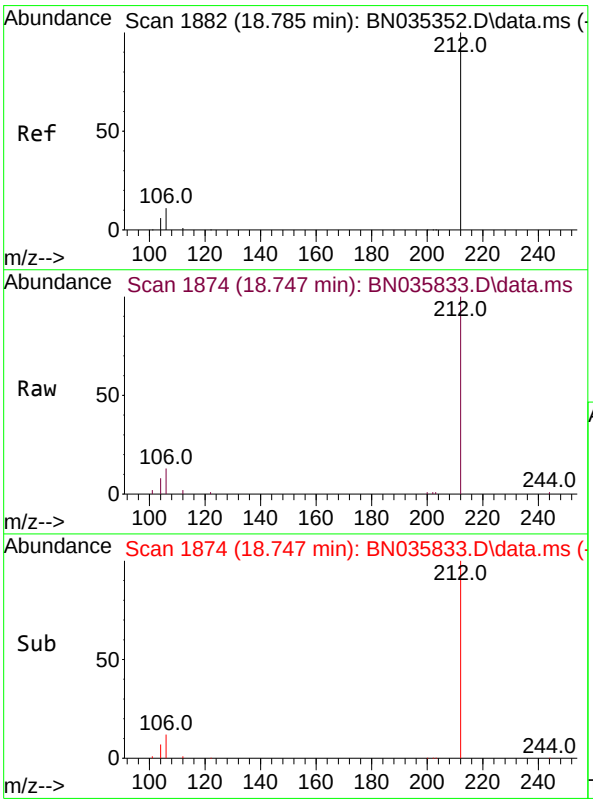

#26
Anthracene
Concen: 0.023 ng
RT: 16.736 min Scan# 1
Delta R.T. -0.099 min
Lab File: BN035833.D
Acq: 24 Dec 2024 23:18

**Instrument :**
BNA_N
**ClientSampleId :**
RW11-MW01S-20241219

Tgt Ion:178 Resp: 569

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 22.0 | 15.0 | 22.6 |
| 179 | 18.1 | 12.6 | 18.8 |

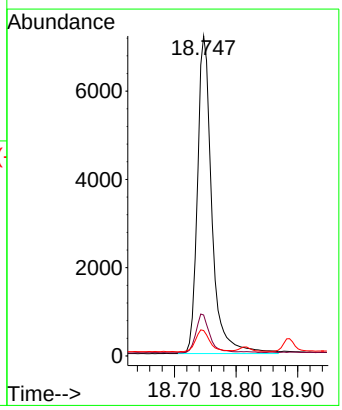


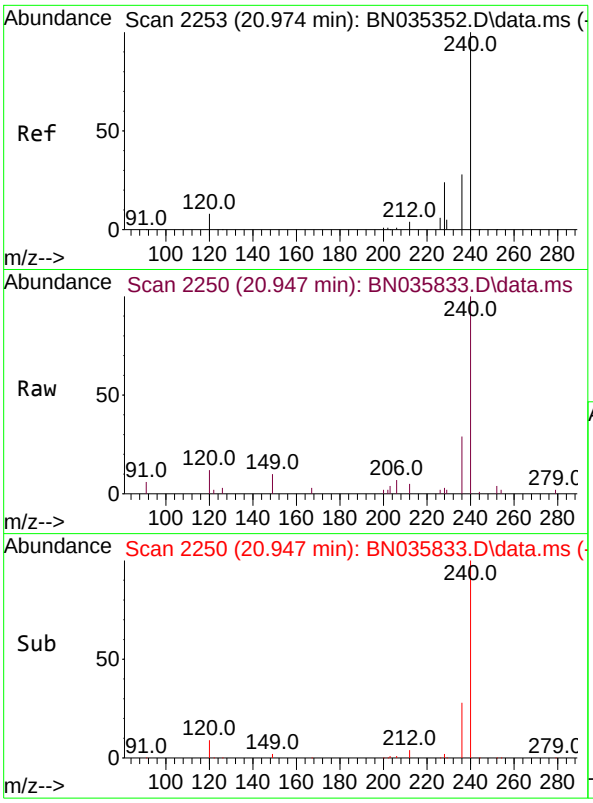




#27
Fluoranthene-d10
Concen: 0.411 ng
RT: 18.747 min Scan# 1874
Delta R.T. -0.014 min
Lab File: BN035833.D
Acq: 24 Dec 2024 23:18

Tgt Ion:212 Resp: 11675

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 11.7 | 9.2 | 13.8 |
| 104 | 7.0 | 5.3 | 7.9 |



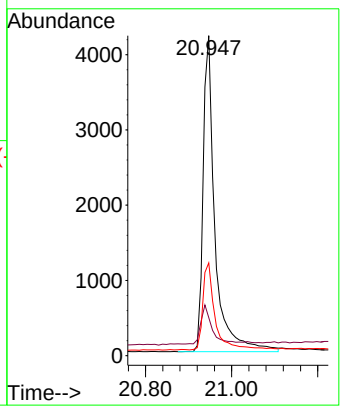


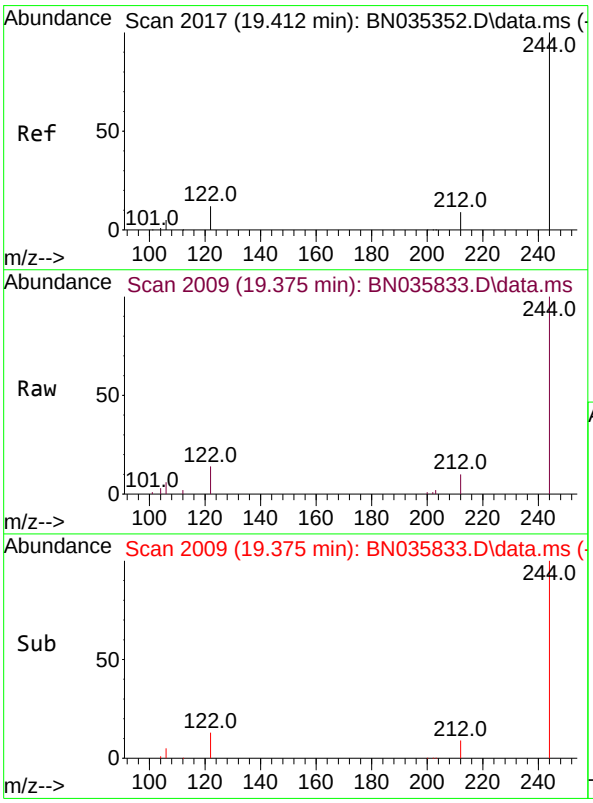

#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035833.D
Acq: 24 Dec 2024 23:18

**Instrument :**
BNA_N
**ClientSampleId :**
RW11-MW01S-20241219

Tgt Ion:240 Resp: 8069

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 11.9 | 7.9 | 11.9 |
| 236 | 29.0 | 22.9 | 34.3 |

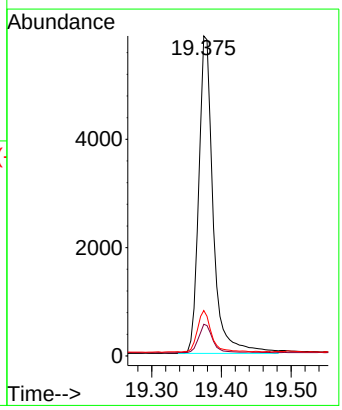


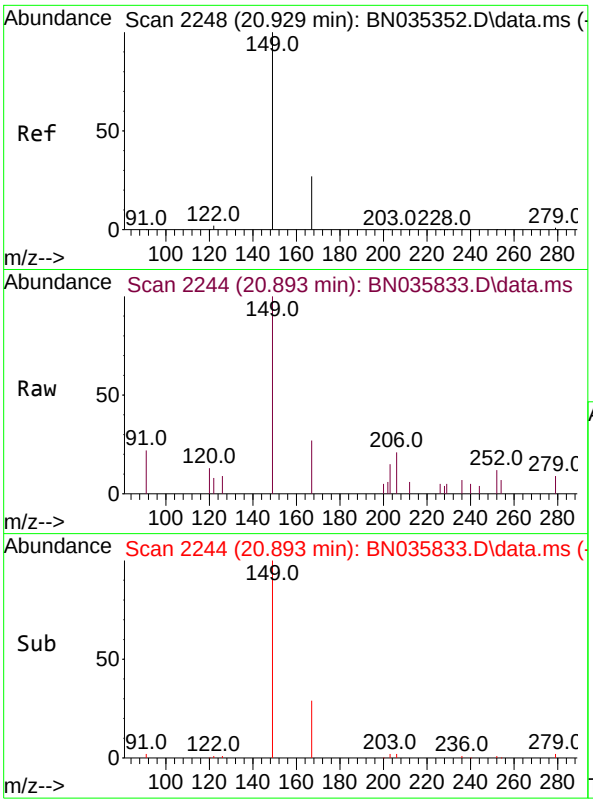




#31
Terphenyl-d14
Concen: 0.529 ng
RT: 19.375 min Scan# 2009
Delta R.T. -0.014 min
Lab File: BN035833.D
Acq: 24 Dec 2024 23:18

Tgt Ion:244 Resp: 8422

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 9.9 | 8.1 | 12.1 |
| 122 | 14.2 | 10.3 | 15.5 |



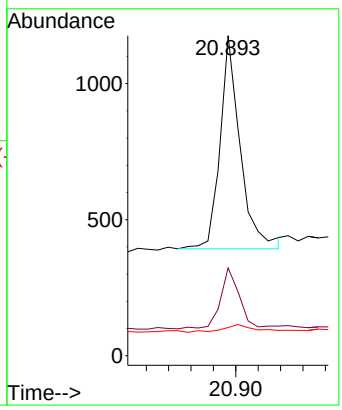


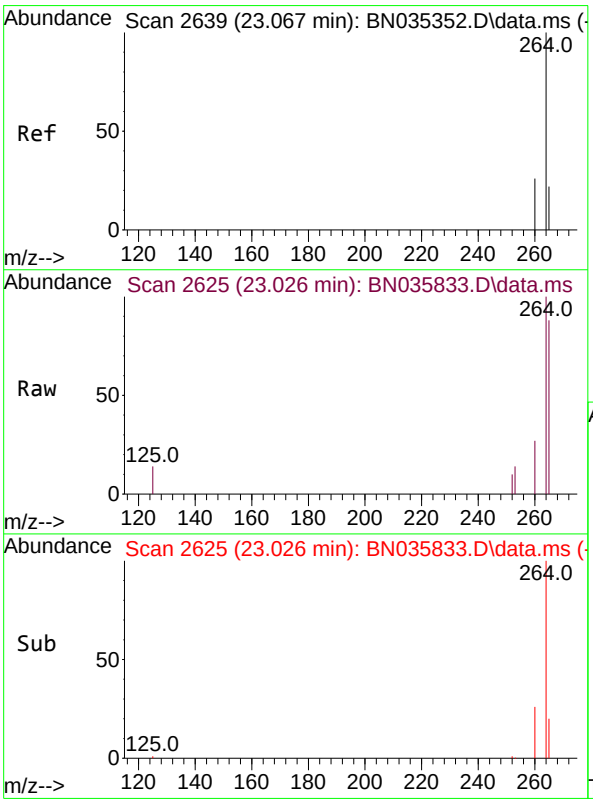

#34
Bis(2-ethylhexyl)phthalate
Concen: 0.088 ng
RT: 20.893 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035833.D
Acq: 24 Dec 2024 23:18

**Instrument :**
BNA_N
**ClientSampleId :**
RW11-MW01S-20241219

Tgt Ion:149 Resp: 981

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 27.2 | 22.2 | 33.4 |
| 279 | 6.7 | 2.7 | 4.1# |

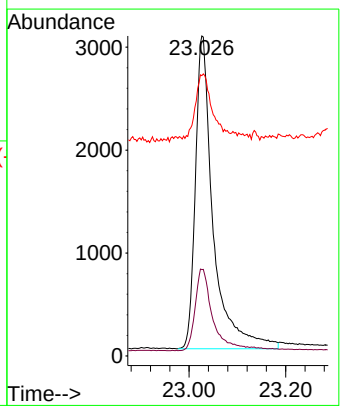



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.026 min Scan# 2625
Delta R.T. -0.015 min
Lab File: BN035833.D
Acq: 24 Dec 2024 23:18

Tgt Ion:264 Resp: 7784

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 27.0 | 21.4 | 32.2 |
| 265 | 87.6 | 40.2 | 60.4# |



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035834.D
Acq On : 24 Dec 2024 23:53
Operator : RC/JU
Sample : P5376-17
Misc :
ALS Vial : 26 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
RW11-MW01I-20241219

Quant Time: Dec 25 02:35:10 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

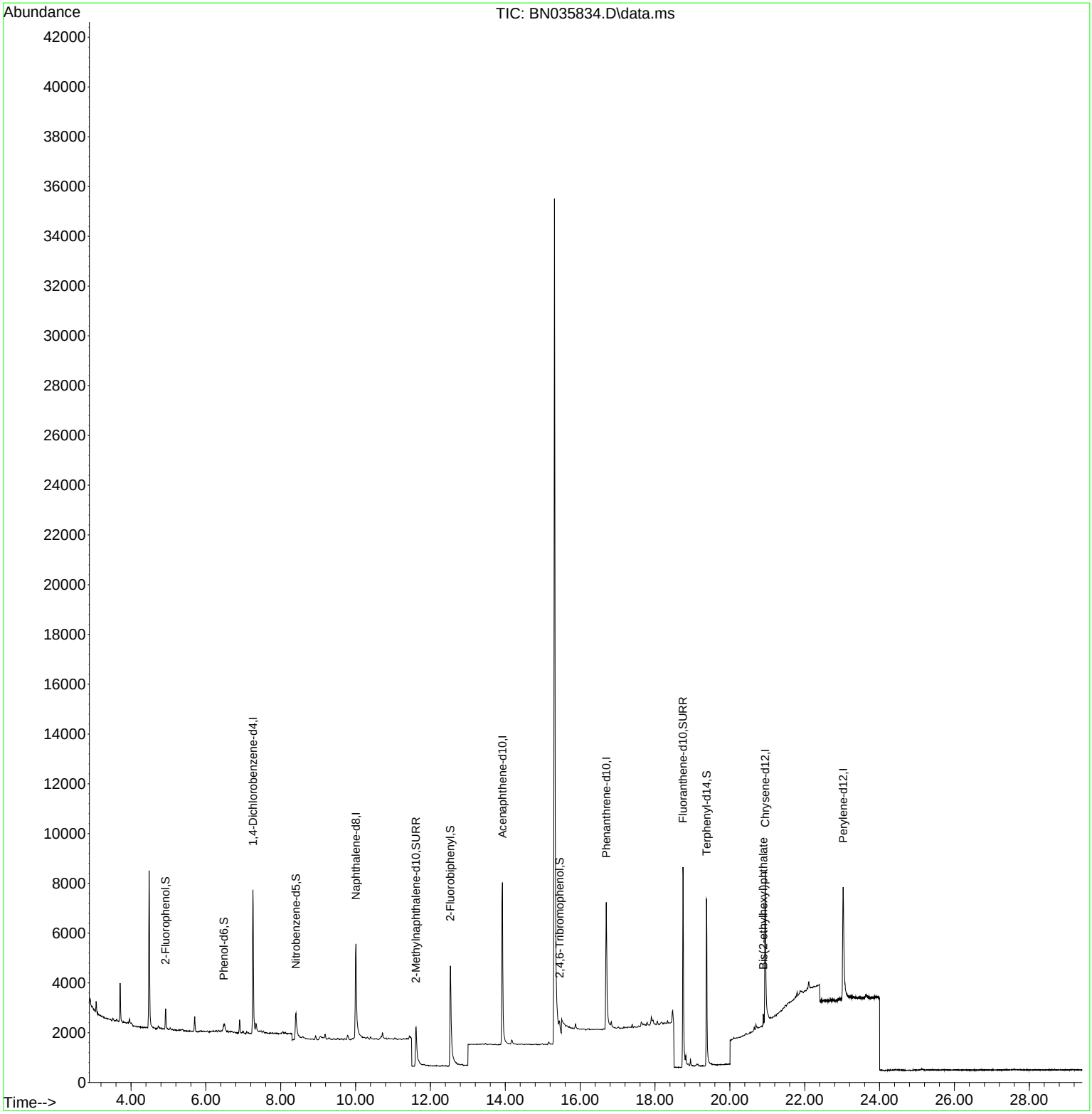
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.257 | 152 | 3211 | 0.400 | ng | -0.01 |
| 7) Naphthalene-d8 | 10.009 | 136 | 7680 | 0.400 | ng | -0.01 |
| 13) Acenaphthene-d10 | 13.925 | 164 | 4788 | 0.400 | ng | -0.01 |
| 19) Phenanthrene-d10 | 16.698 | 188 | 10028 | 0.400 | ng | # 0.00 |
| 29) Chrysene-d12 | 20.947 | 240 | 8231 | 0.400 | ng | # 0.00 |
| 35) Perylene-d12 | 23.026 | 264 | 7812 | 0.400 | ng | #-0.01 |
| System Monitoring Compounds | | | | | | |
| 4) 2-Fluorophenol | 4.924 | 112 | 770 | 0.096 | ng | -0.01 |
| 5) Phenol-d6 | 6.477 | 99 | 388 | 0.040 | ng | -0.01 |
| 8) Nitrobenzene-d5 | 8.408 | 82 | 2039 | 0.435 | ng | 0.00 |
| 11) 2-Methylnaphthalene-d10 | 11.616 | 152 | 4135 | 0.344 | ng | 0.00 |
| 14) 2,4,6-Tribromophenol | 15.453 | 330 | 529 | 0.156 | ng | 0.00 |
| 15) 2-Fluorobiphenyl | 12.533 | 172 | 6614 | 0.365 | ng | -0.01 |
| 27) Fluoranthene-d10 | 18.747 | 212 | 11419 | 0.402 | ng | -0.01 |
| 31) Terphenyl-d14 | 19.379 | 244 | 8341 | 0.514 | ng | 0.00 |
| Target Compounds | | | | | | Qvalue |
| 34) Bis(2-ethylhexyl)phtha... | 20.893 | 149 | 474 | 0.042 | ng | # 96 |

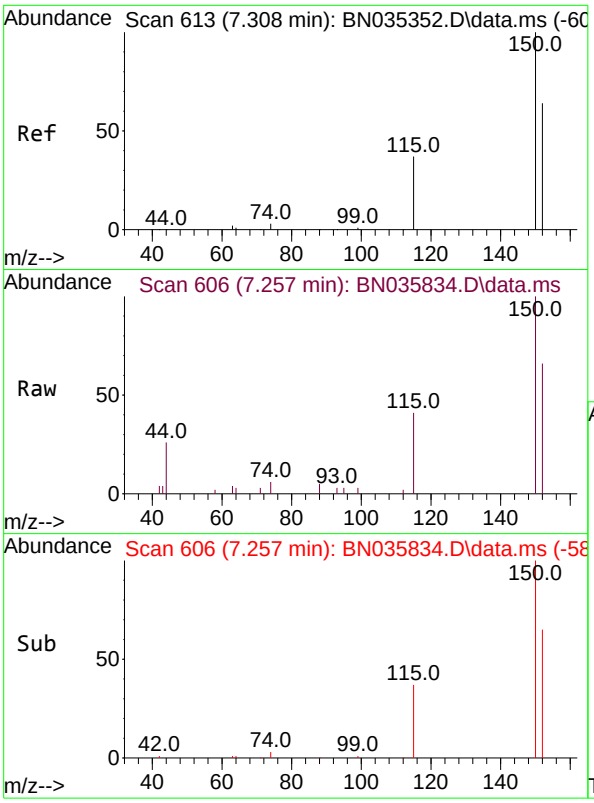
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035834.D
Acq On : 24 Dec 2024 23:53
Operator : RC/JU
Sample : P5376-17
Misc :
ALS Vial : 26 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
RW11-MW01I-20241219

Quant Time: Dec 25 02:35:10 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



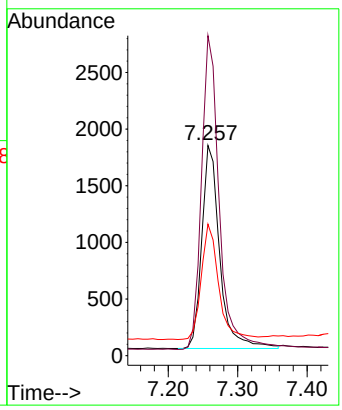


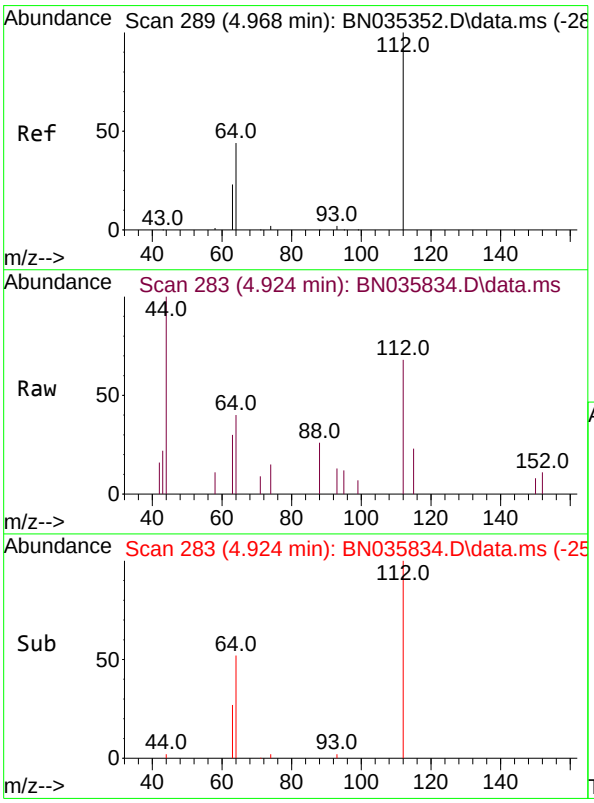

#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 6
Delta R.T. -0.015 min
Lab File: BN035834.D
Acq: 24 Dec 2024 23:53

**Instrument :**
BNA_N
**ClientSampleId :**
RW11-MW01I-20241219

Tgt Ion:152 Resp: 3211

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 152.2 | 124.0 | 186.0 |
| 115 | 62.6 | 49.6 | 74.4 |

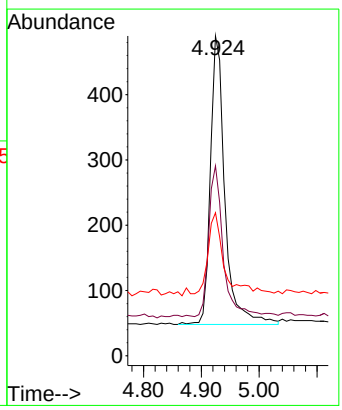


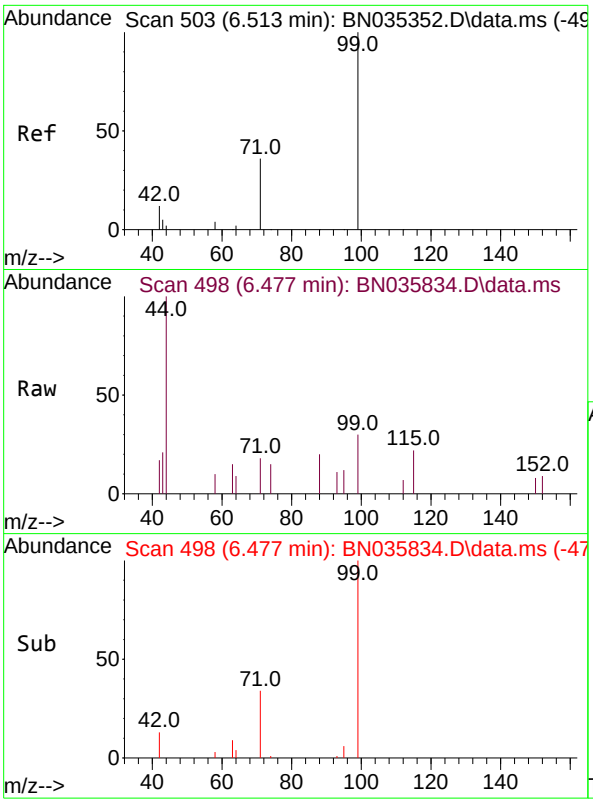




#4
2-Fluorophenol
Concen: 0.096 ng
RT: 4.924 min Scan# 283
Delta R.T. -0.015 min
Lab File: BN035834.D
Acq: 24 Dec 2024 23:53

Tgt Ion:112 Resp: 770

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 53.1 | 39.8 | 59.8 |
| 63 | 31.9 | 21.0 | 31.6# |



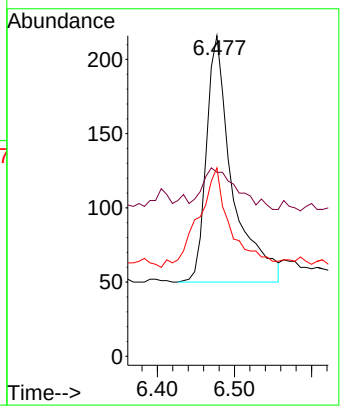


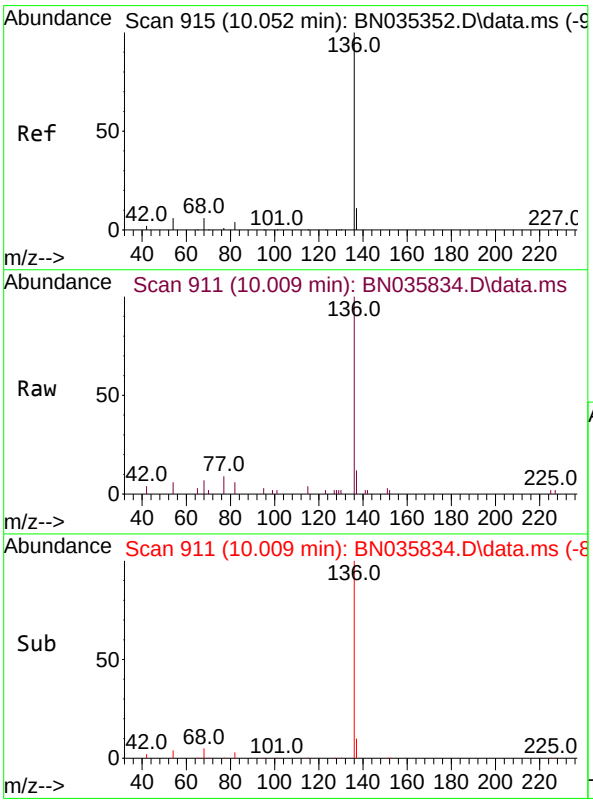

#5
Phenol-d6
Concen: 0.040 ng
RT: 6.477 min Scan# 4
Delta R.T. -0.015 min
Lab File: BN035834.D
Acq: 24 Dec 2024 23:53

**Instrument :**
BNA_N
**ClientSampleId :**
RW11-MW01I-20241219

Tgt Ion: 99 Resp: 388

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 25.5 | 11.4 | 17.2# |
| 71 | 49.7 | 29.3 | 43.9# |

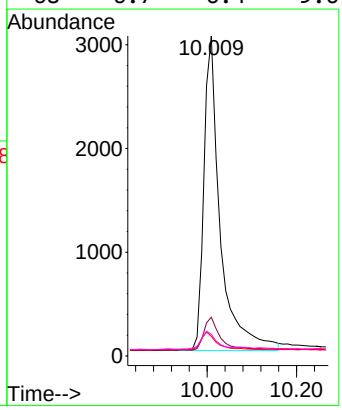


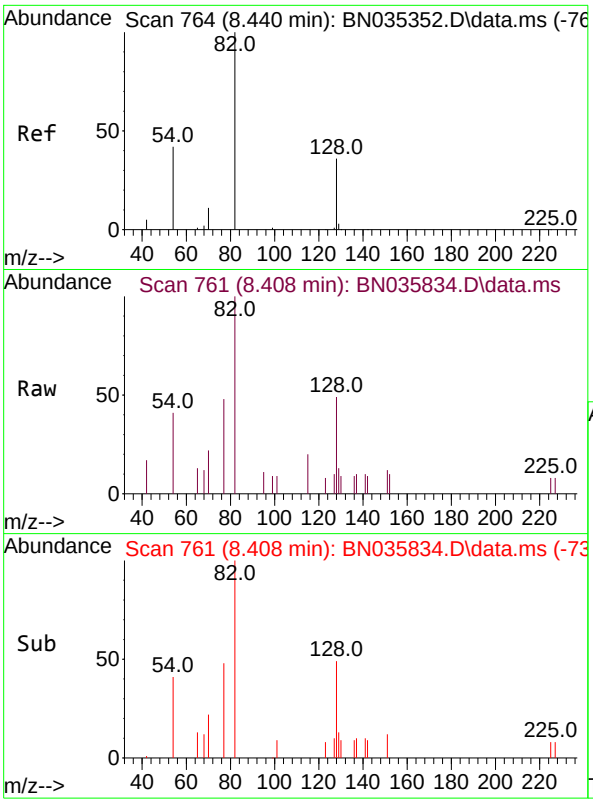




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 911
Delta R.T. -0.011 min
Lab File: BN035834.D
Acq: 24 Dec 2024 23:53

Tgt Ion:136 Resp: 7680

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 12.1 | 10.2 | 15.2 |
| 54 | 6.2 | 6.1 | 9.1 |
| 68 | 6.7 | 6.4 | 9.6 |



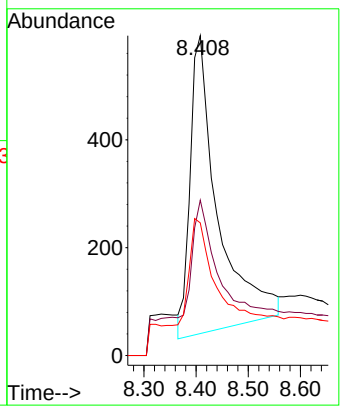


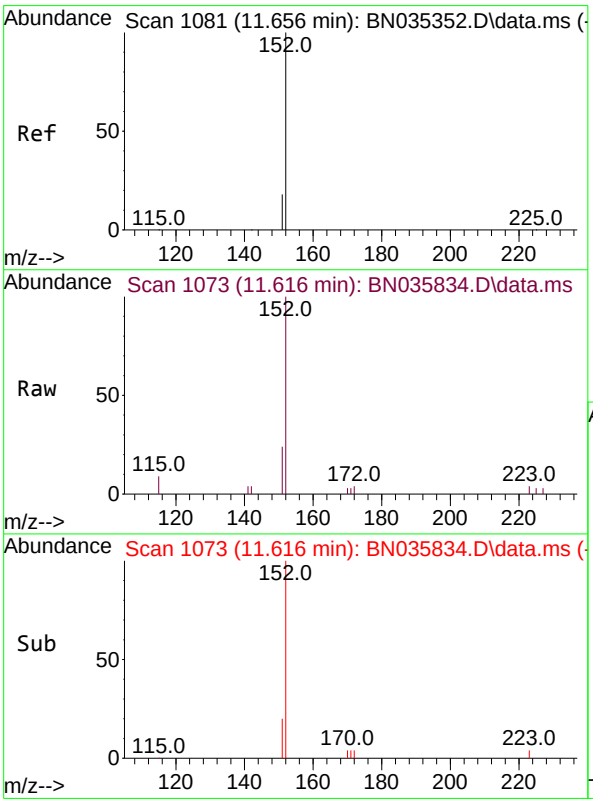

#8
Nitrobenzene-d5
Concen: 0.435 ng
RT: 8.408 min Scan# 7
Delta R.T. -0.000 min
Lab File: BN035834.D
Acq: 24 Dec 2024 23:53

**Instrument :**
BNA_N
**ClientSampleId :**
RW11-MW01I-20241219

Tgt Ion: 82 Resp: 2039

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 48.6 | 33.4 | 50.0 |
| 54 | 41.5 | 36.7 | 55.1 |

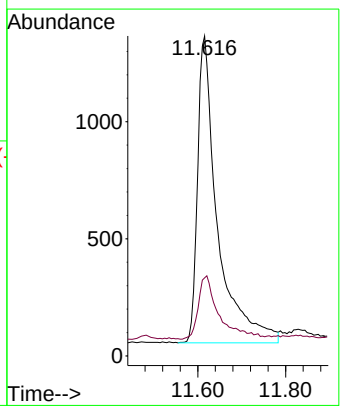


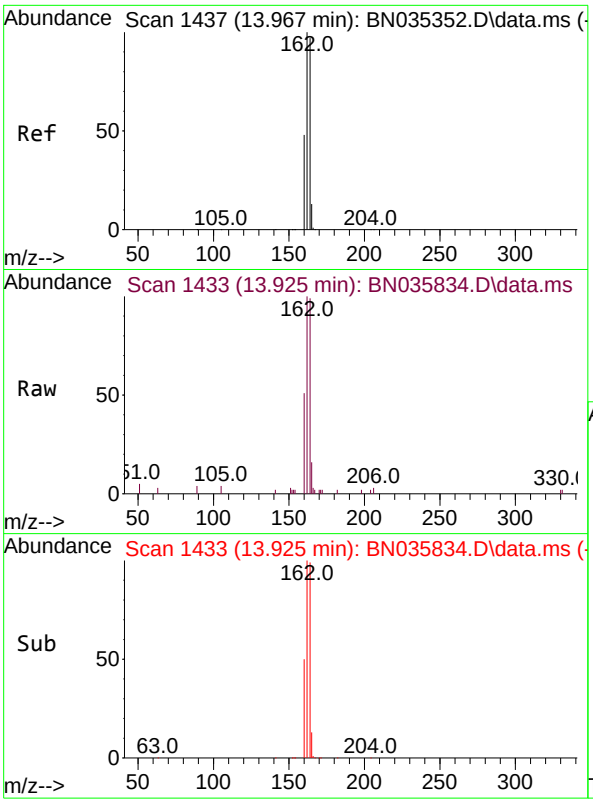




#11
2-Methylnaphthalene-d10
Concen: 0.344 ng
RT: 11.616 min Scan# 1073
Delta R.T. -0.005 min
Lab File: BN035834.D
Acq: 24 Dec 2024 23:53

Tgt Ion:152 Resp: 4135

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 21.4 | 16.6 | 25.0 |



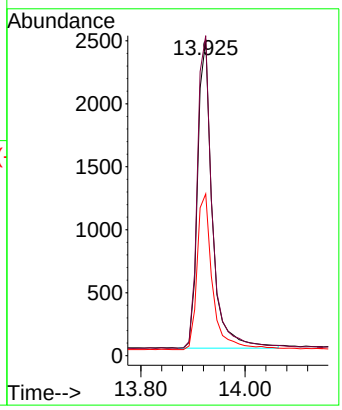


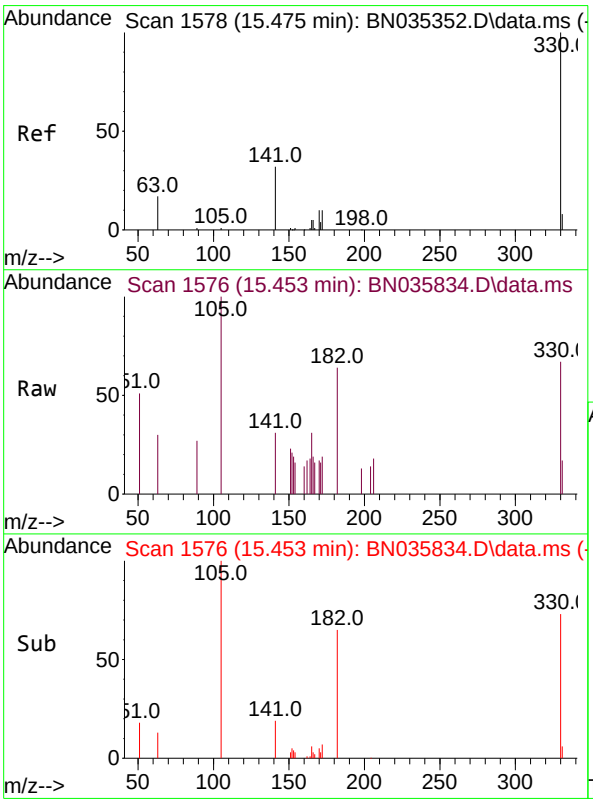

#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.925 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035834.D
Acq: 24 Dec 2024 23:53

**Instrument :**
BNA_N
**ClientSampleId :**
RW11-MW01I-20241219

Tgt Ion:164 Resp: 4788

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 101.2 | 82.2 | 123.2 |
| 160 | 51.2 | 40.1 | 60.1 |

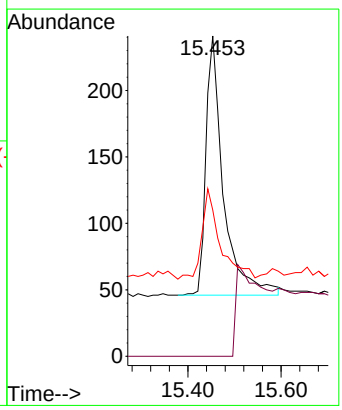


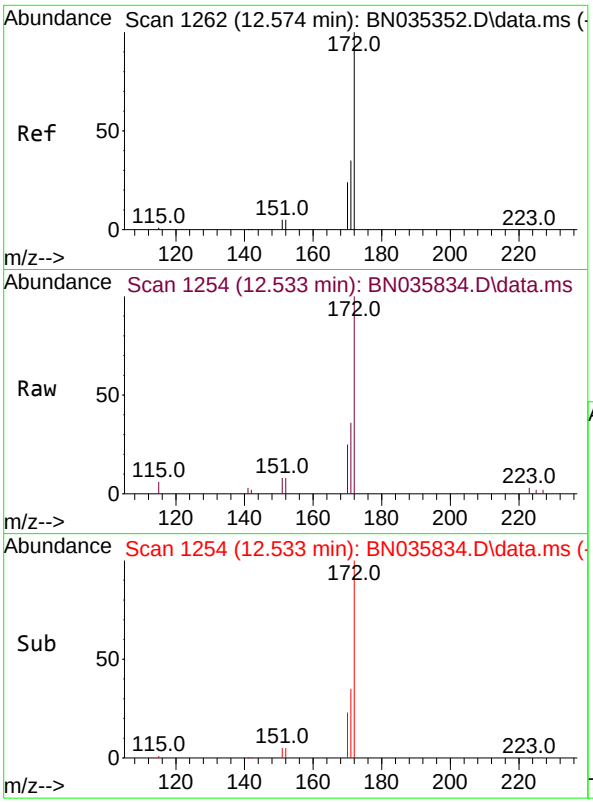




#14
2,4,6-Tribromophenol
Concen: 0.156 ng
RT: 15.453 min Scan# 1576
Delta R.T. -0.000 min
Lab File: BN035834.D
Acq: 24 Dec 2024 23:53

Tgt Ion:330 Resp: 529

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 0.0 | 0.0 | 0.0 |
| 141 | 35.3 | 26.6 | 40.0 |



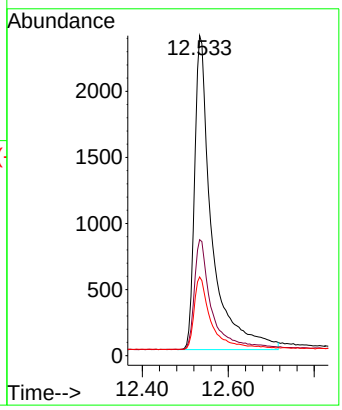


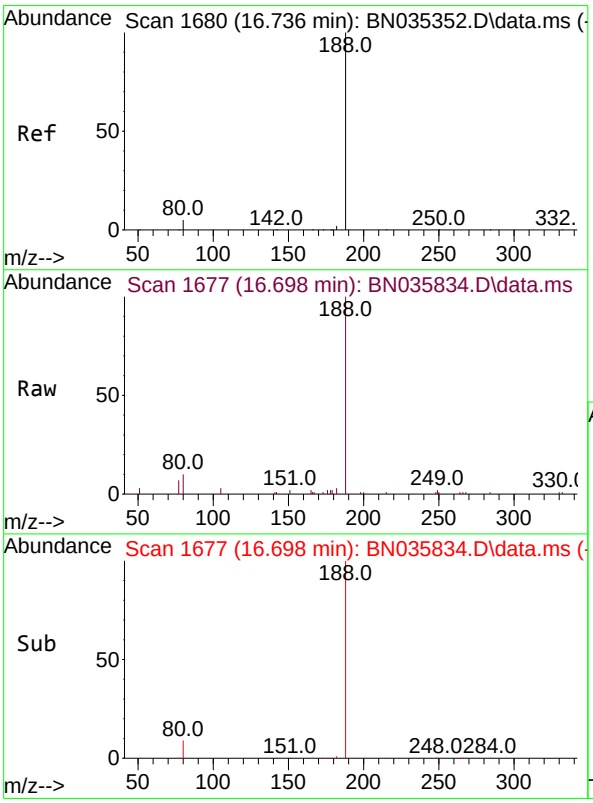

#15
2-Fluorobiphenyl
Concen: 0.365 ng
RT: 12.533 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035834.D
Acq: 24 Dec 2024 23:53

**Instrument :**
BNA_N
**ClientSampleId :**
RW11-MW01I-20241219

Tgt Ion:172 Resp: 6614

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 36.3 | 29.0 | 43.4 |
| 170 | 24.6 | 19.8 | 29.8 |

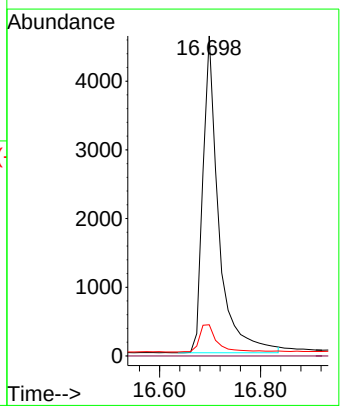


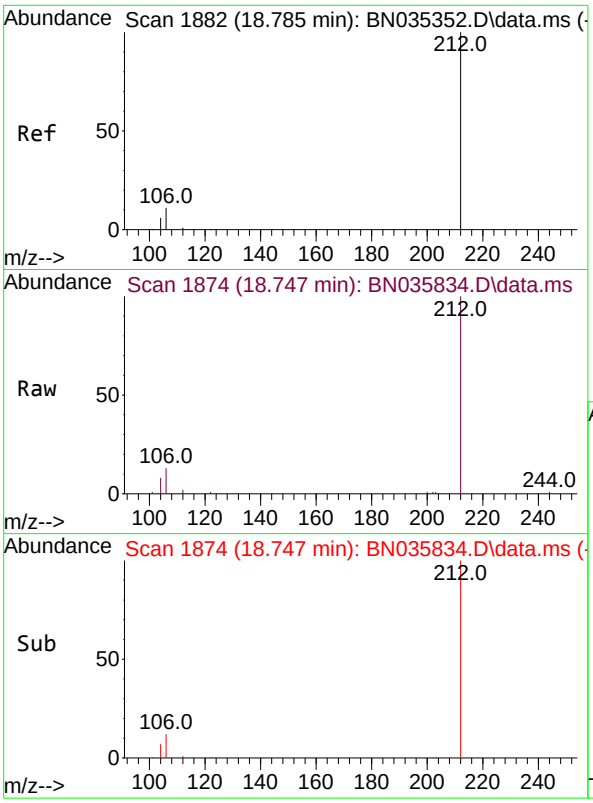




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1677
Delta R.T. -0.000 min
Lab File: BN035834.D
Acq: 24 Dec 2024 23:53

Tgt Ion:188 Resp: 10028

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 9.7 | 4.6 | 6.8# |



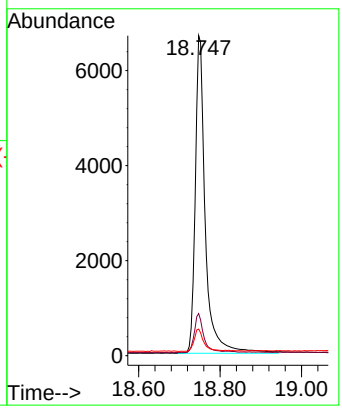


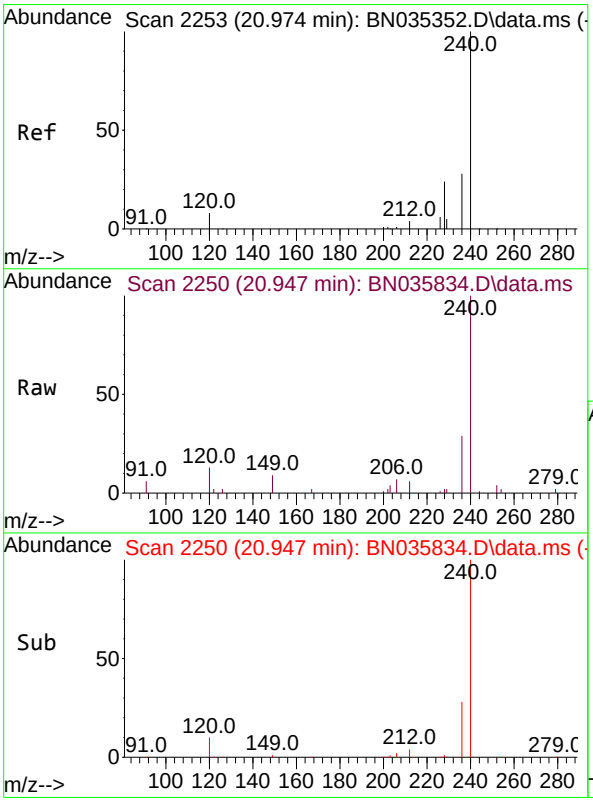

#27
Fluoranthene-d10
Concen: 0.402 ng
RT: 18.747 min Scan# 1
Delta R.T. -0.014 min
Lab File: BN035834.D
Acq: 24 Dec 2024 23:53

**Instrument :**
BNA_N
**ClientSampleId :**
RW11-MW01I-20241219

Tgt Ion:212 Resp: 11419

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 11.2 | 9.2 | 13.8 |
| 104 | 6.7 | 5.3 | 7.9 |

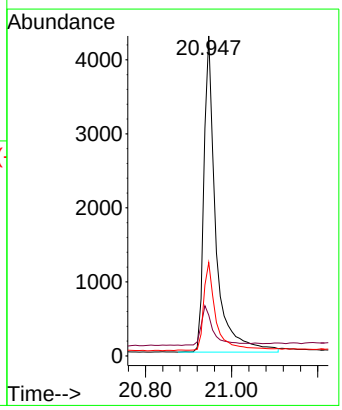


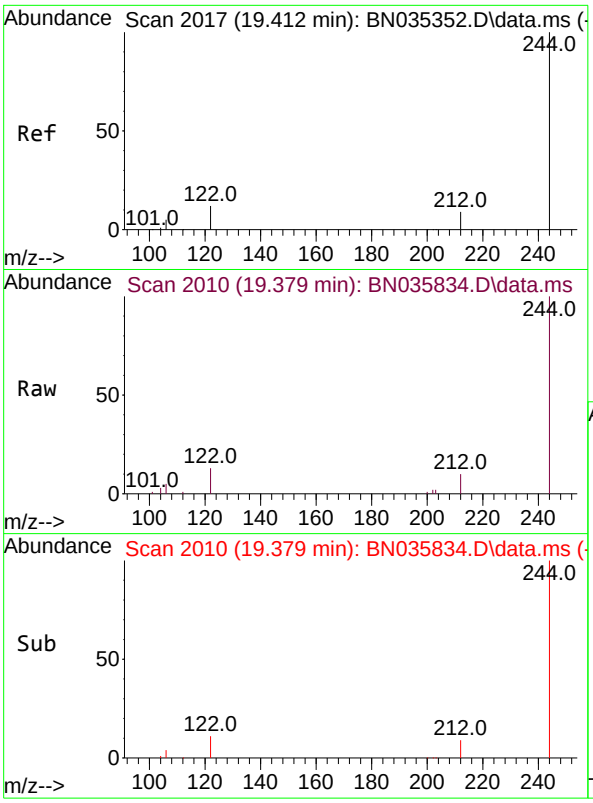




#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2250
Delta R.T. -0.009 min
Lab File: BN035834.D
Acq: 24 Dec 2024 23:53

Tgt Ion:240 Resp: 8231

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 12.7 | 7.9 | 11.9# |
| 236 | 29.2 | 22.9 | 34.3 |



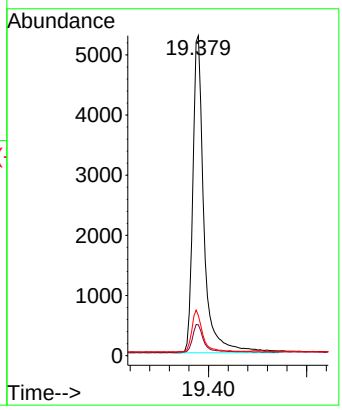


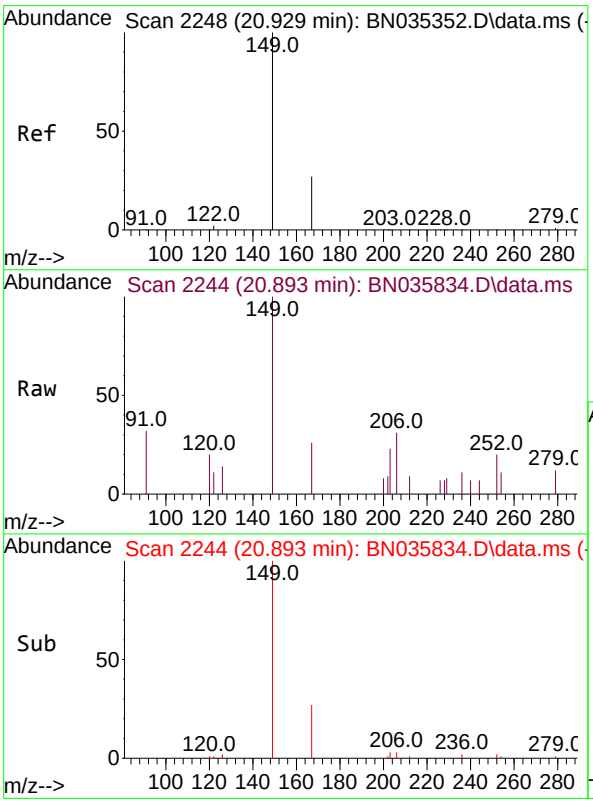

#31
Terphenyl-d14
Concen: 0.514 ng
RT: 19.379 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035834.D
Acq: 24 Dec 2024 23:53

**Instrument :**
BNA_N
**ClientSampleId :**
RW11-MW01I-20241219

Tgt Ion:244 Resp: 8341

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 9.7 | 8.1 | 12.1 |
| 122 | 12.6 | 10.3 | 15.5 |

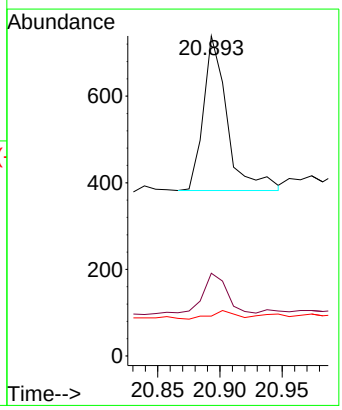


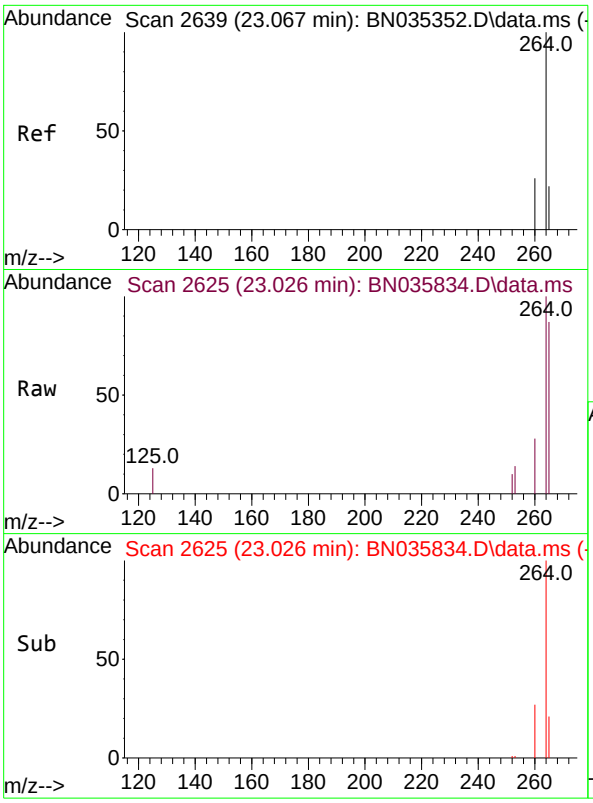




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.042 ng
RT: 20.893 min Scan# 2244
Delta R.T. -0.018 min
Lab File: BN035834.D
Acq: 24 Dec 2024 23:53

Tgt Ion:149 Resp: 474

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 26.2 | 22.2 | 33.4 |
| 279 | 5.7 | 2.7 | 4.1# |



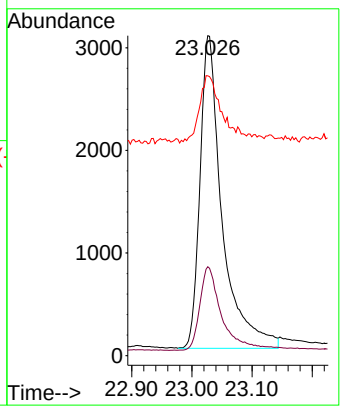



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.026 min Scan# 2
Delta R.T. -0.015 min
Lab File: BN035834.D
Acq: 24 Dec 2024 23:53

**Instrument :**
BNA_N
**ClientSampleId :**
RW11-MW01I-20241219

Tgt Ion:264 Resp: 7812

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 27.8 | 21.4 | 32.2 |
| 265 | 87.5 | 40.2 | 60.4# |



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035835.D
Acq On : 25 Dec 2024 00:29
Operator : RC/JU
Sample : P5376-18
Misc :
ALS Vial : 27 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
TT119S1-20241219

Quant Time: Dec 25 02:35:20 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

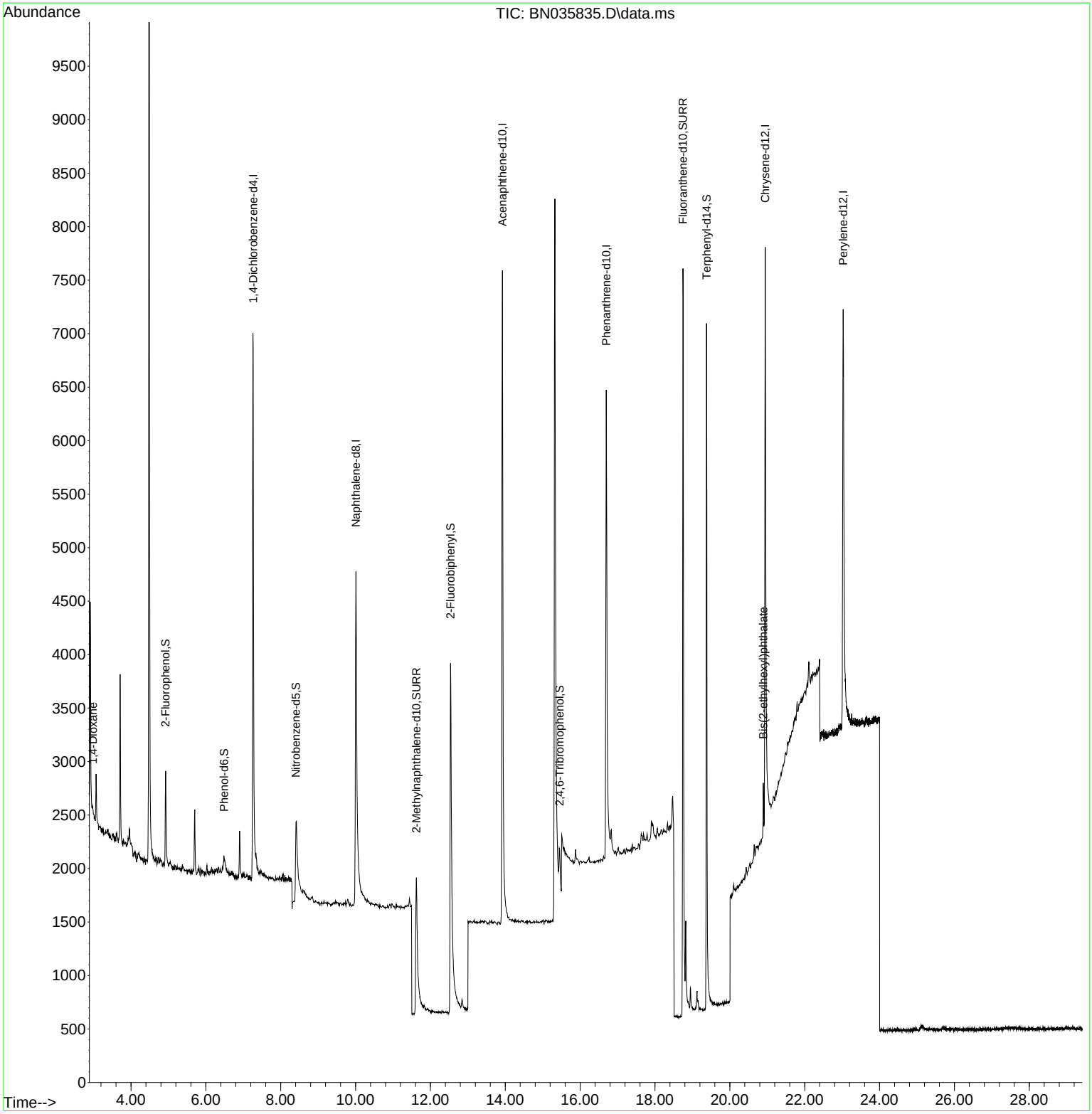
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.264 | 152 | 3270 | 0.400 | ng | 0.00 |
| 7) Naphthalene-d8 | 10.009 | 136 | 7393 | 0.400 | ng | -0.01 |
| 13) Acenaphthene-d10 | 13.925 | 164 | 4622 | 0.400 | ng | -0.01 |
| 19) Phenanthrene-d10 | 16.698 | 188 | 9153 | 0.400 | ng | # 0.00 |
| 29) Chrysene-d12 | 20.947 | 240 | 7437 | 0.400 | ng | # 0.00 |
| 35) Perylene-d12 | 23.029 | 264 | 7071 | 0.400 | ng | #-0.01 |
| System Monitoring Compounds | | | | | | |
| 4) 2-Fluorophenol | 4.924 | 112 | 859 | 0.105 | ng | -0.01 |
| 5) Phenol-d6 | 6.484 | 99 | 361 | 0.037 | ng | 0.00 |
| 8) Nitrobenzene-d5 | 8.408 | 82 | 2688 | 0.595 | ng | 0.00 |
| 11) 2-Methylnaphthalene-d10 | 11.626 | 152 | 3916 | 0.338 | ng | 0.00 |
| 14) 2,4,6-Tribromophenol | 15.453 | 330 | 618 | 0.188 | ng | 0.00 |
| 15) 2-Fluorobiphenyl | 12.539 | 172 | 6261 | 0.358 | ng | 0.00 |
| 27) Fluoranthene-d10 | 18.747 | 212 | 10636 | 0.410 | ng | -0.01 |
| 31) Terphenyl-d14 | 19.379 | 244 | 7814 | 0.533 | ng | 0.00 |
| Target Compounds | | | | | | Qvalue |
| 2) 1,4-Dioxane | 2.982 | 88 | 63 | 0.020 | ng | # 71 |
| 34) Bis(2-ethylhexyl)phtha... | 20.893 | 149 | 496 | 0.048 | ng | 99 |

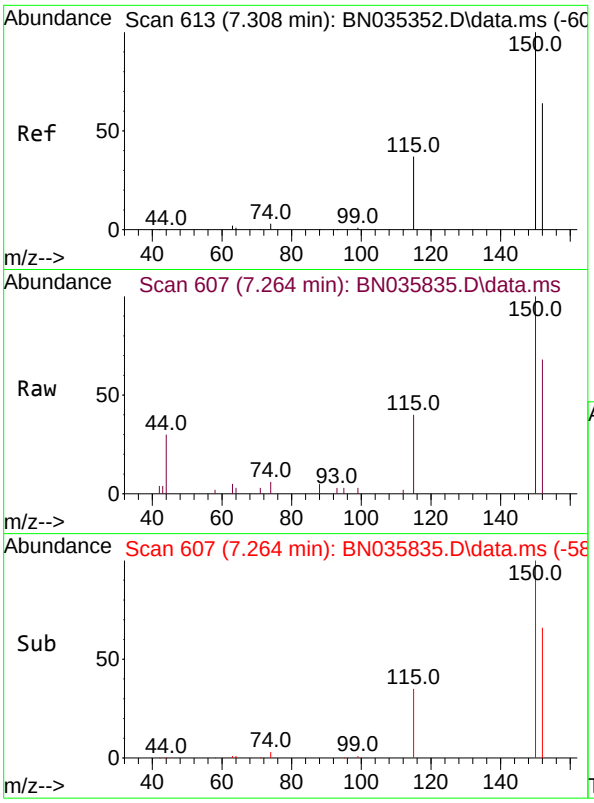
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035835.D
Acq On : 25 Dec 2024 00:29
Operator : RC/JU
Sample : P5376-18
Misc :
ALS Vial : 27 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
TT119S1-20241219

Quant Time: Dec 25 02:35:20 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



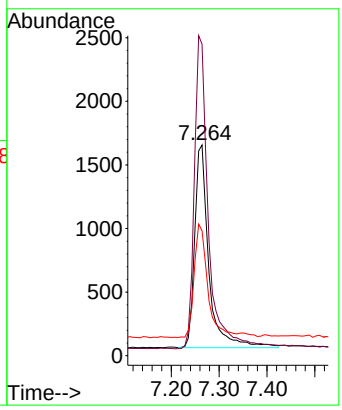


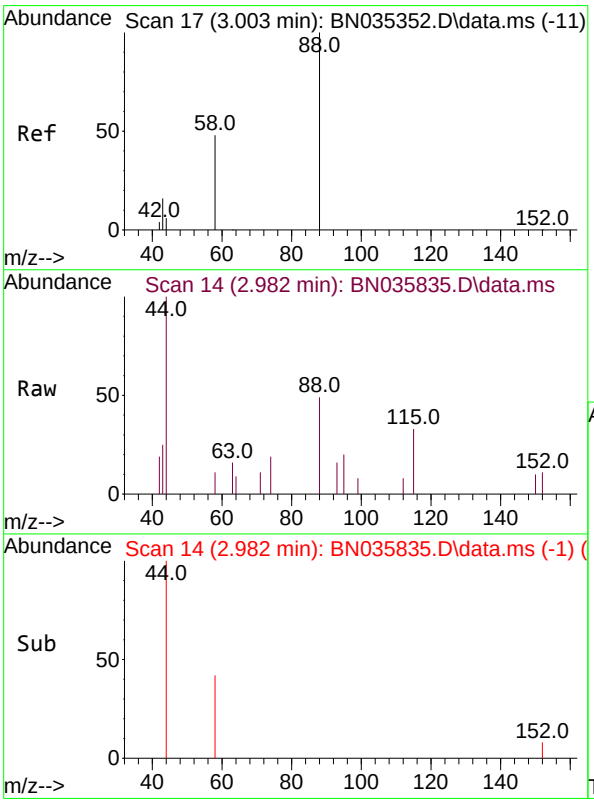

#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.264 min Scan# 6(
Delta R.T. -0.008 min
Lab File: BN035835.D
Acq: 25 Dec 2024 00:29

**Instrument :**
BNA_N
**ClientSampleId :**
TT119S1-20241219

Tgt Ion:152 Resp: 3270

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 147.9 | 124.0 | 186.0 |
| 115 | 59.3 | 49.6 | 74.4 |

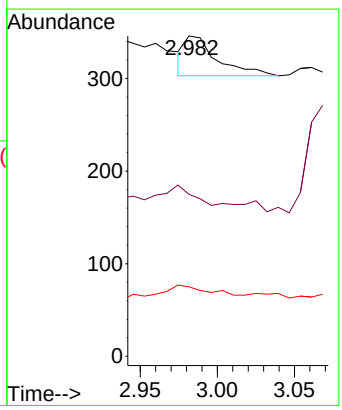


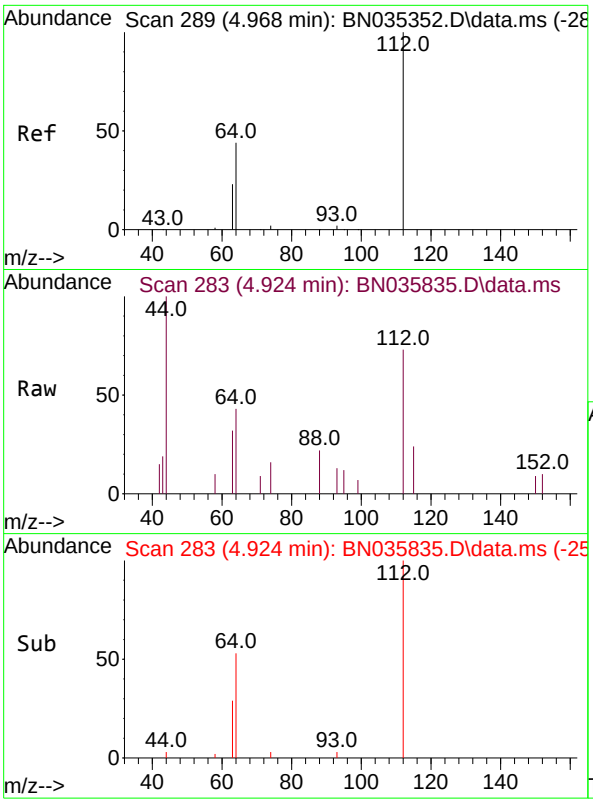




#2
1,4-Dioxane
Concen: 0.020 ng
RT: 2.982 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035835.D
Acq: 25 Dec 2024 00:29

Tgt Ion: 88 Resp: 63

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 41.3 | 17.2 | 25.8# |
| 58 | 38.1 | 44.5 | 66.7# |



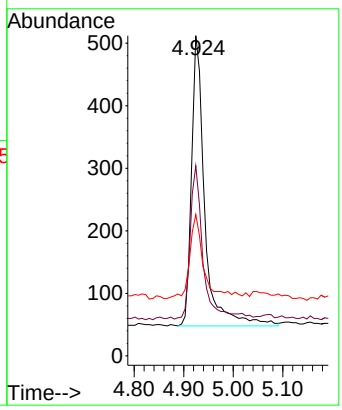


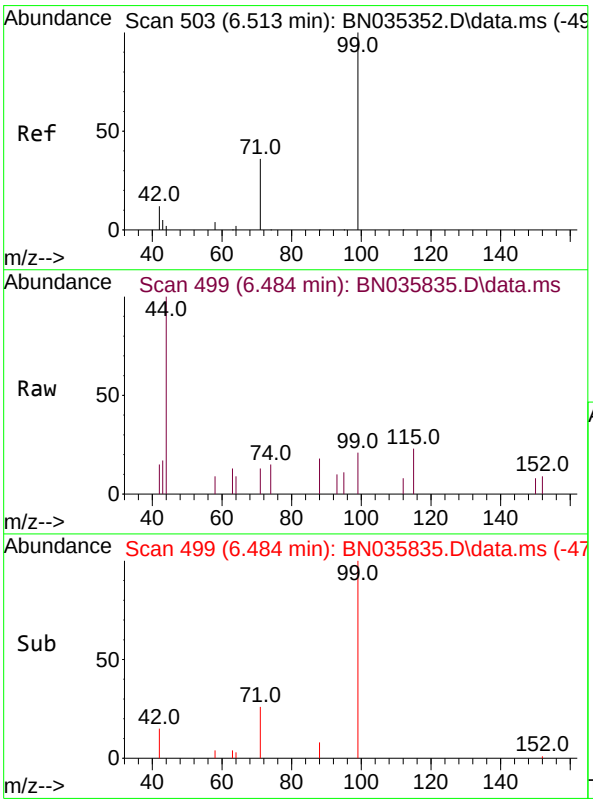

#4
2-Fluorophenol
Concen: 0.105 ng
RT: 4.924 min Scan# 2
Delta R.T. -0.015 min
Lab File: BN035835.D
Acq: 25 Dec 2024 00:29

**Instrument :**
BNA_N
**ClientSampleId :**
TT119S1-20241219

Tgt Ion:112 Resp: 859

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 51.0 | 39.8 | 59.8 |
| 63 | 30.2 | 21.0 | 31.6 |

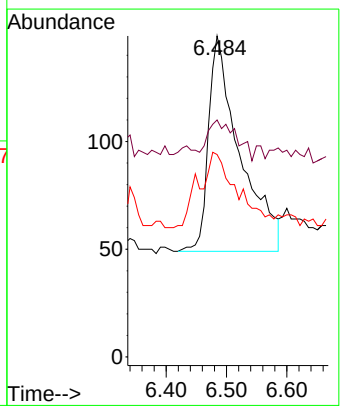


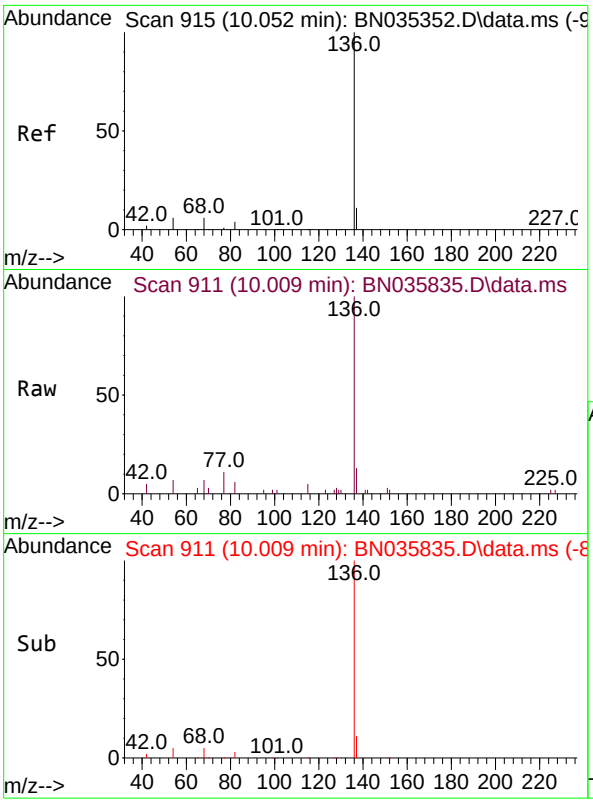




#5
Phenol-d6
Concen: 0.037 ng
RT: 6.484 min Scan# 499
Delta R.T. -0.007 min
Lab File: BN035835.D
Acq: 25 Dec 2024 00:29

Tgt Ion: 99 Resp: 361

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 16.9 | 11.4 | 17.2 |
| 71 | 25.8 | 29.3 | 43.9# |



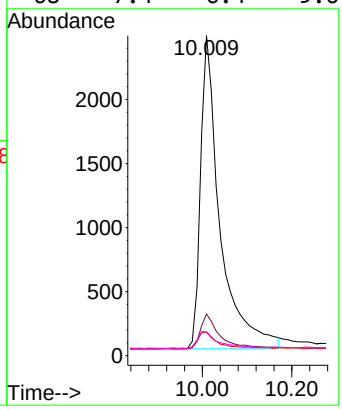


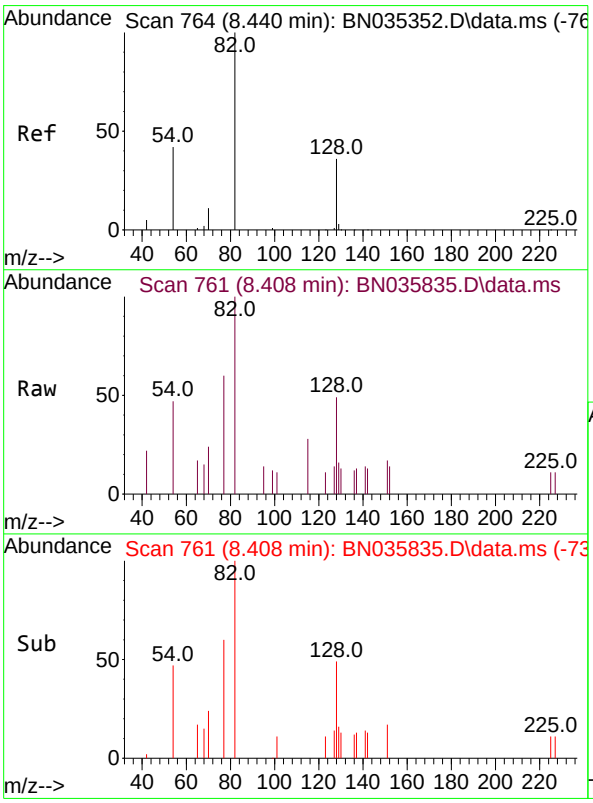

#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN035835.D
Acq: 25 Dec 2024 00:29

**Instrument :**
BNA_N
**ClientSampleId :**
TT119S1-20241219

Tgt Ion:136 Resp: 7393

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 13.0 | 10.2 | 15.2 |
| 54 | 7.4 | 6.1 | 9.1 |
| 68 | 7.4 | 6.4 | 9.6 |

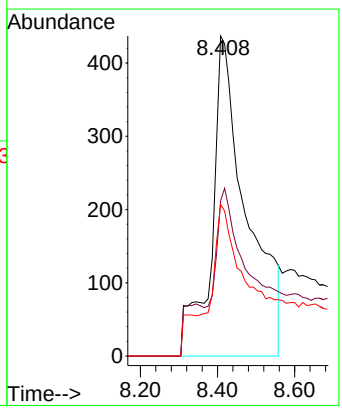


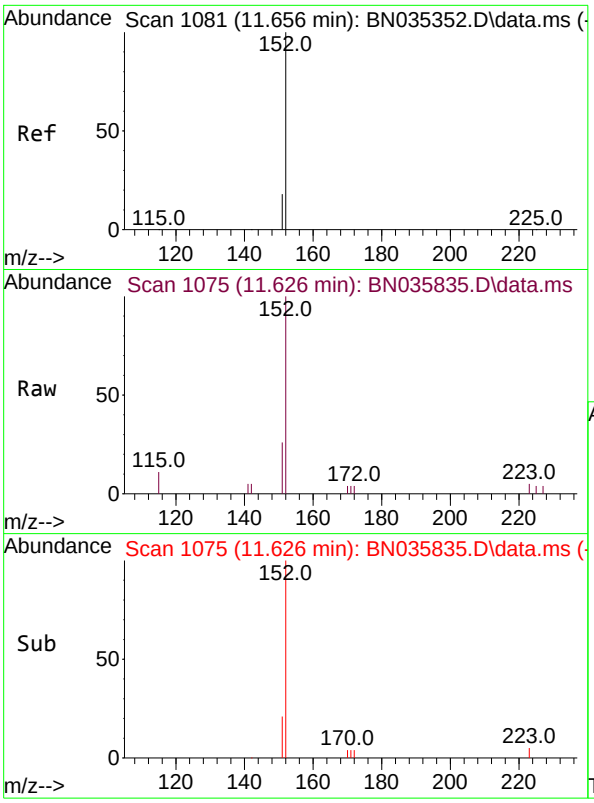




#8
Nitrobenzene-d5
Concen: 0.595 ng
RT: 8.408 min Scan# 761
Delta R.T. -0.000 min
Lab File: BN035835.D
Acq: 25 Dec 2024 00:29

Tgt Ion: 82 Resp: 2688

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 48.5 | 33.4 | 50.0 |
| 54 | 47.4 | 36.7 | 55.1 |



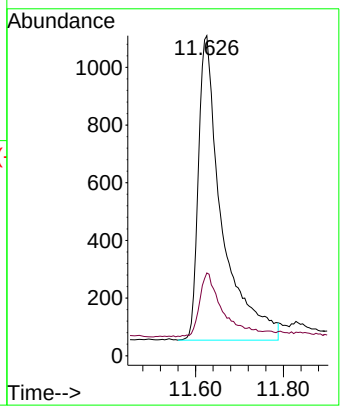


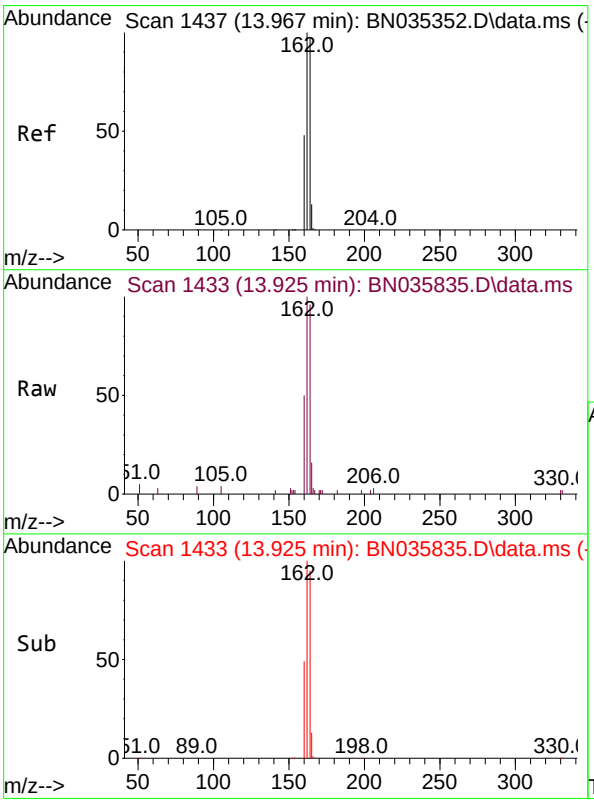

#11
2-Methylnaphthalene-d10
Concen: 0.338 ng
RT: 11.626 min Scan# 1
Delta R.T. 0.005 min
Lab File: BN035835.D
Acq: 25 Dec 2024 00:29

**Instrument :**
BNA_N
**ClientSampleId :**
TT119S1-20241219

Tgt Ion:152 Resp: 3916

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.6 | 16.6 | 25.0 |

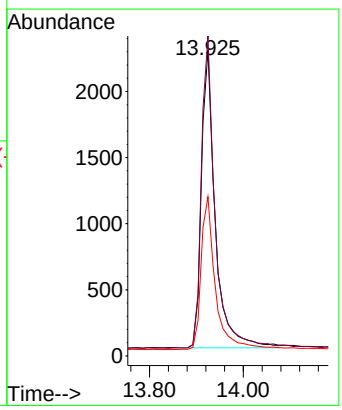


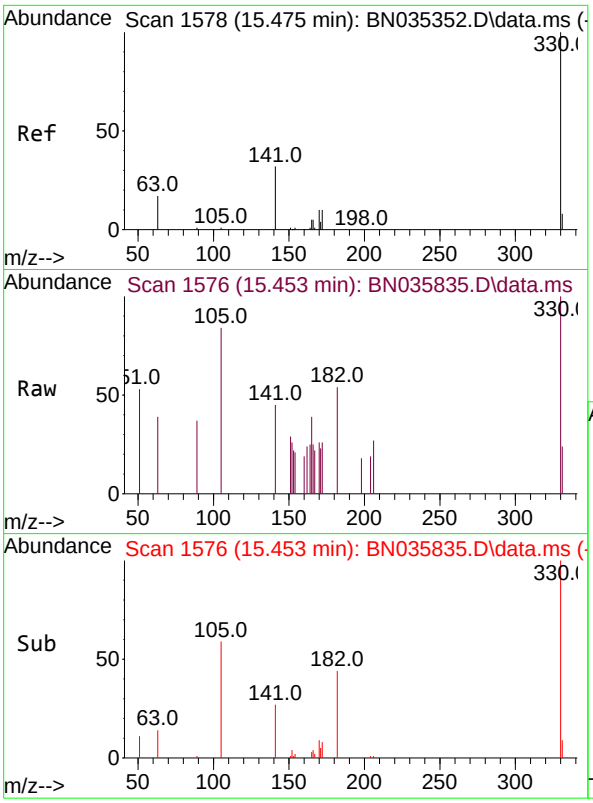




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.925 min Scan# 1433
Delta R.T. -0.011 min
Lab File: BN035835.D
Acq: 25 Dec 2024 00:29

Tgt Ion:164 Resp: 4622

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 104.5 | 82.2 | 123.2 |
| 160 | 52.0 | 40.1 | 60.1 |



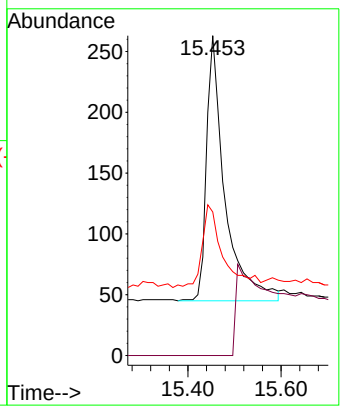


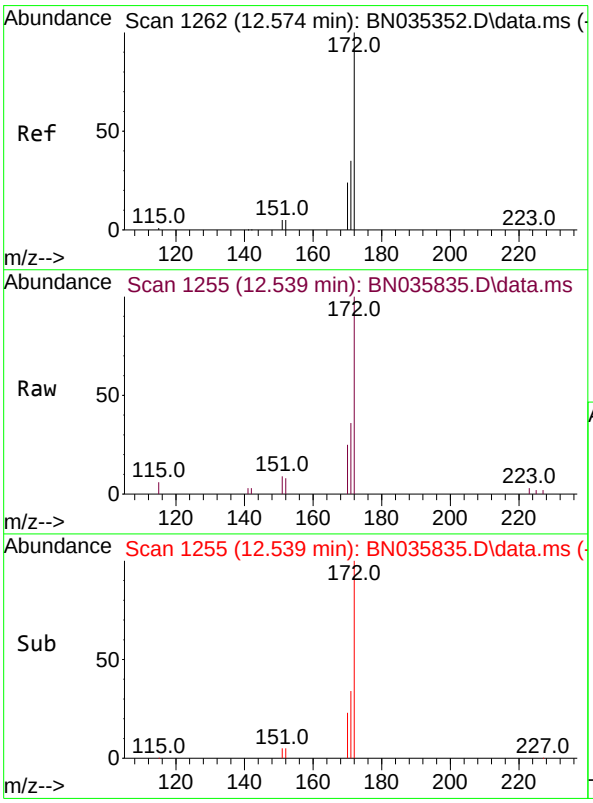

#14
2,4,6-Tribromophenol
Concen: 0.188 ng
RT: 15.453 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035835.D
Acq: 25 Dec 2024 00:29

**Instrument :**
BNA_N
**ClientSampleId :**
TT119S1-20241219

Tgt Ion:330 Resp: 618

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 0.0 | 0.0 | 0.0 |
| 141 | 34.8 | 26.6 | 40.0 |

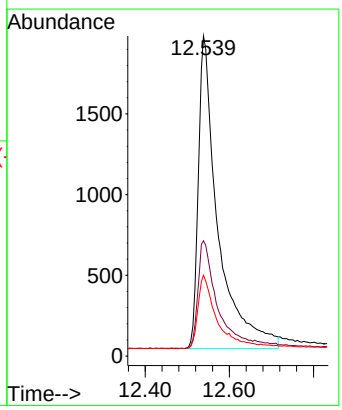


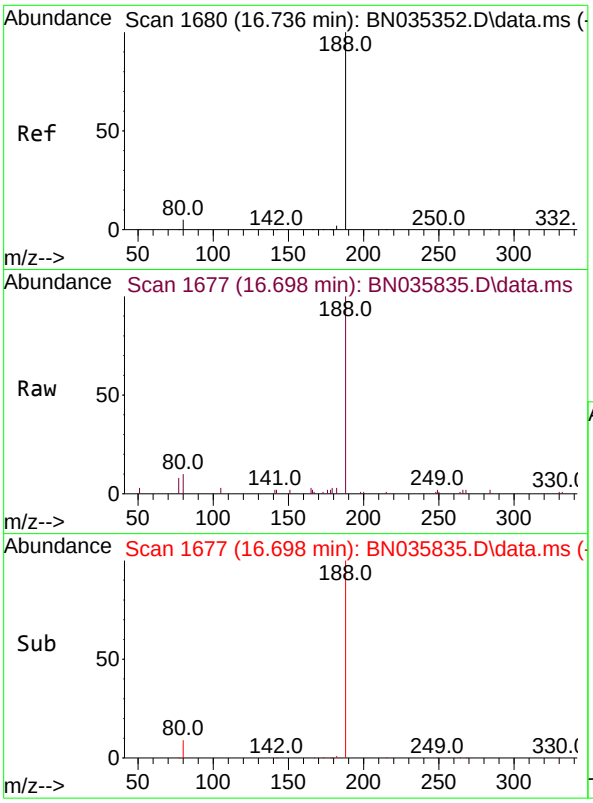




#15
2-Fluorobiphenyl
Concen: 0.358 ng
RT: 12.539 min Scan# 1255
Delta R.T. -0.005 min
Lab File: BN035835.D
Acq: 25 Dec 2024 00:29

Tgt Ion:172 Resp: 6261

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 36.0 | 29.0 | 43.4 |
| 170 | 25.3 | 19.8 | 29.8 |



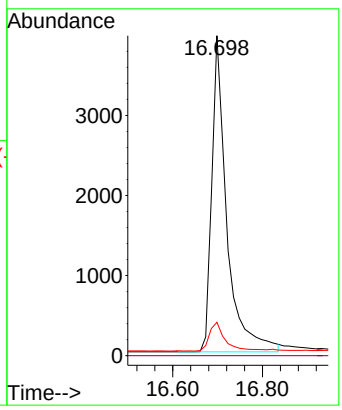


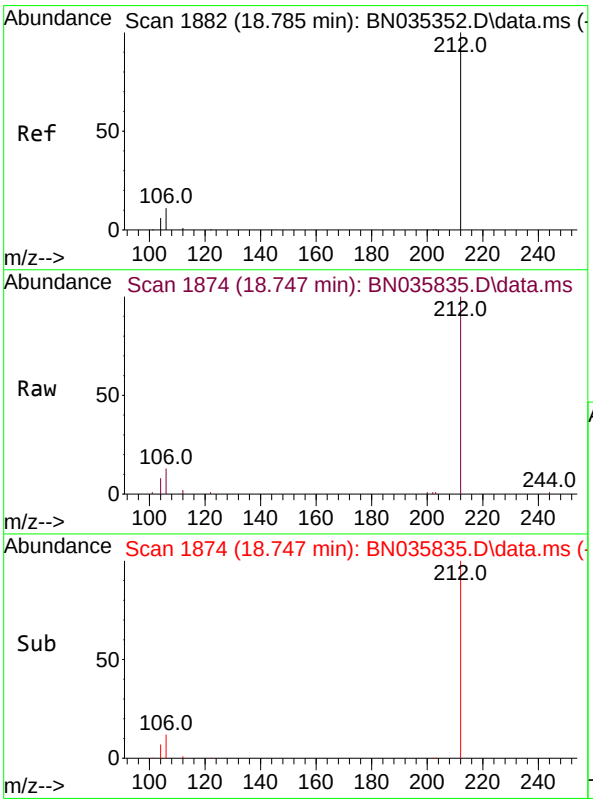

#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035835.D
Acq: 25 Dec 2024 00:29

**Instrument :**
BNA_N
**ClientSampleId :**
TT119S1-20241219

Tgt Ion:188 Resp: 9153

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 10.5 | 4.6 | 6.8# |

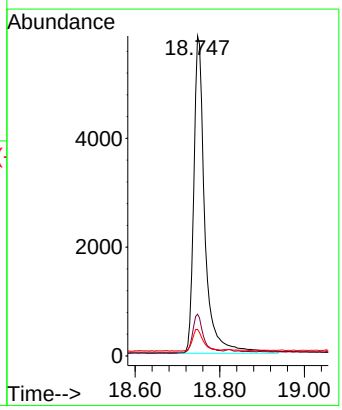


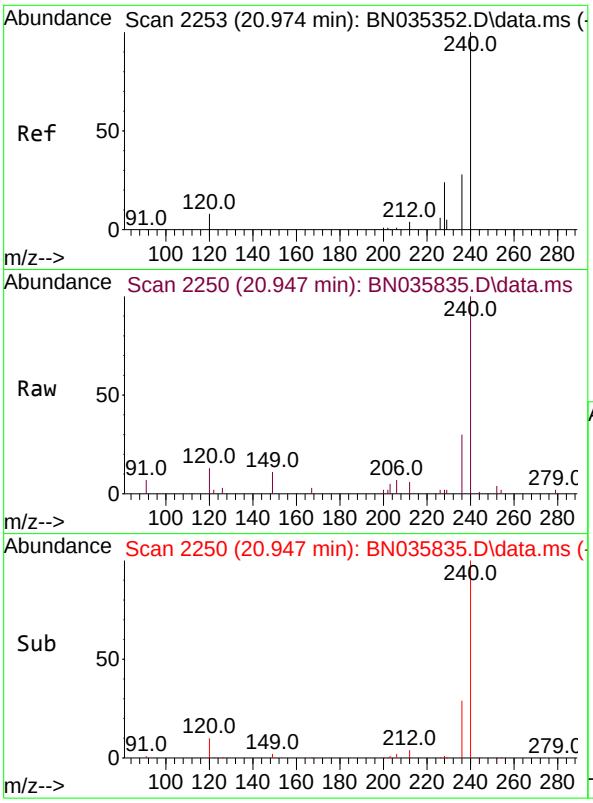




#27
Fluoranthene-d10
Concen: 0.410 ng
RT: 18.747 min Scan# 1874
Delta R.T. -0.014 min
Lab File: BN035835.D
Acq: 25 Dec 2024 00:29

Tgt Ion:212 Resp: 10636

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 11.4 | 9.2 | 13.8 |
| 104 | 6.7 | 5.3 | 7.9 |



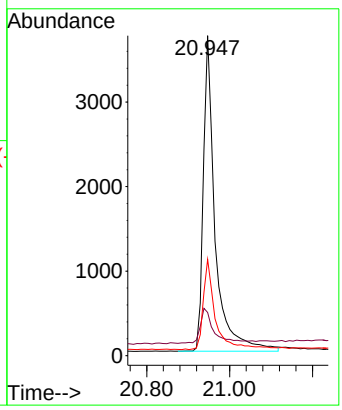


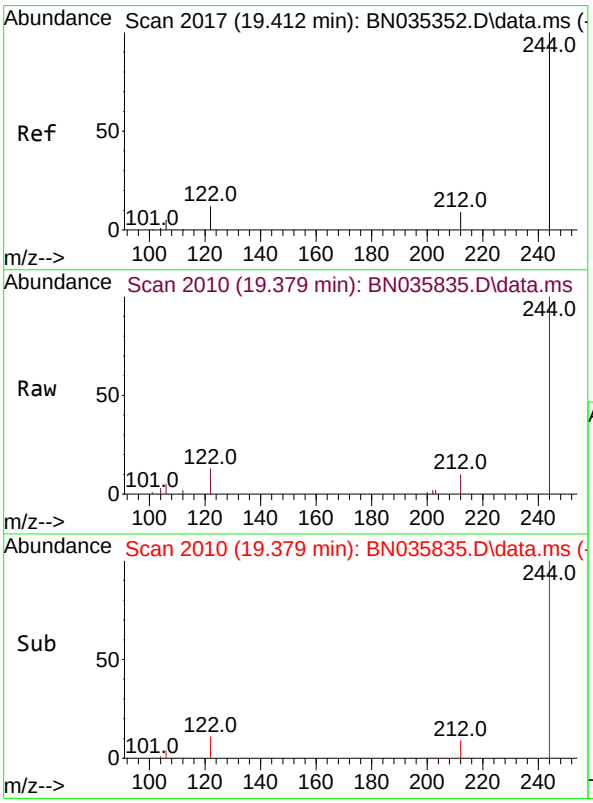

#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035835.D
Acq: 25 Dec 2024 00:29

**Instrument :**
BNA_N
**ClientSampleId :**
TT119S1-20241219

Tgt Ion:240 Resp: 7437

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 13.5 | 7.9 | 11.9# |
| 236 | 30.1 | 22.9 | 34.3 |

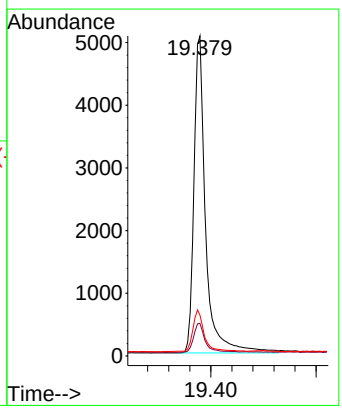


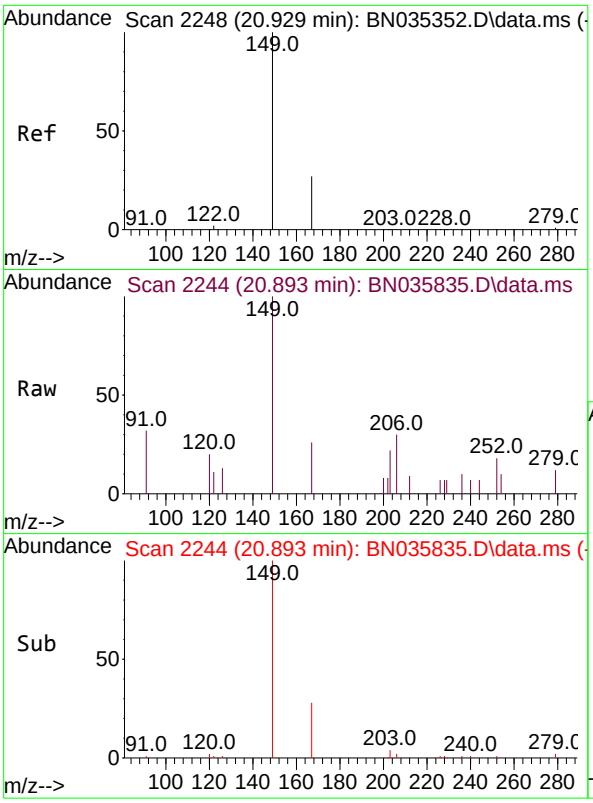




#31
Terphenyl-d14
Concen: 0.533 ng
RT: 19.379 min Scan# 2010
Delta R.T. -0.009 min
Lab File: BN035835.D
Acq: 25 Dec 2024 00:29

Tgt Ion:244 Resp: 7814

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 10.1 | 8.1 | 12.1 |
| 122 | 12.7 | 10.3 | 15.5 |



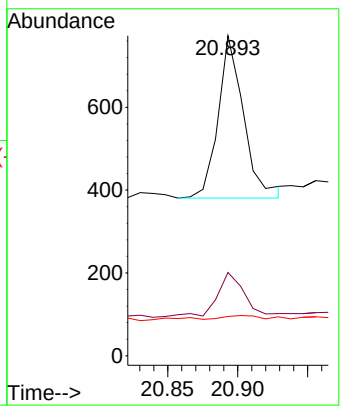


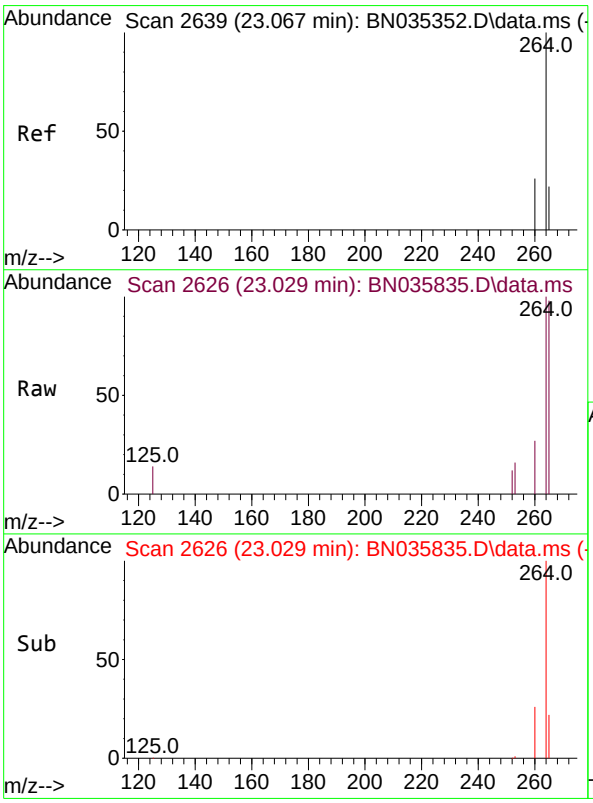

#34
Bis(2-ethylhexyl)phthalate
Concen: 0.048 ng
RT: 20.893 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035835.D
Acq: 25 Dec 2024 00:29

**Instrument :**
BNA_N
**ClientSampleId :**
TT119S1-20241219

Tgt Ion:149 Resp: 496

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 28.4 | 22.2 | 33.4 |
| 279 | 3.6 | 2.7 | 4.1 |

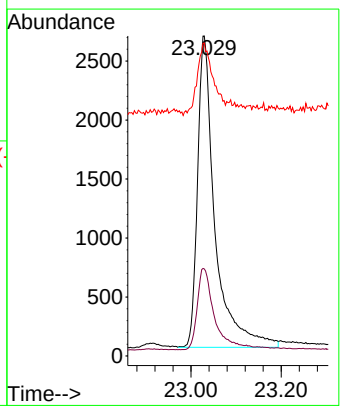



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.029 min Scan# 2626
Delta R.T. -0.012 min
Lab File: BN035835.D
Acq: 25 Dec 2024 00:29

Tgt Ion:264 Resp: 7071

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 27.2 | 21.4 | 32.2 |
| 265 | 97.8 | 40.2 | 60.4# |



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035837.D
Acq On : 25 Dec 2024 01:40
Operator : RC/JU
Sample : P5376-20
Misc :
ALS Vial : 29 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
FB03-20241219

Quant Time: Dec 25 02:35:36 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

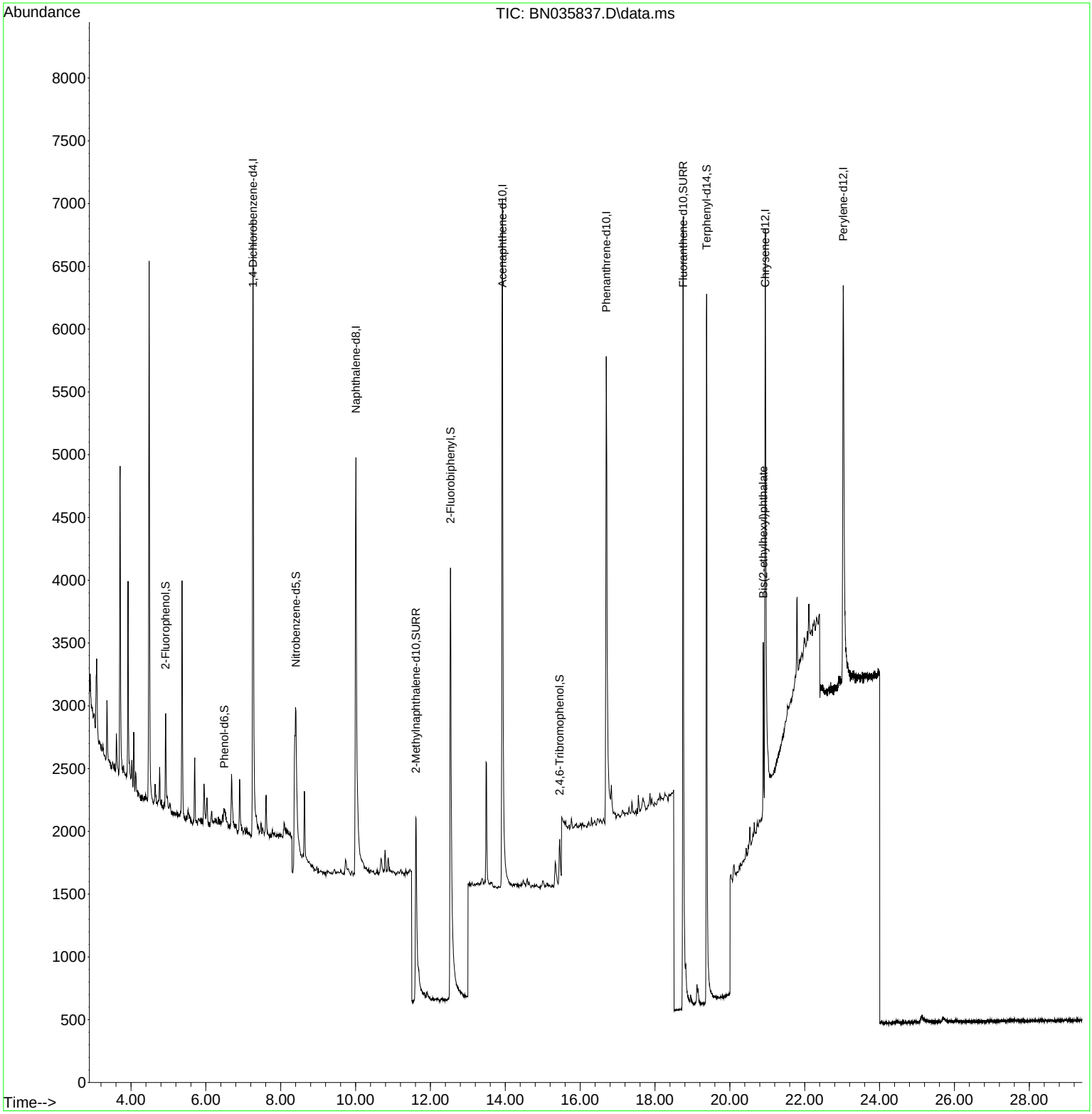
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.257 | 152 | 2951 | 0.400 | ng | -0.01 |
| 7) Naphthalene-d8 | 10.009 | 136 | 6785 | 0.400 | ng | -0.01 |
| 13) Acenaphthene-d10 | 13.924 | 164 | 4279 | 0.400 | ng | -0.01 |
| 19) Phenanthrene-d10 | 16.698 | 188 | 8231 | 0.400 | ng | # 0.00 |
| 29) Chrysene-d12 | 20.947 | 240 | 6628 | 0.400 | ng | # 0.00 |
| 35) Perylene-d12 | 23.029 | 264 | 5858 | 0.400 | ng | #-0.01 |
| System Monitoring Compounds | | | | | | |
| 4) 2-Fluorophenol | 4.924 | 112 | 738 | 0.100 | ng | -0.01 |
| 5) Phenol-d6 | 6.492 | 99 | 341 | 0.038 | ng | 0.00 |
| 8) Nitrobenzene-d5 | 8.408 | 82 | 2744 | 0.662 | ng | 0.00 |
| 11) 2-Methylnaphthalene-d10 | 11.610 | 152 | 3847 | 0.362 | ng | -0.01 |
| 14) 2,4,6-Tribromophenol | 15.453 | 330 | 557 | 0.183 | ng | 0.00 |
| 15) 2-Fluorobiphenyl | 12.538 | 172 | 6166 | 0.381 | ng | 0.00 |
| 27) Fluoranthene-d10 | 18.752 | 212 | 9755 | 0.418 | ng | 0.00 |
| 31) Terphenyl-d14 | 19.379 | 244 | 7505 | 0.574 | ng | 0.00 |
| Target Compounds | | | | | | Qvalue |
| 34) Bis(2-ethylhexyl)phtha... | 20.893 | 149 | 1349 | 0.147 | ng | # 100 |

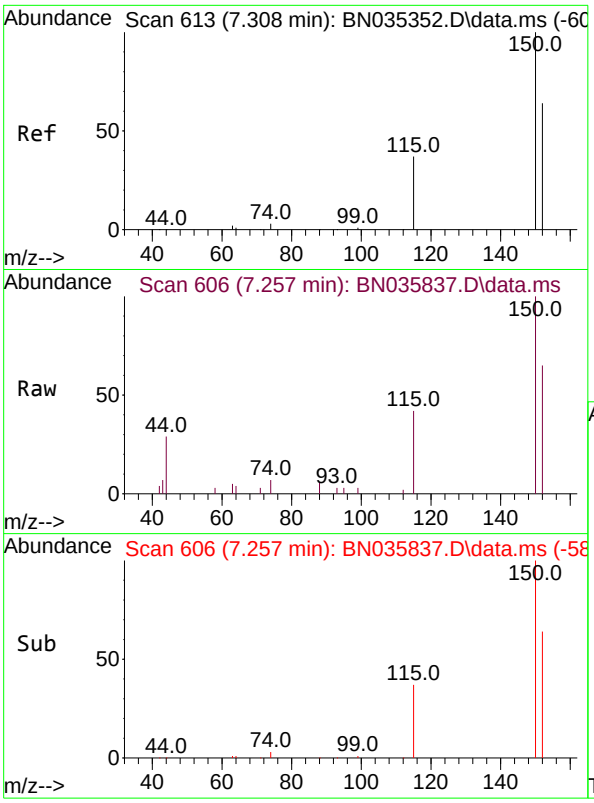
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035837.D
Acq On : 25 Dec 2024 01:40
Operator : RC/JU
Sample : P5376-20
Misc :
ALS Vial : 29 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
FB03-20241219

Quant Time: Dec 25 02:35:36 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



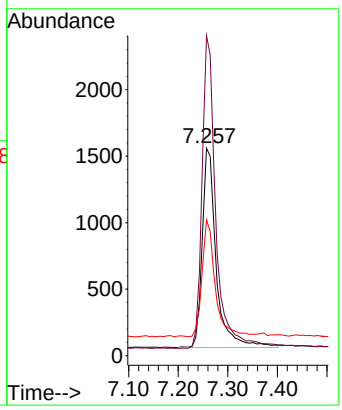


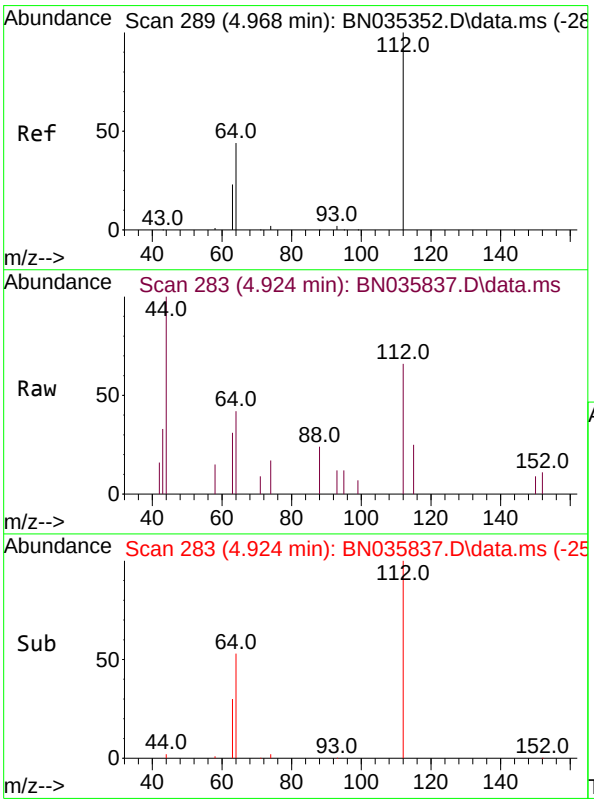

#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 6
Delta R.T. -0.015 min
Lab File: BN035837.D
Acq: 25 Dec 2024 01:40

**Instrument :**
BNA_N
**ClientSampleId :**
FB03-20241219

Tgt Ion:152 Resp: 2951

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 154.2 | 124.0 | 186.0 |
| 115 | 65.4 | 49.6 | 74.4 |

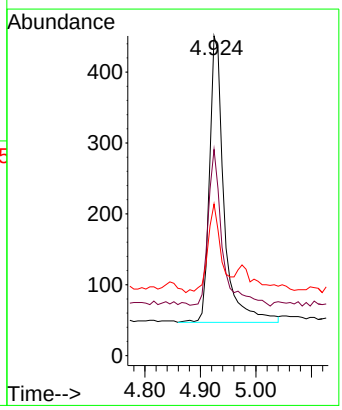


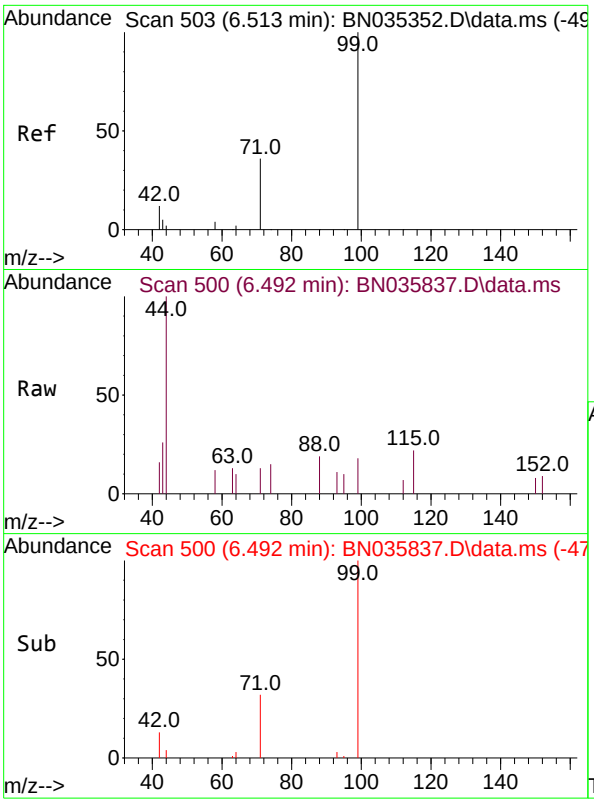




#4
2-Fluorophenol
Concen: 0.100 ng
RT: 4.924 min Scan# 283
Delta R.T. -0.015 min
Lab File: BN035837.D
Acq: 25 Dec 2024 01:40

Tgt Ion:112 Resp: 738

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 53.7 | 39.8 | 59.8 |
| 63 | 27.2 | 21.0 | 31.6 |



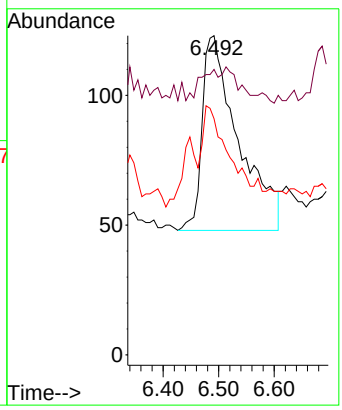


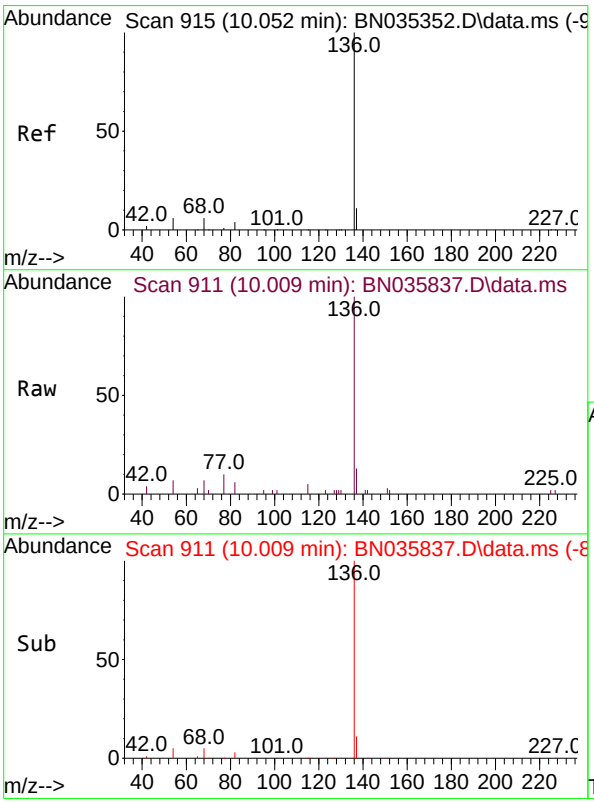

#5
Phenol-d6
Concen: 0.038 ng
RT: 6.492 min Scan# 5(
Delta R.T. -0.000 min
Lab File: BN035837.D
Acq: 25 Dec 2024 01:40

**Instrument :**
BNA_N
**ClientSampleId :**
FB03-20241219

Tgt Ion: 99 Resp: 341

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 6.7 | 11.4 | 17.2# |
| 71 | 30.5 | 29.3 | 43.9 |

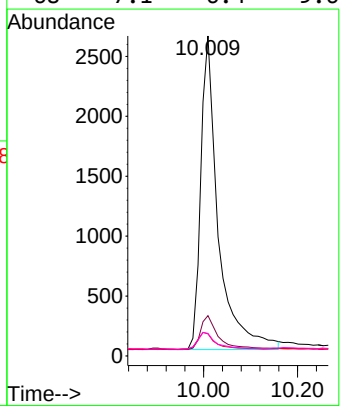


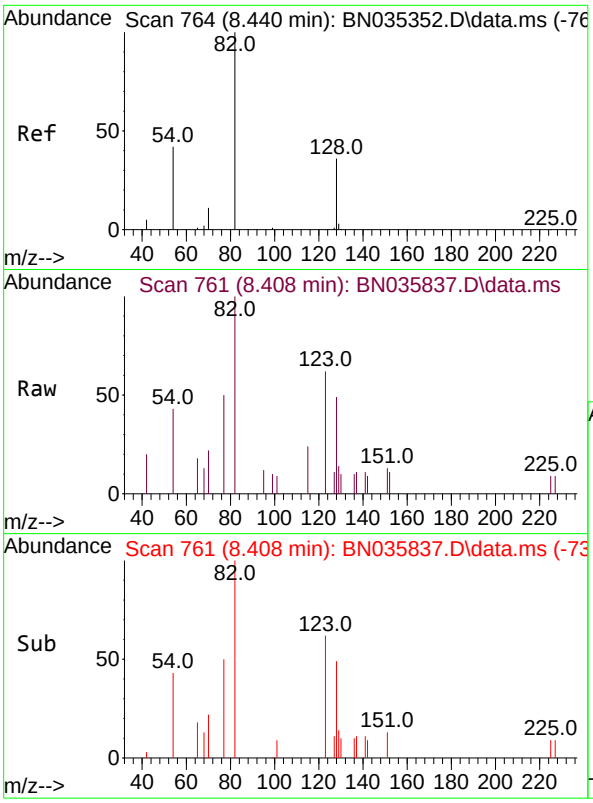




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 911
Delta R.T. -0.011 min
Lab File: BN035837.D
Acq: 25 Dec 2024 01:40

Tgt Ion:136 Resp: 6785

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 12.6 | 10.2 | 15.2 |
| 54 | 6.9 | 6.1 | 9.1 |
| 68 | 7.1 | 6.4 | 9.6 |



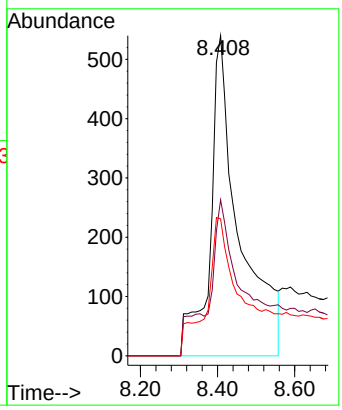


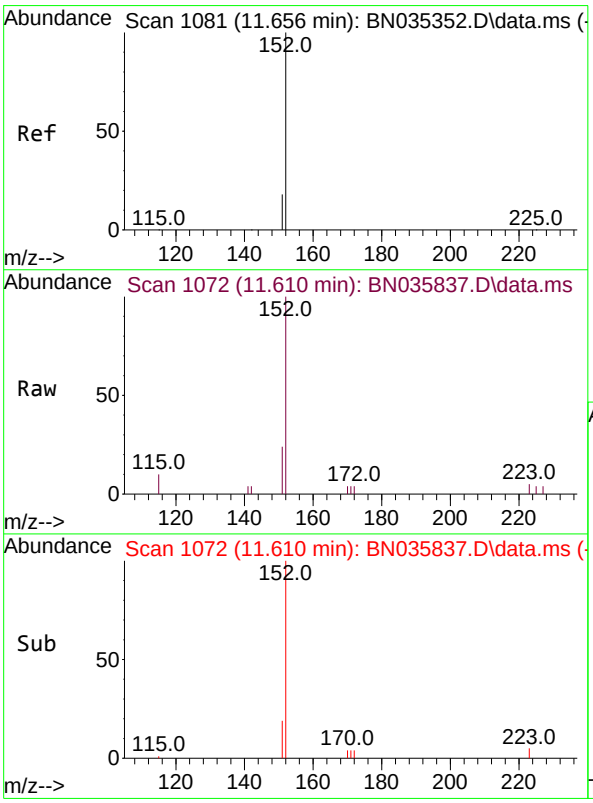

#8
Nitrobenzene-d5
Concen: 0.662 ng
RT: 8.408 min Scan# 7
Delta R.T. -0.000 min
Lab File: BN035837.D
Acq: 25 Dec 2024 01:40

**Instrument :**
BNA_N
**ClientSampleId :**
FB03-20241219

Tgt Ion: 82 Resp: 2744

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 48.7 | 33.4 | 50.0 |
| 54 | 42.8 | 36.7 | 55.1 |

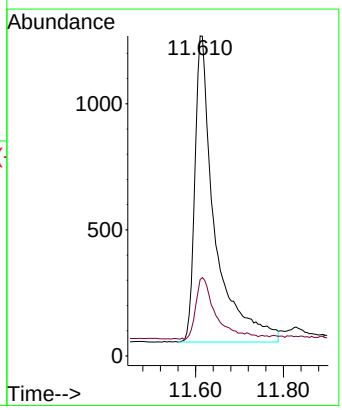


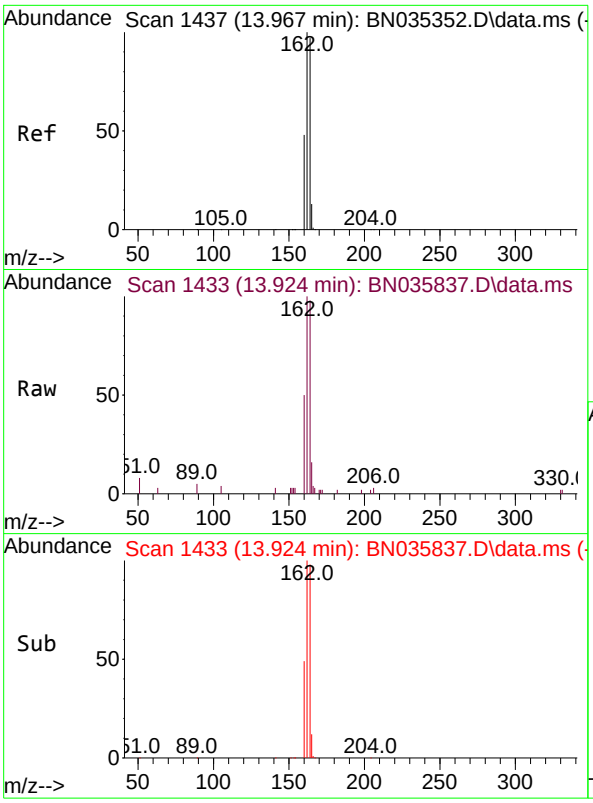




#11
2-Methylnaphthalene-d10
Concen: 0.362 ng
RT: 11.610 min Scan# 1072
Delta R.T. -0.010 min
Lab File: BN035837.D
Acq: 25 Dec 2024 01:40

Tgt Ion:152 Resp: 3847

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.9 | 16.6 | 25.0 |



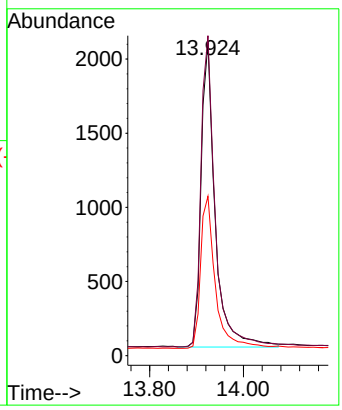


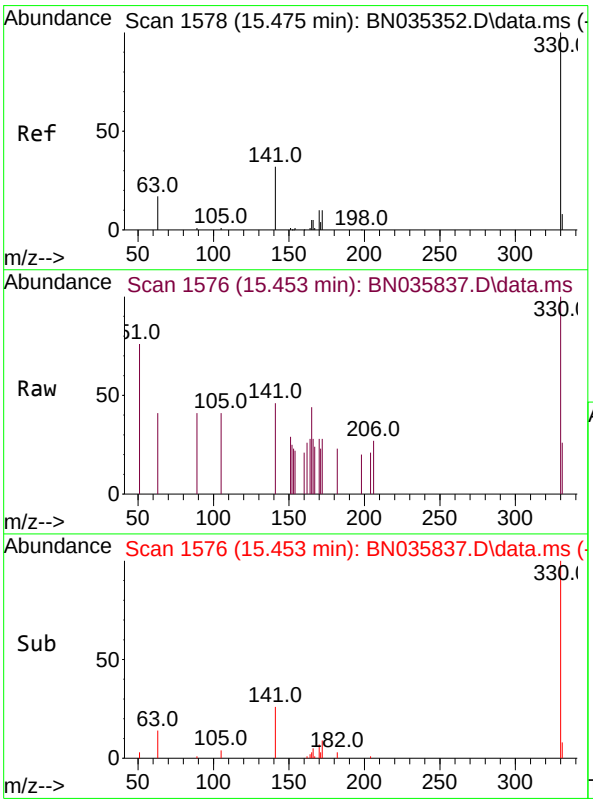

#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.924 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035837.D
Acq: 25 Dec 2024 01:40

**Instrument :**
BNA_N
**ClientSampleId :**
FB03-20241219

Tgt Ion:164 Resp: 4279

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 102.1 | 82.2 | 123.2 |
| 160 | 50.9 | 40.1 | 60.1 |

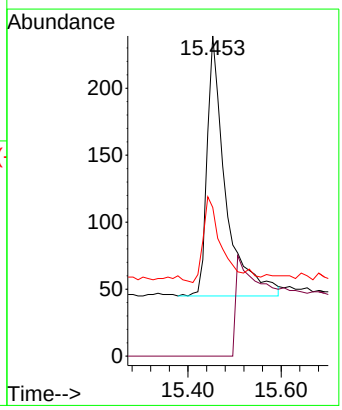


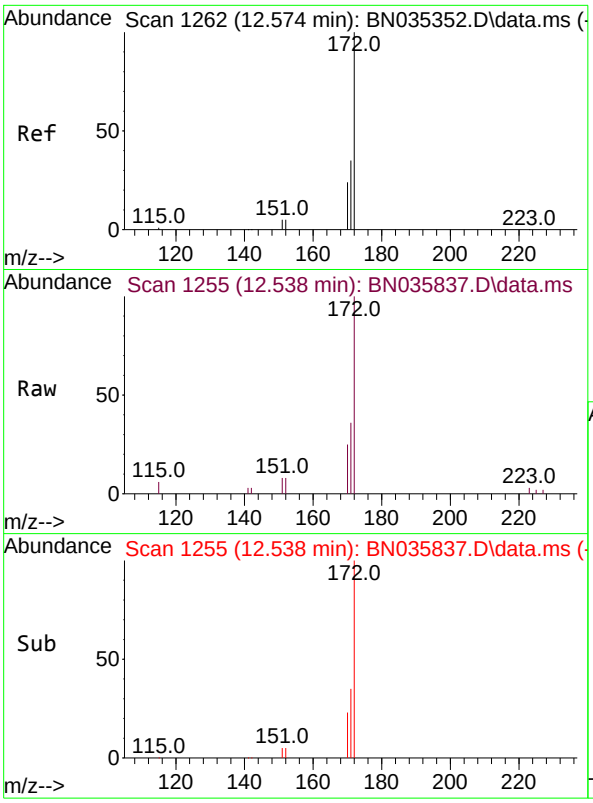




#14
2,4,6-Tribromophenol
Concen: 0.183 ng
RT: 15.453 min Scan# 1576
Delta R.T. -0.000 min
Lab File: BN035837.D
Acq: 25 Dec 2024 01:40

Tgt Ion:330 Resp: 557

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 0.0 | 0.0 | 0.0 |
| 141 | 33.9 | 26.6 | 40.0 |



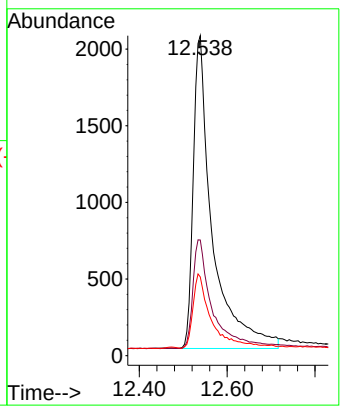


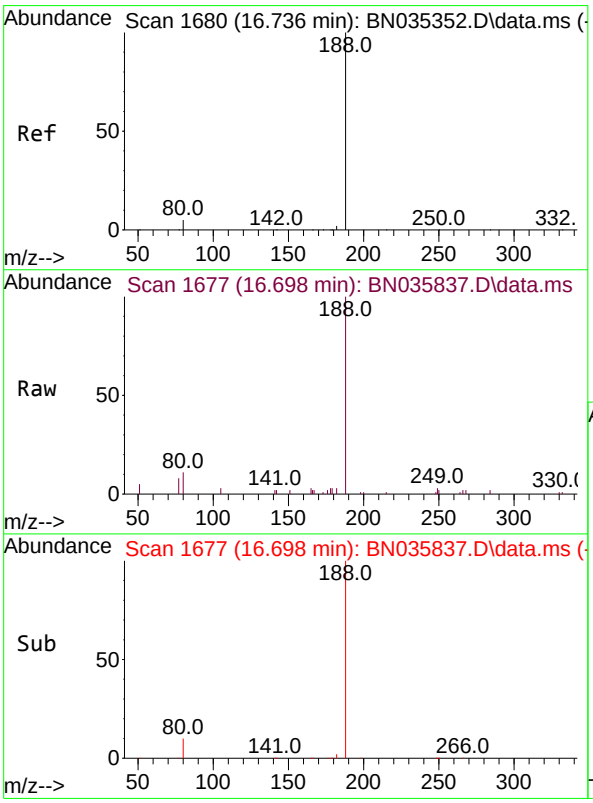

#15
2-Fluorobiphenyl
Concen: 0.381 ng
RT: 12.538 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN035837.D
Acq: 25 Dec 2024 01:40

**Instrument :**
BNA_N
**ClientSampleId :**
FB03-20241219

Tgt Ion:172 Resp: 6166

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 36.2 | 29.0 | 43.4 |
| 170 | 24.6 | 19.8 | 29.8 |

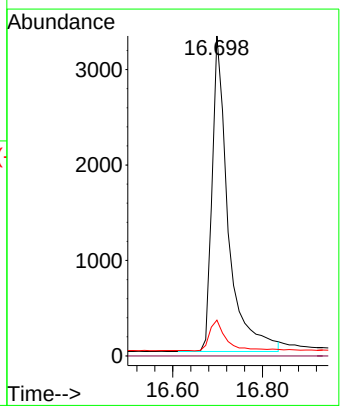


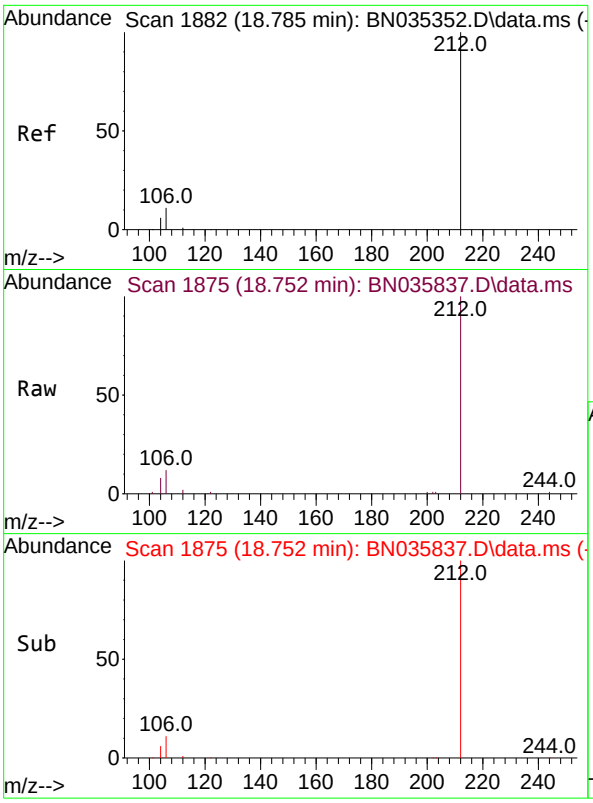




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1677
Delta R.T. -0.000 min
Lab File: BN035837.D
Acq: 25 Dec 2024 01:40

Tgt Ion:188 Resp: 8231

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 11.2 | 4.6 | 6.8# |



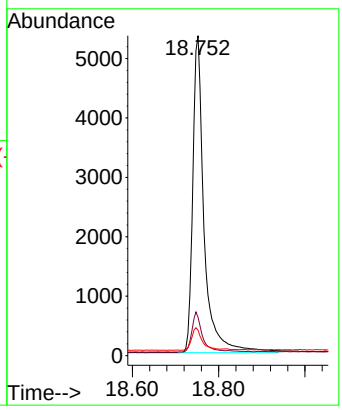


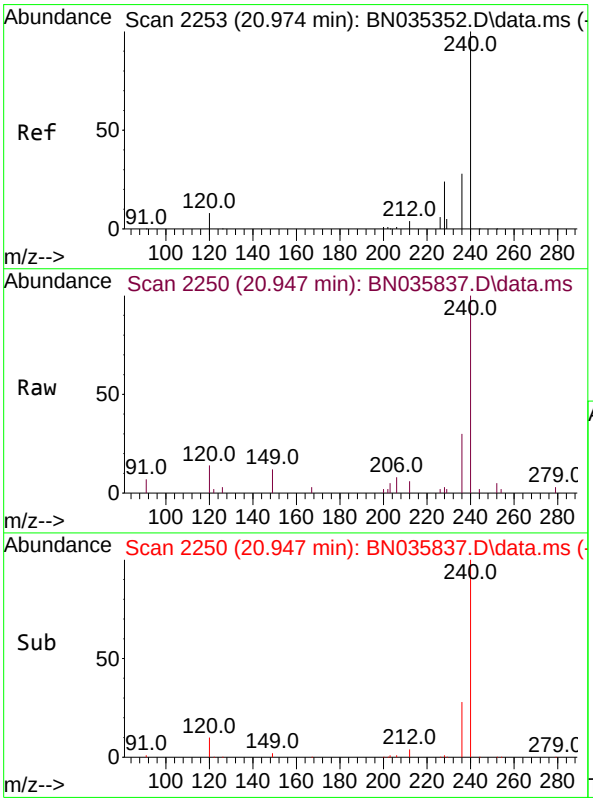

#27
Fluoranthene-d10
Concen: 0.418 ng
RT: 18.752 min Scan# 1
Delta R.T. -0.009 min
Lab File: BN035837.D
Acq: 25 Dec 2024 01:40

**Instrument :**
BNA_N
**ClientSampleId :**
FB03-20241219

Tgt Ion:212 Resp: 9755

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 12.2 | 9.2 | 13.8 |
| 104 | 6.6 | 5.3 | 7.9 |

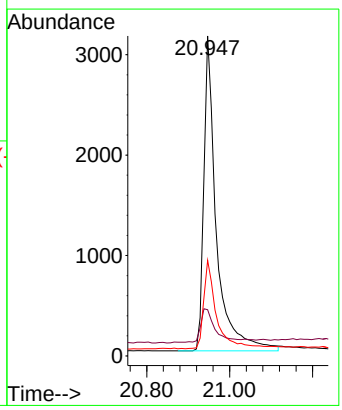


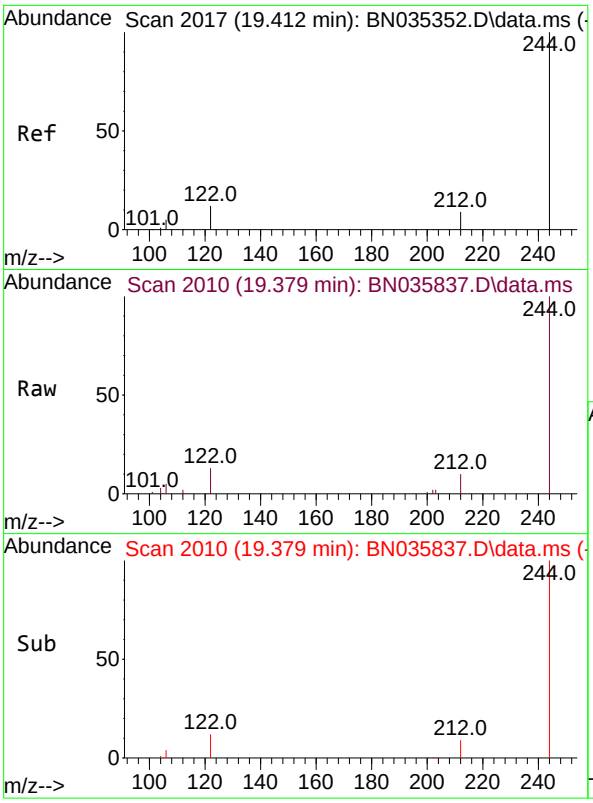




#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2250
Delta R.T. -0.009 min
Lab File: BN035837.D
Acq: 25 Dec 2024 01:40

Tgt Ion:240 Resp: 6628

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 14.4 | 7.9 | 11.9# |
| 236 | 29.9 | 22.9 | 34.3 |



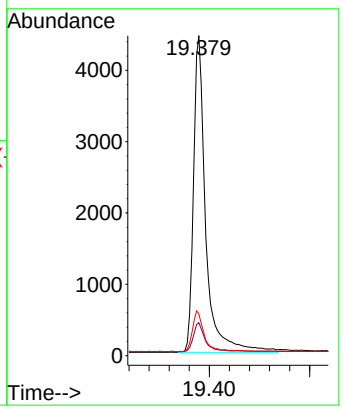


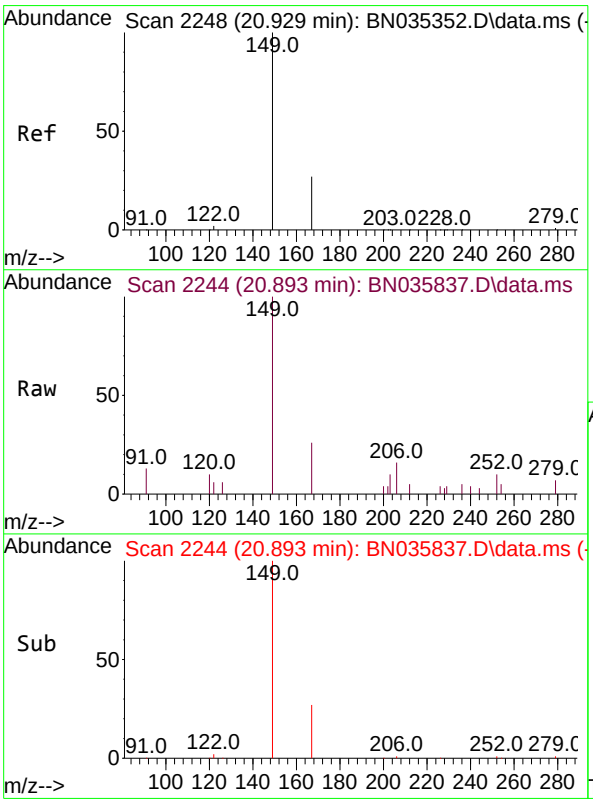

#31
Terphenyl-d14
Concen: 0.574 ng
RT: 19.379 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035837.D
Acq: 25 Dec 2024 01:40

**Instrument :**
BNA_N
**ClientSampleId :**
FB03-20241219

Tgt Ion:244 Resp: 7505

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 10.3 | 8.1 | 12.1 |
| 122 | 13.1 | 10.3 | 15.5 |

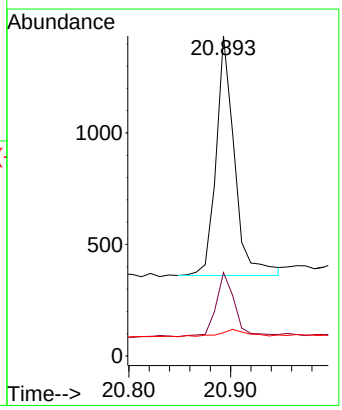


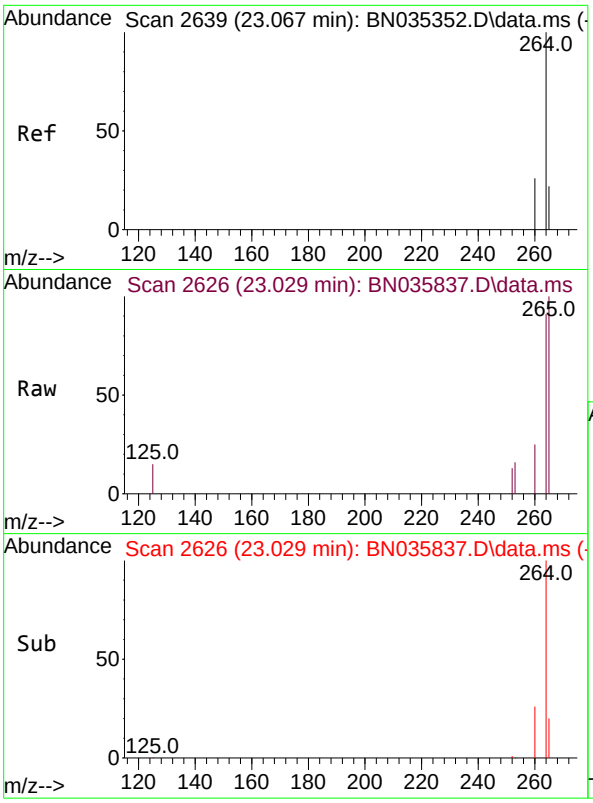




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.147 ng
RT: 20.893 min Scan# 2244
Delta R.T. -0.018 min
Lab File: BN035837.D
Acq: 25 Dec 2024 01:40

Tgt Ion:149 Resp: 1349

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 27.9 | 22.2 | 33.4 |
| 279 | 4.4 | 2.7 | 4.1# |



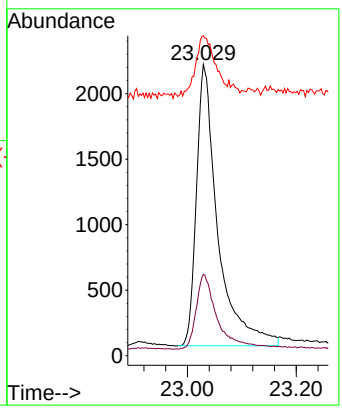



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.029 min Scan# 2
Delta R.T. -0.012 min
Lab File: BN035837.D
Acq: 25 Dec 2024 01:40

**Instrument :**
BNA_N
**ClientSampleId :**
FB03-20241219

Tgt Ion:264 Resp: 5858

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 27.9 | 21.4 | 32.2 |
| 265 | 109.9 | 40.2 | 60.4# |



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035843.D
Acq On : 25 Dec 2024 05:14
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 32 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Quant Time: Dec 25 07:05:57 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.257 | 152 | 5156 | 0.400 | ng | | -0.01 |
| 7) Naphthalene-d8 | 9.998 | 136 | 13078 | 0.400 | ng | | #-0.02 |
| 13) Acenaphthene-d10 | 13.914 | 164 | 6801 | 0.400 | ng | | -0.02 |
| 19) Phenanthrene-d10 | 16.686 | 188 | 13499 | 0.400 | ng | | #-0.01 |
| 29) Chrysene-d12 | 20.938 | 240 | 10827 | 0.400 | ng | | #-0.02 |
| 35) Perylene-d12 | 23.023 | 264 | 11272 | 0.400 | ng | | #-0.02 |
| System Monitoring Compounds | | | | | | | |
| 4) 2-Fluorophenol | 4.924 | 112 | 4881 | 0.378 | ng | | -0.01 |
| 5) Phenol-d6 | 6.470 | 99 | 8113 | 0.523 | ng | | -0.02 |
| 8) Nitrobenzene-d5 | 8.397 | 82 | 4915 | 0.615 | ng | | -0.01 |
| 11) 2-Methylnaphthalene-d10 | 11.600 | 152 | 6864 | 0.335 | ng | | -0.02 |
| 14) 2,4,6-Tribromophenol | 15.443 | 330 | 1590 | 0.329 | ng | | -0.01 |
| 15) 2-Fluorobiphenyl | 12.528 | 172 | 10817 | 0.421 | ng | | -0.02 |
| 27) Fluoranthene-d10 | 18.747 | 212 | 12946 | 0.338 | ng | | -0.01 |
| 31) Terphenyl-d14 | 19.379 | 244 | 8772 | 0.411 | ng | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 2.974 | 88 | 2628 | 0.533 | ng | | 99 |
| 3) n-Nitrosodimethylamine | 3.270 | 42 | 1575 | 0.384 | ng | # | 83 |
| 6) bis(2-Chloroethyl)ether | 6.708 | 93 | 6304 | 0.483 | ng | | 99 |
| 9) Naphthalene | 10.052 | 128 | 17615 | 0.511 | ng | | 98 |
| 10) Hexachlorobutadiene | 10.340 | 225 | 4448 | 0.559 | ng | # | 99 |
| 12) 2-Methylnaphthalene | 11.681 | 142 | 8694 | 0.352 | ng | | 98 |
| 16) Acenaphthylene | 13.625 | 152 | 10564 | 0.370 | ng | | 99 |
| 17) Acenaphthene | 13.978 | 154 | 7280 | 0.384 | ng | | 99 |
| 18) Fluorene | 14.983 | 166 | 9290 | 0.342 | ng | | 100 |
| 20) 4,6-Dinitro-2-methylph... | 15.111 | 198 | 461 | 0.347 | ng | # | 44 |
| 21) 4-Bromophenyl-phenylether | 15.904 | 248 | 2960 | 0.375 | ng | | 96 |
| 22) Hexachlorobenzene | 15.991 | 284 | 4352 | 0.469 | ng | | 95 |
| 23) Atrazine | 16.202 | 200 | 2032 | 0.362 | ng | | 93 |
| 24) Pentachlorophenol | 16.363 | 266 | 1431 | 0.355 | ng | # | 85 |
| 25) Phenanthrene | 16.735 | 178 | 14253 | 0.384 | ng | | 99 |
| 26) Anthracene | 16.822 | 178 | 11727 | 0.350 | ng | | 99 |
| 28) Fluoranthene | 18.780 | 202 | 16856 | 0.337 | ng | | 99 |
| 30) Pyrene | 19.147 | 202 | 17619 | 0.441 | ng | | 99 |
| 32) Benzo(a)anthracene | 20.929 | 228 | 13110 | 0.346 | ng | | 99 |
| 33) Chrysene | 20.974 | 228 | 16237 | 0.416 | ng | | 99 |
| 34) Bis(2-ethylhexyl)phtha... | 20.893 | 149 | 5933 | 0.397 | ng | | 99 |
| 36) Indeno(1,2,3-cd)pyrene | 25.044 | 276 | 15331 | 0.348 | ng | | 99 |
| 37) Benzo(b)fluoranthene | 22.412 | 252 | 25617 | 0.621 | ng | # | 96 |
| 38) Benzo(k)fluoranthene | 22.412 | 252 | 25617 | 0.631 | ng | | 97 |
| 39) Benzo(a)pyrene | 22.936 | 252 | 12667 | 0.373 | ng | # | 90 |
| 40) Dibenzo(a,h)anthracene | 25.061 | 278 | 11116 | 0.320 | ng | | 94 |
| 41) Benzo(g,h,i)perylene | 25.652 | 276 | 14070 | 0.387 | ng | | 98 |

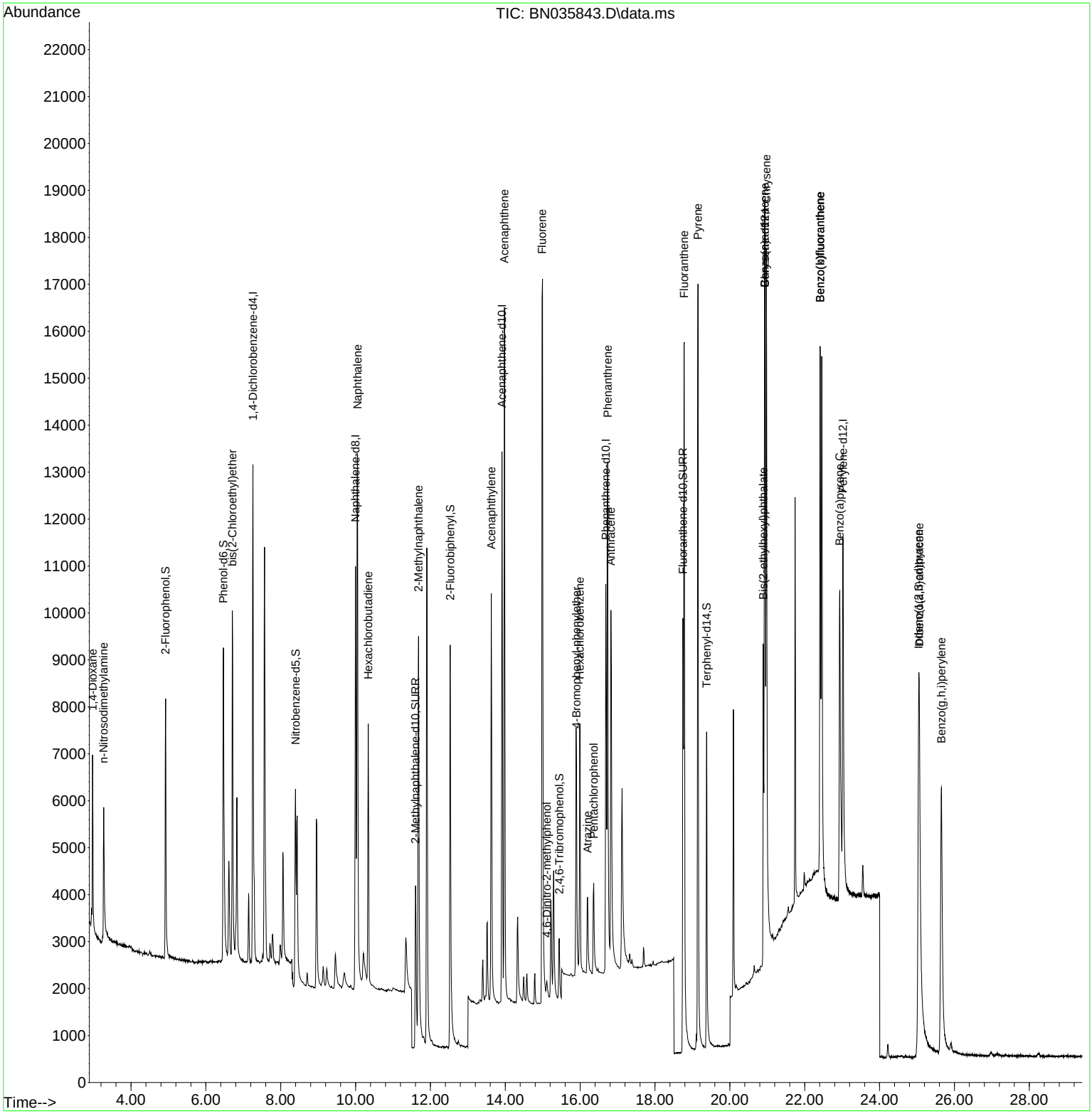
(#) = qualifier out of range (m) = manual integration (+) = signals summed

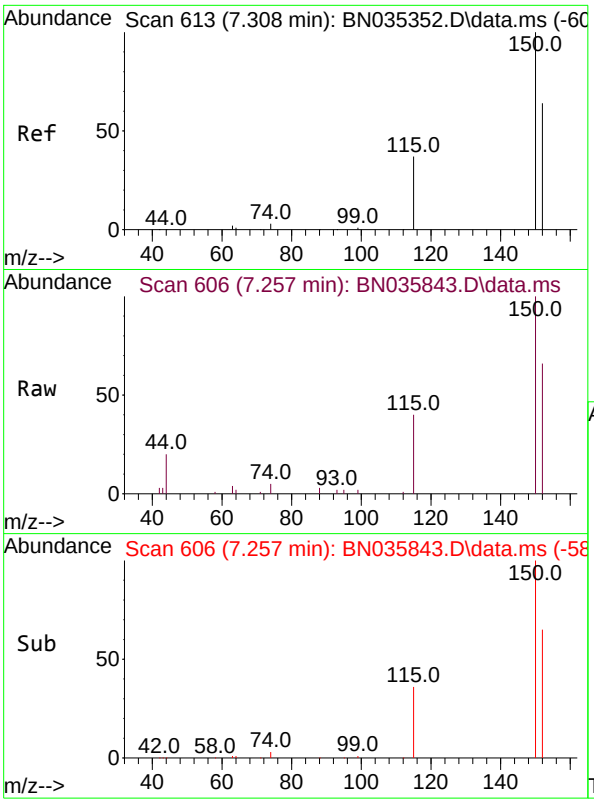
Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035843.D
Acq On : 25 Dec 2024 05:14
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 32 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Quant Time: Dec 25 07:05:57 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



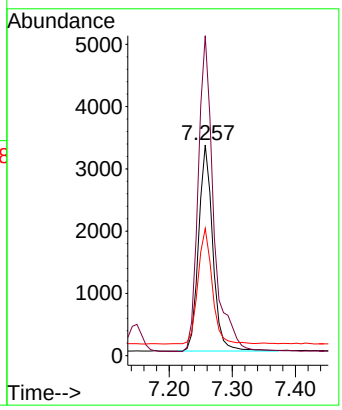


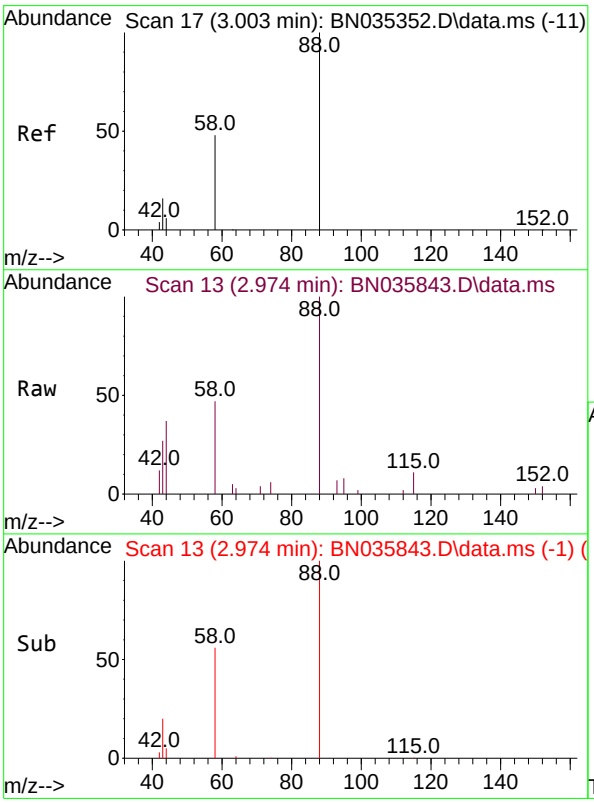

#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 6
Delta R.T. -0.015 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:152 Resp: 5156

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 151.9 | 124.0 | 186.0 |
| 115 | 60.4 | 49.6 | 74.4 |

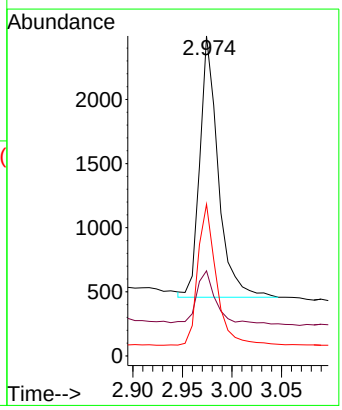


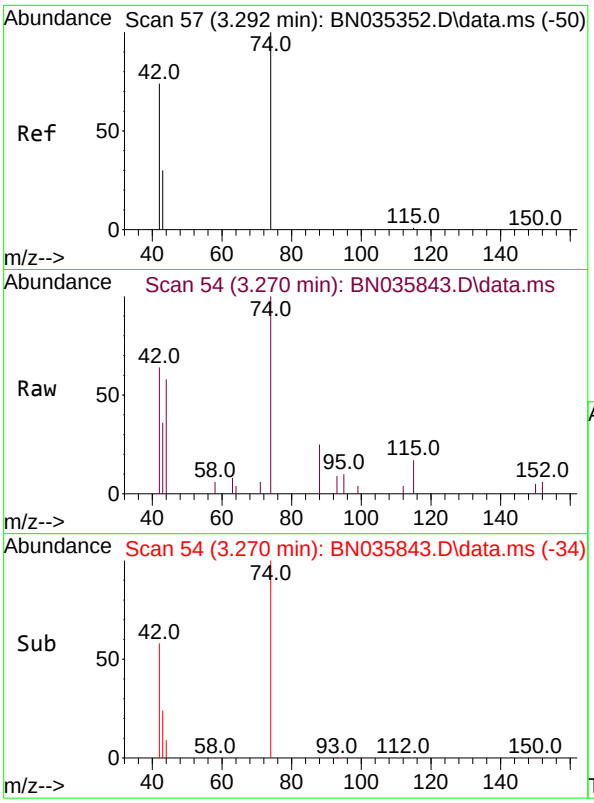




#2
1,4-Dioxane
Concen: 0.533 ng
RT: 2.974 min Scan# 13
Delta R.T. -0.007 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion: 88 Resp: 2628

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 21.2 | 17.2 | 25.8 |
| 58 | 54.7 | 44.5 | 66.7 |



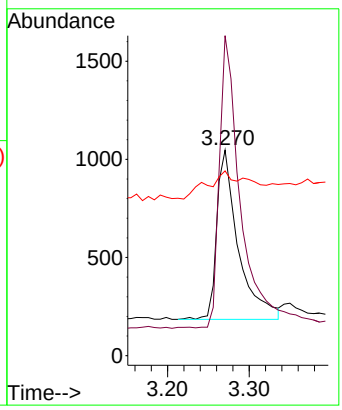


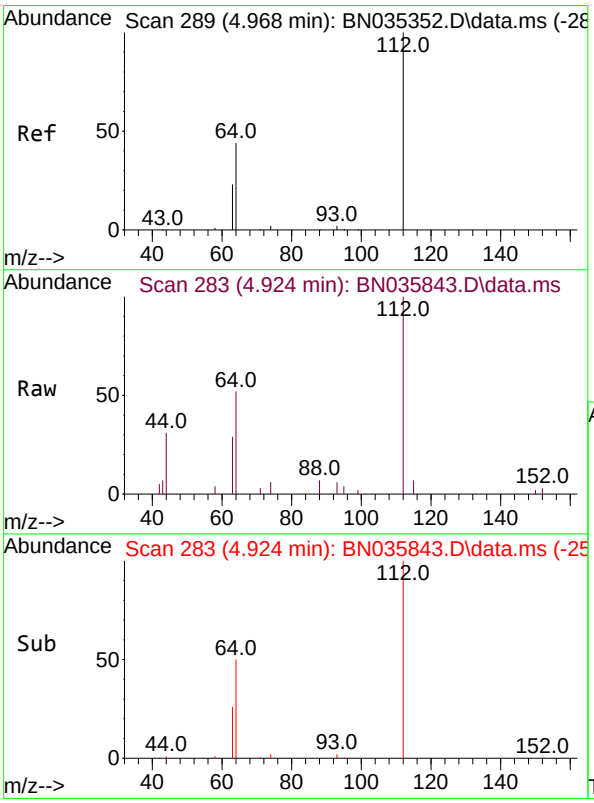

#3
n-Nitrosodimethylamine
Concen: 0.384 ng
RT: 3.270 min Scan# 54
Delta R.T. -0.007 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion: 42 Resp: 1575

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 177.0 | 124.9 | 187.3 |
| 44 | 20.2 | 2.2 | 3.4# |

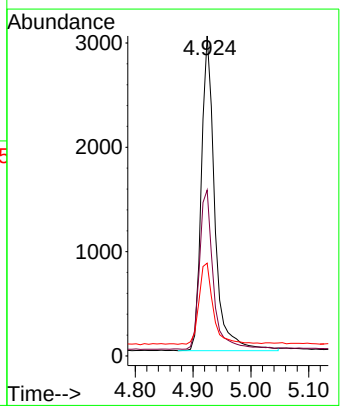


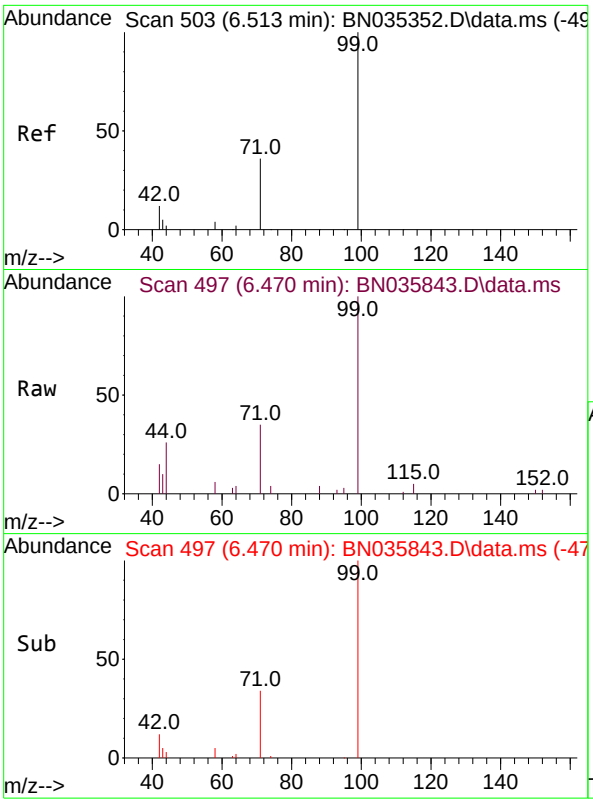




#4
2-Fluorophenol
Concen: 0.378 ng
RT: 4.924 min Scan# 283
Delta R.T. -0.015 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion:112 Resp: 4881

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 52.0 | 39.8 | 59.8 |
| 63 | 27.3 | 21.0 | 31.6 |



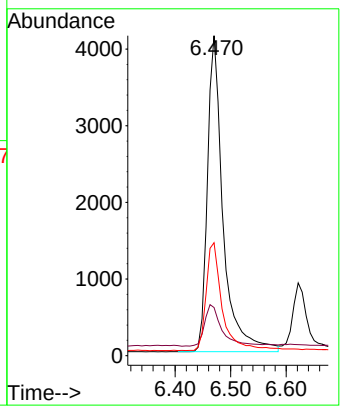


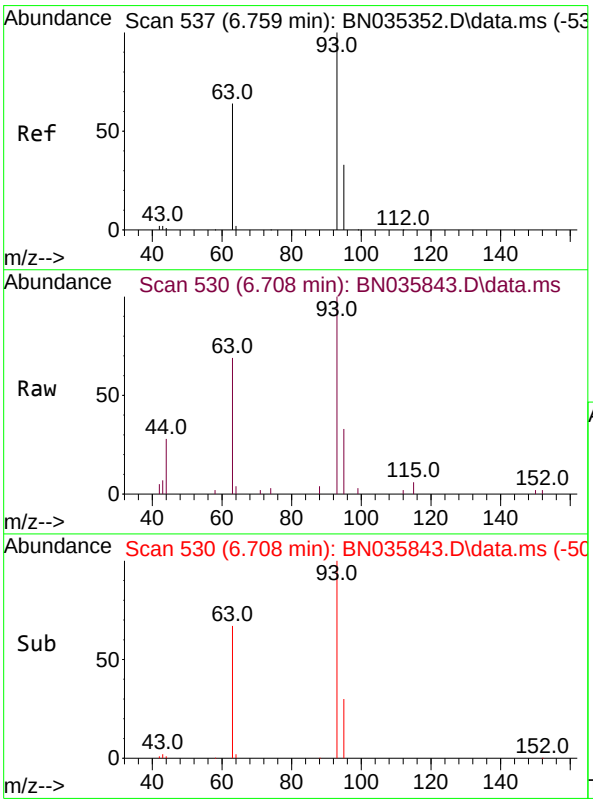

#5
Phenol-d6
Concen: 0.523 ng
RT: 6.470 min Scan# 4
Delta R.T. -0.022 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion: 99 Resp: 8113

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 15.0 | 11.4 | 17.2 |
| 71 | 35.5 | 29.3 | 43.9 |

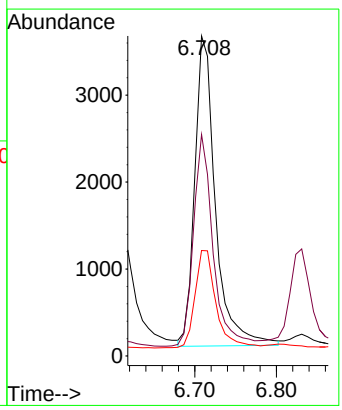


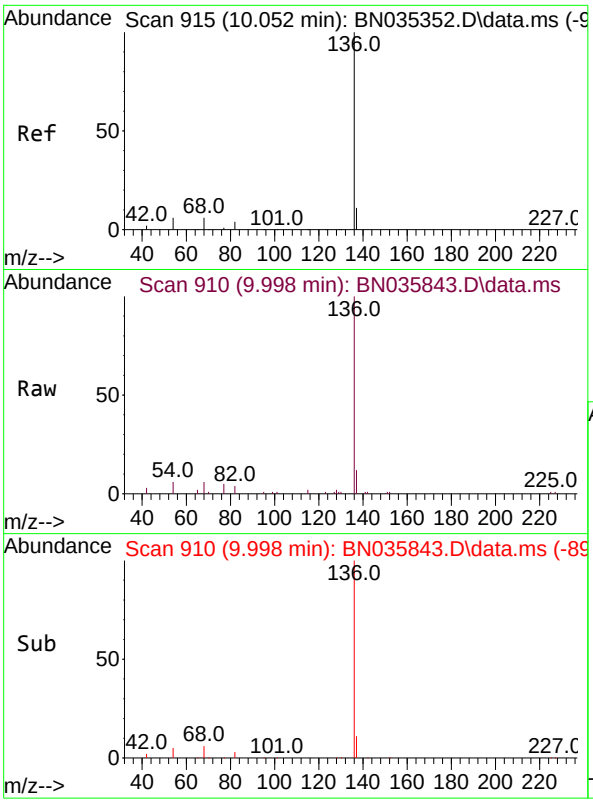




#6
bis(2-Chloroethyl)ether
Concen: 0.483 ng
RT: 6.708 min Scan# 530
Delta R.T. -0.022 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion: 93 Resp: 6304

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 64.6 | 50.4 | 75.6 |
| 95 | 32.1 | 25.7 | 38.5 |



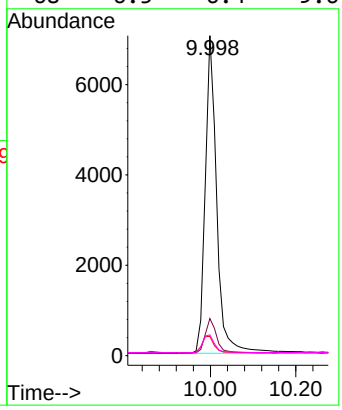


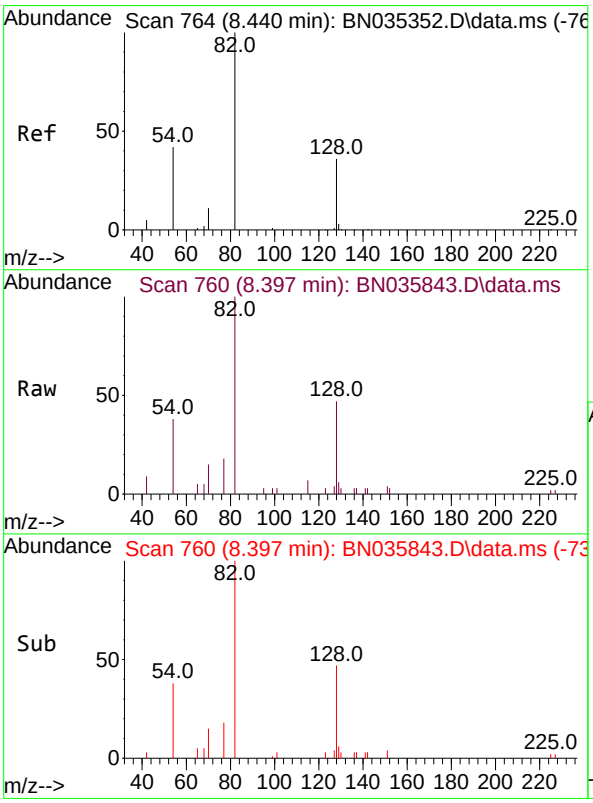

#7
Naphthalene-d8
Concen: 0.400 ng
RT: 9.998 min Scan# 91
Delta R.T. -0.022 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:136 Resp: 13078

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.6 | 10.2 | 15.2 |
| 54 | 6.1 | 6.1 | 9.1# |
| 68 | 6.5 | 6.4 | 9.6 |

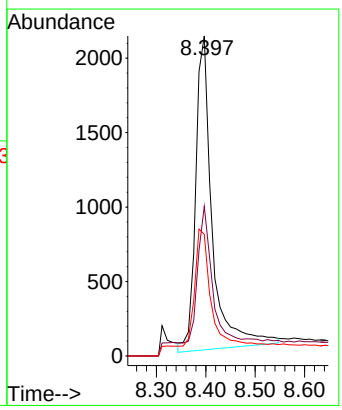


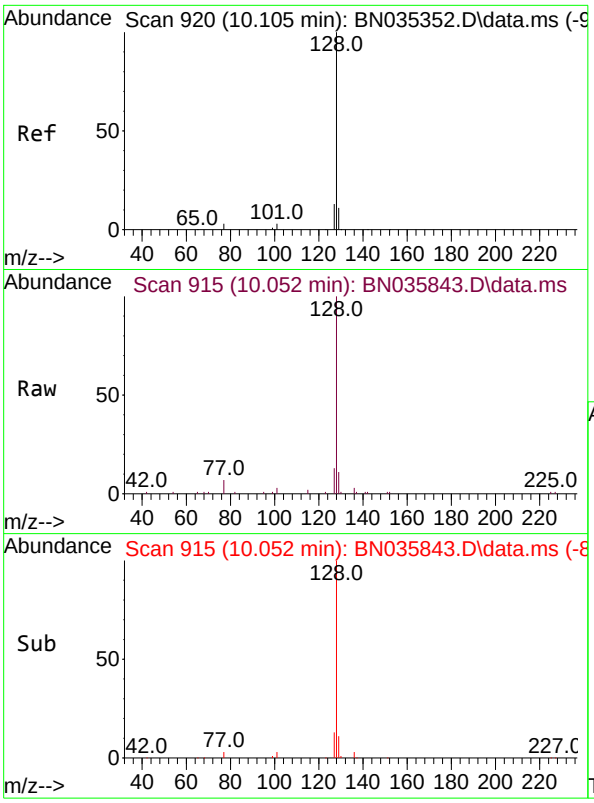




#8
Nitrobenzene-d5
Concen: 0.615 ng
RT: 8.397 min Scan# 760
Delta R.T. -0.011 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion: 82 Resp: 4915

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 46.8 | 33.4 | 50.0 |
| 54 | 38.0 | 36.7 | 55.1 |



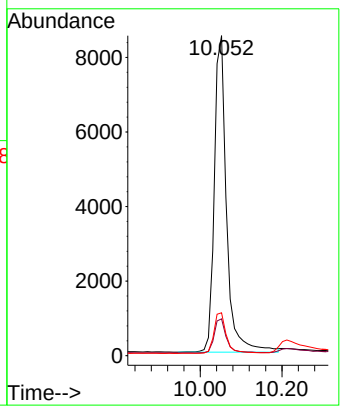


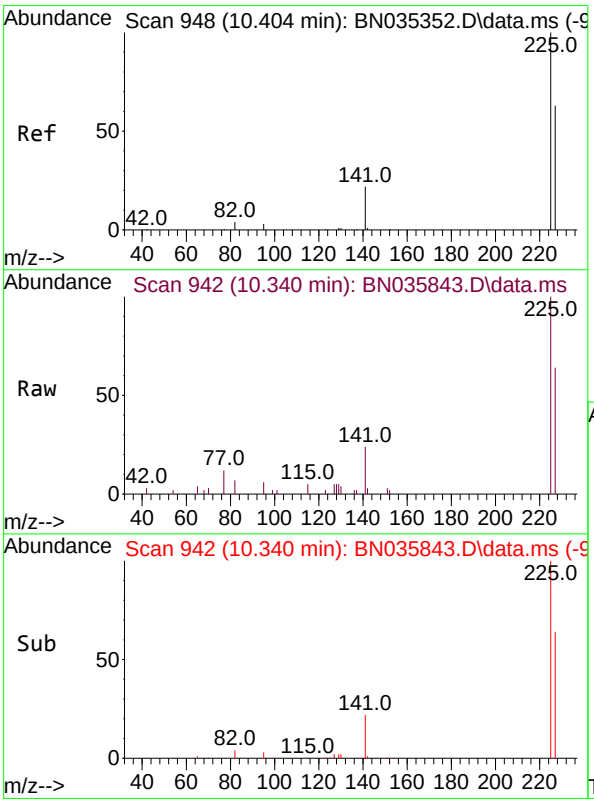

#9
Naphthalene
Concen: 0.511 ng
RT: 10.052 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:128 Resp: 17615

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 11.5 | 9.8 | 14.6 |
| 127 | 13.4 | 11.4 | 17.2 |

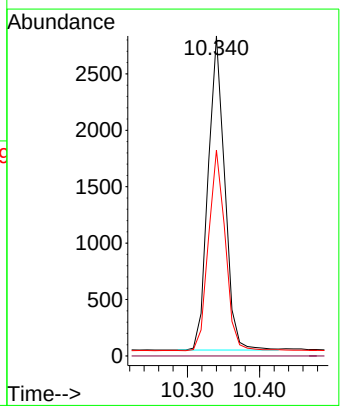


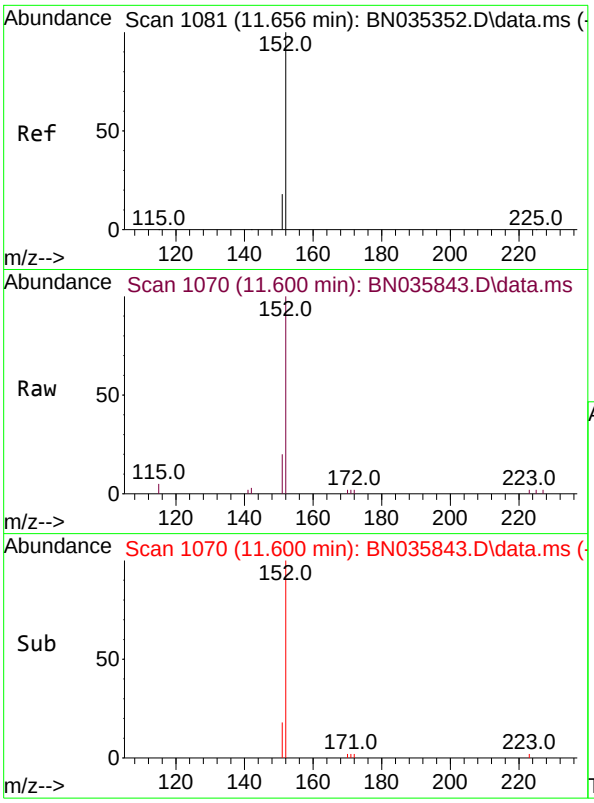




#10
Hexachlorobutadiene
Concen: 0.559 ng
RT: 10.340 min Scan# 942
Delta R.T. -0.022 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion:225 Resp: 4448

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 0.0 | 0.0 | 0.0 |
| 227 | 65.0 | 51.3 | 76.9 |



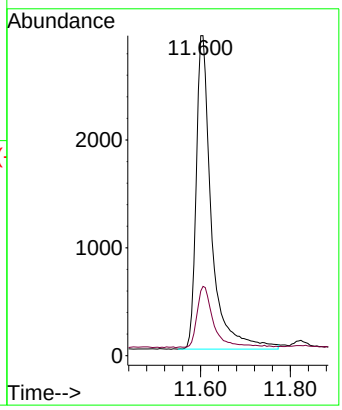


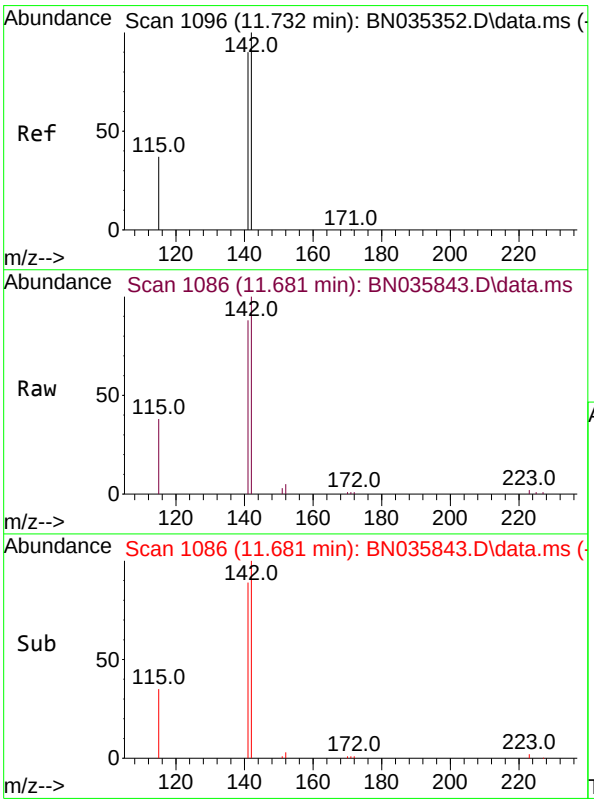

#11
2-Methylnaphthalene-d10
Concen: 0.335 ng
RT: 11.600 min Scan# 1
Delta R.T. -0.020 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:152 Resp: 6864

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.6 | 16.6 | 25.0 |

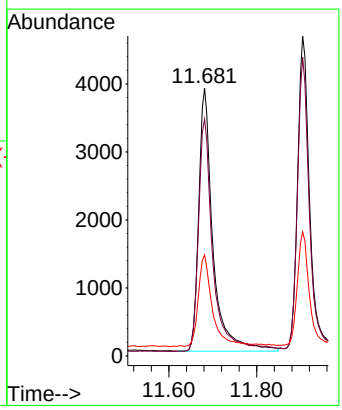


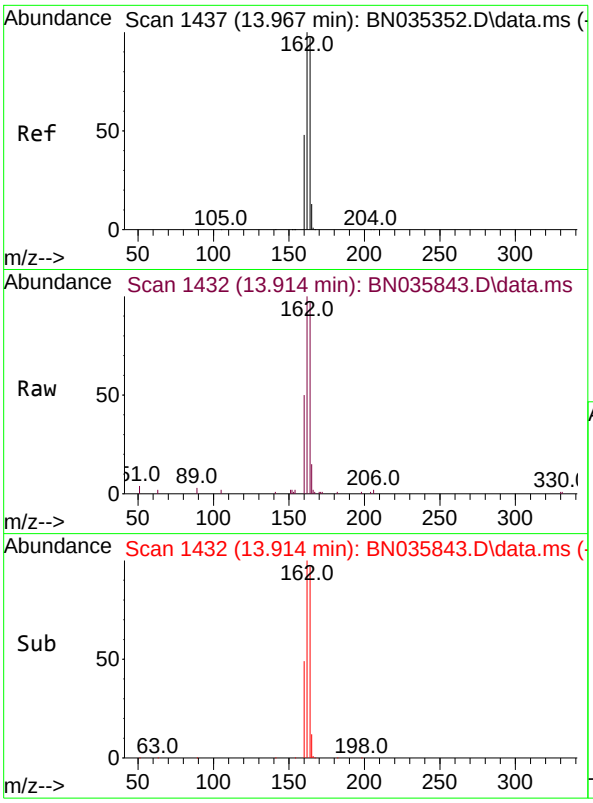




#12
2-Methylnaphthalene
Concen: 0.352 ng
RT: 11.681 min Scan# 1086
Delta R.T. -0.015 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion:142 Resp: 8694

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 88.5 | 72.2 | 108.4 |
| 115 | 37.8 | 31.4 | 47.0 |



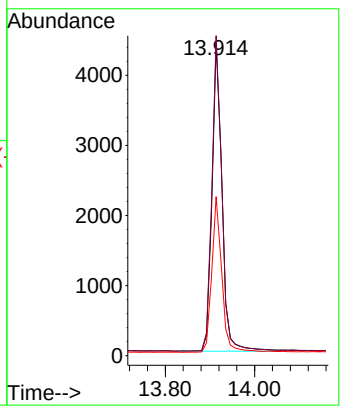


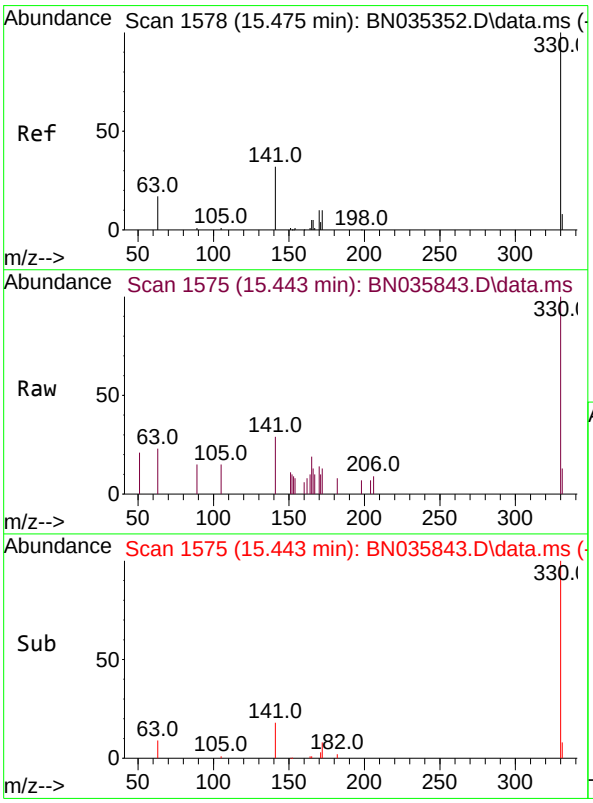

#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.914 min Scan# 14
Delta R.T. -0.022 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:164 Resp: 6801

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 102.7 | 82.2 | 123.2 |
| 160 | 51.0 | 40.1 | 60.1 |

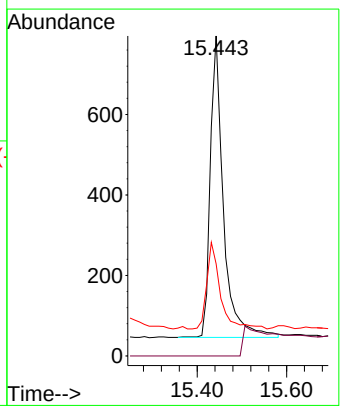


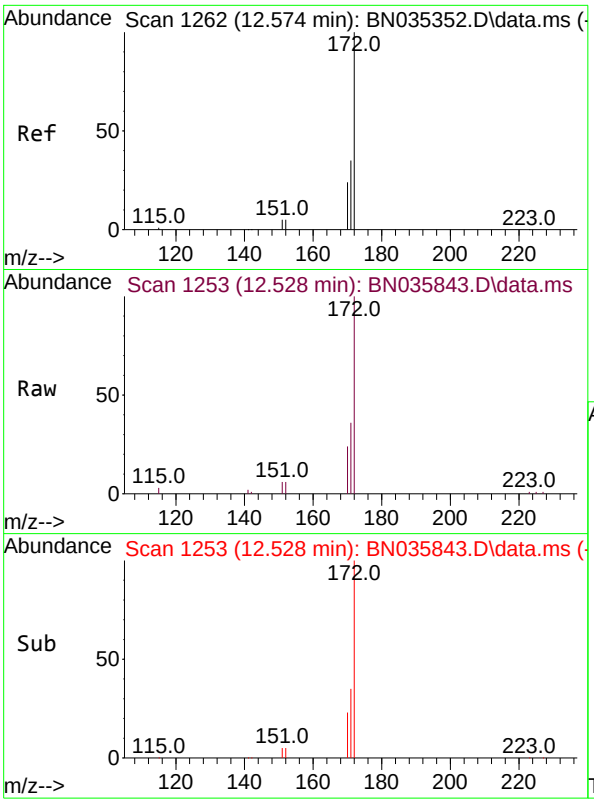




#14
2,4,6-Tribromophenol
Concen: 0.329 ng
RT: 15.443 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion:330 Resp: 1590

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 0.0 | 0.0 | 0.0 |
| 141 | 29.5 | 26.6 | 40.0 |



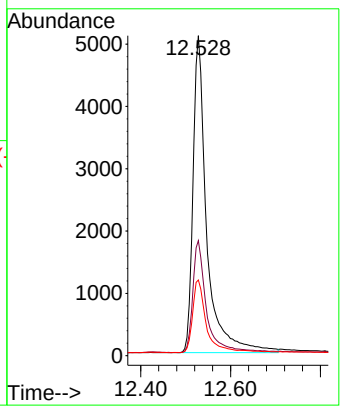


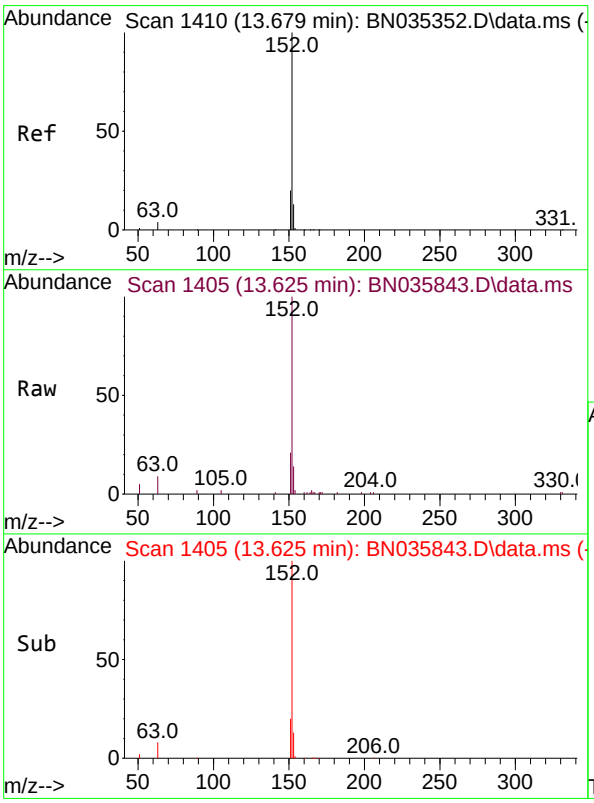

#15
2-Fluorobiphenyl
Concen: 0.421 ng
RT: 12.528 min Scan# 1
Delta R.T. -0.015 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:172 Resp: 10817

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 36.0 | 29.0 | 43.4 |
| 170 | 23.6 | 19.8 | 29.8 |

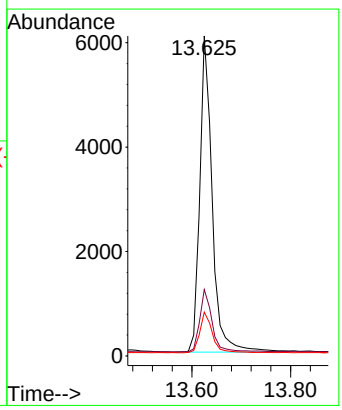


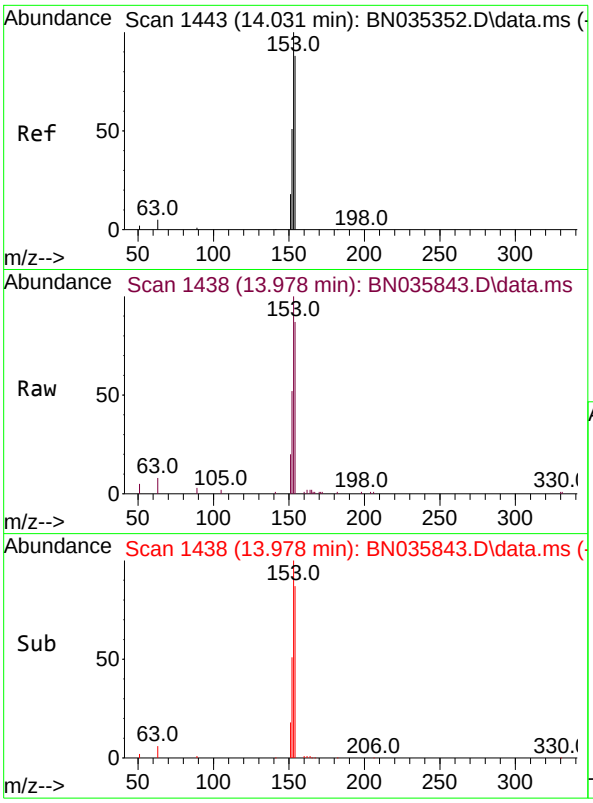




#16
Acenaphthylene
Concen: 0.370 ng
RT: 13.625 min Scan# 1405
Delta R.T. -0.022 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion:152 Resp: 10564

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 19.7 | 16.2 | 24.2 |
| 153 | 13.1 | 10.4 | 15.6 |



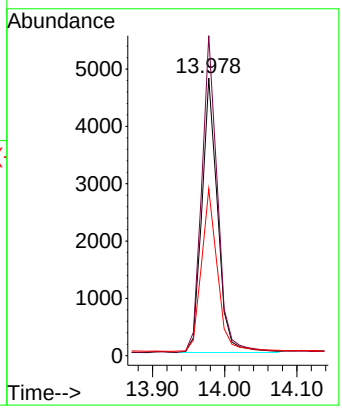


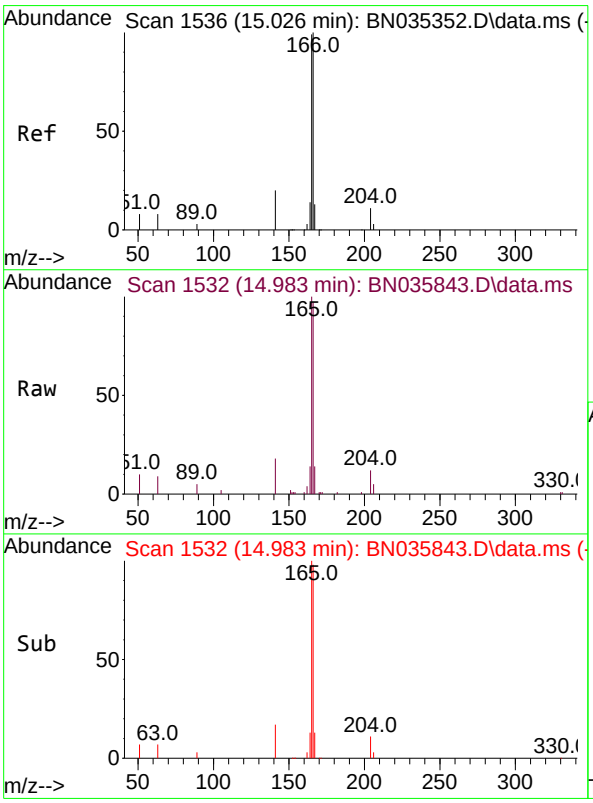

#17
Acenaphthene
Concen: 0.384 ng
RT: 13.978 min Scan# 14
Delta R.T. -0.022 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:154 Resp: 7280

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 116.2 | 92.6 | 139.0 |
| 152 | 60.3 | 49.0 | 73.6 |

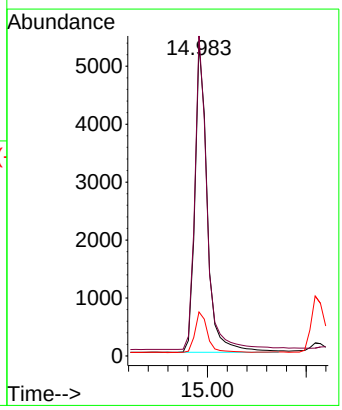


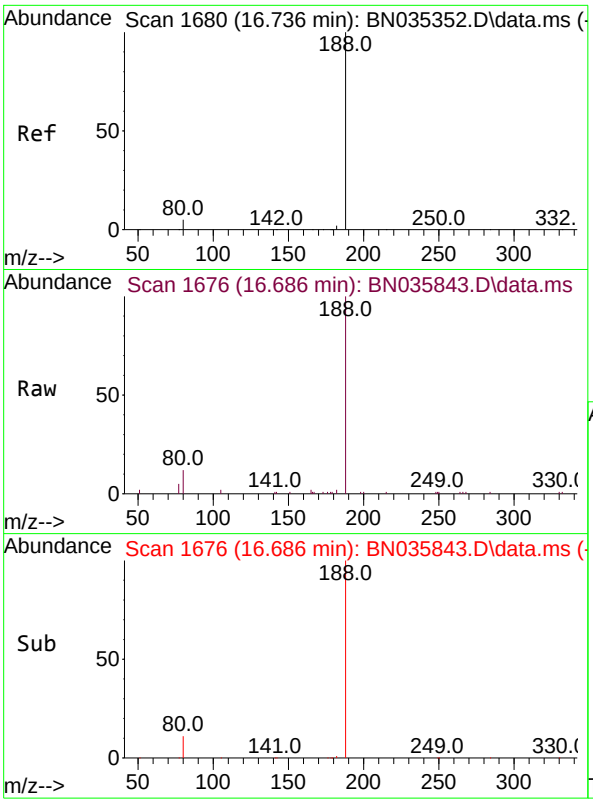




#18
Fluorene
Concen: 0.342 ng
RT: 14.983 min Scan# 1532
Delta R.T. -0.022 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion:166 Resp: 9290

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 99.5 | 79.7 | 119.5 |
| 167 | 13.4 | 10.8 | 16.2 |



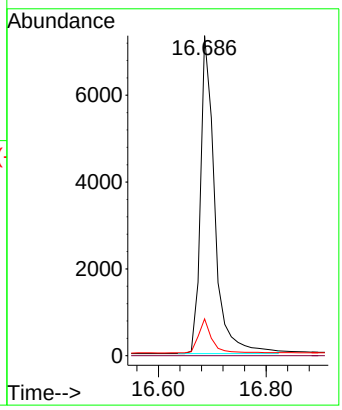


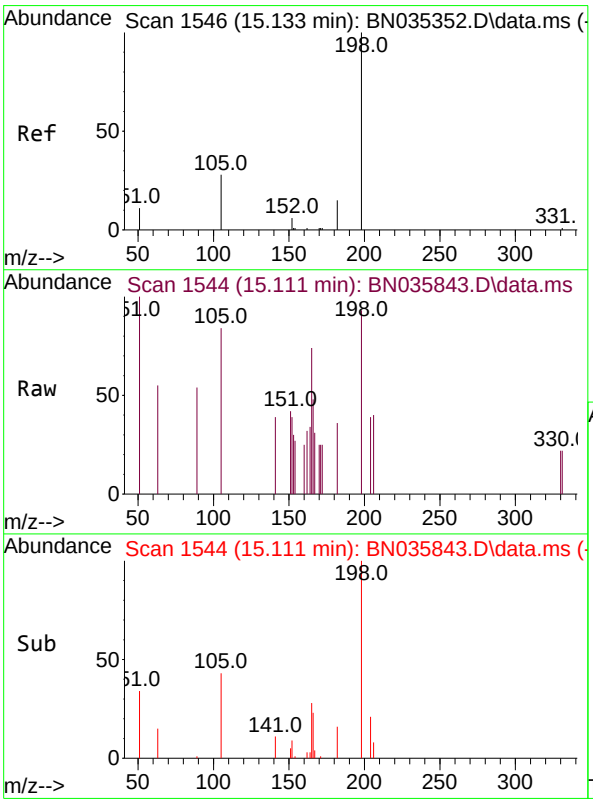

#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.686 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:188 Resp: 13499

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 11.5 | 4.6 | 6.8# |

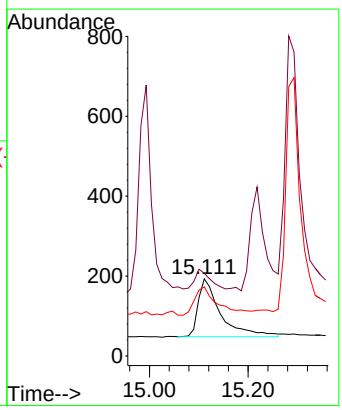


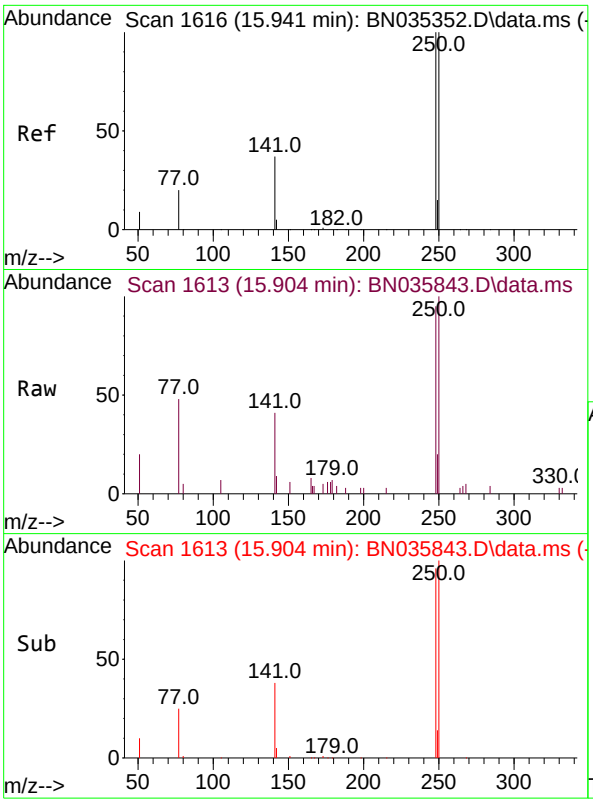




#20
4,6-Dinitro-2-methylphenol
Concen: 0.347 ng
RT: 15.111 min Scan# 1544
Delta R.T. -0.011 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion:198 Resp: 461

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 198 | 100 | | |
| 51 | 107.3 | 46.5 | 69.7# |
| 105 | 89.6 | 45.3 | 67.9# |



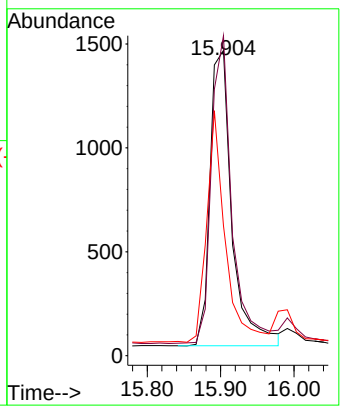


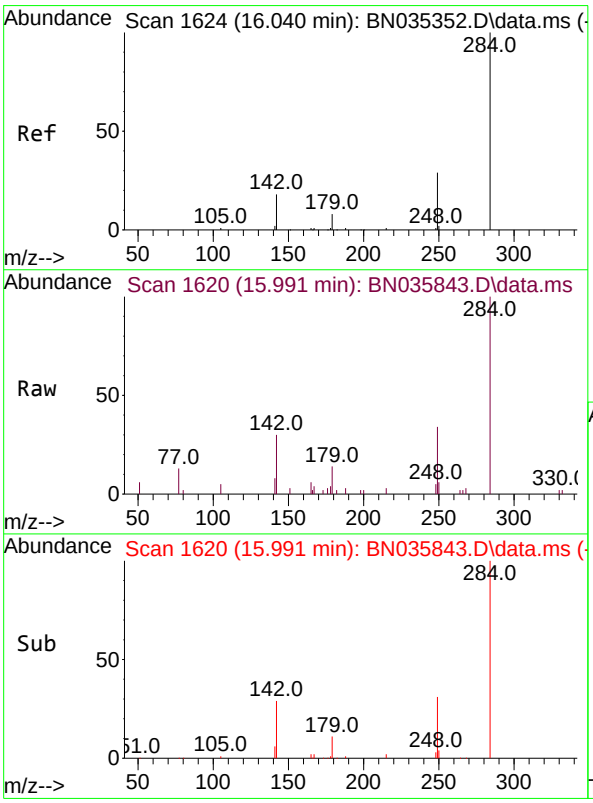

#21
4-Bromophenyl-phenylether
Concen: 0.375 ng
RT: 15.904 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:248 Resp: 2960

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 104.8 | 80.6 | 120.8 |
| 141 | 42.5 | 31.5 | 47.3 |

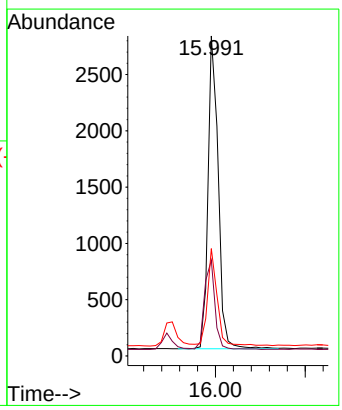


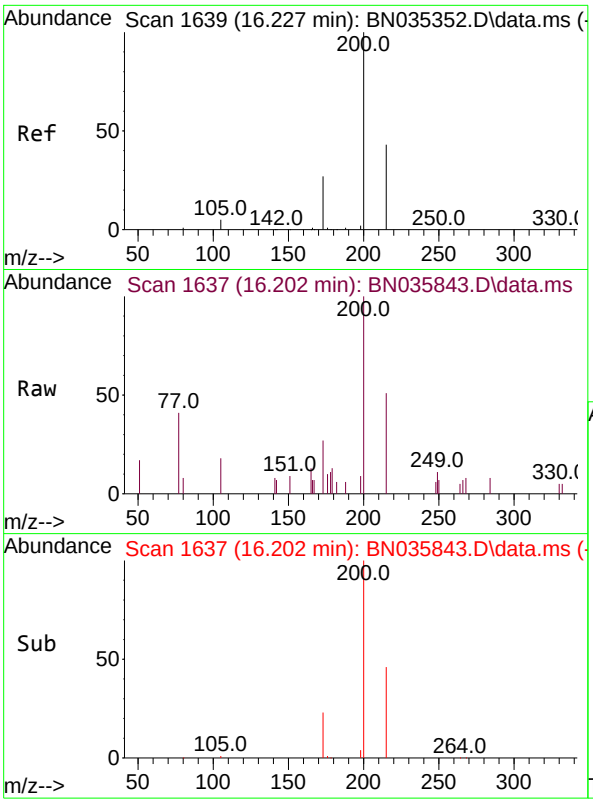




#22
Hexachlorobenzene
Concen: 0.469 ng
RT: 15.991 min Scan# 1620
Delta R.T. -0.025 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion:284 Resp: 4352

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 29.5 | 26.7 | 40.1 |
| 249 | 29.5 | 24.6 | 36.8 |



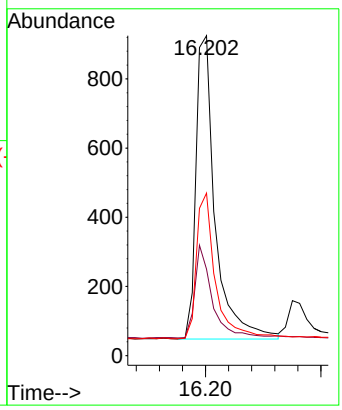


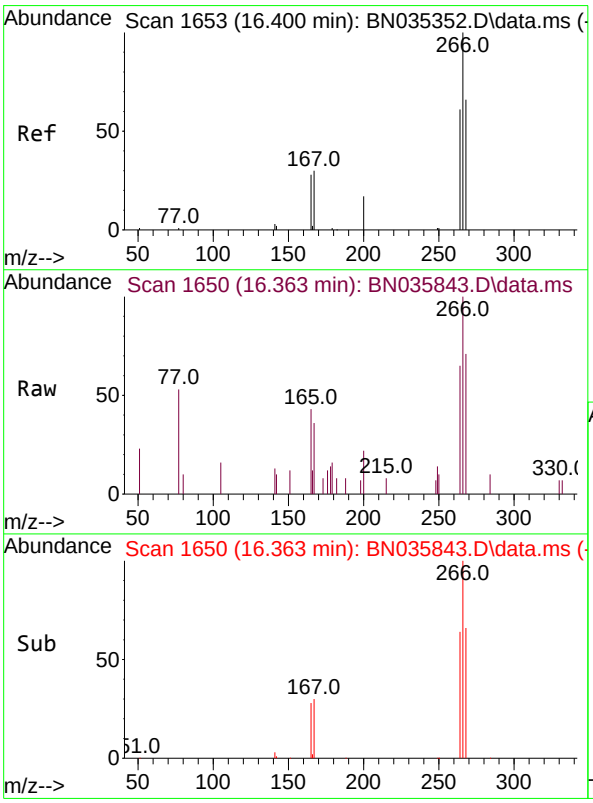

#23
Atrazine
Concen: 0.362 ng
RT: 16.202 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:200 Resp: 2032

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 173 | 27.0 | 24.1 | 36.1 |
| 215 | 50.8 | 36.9 | 55.3 |

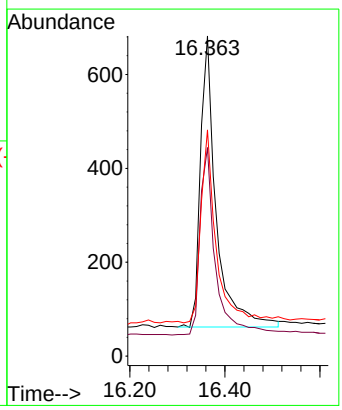


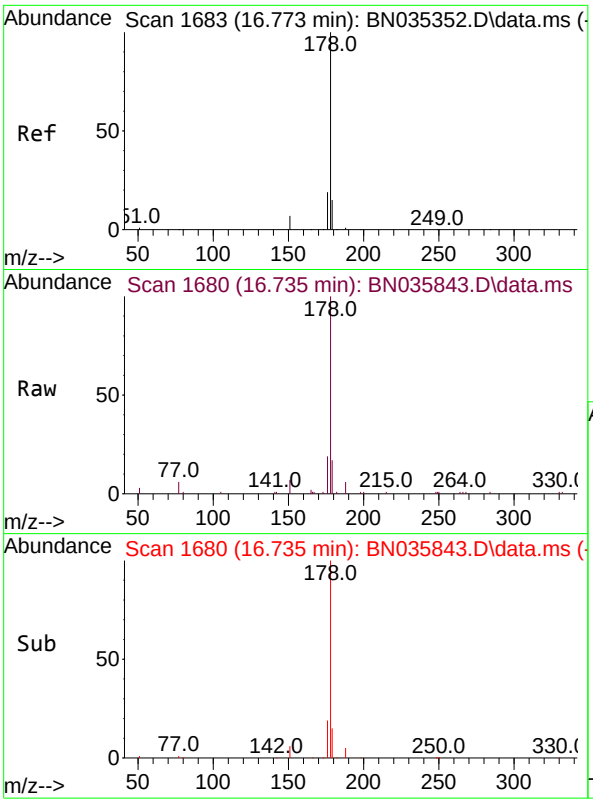




#24
Pentachlorophenol
Concen: 0.355 ng
RT: 16.363 min Scan# 1650
Delta R.T. -0.013 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion:266 Resp: 1431

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 264 | 63.7 | 42.3 | 63.5# |
| 268 | 64.5 | 43.3 | 64.9 |



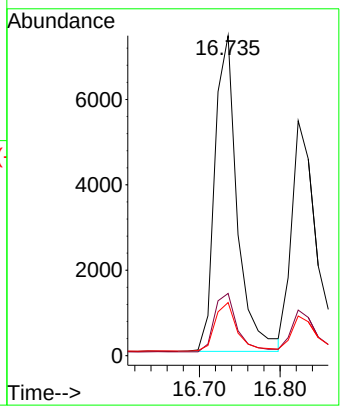


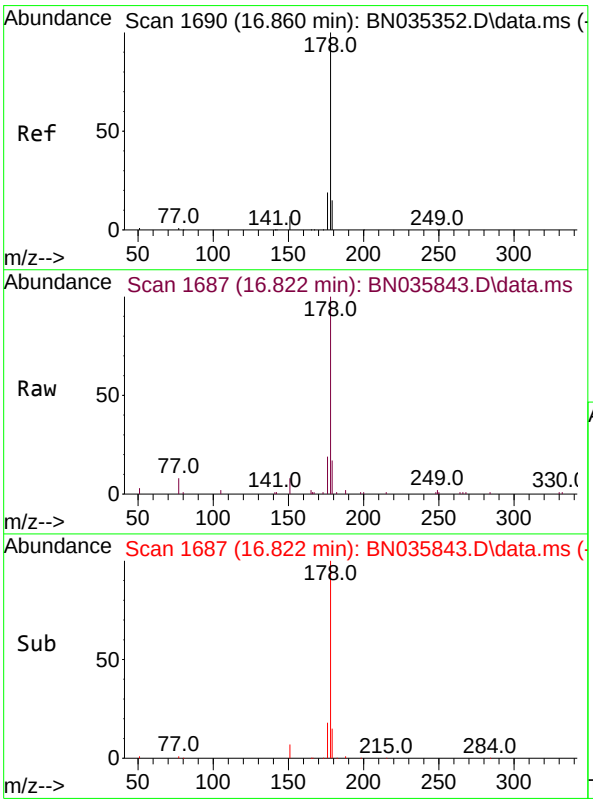

#25
Phenanthrene
Concen: 0.384 ng
RT: 16.735 min Scan# 1(
Delta R.T. -0.013 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:178 Resp: 14253

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.8 | 15.4 | 23.2 |
| 179 | 15.4 | 12.3 | 18.5 |

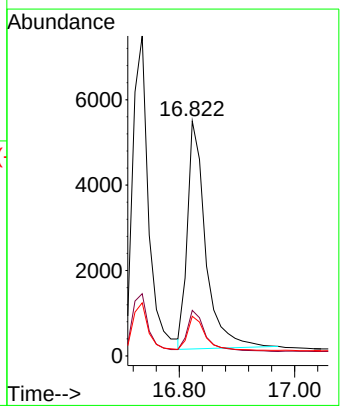


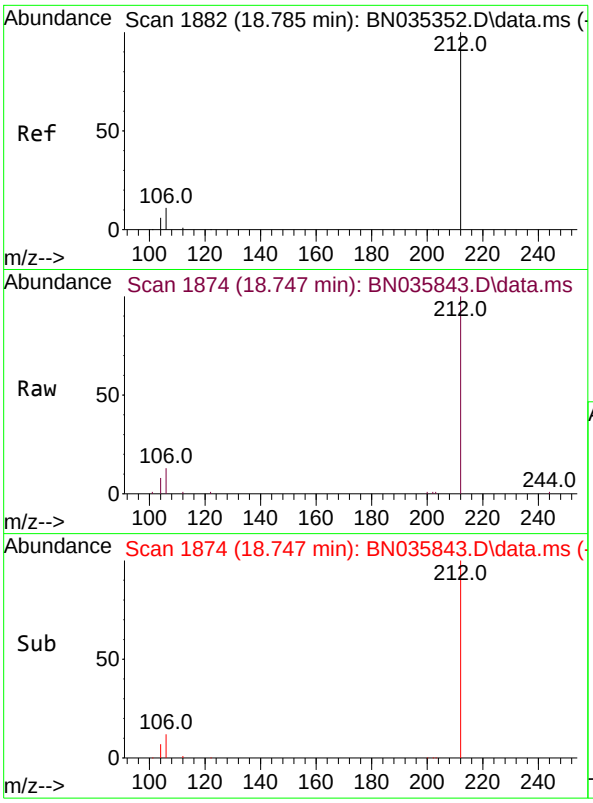




#26
Anthracene
Concen: 0.350 ng
RT: 16.822 min Scan# 1687
Delta R.T. -0.013 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion:178 Resp: 11727

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.5 | 15.0 | 22.6 |
| 179 | 15.0 | 12.6 | 18.8 |



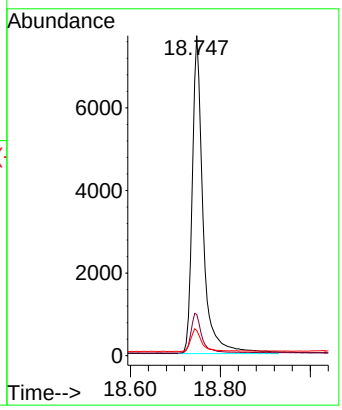


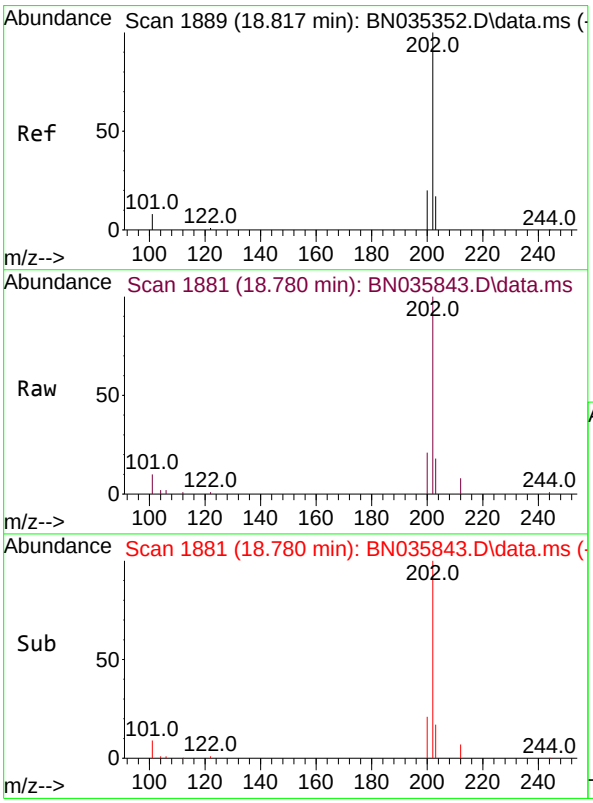

#27
Fluoranthene-d10
Concen: 0.338 ng
RT: 18.747 min Scan# 1
Delta R.T. -0.014 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:212 Resp: 12946

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 12.6 | 9.2 | 13.8 |
| 104 | 7.2 | 5.3 | 7.9 |

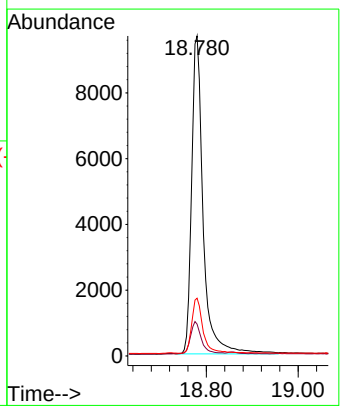


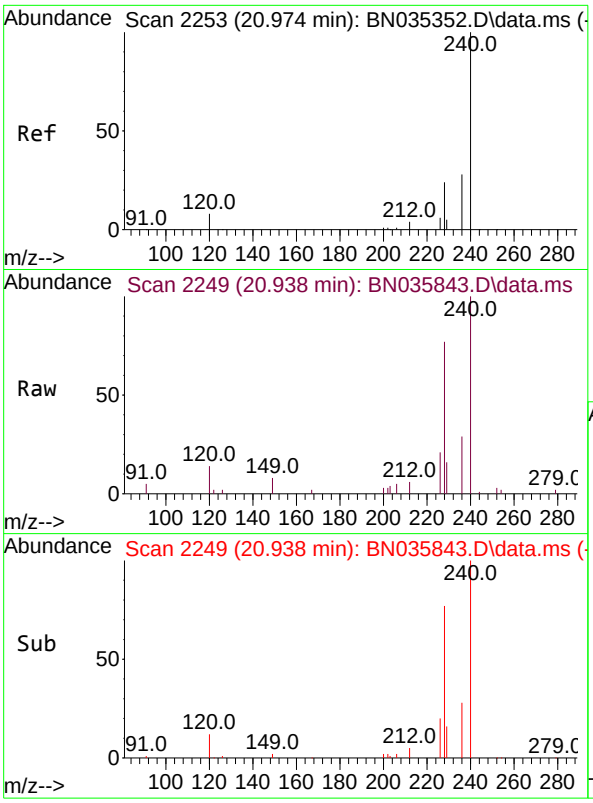




#28
Fluoranthene
Concen: 0.337 ng
RT: 18.780 min Scan# 1881
Delta R.T. -0.009 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion:202 Resp: 16856

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 9.9 | 7.4 | 11.0 |
| 203 | 16.7 | 13.7 | 20.5 |



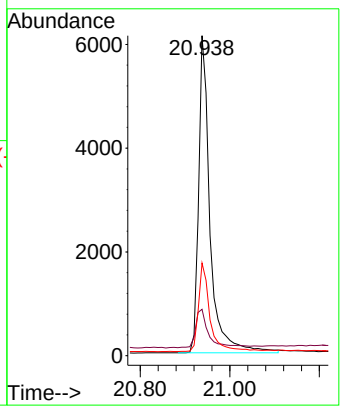


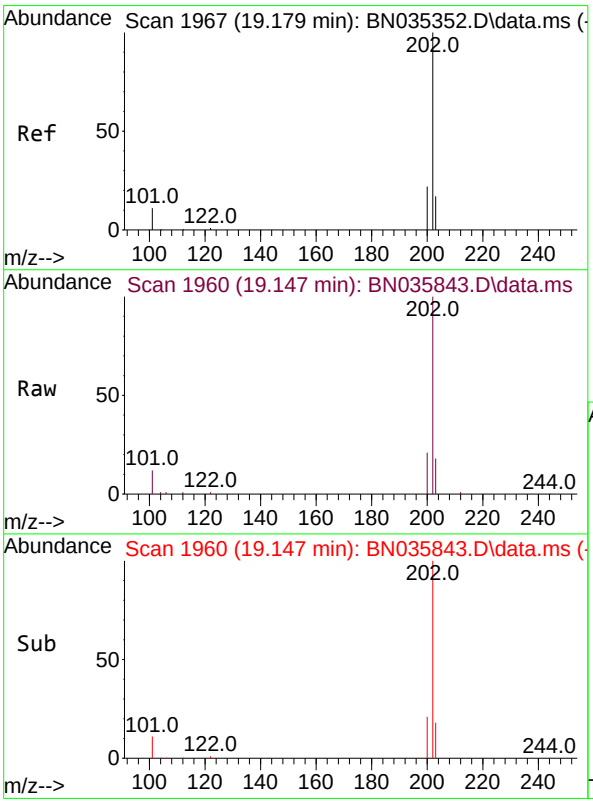

#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.938 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:240 Resp: 10827

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 14.5 | 7.9 | 11.9# |
| 236 | 29.0 | 22.9 | 34.3 |

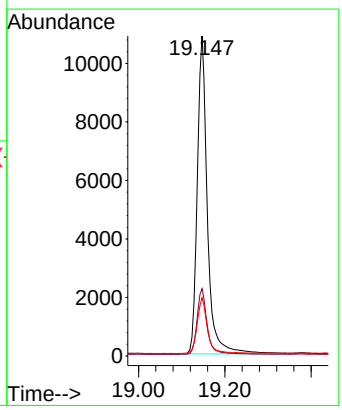


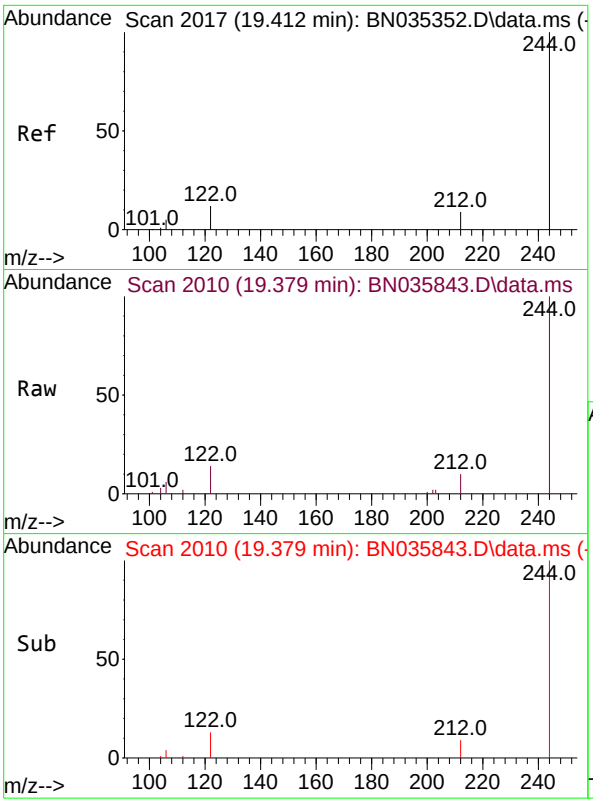




#30
Pyrene
Concen: 0.441 ng
RT: 19.147 min Scan# 1960
Delta R.T. -0.014 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion:202 Resp: 17619

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 20.8 | 17.0 | 25.4 |
| 203 | 17.8 | 14.3 | 21.5 |



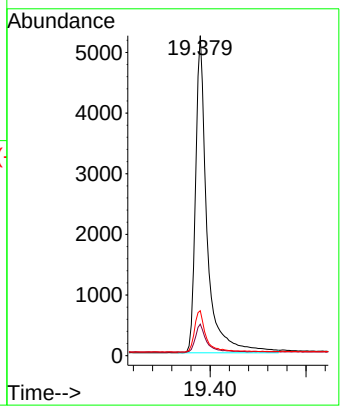


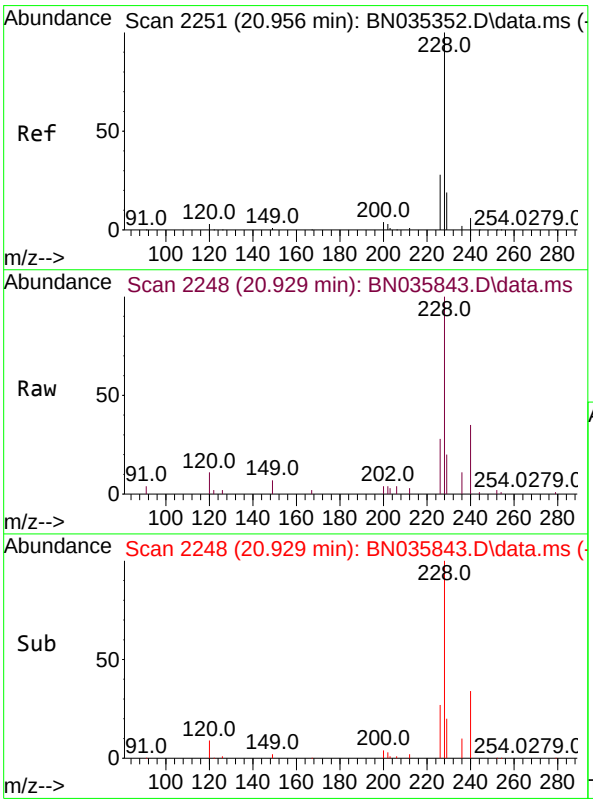

#31
Terphenyl-d14
Concen: 0.411 ng
RT: 19.379 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:244 Resp: 8772

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 9.8 | 8.1 | 12.1 |
| 122 | 14.1 | 10.3 | 15.5 |

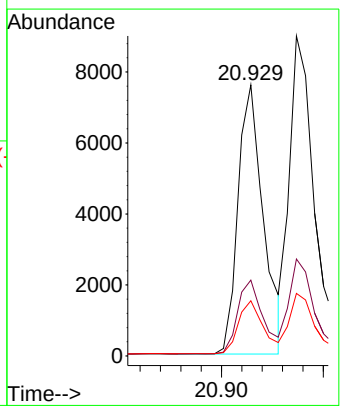


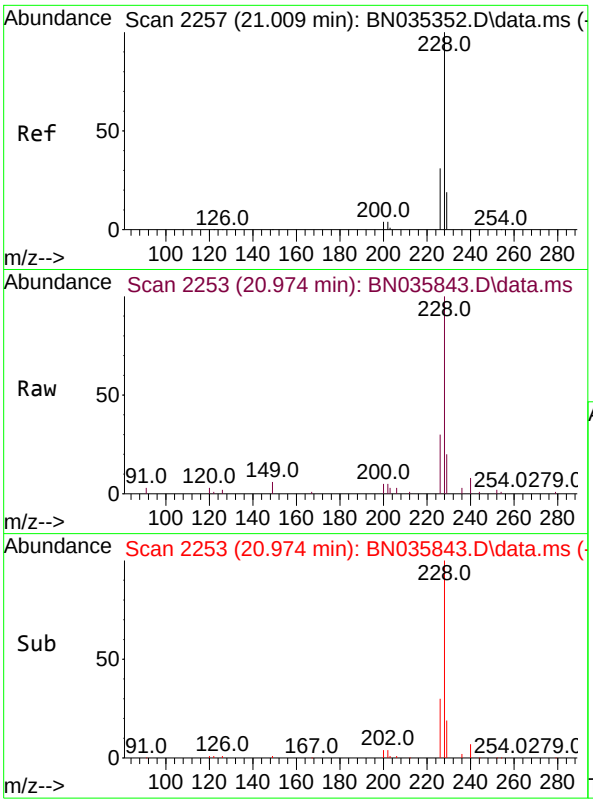




#32
Benzo(a)anthracene
Concen: 0.346 ng
RT: 20.929 min Scan# 2248
Delta R.T. -0.009 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion:228 Resp: 13110

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 28.0 | 22.5 | 33.7 |
| 229 | 20.3 | 15.8 | 23.8 |



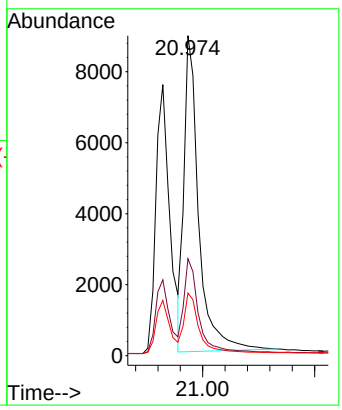


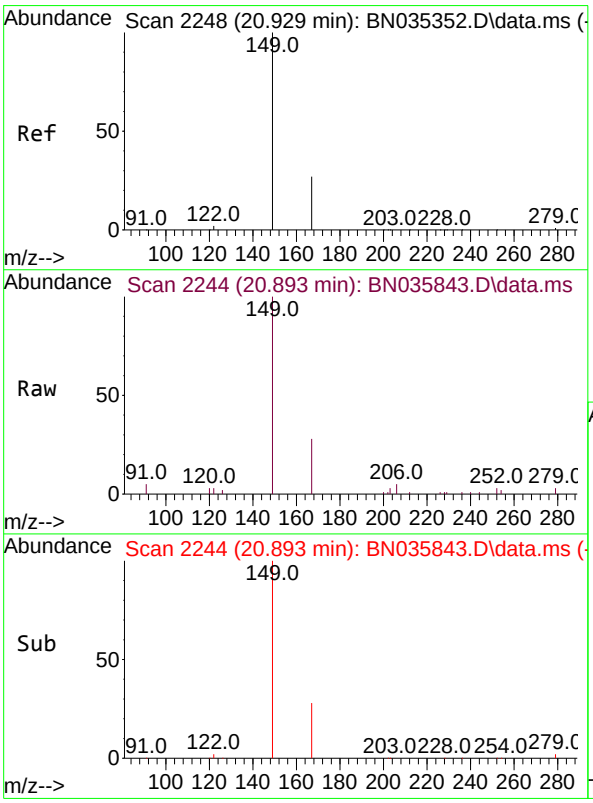

#33
Chrysene
Concen: 0.416 ng
RT: 20.974 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:228 Resp: 16237

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 30.3 | 24.6 | 37.0 |
| 229 | 19.5 | 15.9 | 23.9 |

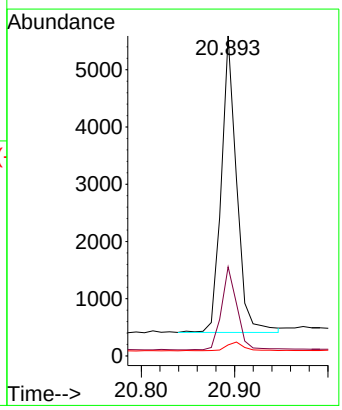


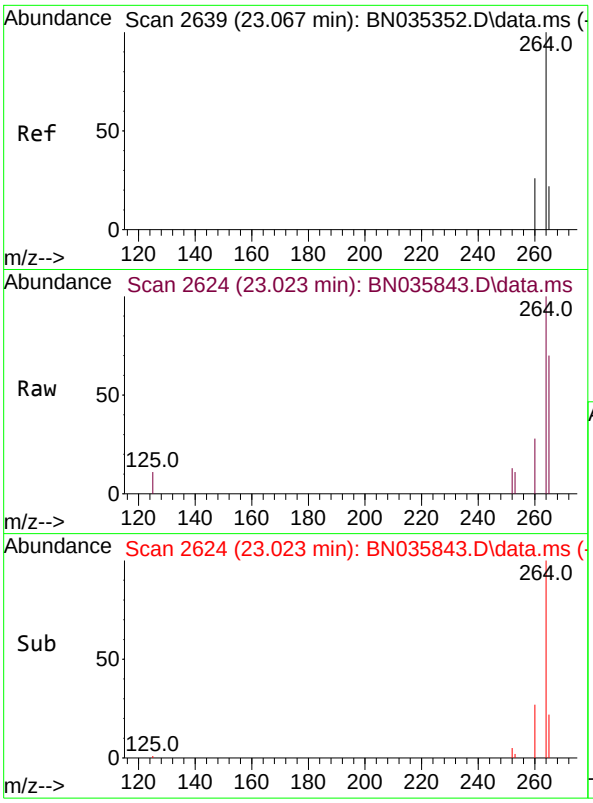




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.397 ng
RT: 20.893 min Scan# 2244
Delta R.T. -0.018 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion:149 Resp: 5933

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 28.1 | 22.2 | 33.4 |
| 279 | 3.5 | 2.7 | 4.1 |



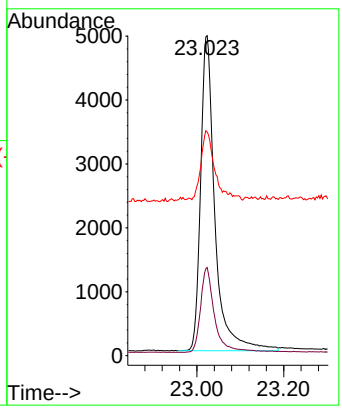


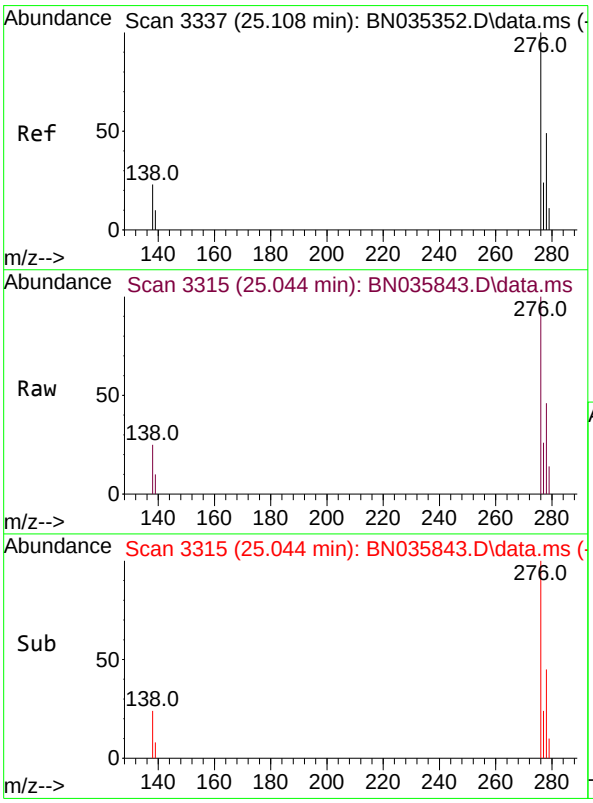

#35
Perylene-d12
Concen: 0.400 ng
RT: 23.023 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:264 Resp: 11272

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 27.5 | 21.4 | 32.2 |
| 265 | 69.9 | 40.2 | 60.4# |

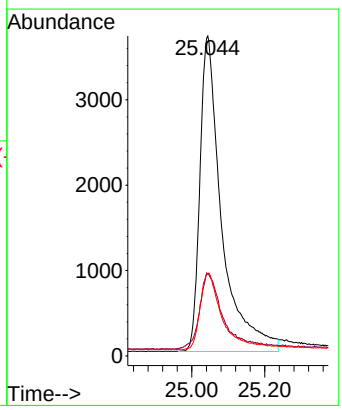


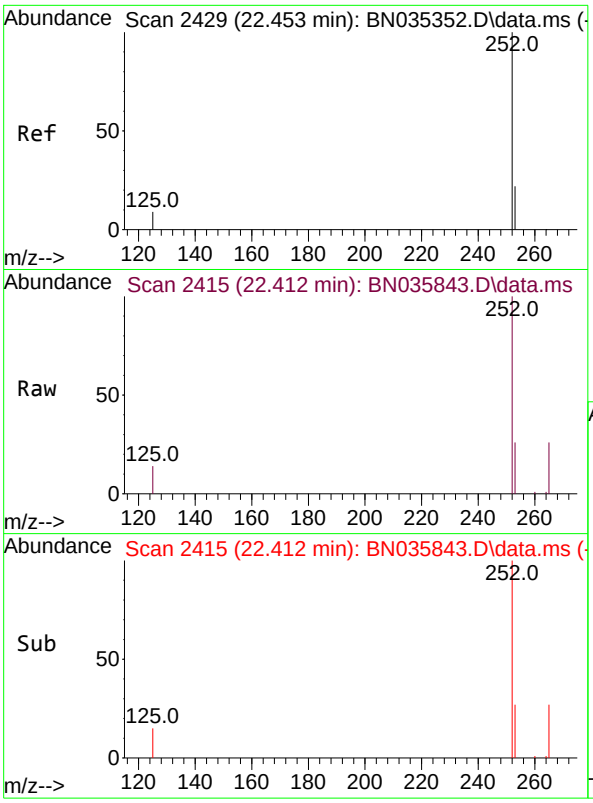




#36
Indeno(1,2,3-cd)pyrene
Concen: 0.348 ng
RT: 25.044 min Scan# 3315
Delta R.T. -0.024 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion:276 Resp: 15331

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 24.4 | 19.4 | 29.0 |
| 277 | 24.2 | 19.8 | 29.6 |



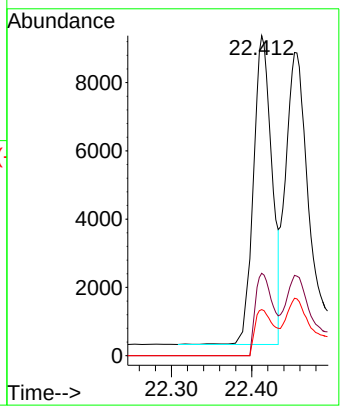


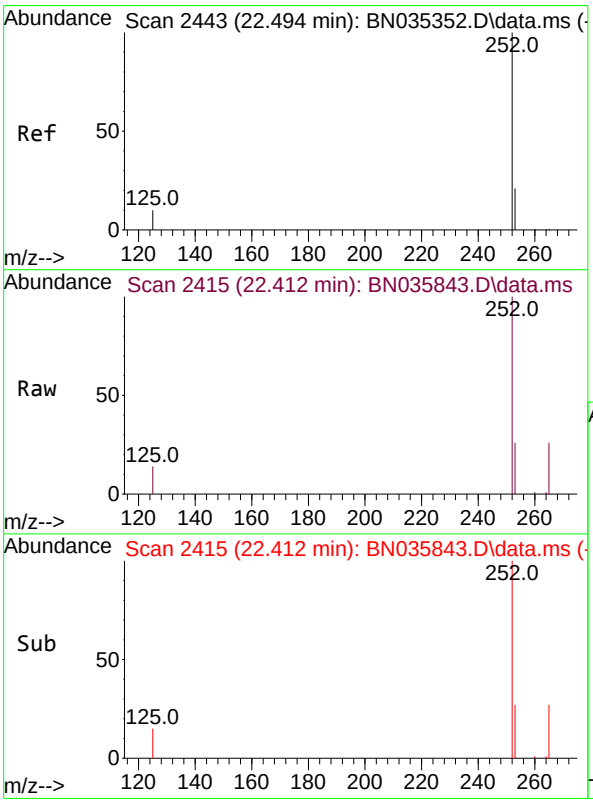

#37
Benzo(b)fluoranthene
Concen: 0.621 ng
RT: 22.412 min Scan# 24
Delta R.T. -0.018 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:252 Resp: 25617

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 25.7 | 19.6 | 29.4 |
| 125 | 14.4 | 9.6 | 14.4# |

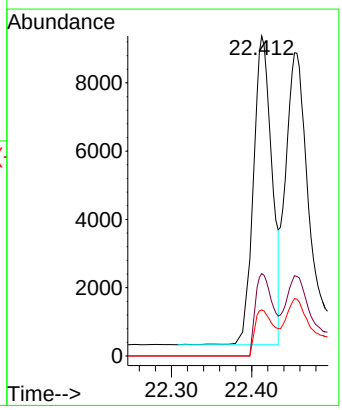


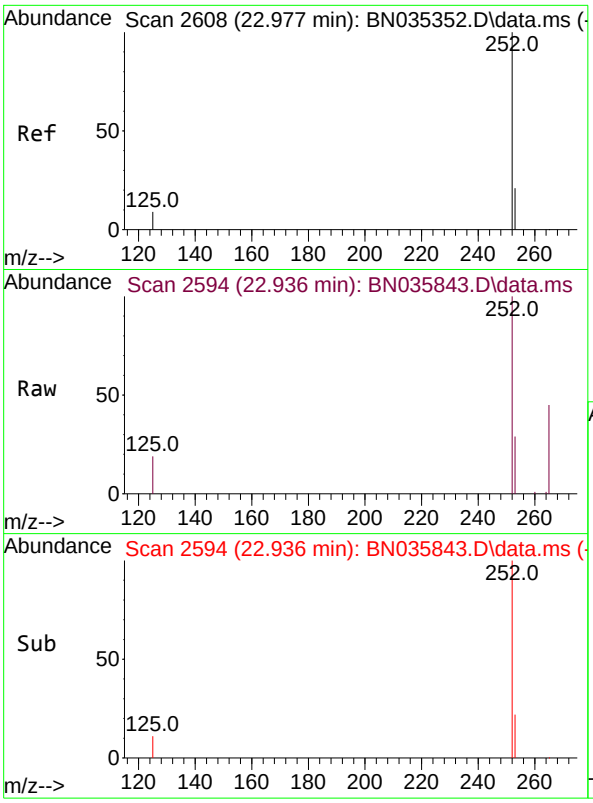




#38
Benzo(k)fluoranthene
Concen: 0.631 ng
RT: 22.412 min Scan# 2415
Delta R.T. -0.059 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion:252 Resp: 25617

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 25.7 | 19.5 | 29.3 |
| 125 | 14.4 | 10.2 | 15.4 |



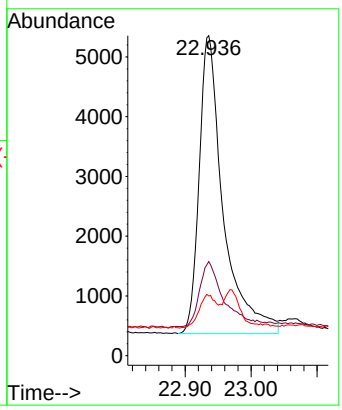


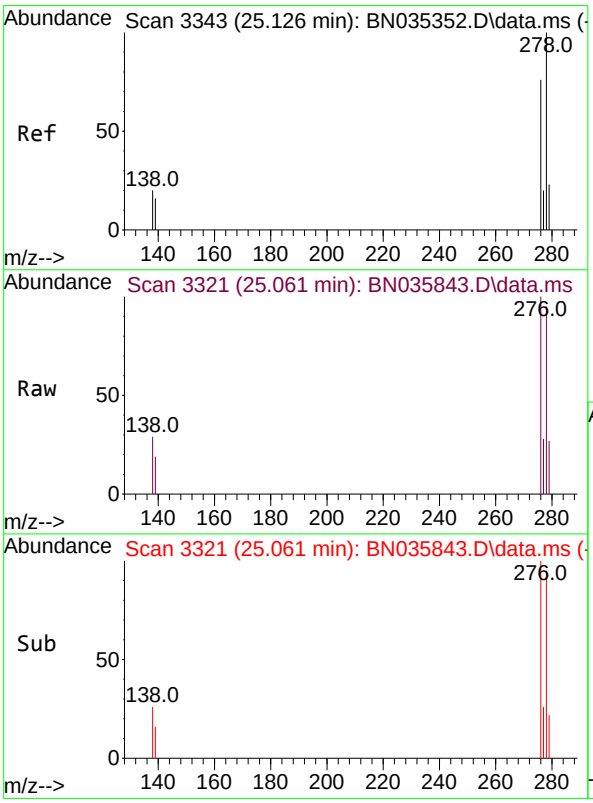

#39
Benzo(a)pyrene
Concen: 0.373 ng
RT: 22.936 min Scan# 2
Delta R.T. -0.015 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:252 Resp: 12667

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 29.4 | 20.2 | 30.4 |
| 125 | 18.6 | 10.9 | 16.3# |

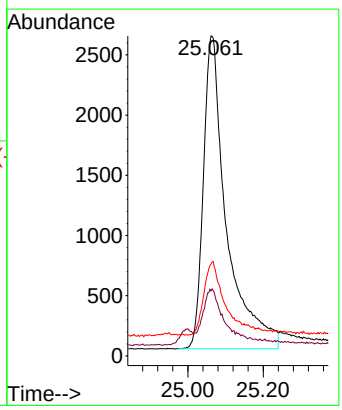


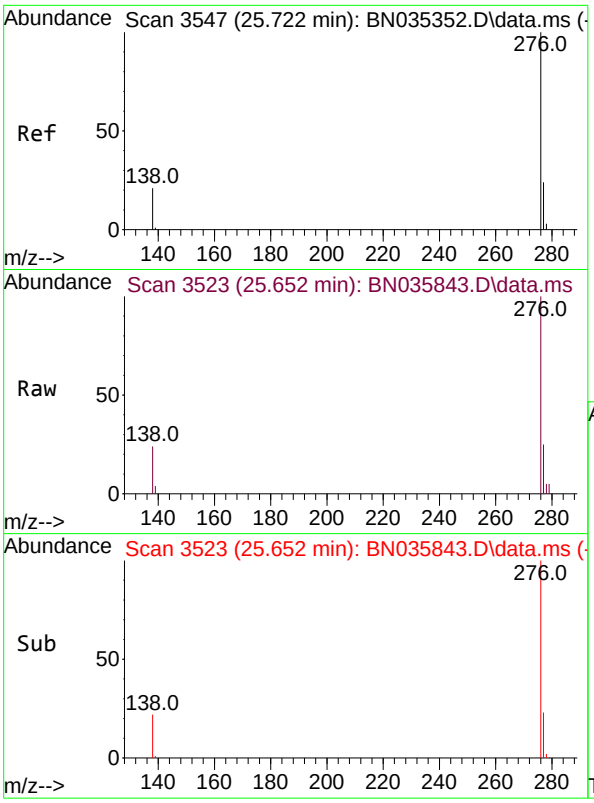




#40
Dibenzo(a,h)anthracene
Concen: 0.320 ng
RT: 25.061 min Scan# 3321
Delta R.T. -0.021 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion:278 Resp: 11116

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 20.4 | 14.2 | 21.4 |
| 279 | 28.7 | 20.5 | 30.7 |



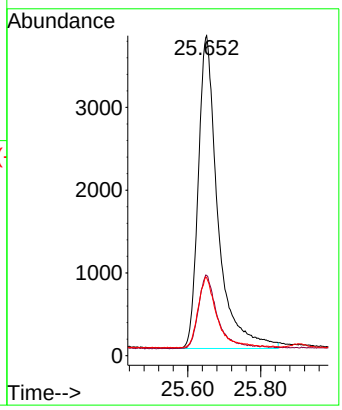



#41
Benzo(g,h,i)perylene
Concen: 0.387 ng
RT: 25.652 min Scan# 3
Delta R.T. -0.027 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:276 Resp: 14070

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 25.1 | 19.9 | 29.9 |
| 138 | 24.3 | 17.8 | 26.8 |



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
Data File : BN035845.D
Acq On : 26 Dec 2024 09:58
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Quant Time: Dec 27 00:40:11 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

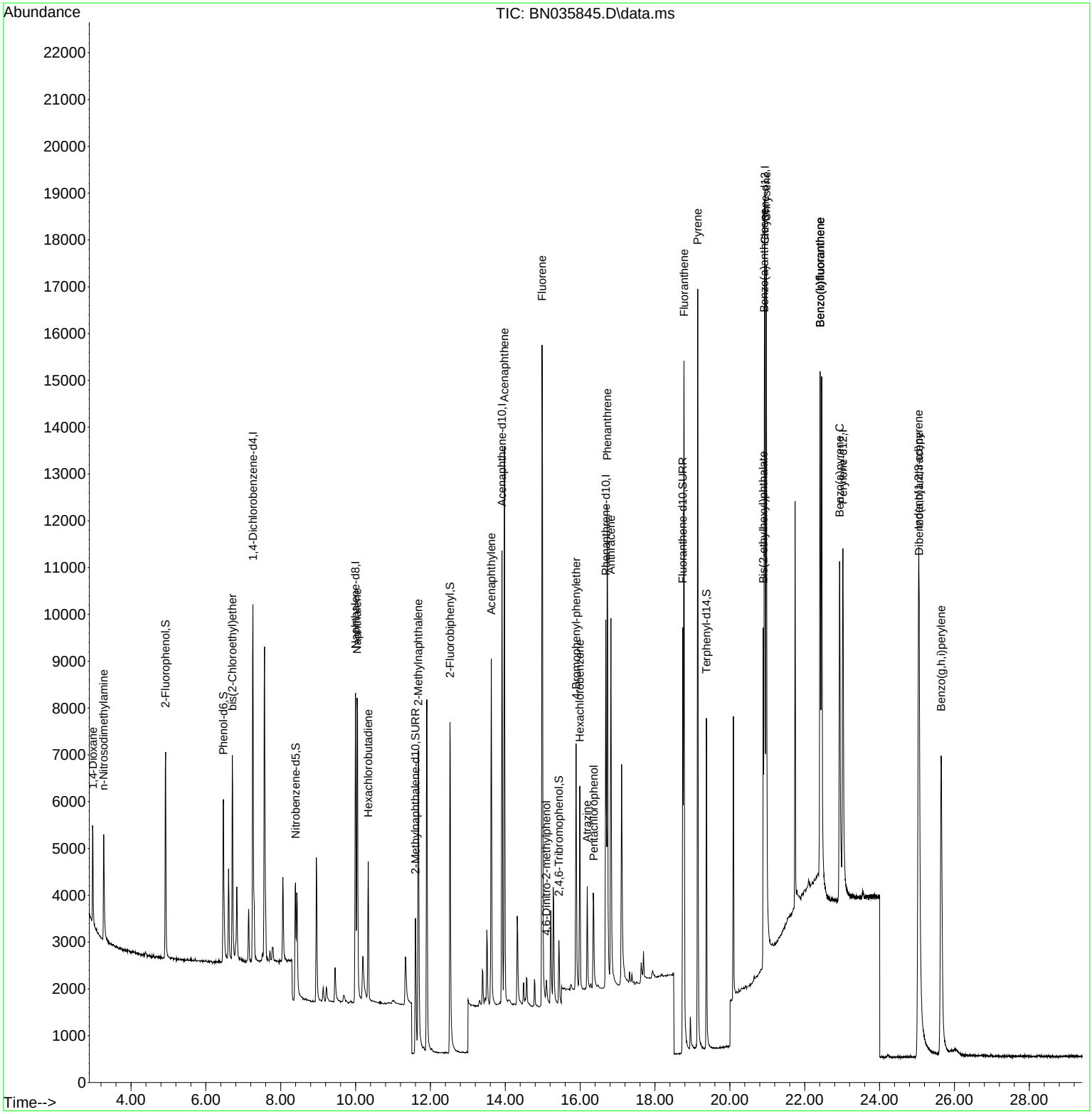
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.257 | 152 | 3755 | 0.400 | ng | | -0.01 |
| 7) Naphthalene-d8 | 9.999 | 136 | 9322 | 0.400 | ng | | #-0.02 |
| 13) Acenaphthene-d10 | 13.914 | 164 | 5387 | 0.400 | ng | | -0.02 |
| 19) Phenanthrene-d10 | 16.686 | 188 | 11262 | 0.400 | ng | | #-0.01 |
| 29) Chrysene-d12 | 20.938 | 240 | 9932 | 0.400 | ng | | #-0.02 |
| 35) Perylene-d12 | 23.021 | 264 | 10817 | 0.400 | ng | | #-0.02 |
| System Monitoring Compounds | | | | | | | |
| 4) 2-Fluorophenol | 4.924 | 112 | 3777 | 0.402 | ng | | -0.01 |
| 5) Phenol-d6 | 6.470 | 99 | 4175 | 0.369 | ng | | -0.02 |
| 8) Nitrobenzene-d5 | 8.397 | 82 | 3148 | 0.553 | ng | | -0.01 |
| 11) 2-Methylnaphthalene-d10 | 11.600 | 152 | 5080 | 0.348 | ng | | -0.02 |
| 14) 2,4,6-Tribromophenol | 15.432 | 330 | 1338 | 0.350 | ng | | -0.02 |
| 15) 2-Fluorobiphenyl | 12.523 | 172 | 8104 | 0.398 | ng | | -0.02 |
| 27) Fluoranthene-d10 | 18.743 | 212 | 11161 | 0.350 | ng | | -0.02 |
| 31) Terphenyl-d14 | 19.375 | 244 | 7783 | 0.397 | ng | | -0.01 |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 2.982 | 88 | 1520 | 0.423 | ng | | 97 |
| 3) n-Nitrosodimethylamine | 3.270 | 42 | 1223 | 0.409 | ng | # | 82 |
| 6) bis(2-Chloroethyl)ether | 6.708 | 93 | 3599 | 0.379 | ng | | 99 |
| 9) Naphthalene | 10.041 | 128 | 9440 | 0.384 | ng | | 100 |
| 10) Hexachlorobutadiene | 10.340 | 225 | 2352 | 0.415 | ng | # | 99 |
| 12) 2-Methylnaphthalene | 11.676 | 142 | 5939 | 0.337 | ng | | 98 |
| 16) Acenaphthylene | 13.625 | 152 | 8340 | 0.369 | ng | | 100 |
| 17) Acenaphthene | 13.978 | 154 | 5695 | 0.379 | ng | | 99 |
| 18) Fluorene | 14.983 | 166 | 7523 | 0.350 | ng | | 99 |
| 20) 4,6-Dinitro-2-methylph... | 15.100 | 198 | 526 | 0.475 | ng | # | 39 |
| 21) 4-Bromophenyl-phenylether | 15.891 | 248 | 2443 | 0.371 | ng | # | 87 |
| 22) Hexachlorobenzene | 15.991 | 284 | 3482 | 0.450 | ng | | 95 |
| 23) Atrazine | 16.189 | 200 | 1843 | 0.393 | ng | | 97 |
| 24) Pentachlorophenol | 16.363 | 266 | 1383 | 0.411 | ng | | 87 |
| 25) Phenanthrene | 16.723 | 178 | 11602 | 0.375 | ng | | 100 |
| 26) Anthracene | 16.822 | 178 | 10005 | 0.358 | ng | | 100 |
| 28) Fluoranthene | 18.775 | 202 | 14489 | 0.347 | ng | | 98 |
| 30) Pyrene | 19.142 | 202 | 15278 | 0.417 | ng | | 100 |
| 32) Benzo(a)anthracene | 20.920 | 228 | 12798 | 0.368 | ng | | 100 |
| 33) Chrysene | 20.974 | 228 | 14214 | 0.397 | ng | | 100 |
| 34) Bis(2-ethylhexyl)phtha... | 20.893 | 149 | 6282 | 0.458 | ng | | 100 |
| 36) Indeno(1,2,3-cd)pyrene | 25.041 | 276 | 15946 | 0.377 | ng | | 97 |
| 37) Benzo(b)fluoranthene | 22.412 | 252 | 19565 | 0.494 | ng | # | 96 |
| 38) Benzo(k)fluoranthene | 22.412 | 252 | 19565 | 0.502 | ng | | 96 |
| 39) Benzo(a)pyrene | 22.933 | 252 | 12458 | 0.382 | ng | # | 92 |
| 40) Dibenzo(a,h)anthracene | 25.058 | 278 | 12678 | 0.380 | ng | | 96 |
| 41) Benzo(g,h,i)perylene | 25.646 | 276 | 14614 | 0.419 | ng | | 98 |

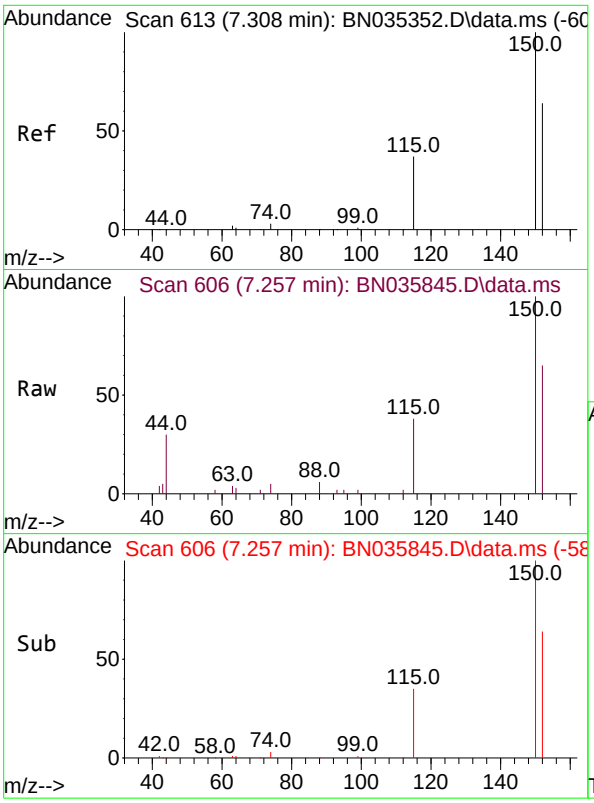
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
Data File : BN035845.D
Acq On : 26 Dec 2024 09:58
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Quant Time: Dec 27 00:40:11 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



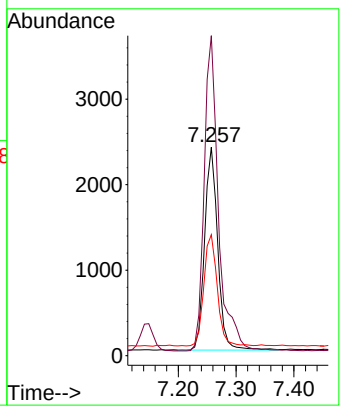


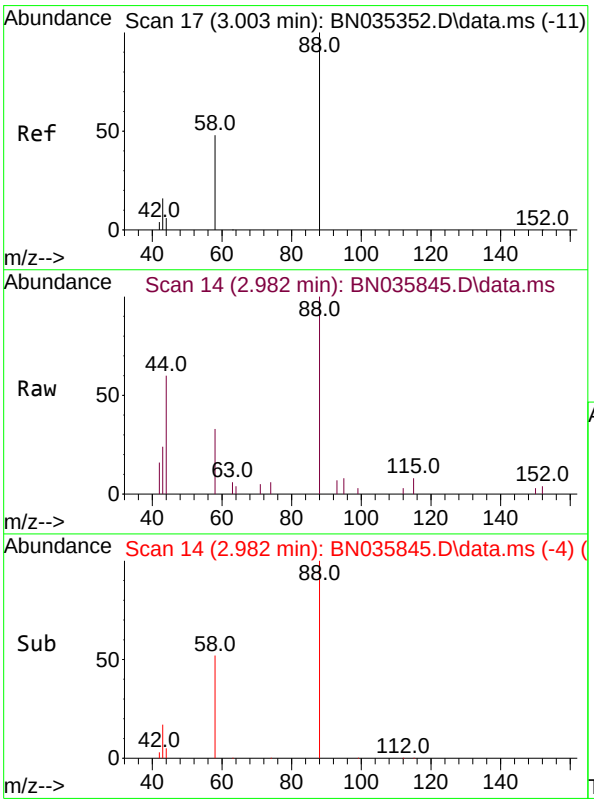

#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 6
Delta R.T. -0.015 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:152 Resp: 3755

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 153.5 | 124.0 | 186.0 |
| 115 | 58.0 | 49.6 | 74.4 |

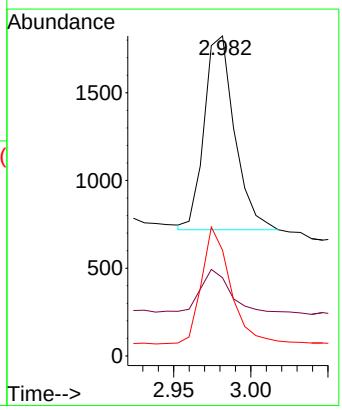


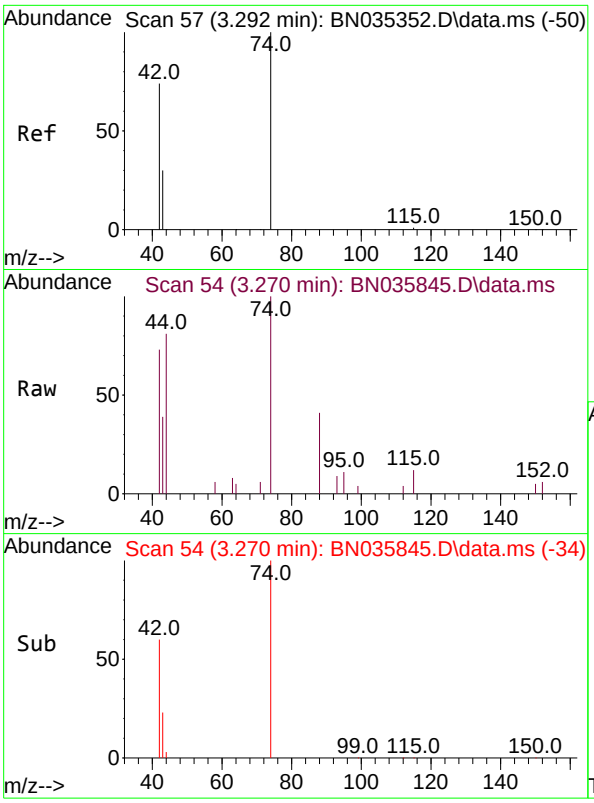




#2
1,4-Dioxane
Concen: 0.423 ng
RT: 2.982 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion: 88 Resp: 1520

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 19.9 | 17.2 | 25.8 |
| 58 | 57.5 | 44.5 | 66.7 |



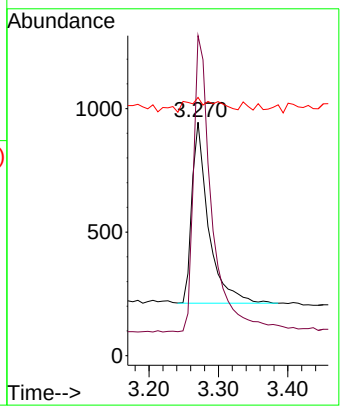


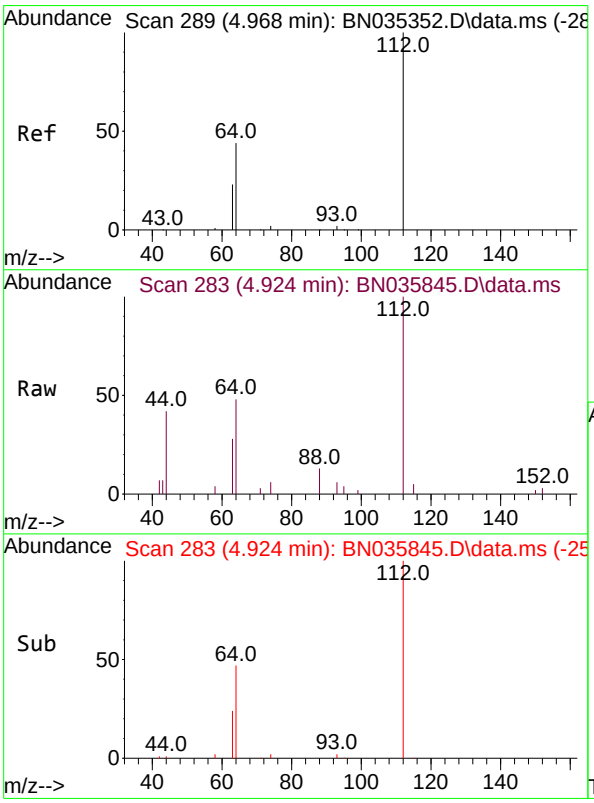

#3
n-Nitrosodimethylamine
Concen: 0.409 ng
RT: 3.270 min Scan# 54
Delta R.T. -0.007 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion: 42 Resp: 1223

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 179.4 | 124.9 | 187.3 |
| 44 | 16.9 | 2.2 | 3.4# |

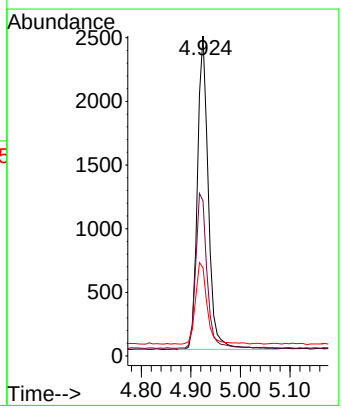


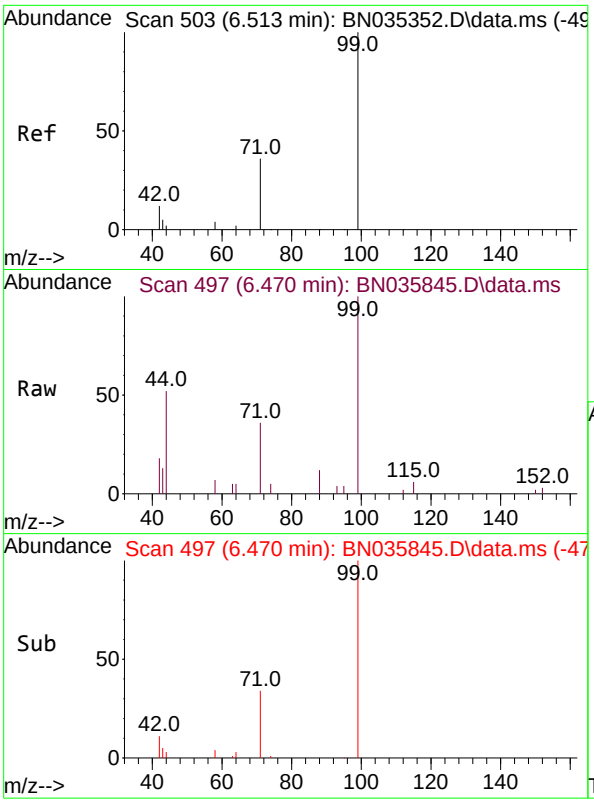




#4
2-Fluorophenol
Concen: 0.402 ng
RT: 4.924 min Scan# 283
Delta R.T. -0.015 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:112 Resp: 3777

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 51.0 | 39.8 | 59.8 |
| 63 | 27.5 | 21.0 | 31.6 |



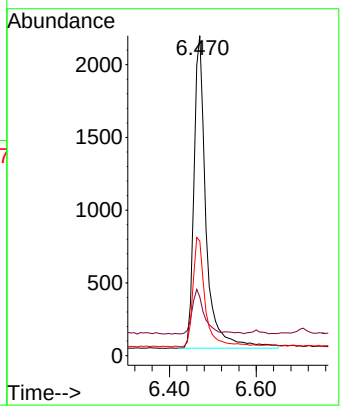


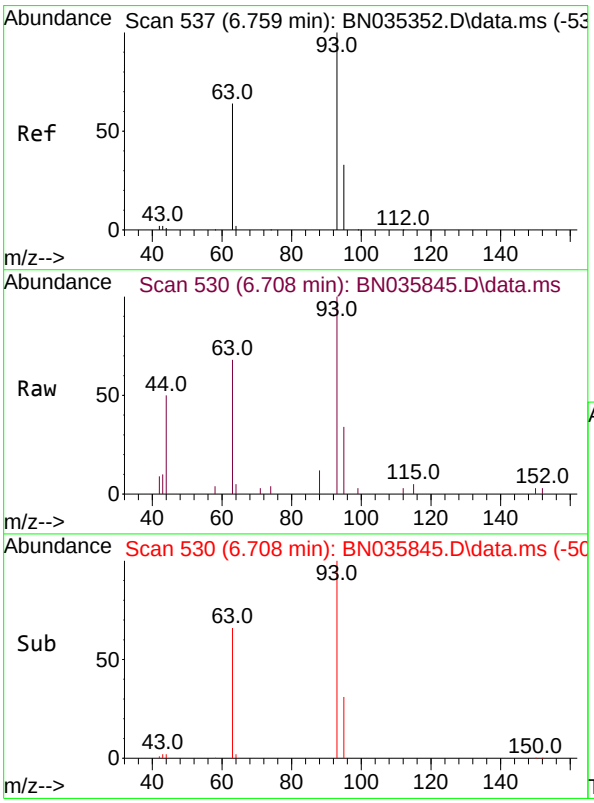

#5
Phenol-d6
Concen: 0.369 ng
RT: 6.470 min Scan# 4
Delta R.T. -0.022 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion: 99 Resp: 4175

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 14.0 | 11.4 | 17.2 |
| 71 | 35.3 | 29.3 | 43.9 |

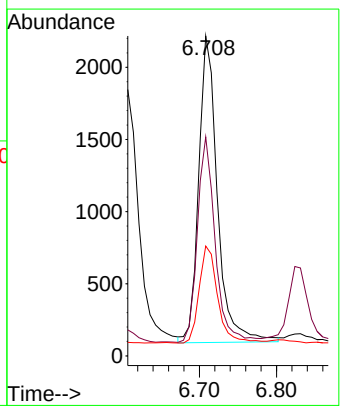


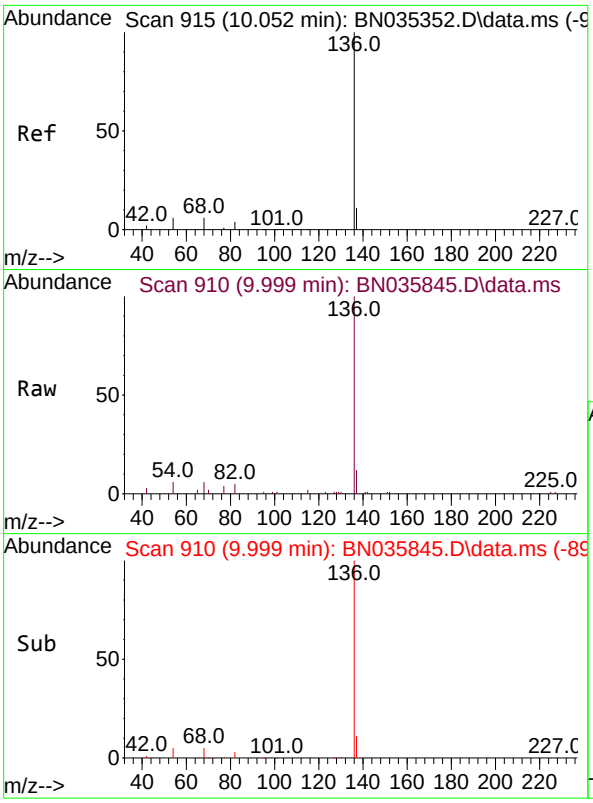




#6
bis(2-Chloroethyl)ether
Concen: 0.379 ng
RT: 6.708 min Scan# 530
Delta R.T. -0.022 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion: 93 Resp: 3599

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 63.3 | 50.4 | 75.6 |
| 95 | 31.3 | 25.7 | 38.5 |



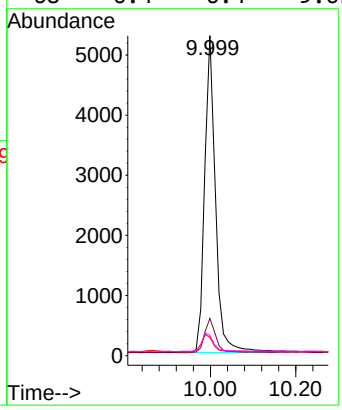


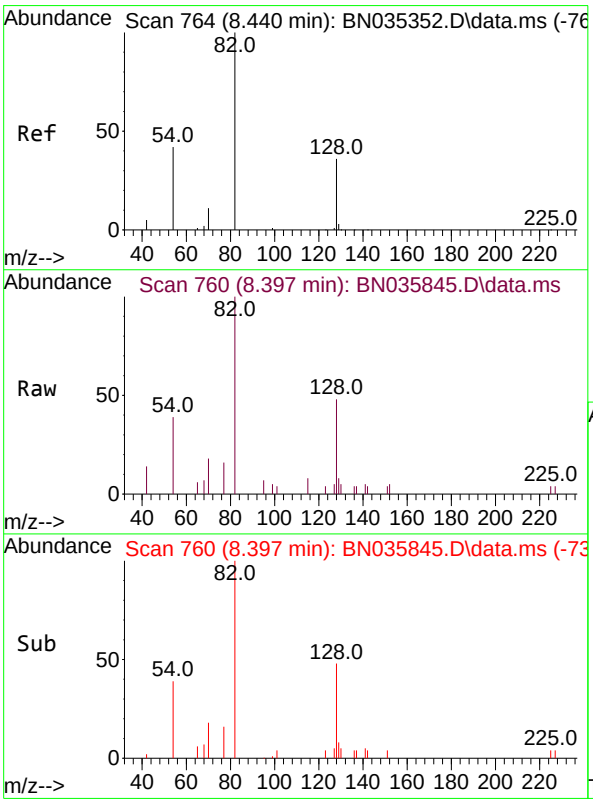

#7
Naphthalene-d8
Concen: 0.400 ng
RT: 9.999 min Scan# 91
Delta R.T. -0.022 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:136 Resp: 9322

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.6 | 10.2 | 15.2 |
| 54 | 5.8 | 6.1 | 9.1# |
| 68 | 6.4 | 6.4 | 9.6# |

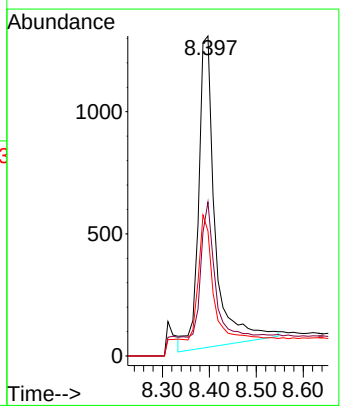


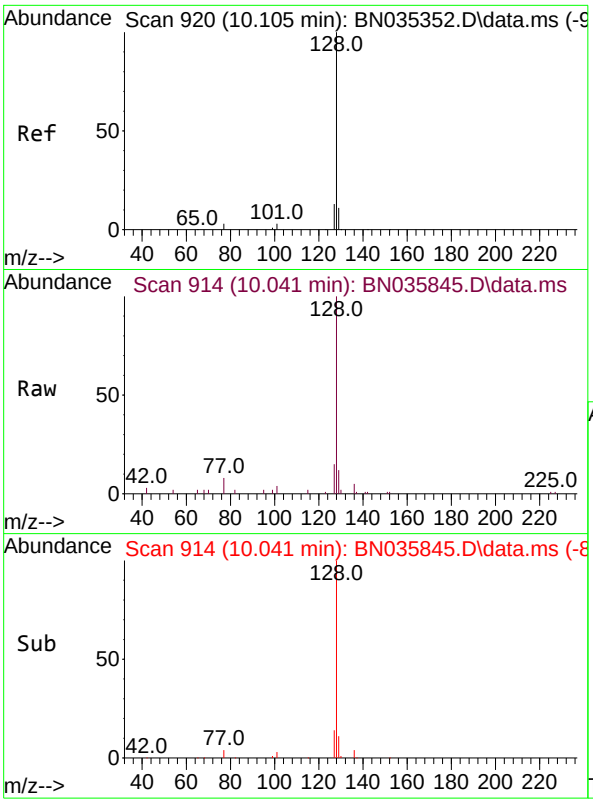




#8
Nitrobenzene-d5
Concen: 0.553 ng
RT: 8.397 min Scan# 760
Delta R.T. -0.011 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion: 82 Resp: 3148

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 48.1 | 33.4 | 50.0 |
| 54 | 39.1 | 36.7 | 55.1 |



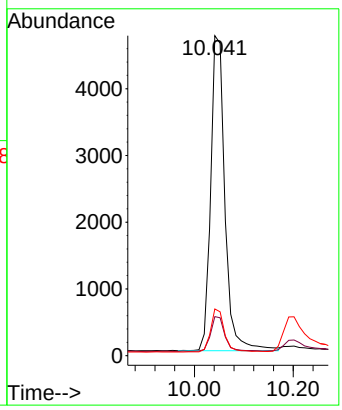


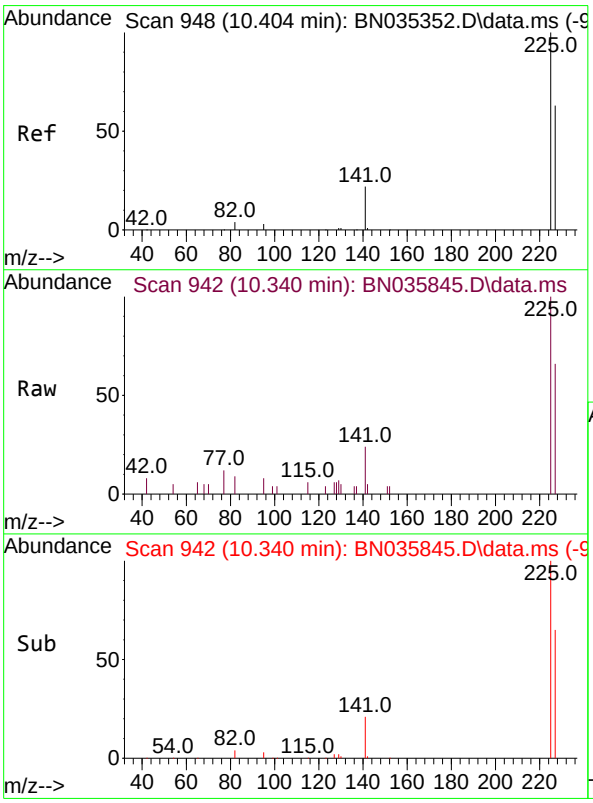

#9
Naphthalene
Concen: 0.384 ng
RT: 10.041 min Scan# 91
Delta R.T. -0.021 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:128 Resp: 9440

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 12.2 | 9.8 | 14.6 |
| 127 | 14.6 | 11.4 | 17.2 |

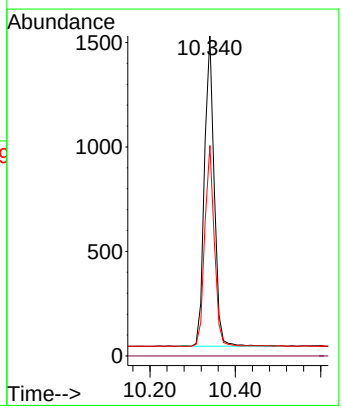


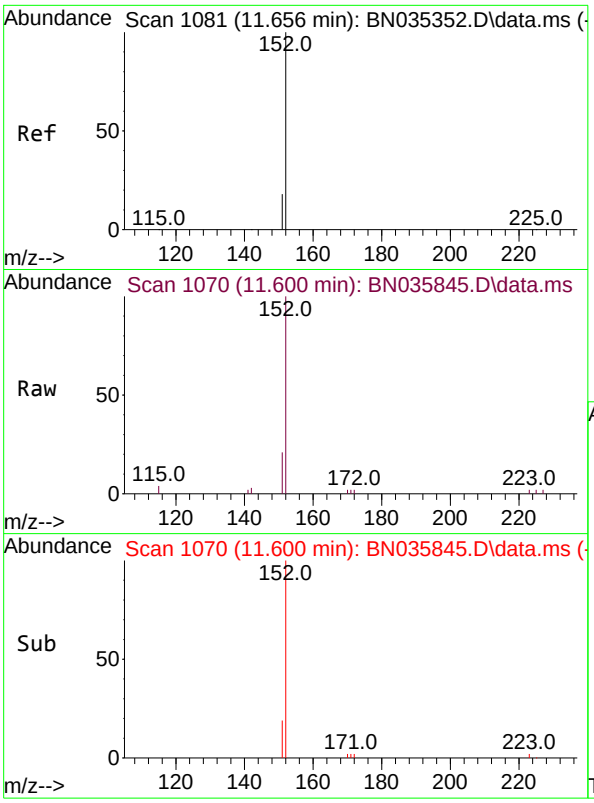




#10
Hexachlorobutadiene
Concen: 0.415 ng
RT: 10.340 min Scan# 942
Delta R.T. -0.021 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:225 Resp: 2352

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 0.0 | 0.0 | 0.0 |
| 227 | 63.7 | 51.3 | 76.9 |



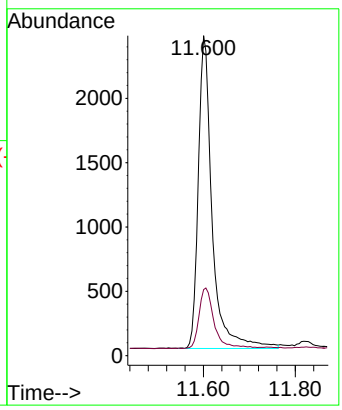


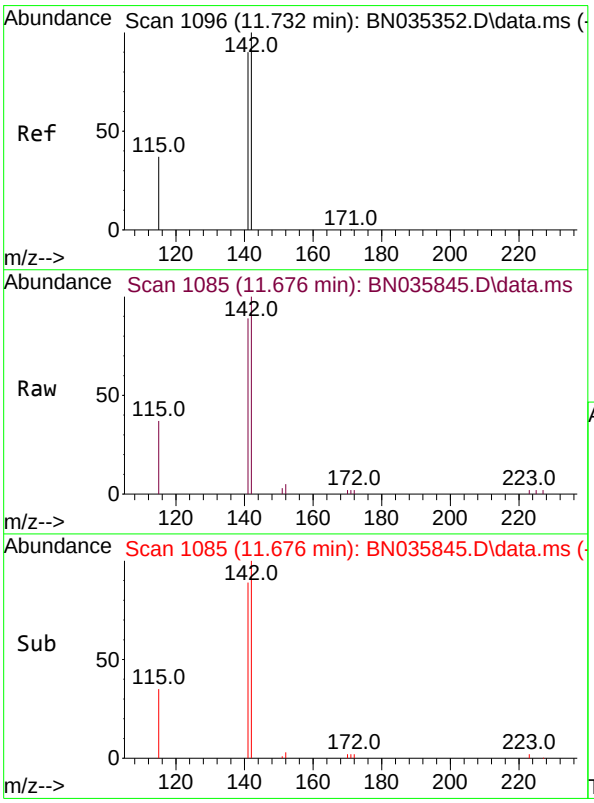

#11
2-Methylnaphthalene-d10
Concen: 0.348 ng
RT: 11.600 min Scan# 1
Delta R.T. -0.020 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:152 Resp: 5080

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 21.0 | 16.6 | 25.0 |

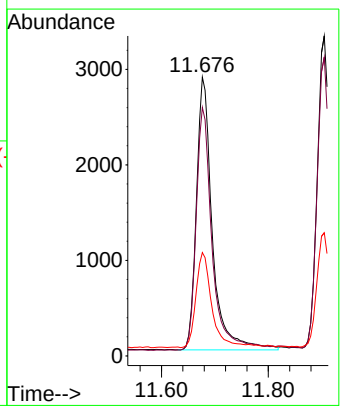


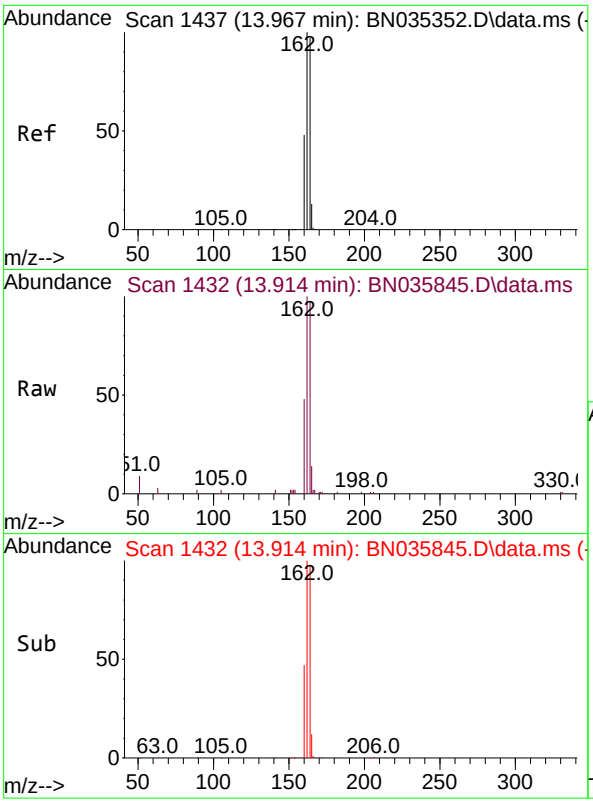




#12
2-Methylnaphthalene
Concen: 0.337 ng
RT: 11.676 min Scan# 1085
Delta R.T. -0.020 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:142 Resp: 5939

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 89.1 | 72.2 | 108.4 |
| 115 | 37.1 | 31.4 | 47.0 |



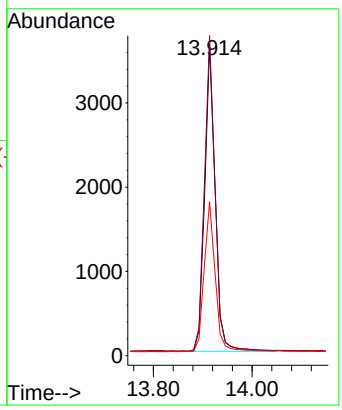


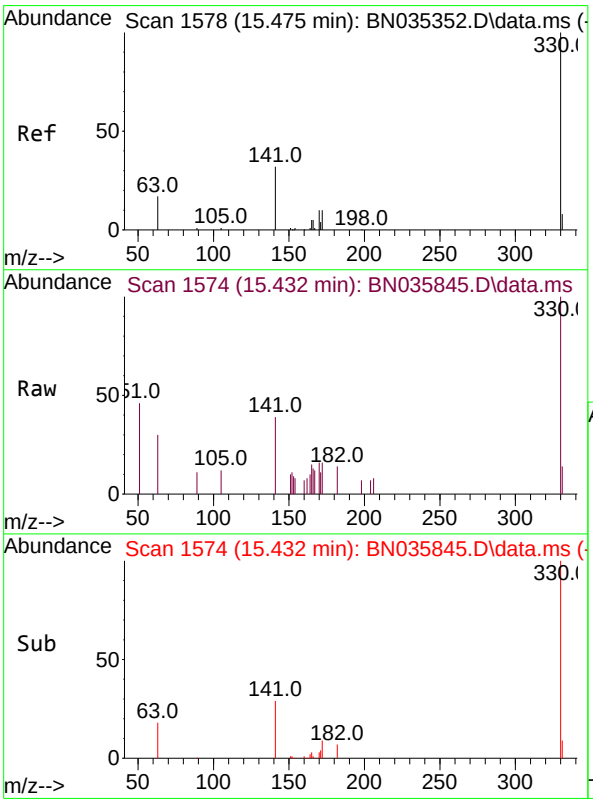

#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.914 min Scan# 14
Delta R.T. -0.022 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:164 Resp: 5387

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 103.2 | 82.2 | 123.2 |
| 160 | 49.7 | 40.1 | 60.1 |

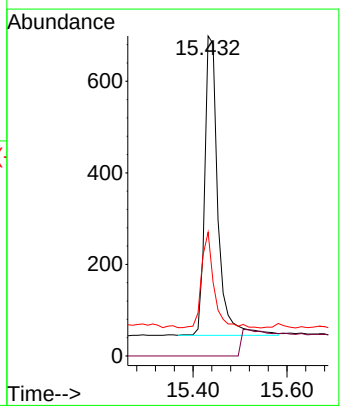


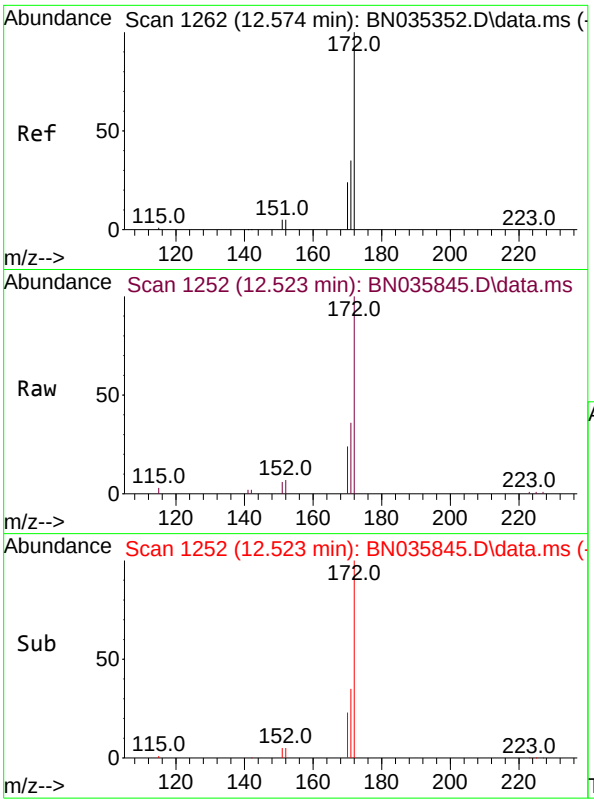




#14
2,4,6-Tribromophenol
Concen: 0.350 ng
RT: 15.432 min Scan# 1574
Delta R.T. -0.022 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:330 Resp: 1338

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 0.0 | 0.0 | 0.0 |
| 141 | 29.7 | 26.6 | 40.0 |



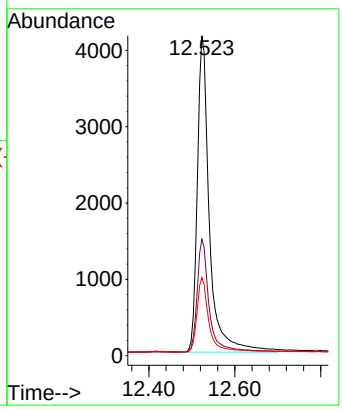


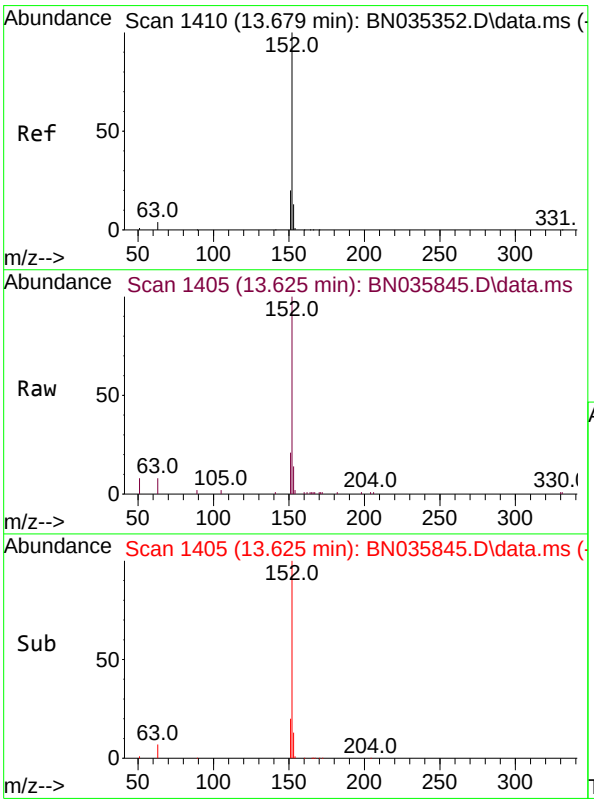

#15
2-Fluorobiphenyl
Concen: 0.398 ng
RT: 12.523 min Scan# 1
Delta R.T. -0.020 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:172 Resp: 8104

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 36.4 | 29.0 | 43.4 |
| 170 | 24.4 | 19.8 | 29.8 |

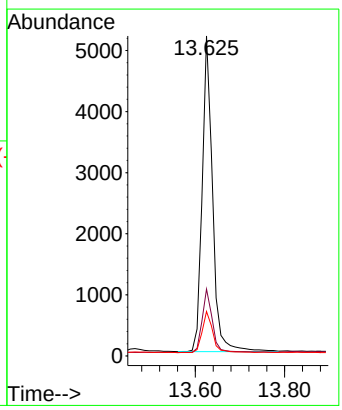


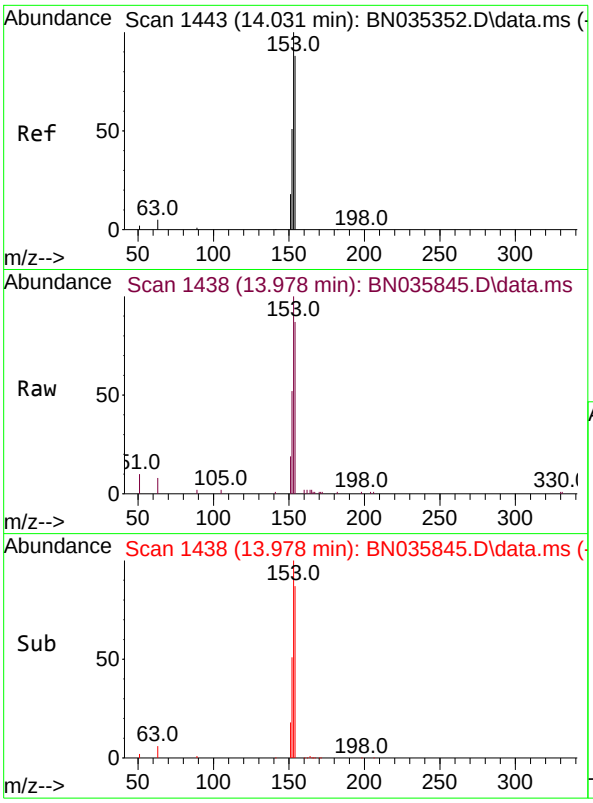




#16
Acenaphthylene
Concen: 0.369 ng
RT: 13.625 min Scan# 1405
Delta R.T. -0.022 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:152 Resp: 8340

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.1 | 16.2 | 24.2 |
| 153 | 13.2 | 10.4 | 15.6 |



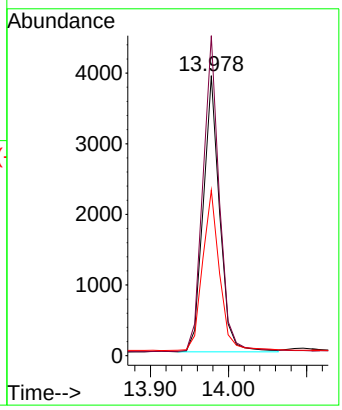


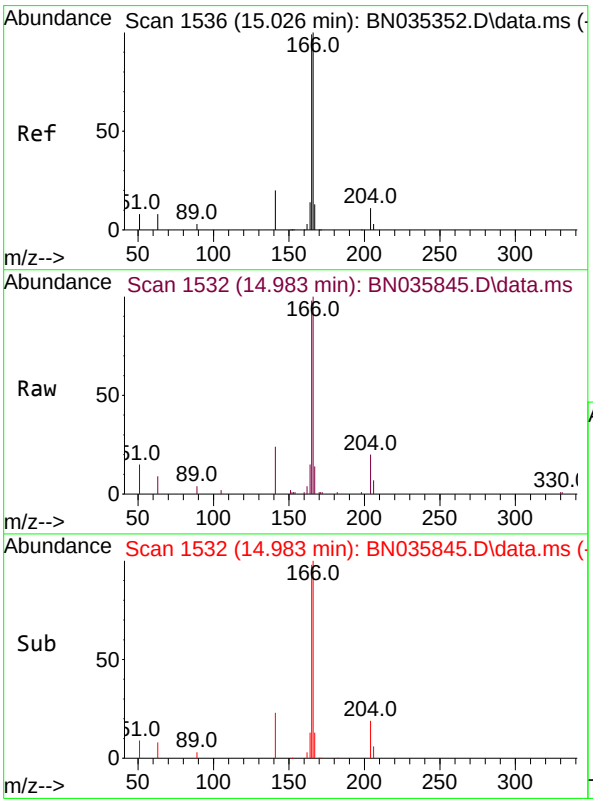

#17
Acenaphthene
Concen: 0.379 ng
RT: 13.978 min Scan# 14
Delta R.T. -0.022 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:154 Resp: 5695

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 116.1 | 92.6 | 139.0 |
| 152 | 60.4 | 49.0 | 73.6 |

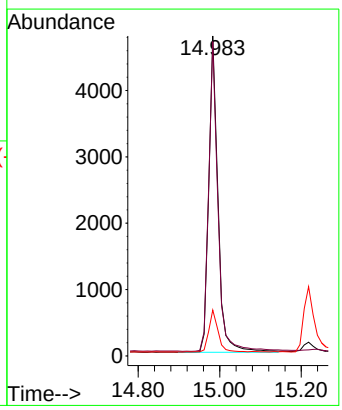


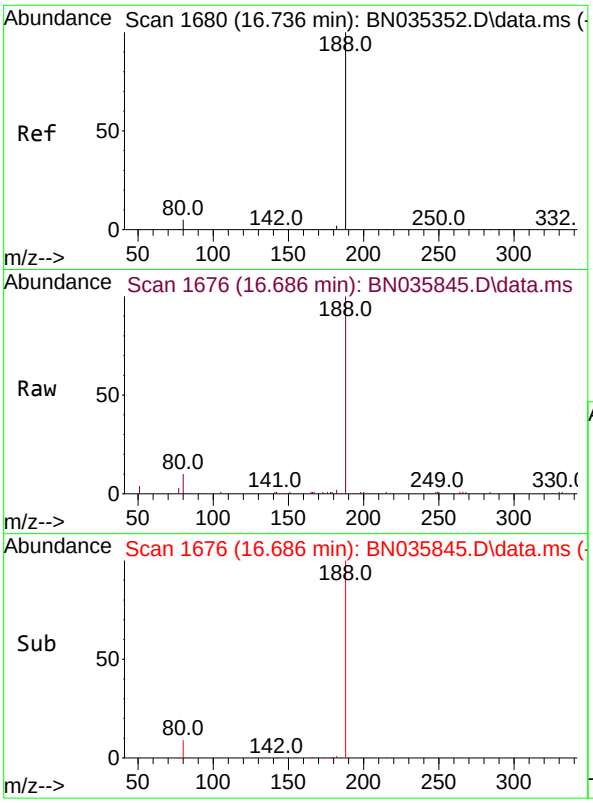




#18
Fluorene
Concen: 0.350 ng
RT: 14.983 min Scan# 1532
Delta R.T. -0.022 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:166 Resp: 7523

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 98.0 | 79.7 | 119.5 |
| 167 | 13.4 | 10.8 | 16.2 |



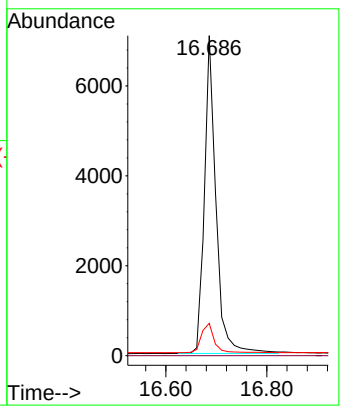


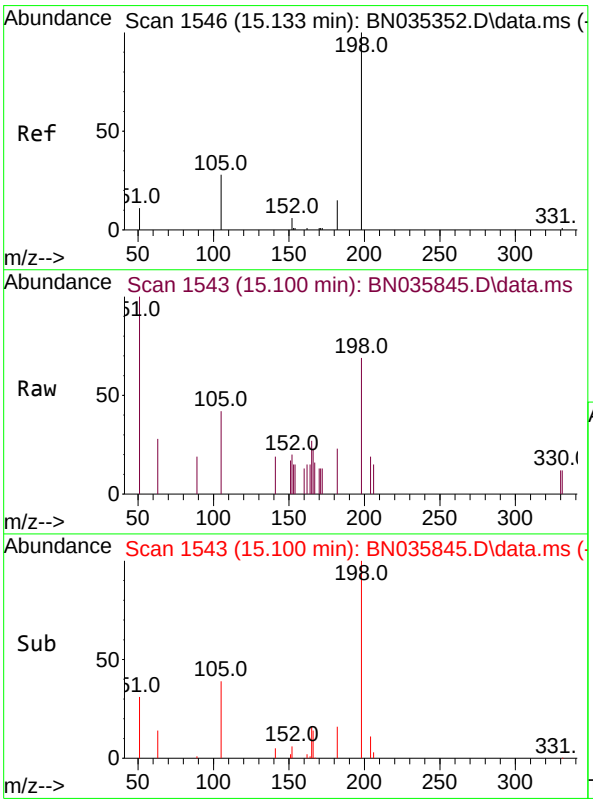

#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.686 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:188 Resp: 11262

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 10.1 | 4.6 | 6.8# |

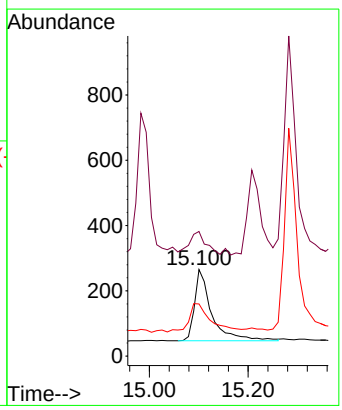


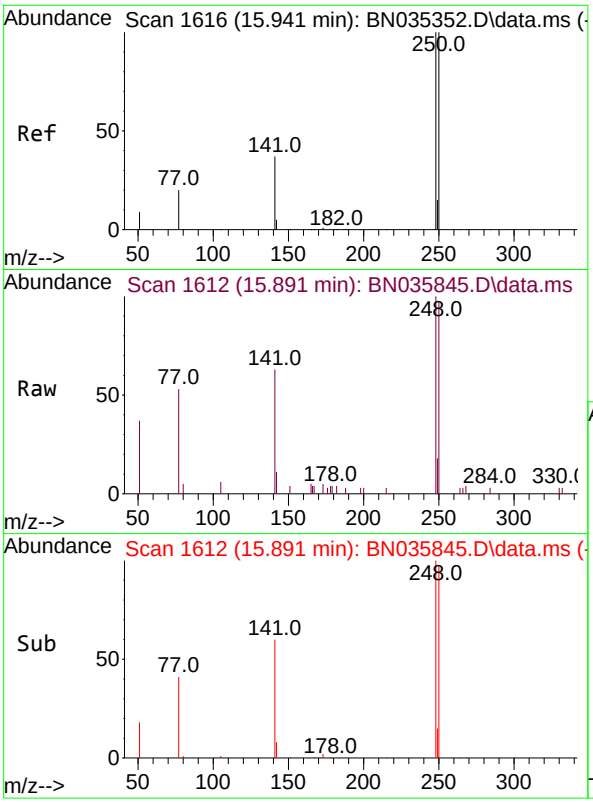




#20
4,6-Dinitro-2-methylphenol
Concen: 0.475 ng
RT: 15.100 min Scan# 1543
Delta R.T. -0.022 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:198 Resp: 526

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 198 | 100 | | |
| 51 | 144.2 | 46.5 | 69.7# |
| 105 | 60.4 | 45.3 | 67.9 |



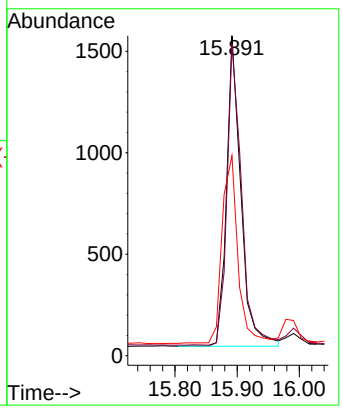


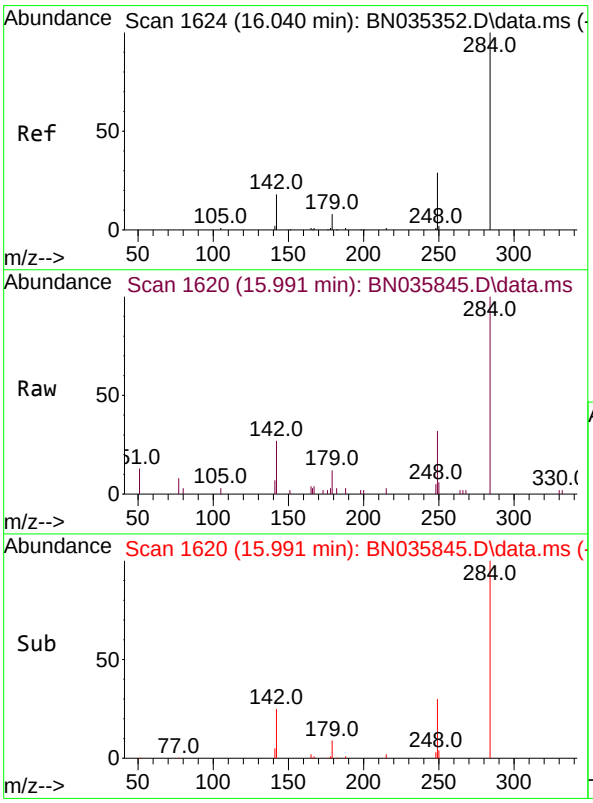

#21
4-Bromophenyl-phenylether
Concen: 0.371 ng
RT: 15.891 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:248 Resp: 2443

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 97.3 | 80.6 | 120.8 |
| 141 | 62.5 | 31.5 | 47.3# |

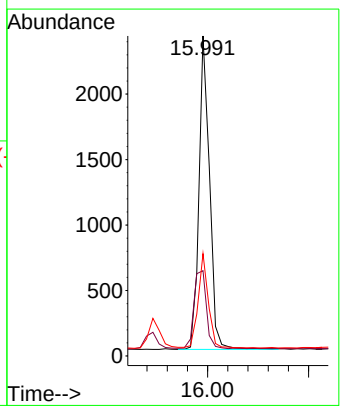


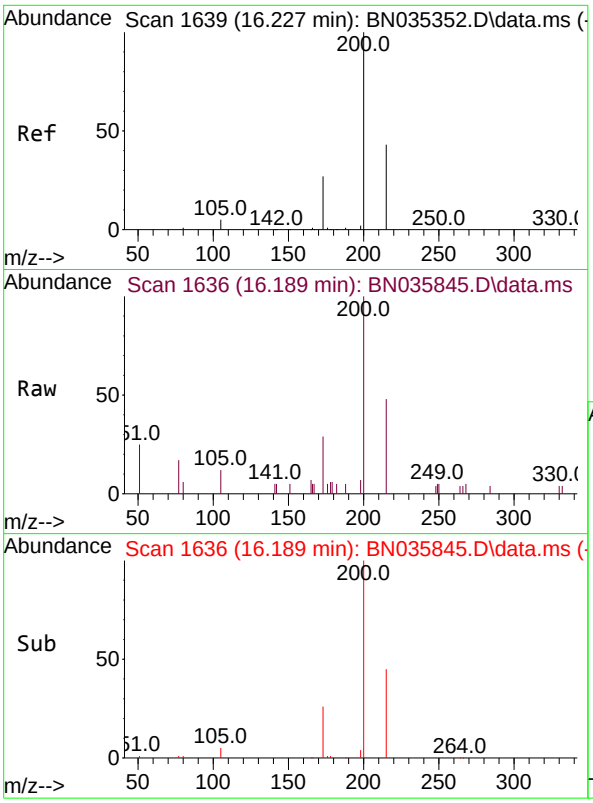




#22
Hexachlorobenzene
Concen: 0.450 ng
RT: 15.991 min Scan# 1620
Delta R.T. -0.025 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:284 Resp: 3482

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 29.6 | 26.7 | 40.1 |
| 249 | 28.9 | 24.6 | 36.8 |



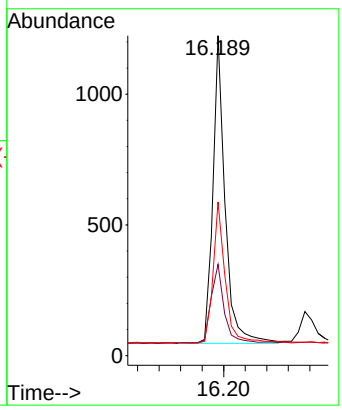


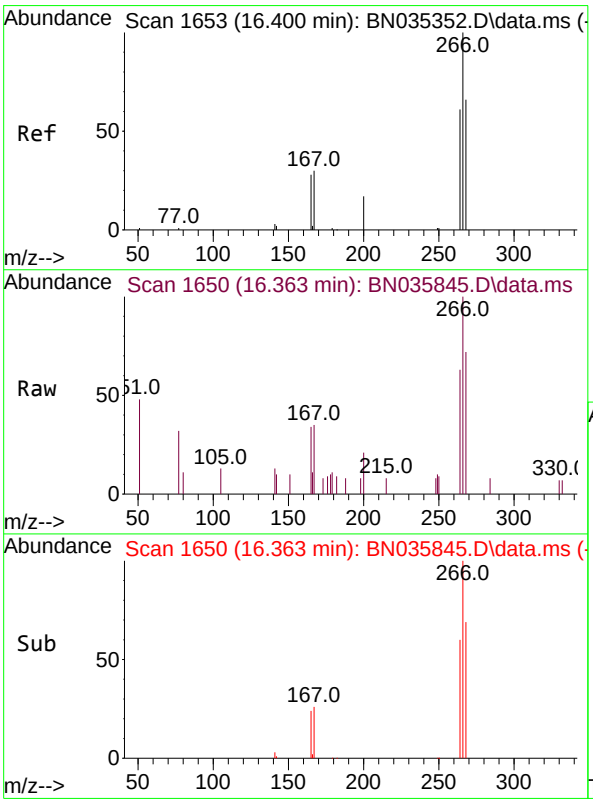

#23
Atrazine
Concen: 0.393 ng
RT: 16.189 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:200 Resp: 1843

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 173 | 28.5 | 24.1 | 36.1 |
| 215 | 48.0 | 36.9 | 55.3 |

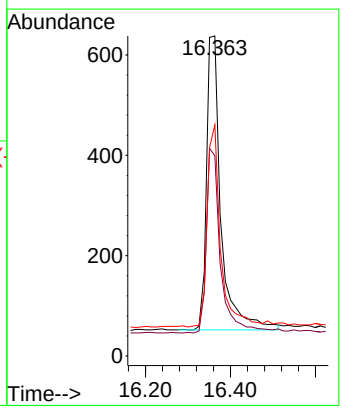


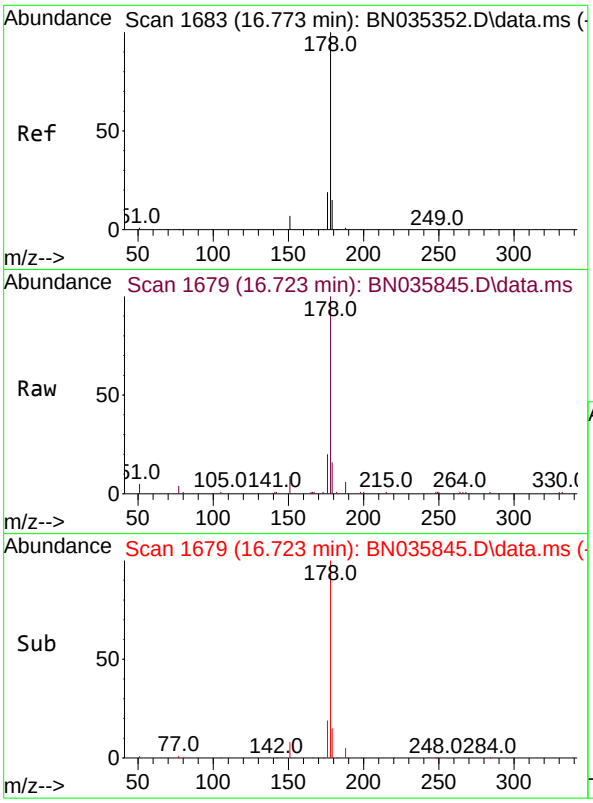




#24
Pentachlorophenol
Concen: 0.411 ng
RT: 16.363 min Scan# 1650
Delta R.T. -0.013 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:266 Resp: 1383

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 264 | 61.3 | 42.3 | 63.5 |
| 268 | 63.8 | 43.3 | 64.9 |



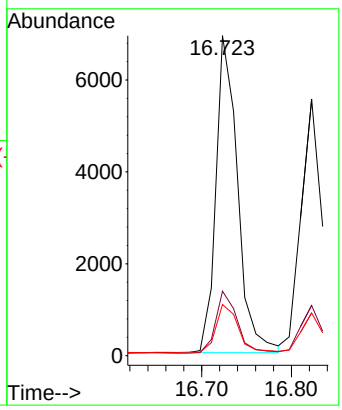


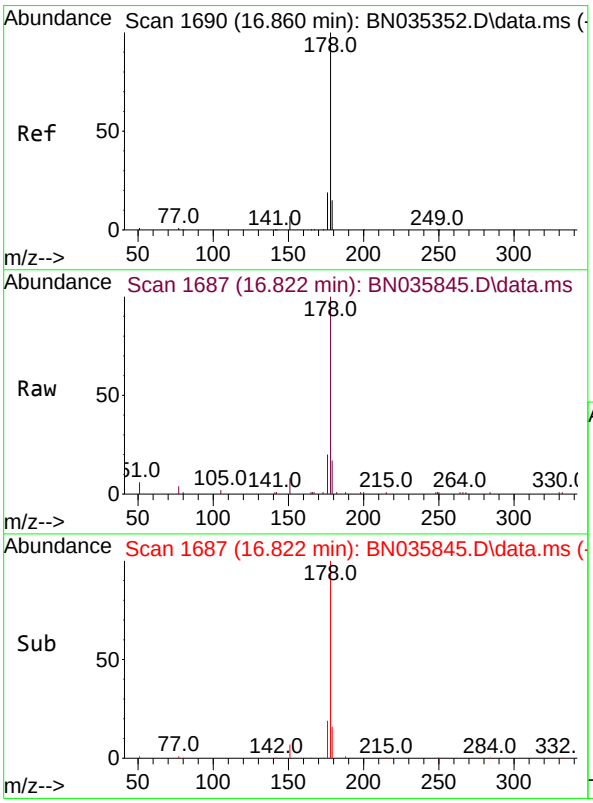

#25
Phenanthrene
Concen: 0.375 ng
RT: 16.723 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:178 Resp: 11602

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.2 | 15.4 | 23.2 |
| 179 | 15.7 | 12.3 | 18.5 |

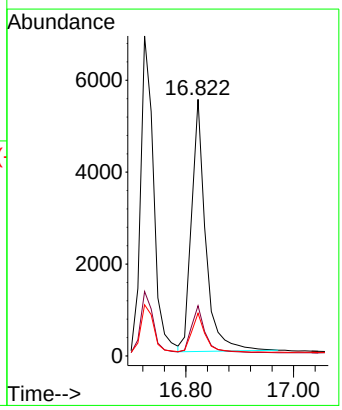


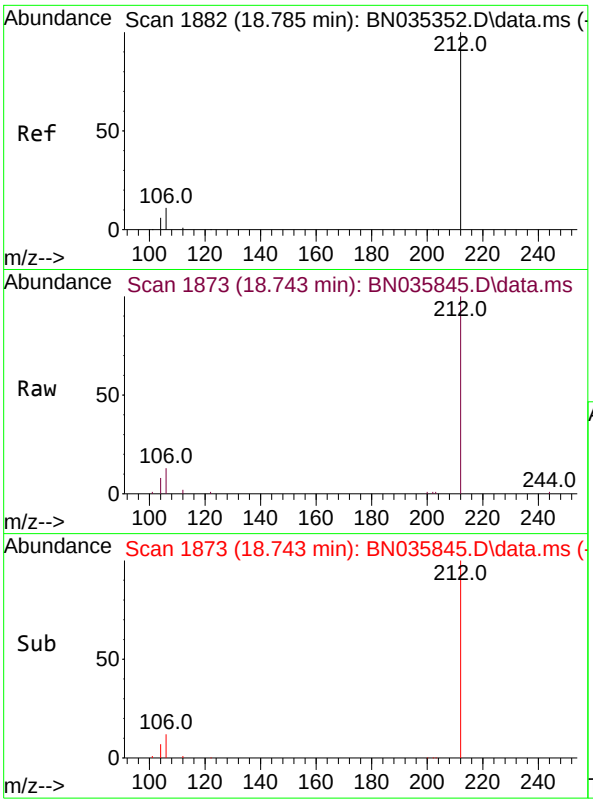




#26
Anthracene
Concen: 0.358 ng
RT: 16.822 min Scan# 1687
Delta R.T. -0.013 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:178 Resp: 10005

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.8 | 15.0 | 22.6 |
| 179 | 15.3 | 12.6 | 18.8 |



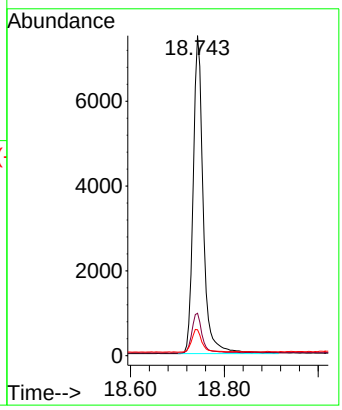


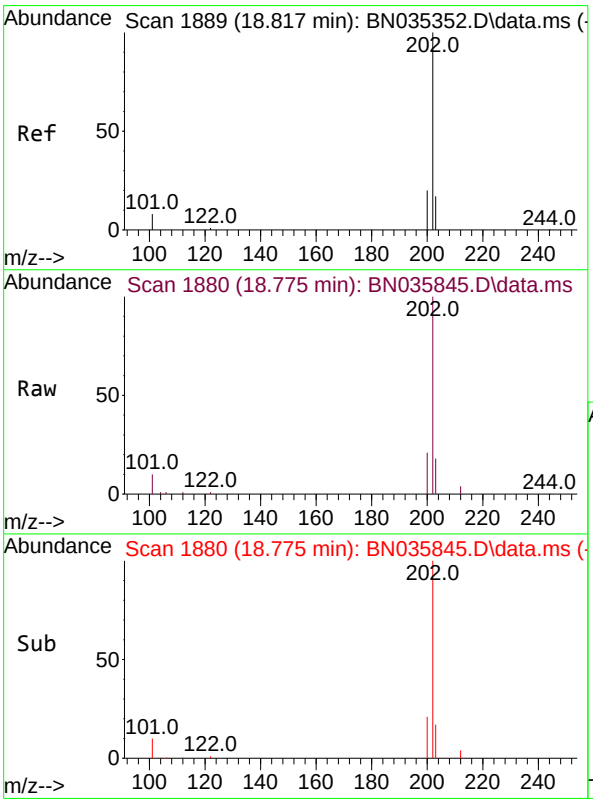

#27
Fluoranthene-d10
Concen: 0.350 ng
RT: 18.743 min Scan# 1
Delta R.T. -0.019 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:212 Resp: 11161

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 12.7 | 9.2 | 13.8 |
| 104 | 7.4 | 5.3 | 7.9 |

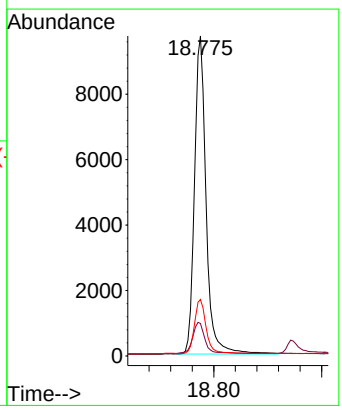


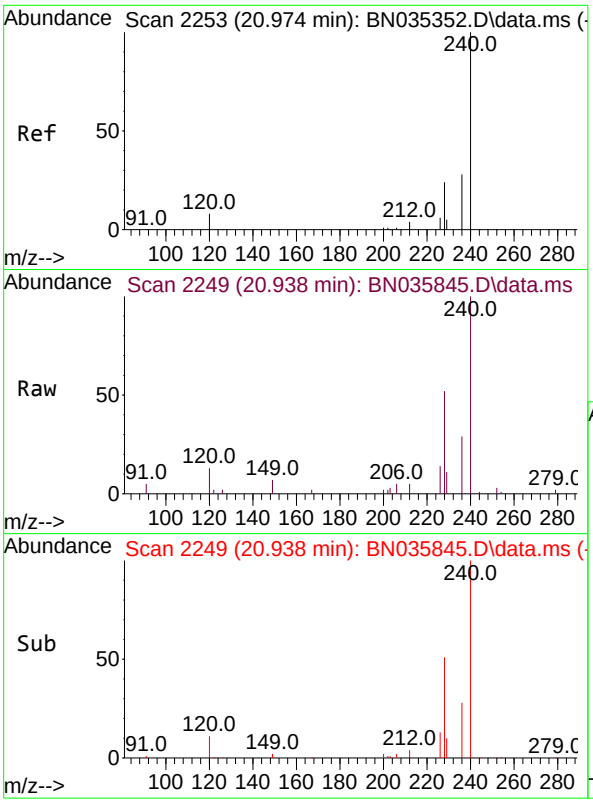




#28
Fluoranthene
Concen: 0.347 ng
RT: 18.775 min Scan# 1880
Delta R.T. -0.014 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:202 Resp: 14489

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 10.7 | 7.4 | 11.0 |
| 203 | 17.0 | 13.7 | 20.5 |



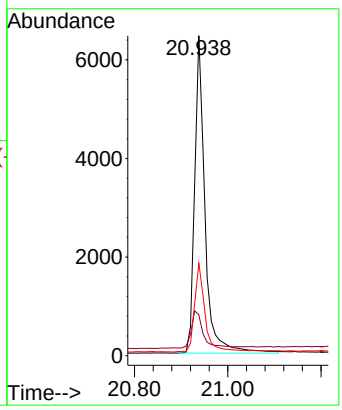


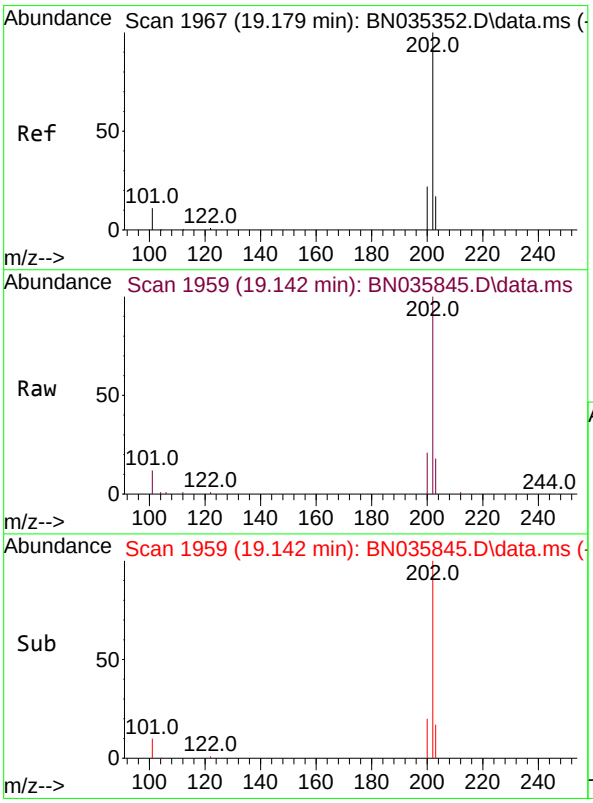

#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.938 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:240 Resp: 9932

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 12.7 | 7.9 | 11.9# |
| 236 | 28.9 | 22.9 | 34.3 |

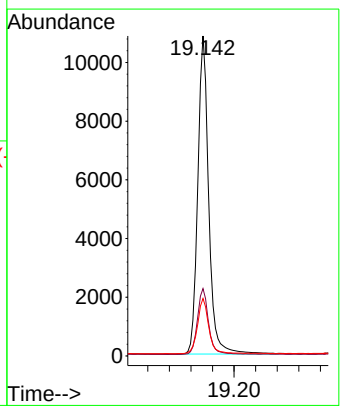


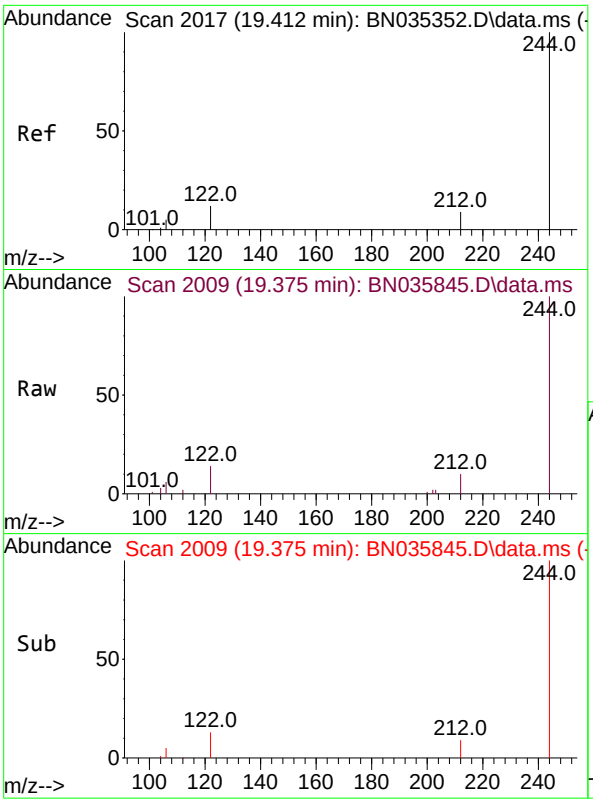




#30
Pyrene
Concen: 0.417 ng
RT: 19.142 min Scan# 1959
Delta R.T. -0.019 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:202 Resp: 15278

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.0 | 17.0 | 25.4 |
| 203 | 17.9 | 14.3 | 21.5 |



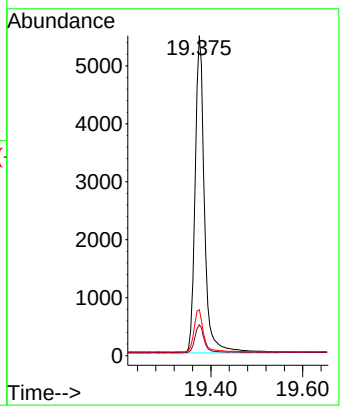


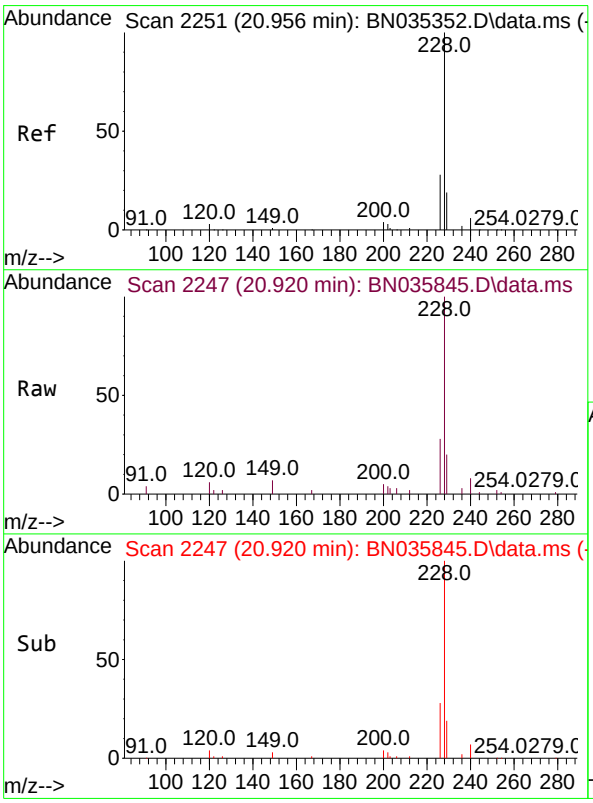

#31
Terphenyl-d14
Concen: 0.397 ng
RT: 19.375 min Scan# 2
Delta R.T. -0.014 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:244 Resp: 7783

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 9.7 | 8.1 | 12.1 |
| 122 | 14.4 | 10.3 | 15.5 |

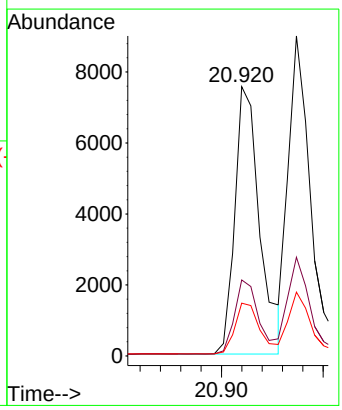


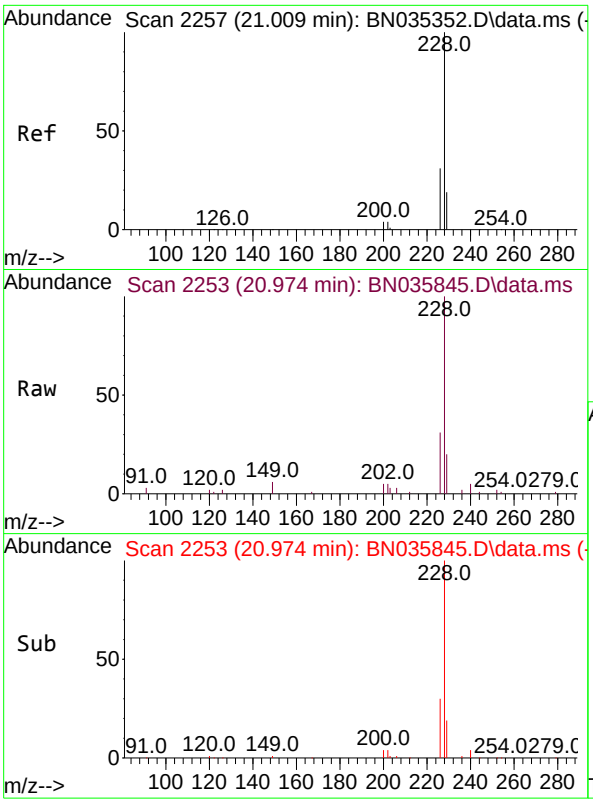




#32
Benzo(a)anthracene
Concen: 0.368 ng
RT: 20.920 min Scan# 2247
Delta R.T. -0.018 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:228 Resp: 12798

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 28.2 | 22.5 | 33.7 |
| 229 | 19.6 | 15.8 | 23.8 |



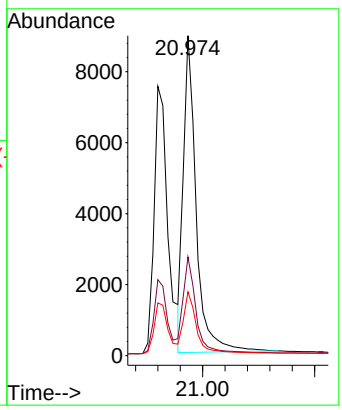


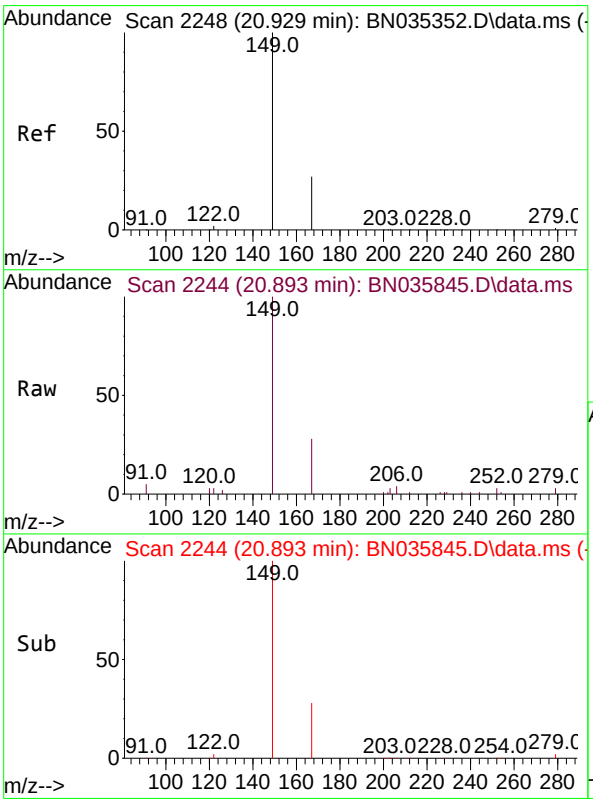

#33
Chrysene
Concen: 0.397 ng
RT: 20.974 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:228 Resp: 14214

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 30.9 | 24.6 | 37.0 |
| 229 | 20.0 | 15.9 | 23.9 |

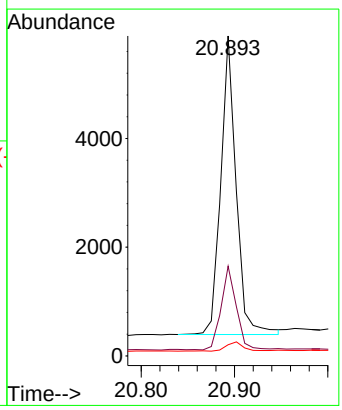


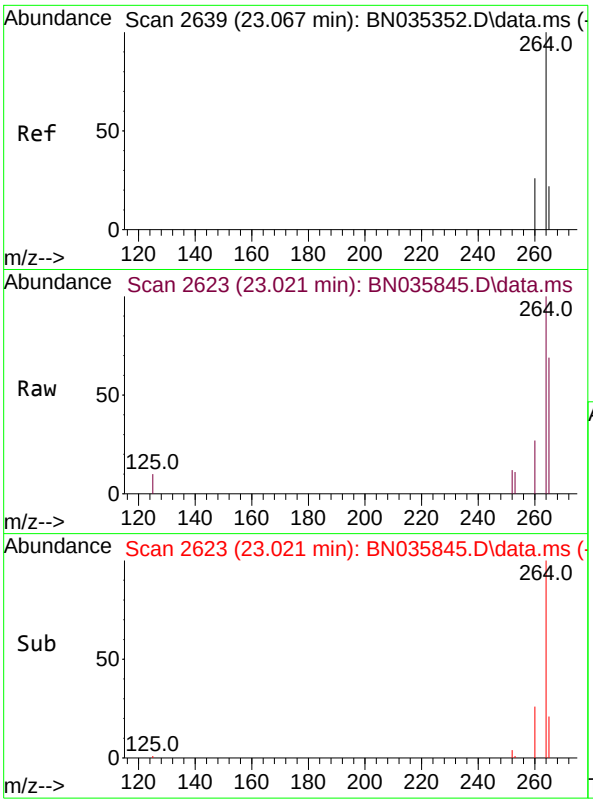




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.458 ng
RT: 20.893 min Scan# 2244
Delta R.T. -0.018 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:149 Resp: 6282

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 27.6 | 22.2 | 33.4 |
| 279 | 3.4 | 2.7 | 4.1 |



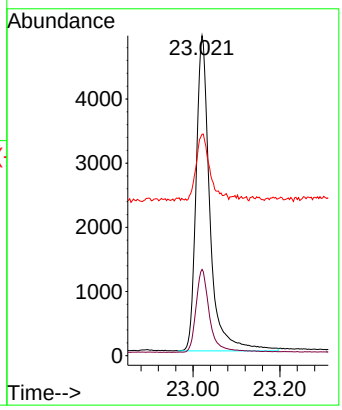


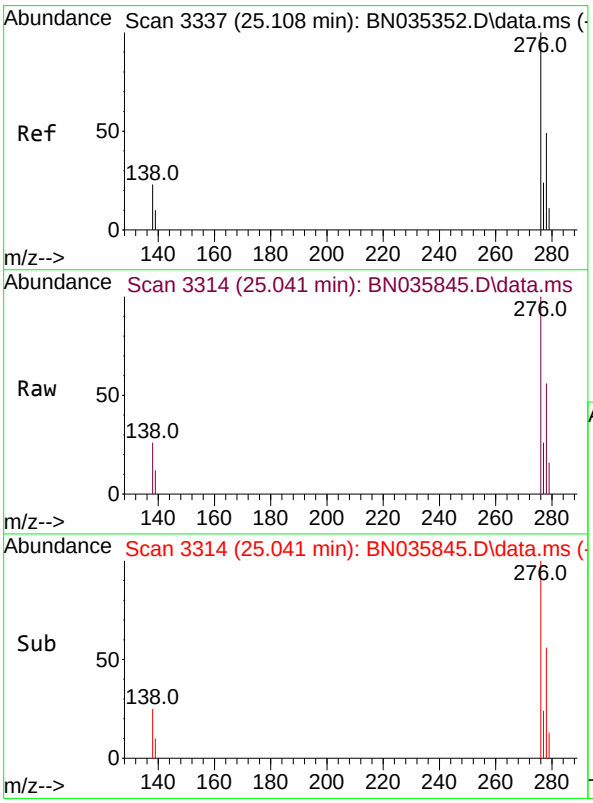

#35
Perylene-d12
Concen: 0.400 ng
RT: 23.021 min Scan# 2
Delta R.T. -0.021 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:264 Resp: 10817

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 27.0 | 21.4 | 32.2 |
| 265 | 69.2 | 40.2 | 60.4# |

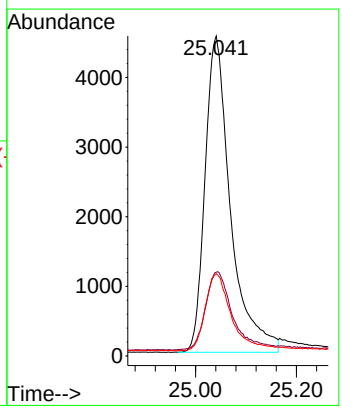


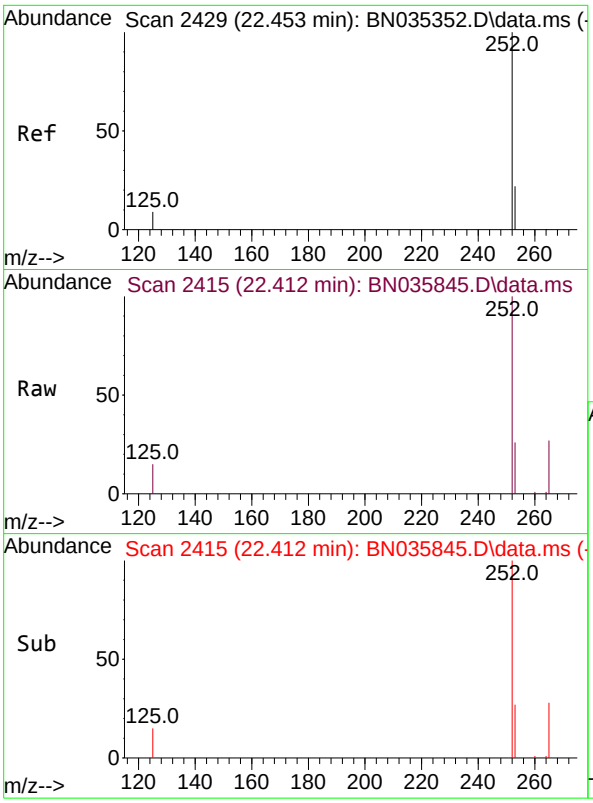




#36
Indeno(1,2,3-cd)pyrene
Concen: 0.377 ng
RT: 25.041 min Scan# 3314
Delta R.T. -0.026 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:276 Resp: 15946

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 26.4 | 19.4 | 29.0 |
| 277 | 25.7 | 19.8 | 29.6 |



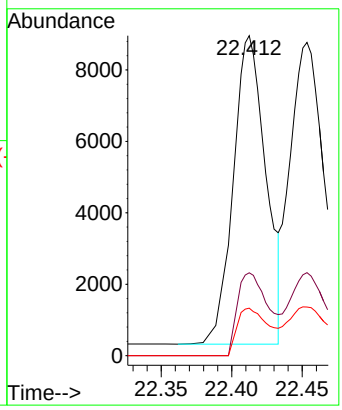


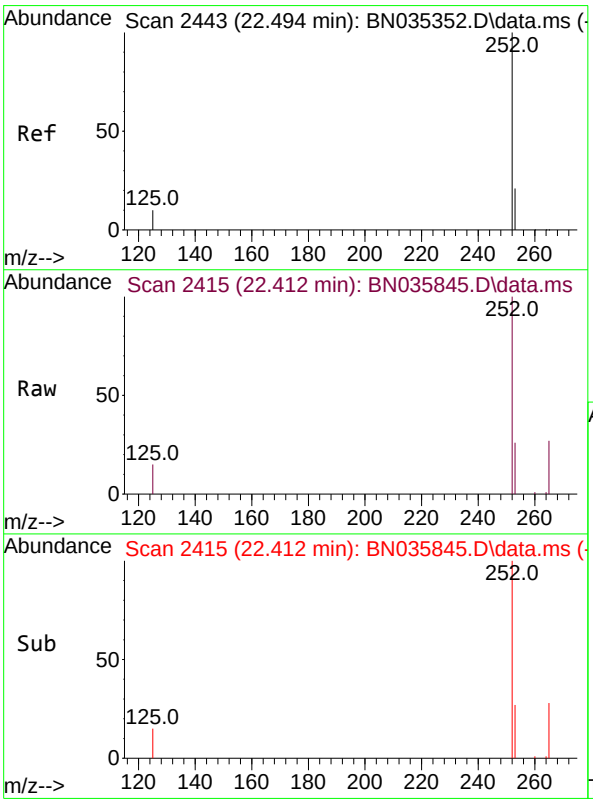

#37
Benzo(b)fluoranthene
Concen: 0.494 ng
RT: 22.412 min Scan# 24
Delta R.T. -0.018 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:252 Resp: 19565

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 25.9 | 19.6 | 29.4 |
| 125 | 14.9 | 9.6 | 14.4# |

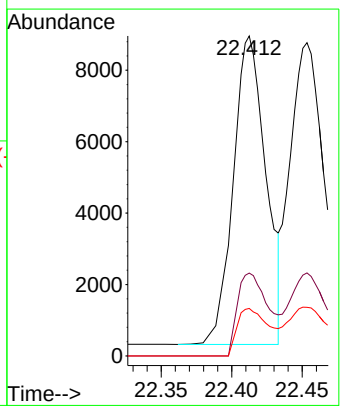


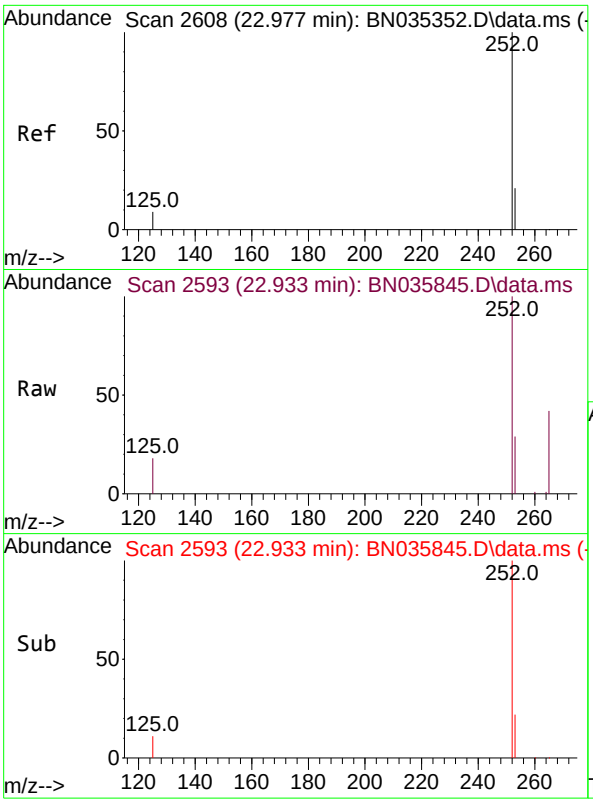




#38
Benzo(k)fluoranthene
Concen: 0.502 ng
RT: 22.412 min Scan# 2415
Delta R.T. -0.059 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:252 Resp: 19565

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 25.9 | 19.5 | 29.3 |
| 125 | 14.9 | 10.2 | 15.4 |



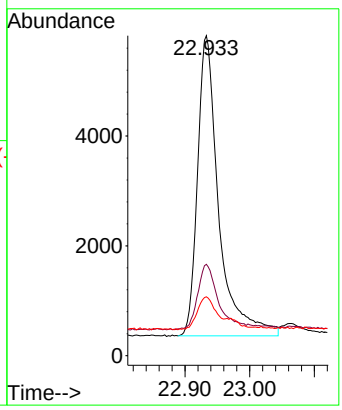


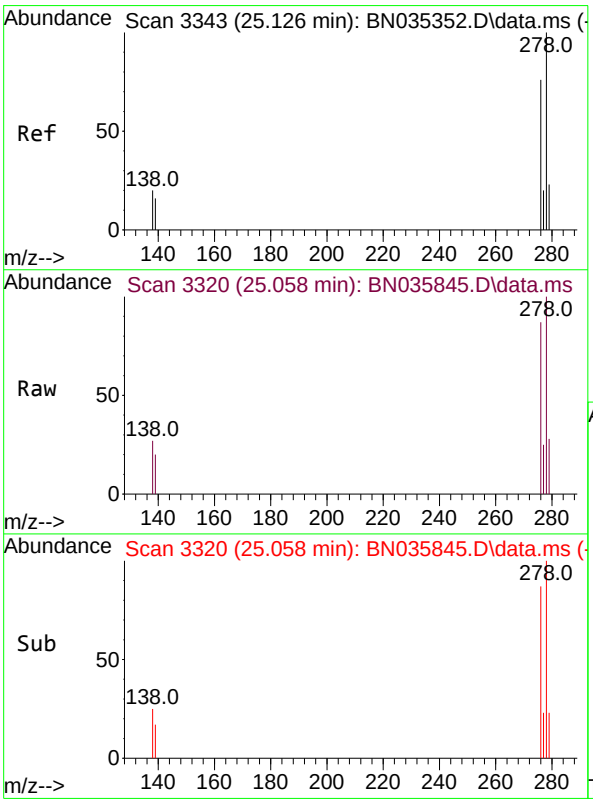

#39
Benzo(a)pyrene
Concen: 0.382 ng
RT: 22.933 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:252 Resp: 12458

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 28.6 | 20.2 | 30.4 |
| 125 | 18.4 | 10.9 | 16.3# |

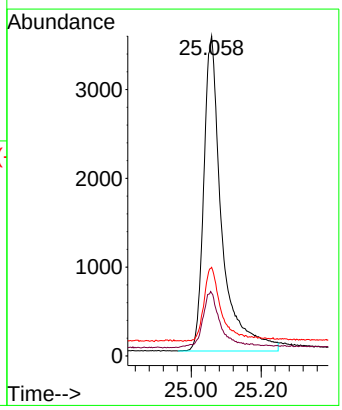


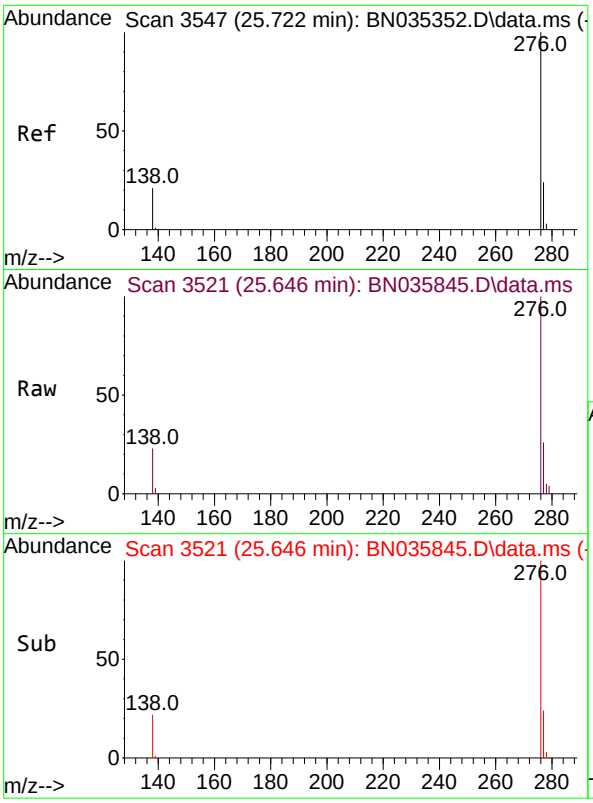




#40
Dibenzo(a,h)anthracene
Concen: 0.380 ng
RT: 25.058 min Scan# 3320
Delta R.T. -0.024 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:278 Resp: 12678

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 19.7 | 14.2 | 21.4 |
| 279 | 27.7 | 20.5 | 30.7 |



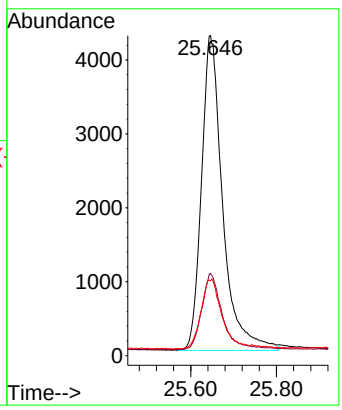



#41
Benzo(g,h,i)perylene
Concen: 0.419 ng
RT: 25.646 min Scan# 3
Delta R.T. -0.032 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:276 Resp: 14614

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 25.7 | 19.9 | 29.9 |
| 138 | 23.5 | 17.8 | 26.8 |



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
Data File : BN035847.D
Acq On : 26 Dec 2024 11:20
Operator : RC/JU
Sample : P5376-15
Misc :
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
TT162S1-20241219

Quant Time: Dec 27 00:40:32 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

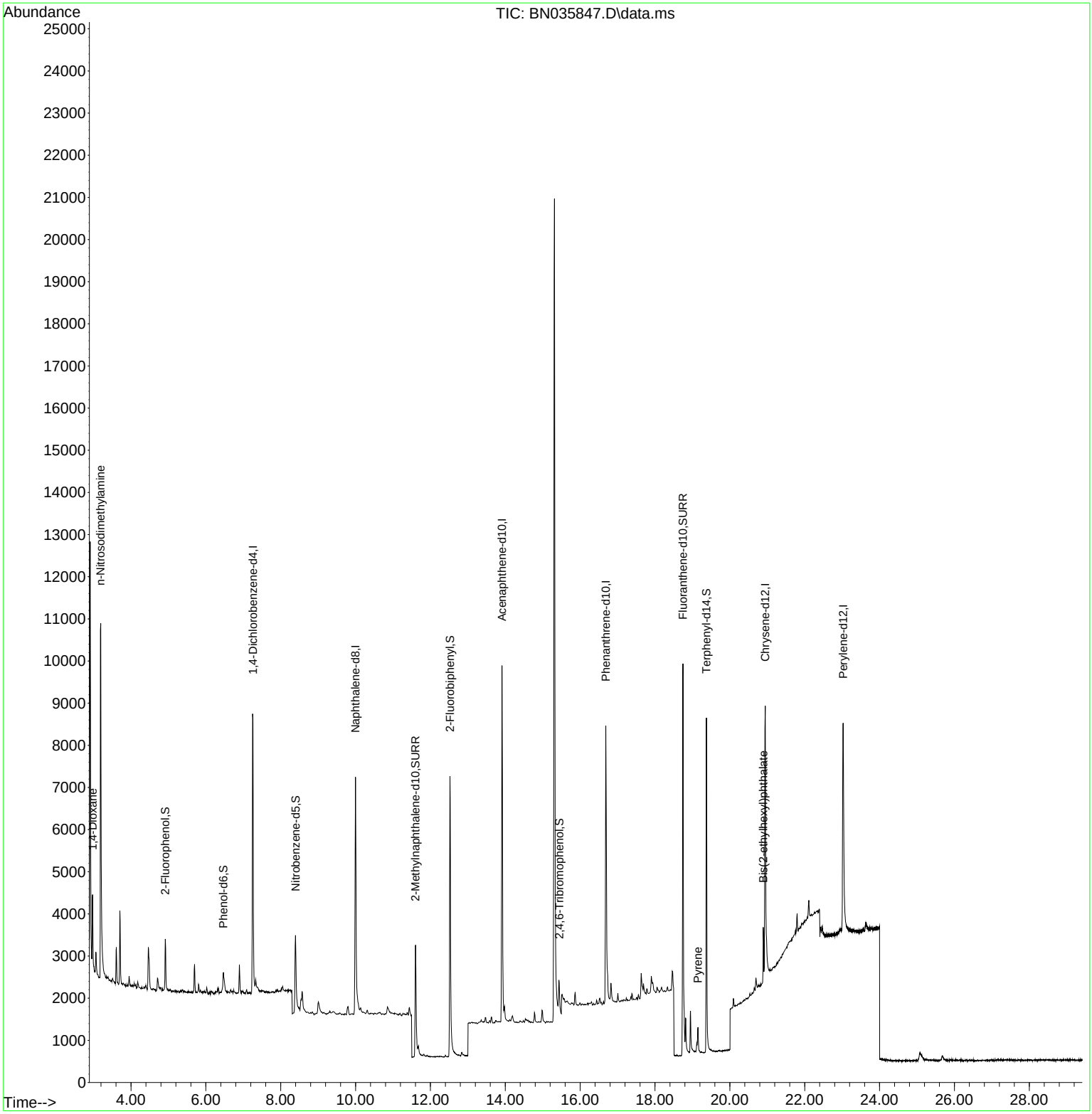
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.257 | 152 | 3703 | 0.400 | ng | -0.01 |
| 7) Naphthalene-d8 | 9.999 | 136 | 8876 | 0.400 | ng | #-0.02 |
| 13) Acenaphthene-d10 | 13.914 | 164 | 5154 | 0.400 | ng | -0.02 |
| 19) Phenanthrene-d10 | 16.686 | 188 | 10596 | 0.400 | ng | #-0.01 |
| 29) Chrysene-d12 | 20.947 | 240 | 8138 | 0.400 | ng | 0.00 |
| 35) Perylene-d12 | 23.026 | 264 | 8007 | 0.400 | ng | #-0.01 |
| System Monitoring Compounds | | | | | | |
| 4) 2-Fluorophenol | 4.917 | 112 | 1078 | 0.116 | ng | -0.02 |
| 5) Phenol-d6 | 6.470 | 99 | 611 | 0.055 | ng | -0.02 |
| 8) Nitrobenzene-d5 | 8.397 | 82 | 3163 | 0.583 | ng | -0.01 |
| 11) 2-Methylnaphthalene-d10 | 11.600 | 152 | 4895 | 0.352 | ng | -0.02 |
| 14) 2,4,6-Tribromophenol | 15.443 | 330 | 808 | 0.221 | ng | -0.01 |
| 15) 2-Fluorobiphenyl | 12.523 | 172 | 7648 | 0.393 | ng | -0.02 |
| 27) Fluoranthene-d10 | 18.747 | 212 | 11741 | 0.391 | ng | -0.01 |
| 31) Terphenyl-d14 | 19.375 | 244 | 8616 | 0.537 | ng | -0.01 |
| Target Compounds | | | | | | Qvalue |
| 2) 1,4-Dioxane | 2.974 | 88 | 1214 | 0.343 | ng | 98 |
| 3) n-Nitrosodimethylamine | 3.184 | 42 | 1981 | 0.672 | ng | # 1 |
| 30) Pyrene | 19.147 | 202 | 618 | 0.021 | ng | 97 |
| 34) Bis(2-ethylhexyl)phtha... | 20.893 | 149 | 1284 | 0.114 | ng | # 96 |

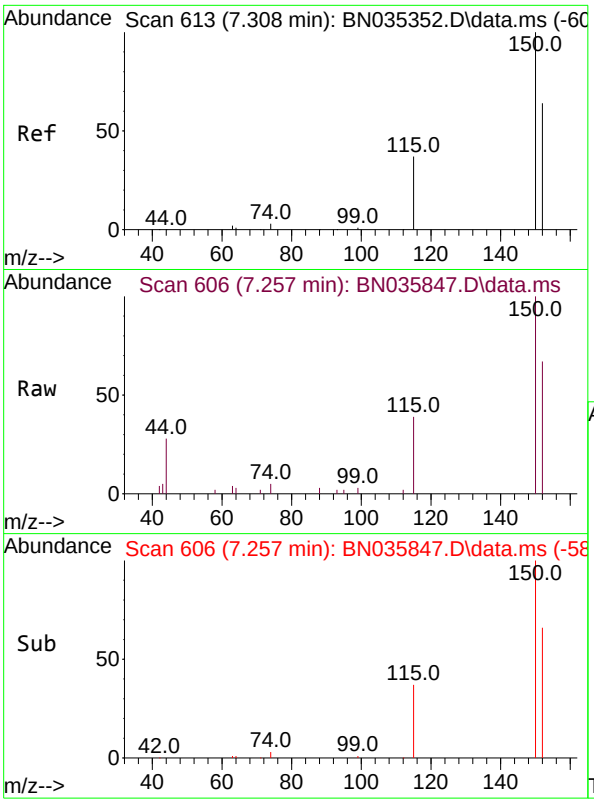
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
Data File : BN035847.D
Acq On : 26 Dec 2024 11:20
Operator : RC/JU
Sample : P5376-15
Misc :
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
TT162S1-20241219

Quant Time: Dec 27 00:40:32 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



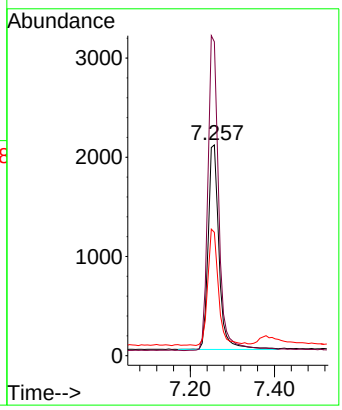


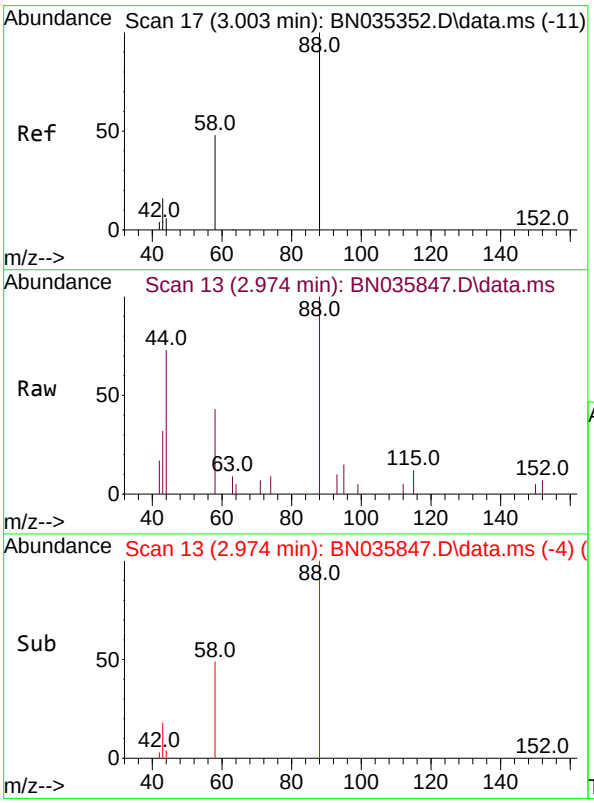

#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 6
Delta R.T. -0.015 min
Lab File: BN035847.D
Acq: 26 Dec 2024 11:20

**Instrument :**
BNA_N
**ClientSampleId :**
TT162S1-20241219

Tgt Ion:152 Resp: 3703

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 148.9 | 124.0 | 186.0 |
| 115 | 58.5 | 49.6 | 74.4 |

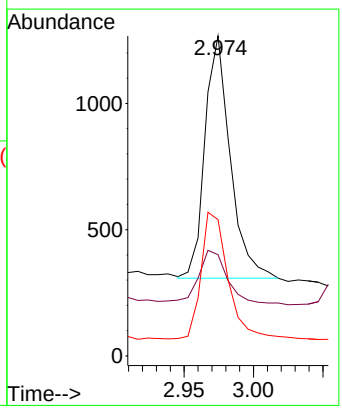


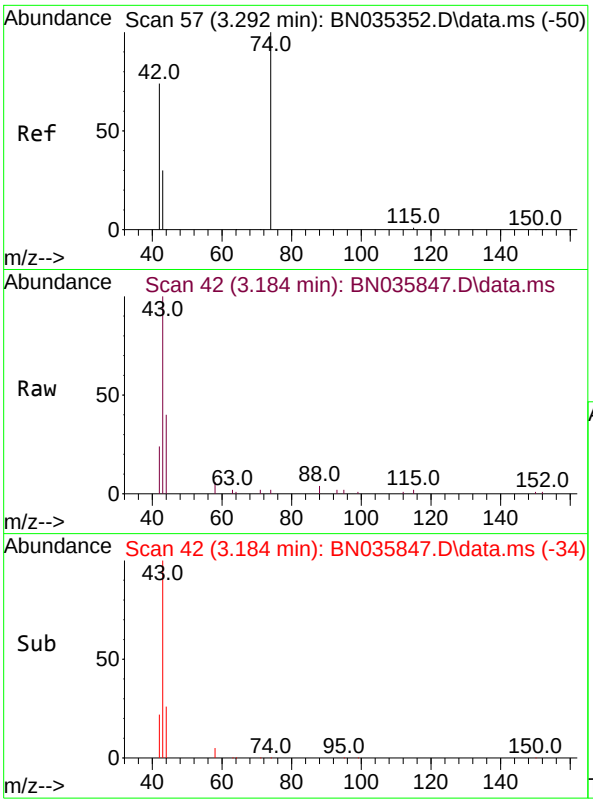




#2
1,4-Dioxane
Concen: 0.343 ng
RT: 2.974 min Scan# 13
Delta R.T. -0.008 min
Lab File: BN035847.D
Acq: 26 Dec 2024 11:20

Tgt Ion: 88 Resp: 1214

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 24.0 | 17.2 | 25.8 |
| 58 | 55.2 | 44.5 | 66.7 |



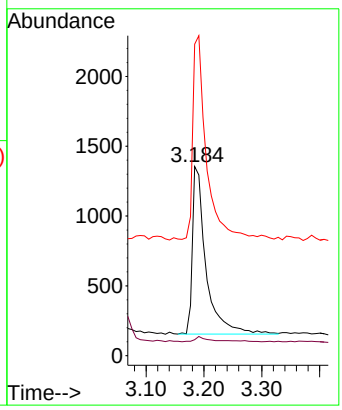


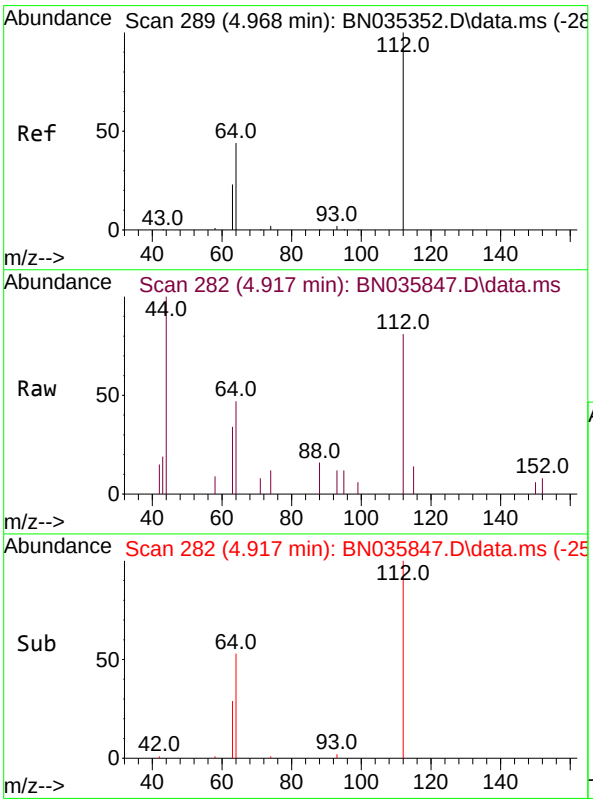

#3
n-Nitrosodimethylamine
Concen: 0.672 ng
RT: 3.184 min Scan# 4
Delta R.T. -0.094 min
Lab File: BN035847.D
Acq: 26 Dec 2024 11:20

**Instrument :**
BNA_N
**ClientSampleId :**
TT162S1-20241219

Tgt Ion: 42 Resp: 1981

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 4.1 | 124.9 | 187.3# |
| 44 | 122.5 | 2.2 | 3.4# |

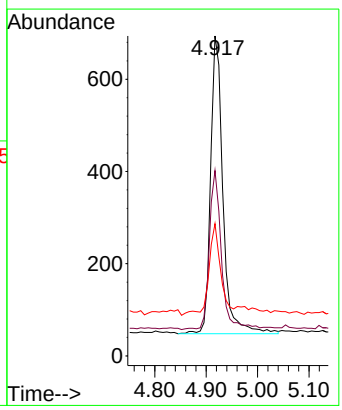


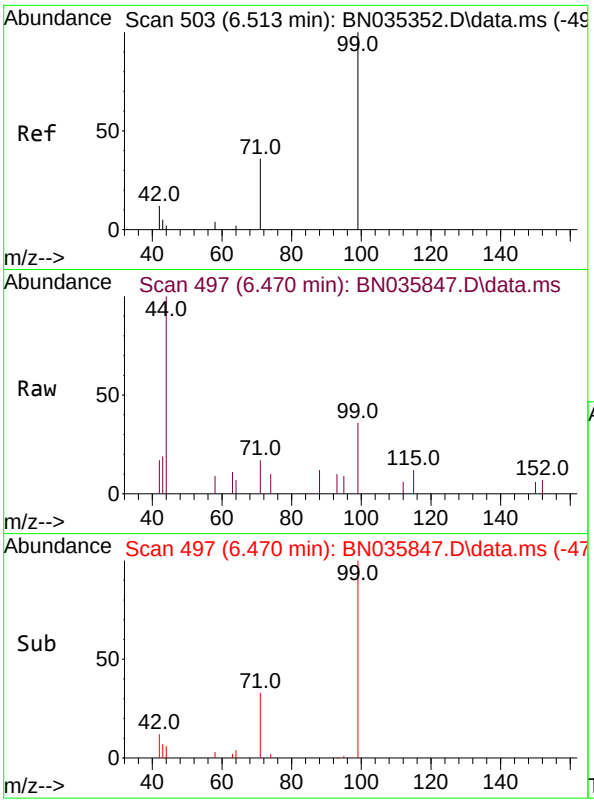




#4
2-Fluorophenol
Concen: 0.116 ng
RT: 4.917 min Scan# 282
Delta R.T. -0.022 min
Lab File: BN035847.D
Acq: 26 Dec 2024 11:20

Tgt Ion:112 Resp: 1078

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 52.5 | 39.8 | 59.8 |
| 63 | 29.4 | 21.0 | 31.6 |



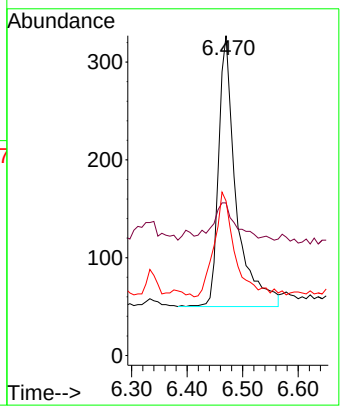


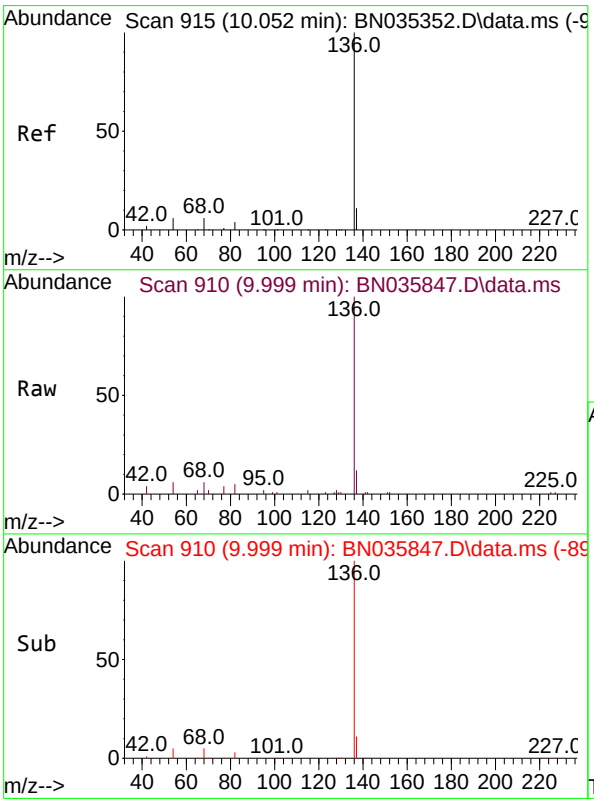

#5
Phenol-d6
Concen: 0.055 ng
RT: 6.470 min Scan# 4
Delta R.T. -0.022 min
Lab File: BN035847.D
Acq: 26 Dec 2024 11:20

**Instrument :**
BNA_N
**ClientSampleId :**
TT162S1-20241219

Tgt Ion: 99 Resp: 611

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 20.9 | 11.4 | 17.2# |
| 71 | 46.6 | 29.3 | 43.9# |

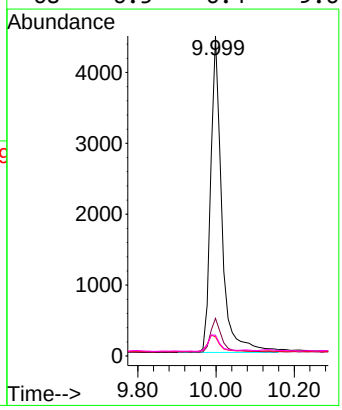


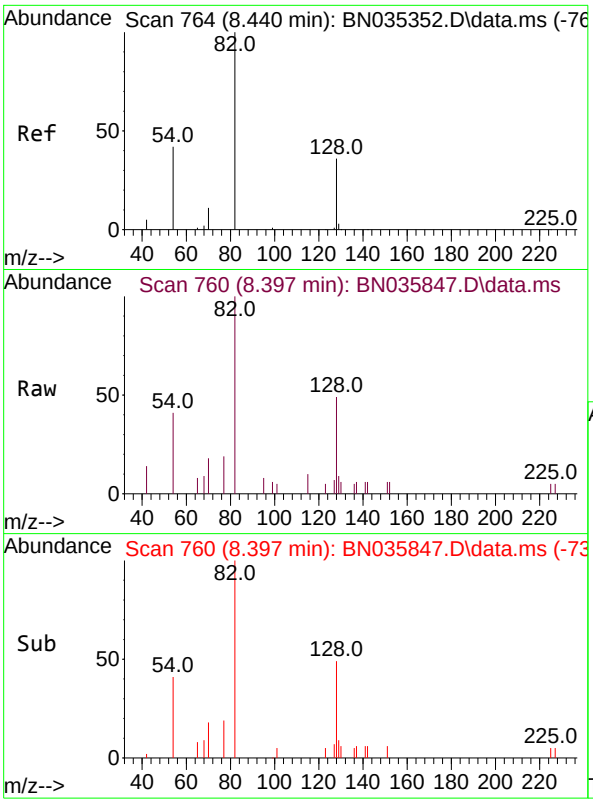




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 9.999 min Scan# 910
Delta R.T. -0.021 min
Lab File: BN035847.D
Acq: 26 Dec 2024 11:20

Tgt Ion:136 Resp: 8876

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.7 | 10.2 | 15.2 |
| 54 | 6.0 | 6.1 | 9.1# |
| 68 | 6.5 | 6.4 | 9.6 |



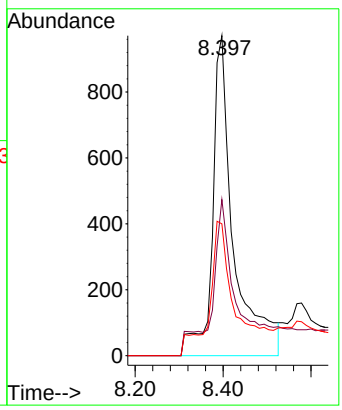


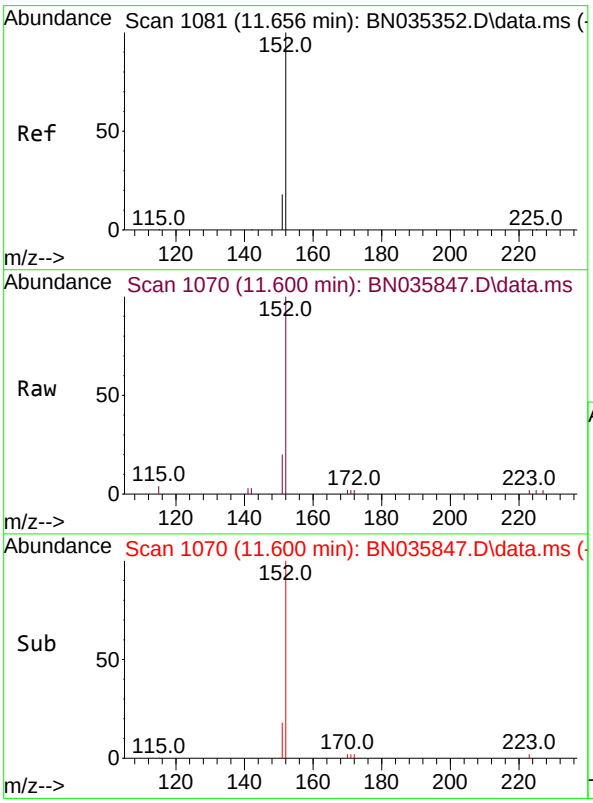

#8
Nitrobenzene-d5
Concen: 0.583 ng
RT: 8.397 min Scan# 7
Delta R.T. -0.011 min
Lab File: BN035847.D
Acq: 26 Dec 2024 11:20

**Instrument :**
BNA_N
**ClientSampleId :**
TT162S1-20241219

Tgt Ion: 82 Resp: 3163

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 48.8 | 33.4 | 50.0 |
| 54 | 41.2 | 36.7 | 55.1 |

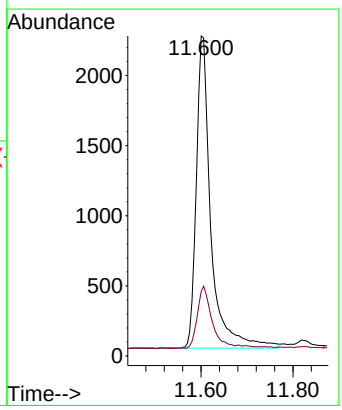


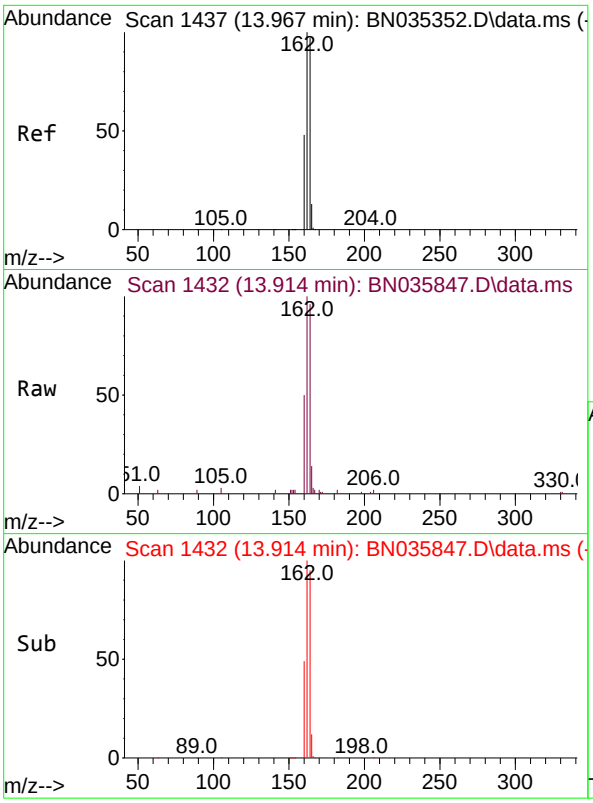




#11
2-Methylnaphthalene-d10
Concen: 0.352 ng
RT: 11.600 min Scan# 1070
Delta R.T. -0.020 min
Lab File: BN035847.D
Acq: 26 Dec 2024 11:20

Tgt Ion:152 Resp: 4895

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 19.7 | 16.6 | 25.0 |



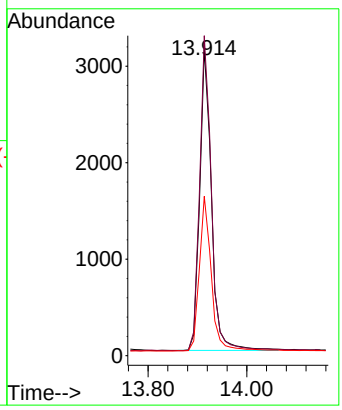


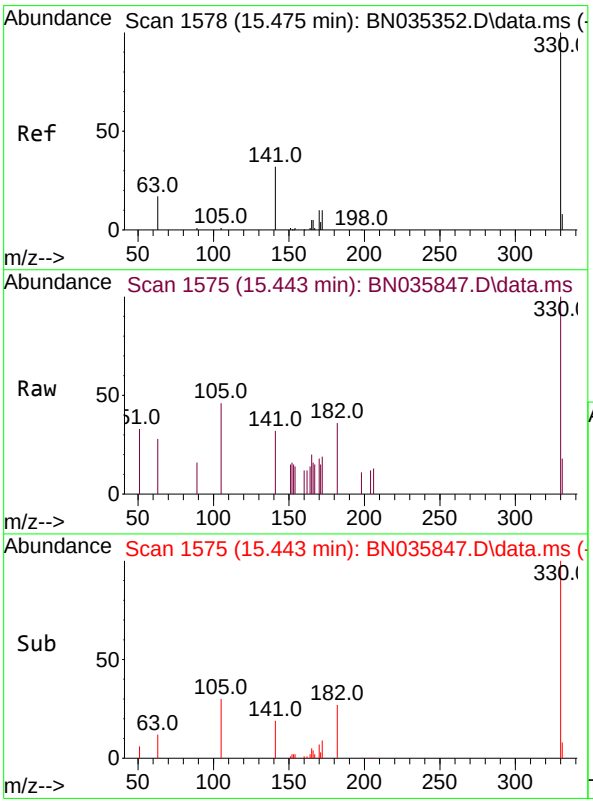

#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.914 min Scan# 14
Delta R.T. -0.021 min
Lab File: BN035847.D
Acq: 26 Dec 2024 11:20

**Instrument :**
BNA_N
**ClientSampleId :**
TT162S1-20241219

Tgt Ion:164 Resp: 5154

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 104.4 | 82.2 | 123.2 |
| 160 | 52.0 | 40.1 | 60.1 |

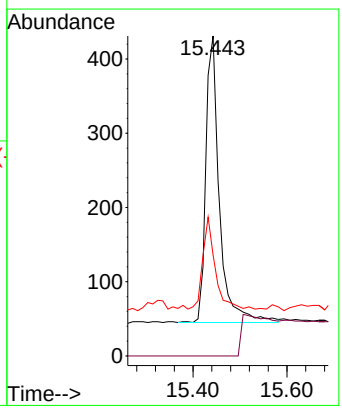


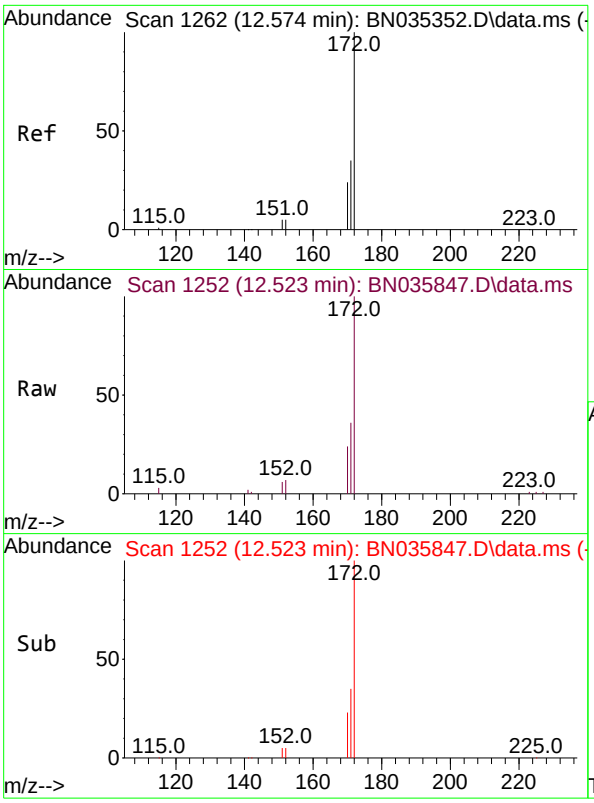




#14
2,4,6-Tribromophenol
Concen: 0.221 ng
RT: 15.443 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN035847.D
Acq: 26 Dec 2024 11:20

Tgt Ion:330 Resp: 808

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 0.0 | 0.0 | 0.0 |
| 141 | 28.6 | 26.6 | 40.0 |



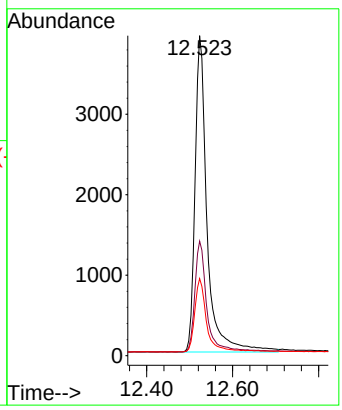


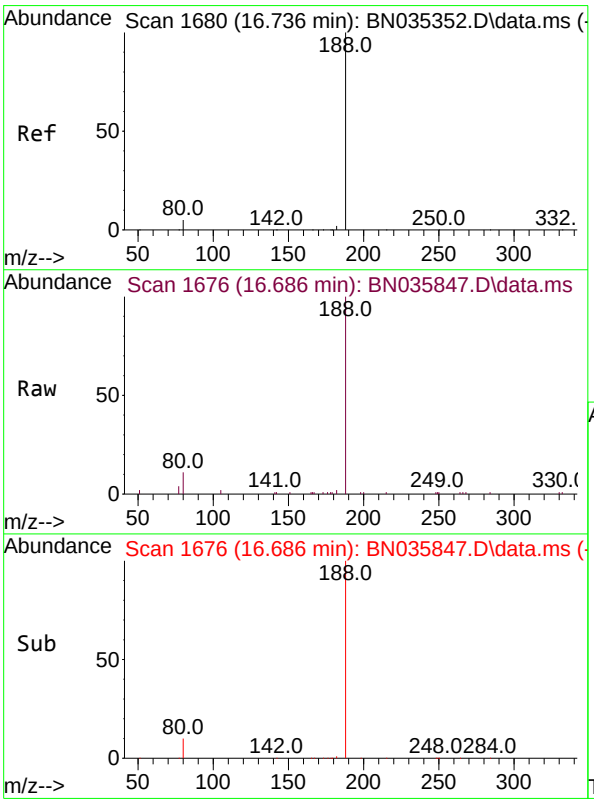

#15
2-Fluorobiphenyl
Concen: 0.393 ng
RT: 12.523 min Scan# 1
Delta R.T. -0.020 min
Lab File: BN035847.D
Acq: 26 Dec 2024 11:20

**Instrument :**
BNA_N
**ClientSampleId :**
TT162S1-20241219

Tgt Ion:172 Resp: 7648

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 35.8 | 29.0 | 43.4 |
| 170 | 24.1 | 19.8 | 29.8 |

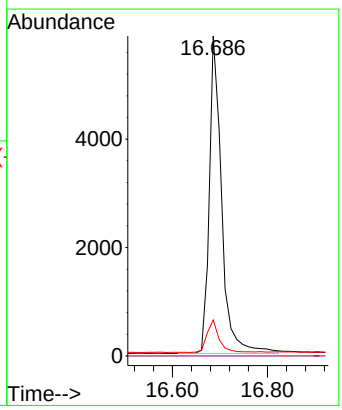


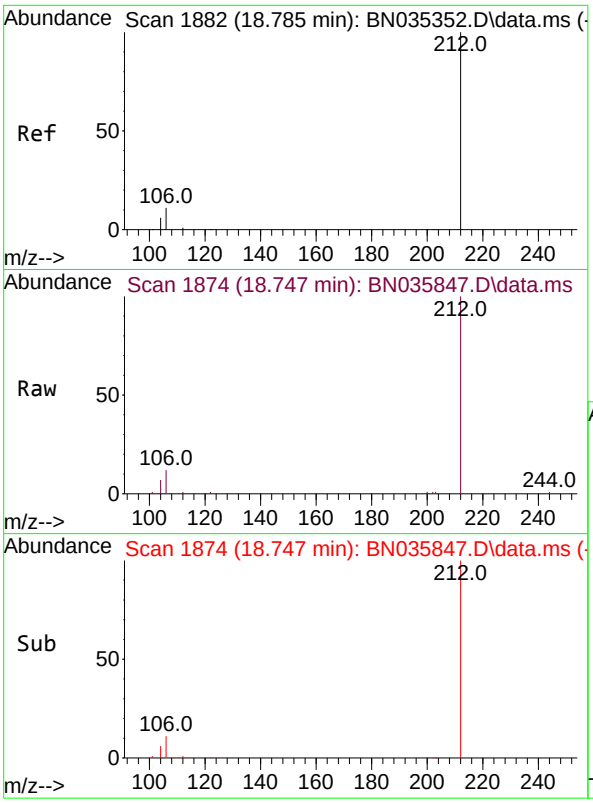




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.686 min Scan# 1676
Delta R.T. -0.013 min
Lab File: BN035847.D
Acq: 26 Dec 2024 11:20

Tgt Ion:188 Resp: 10596

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 11.2 | 4.6 | 6.8# |



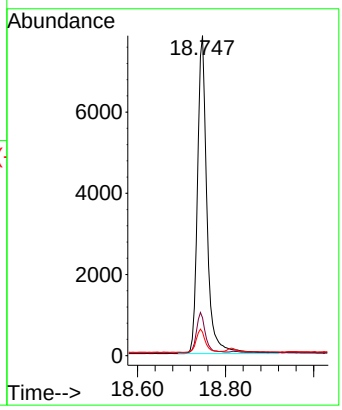


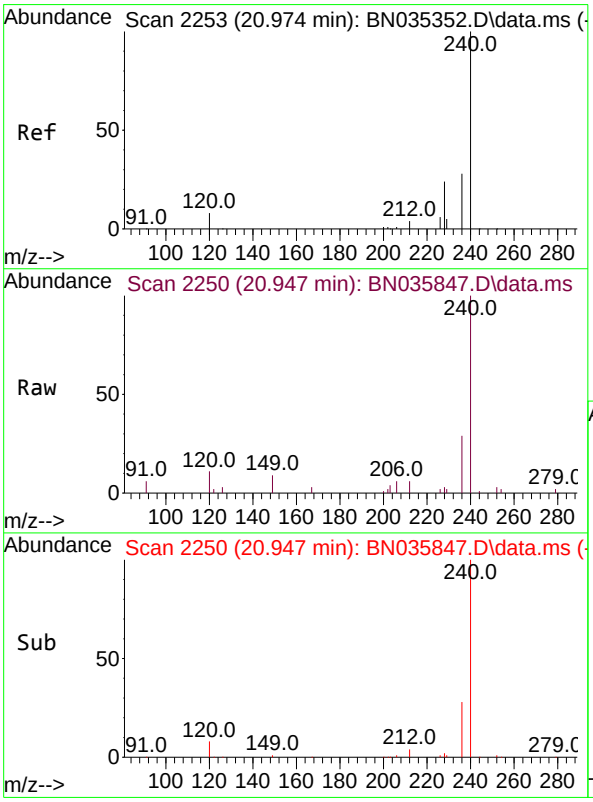

#27
Fluoranthene-d10
Concen: 0.391 ng
RT: 18.747 min Scan# 1
Delta R.T. -0.014 min
Lab File: BN035847.D
Acq: 26 Dec 2024 11:20

**Instrument :**
BNA_N
**ClientSampleId :**
TT162S1-20241219

Tgt Ion:212 Resp: 11741

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 11.9 | 9.2 | 13.8 |
| 104 | 6.9 | 5.3 | 7.9 |

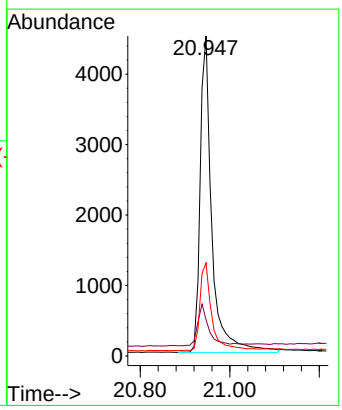


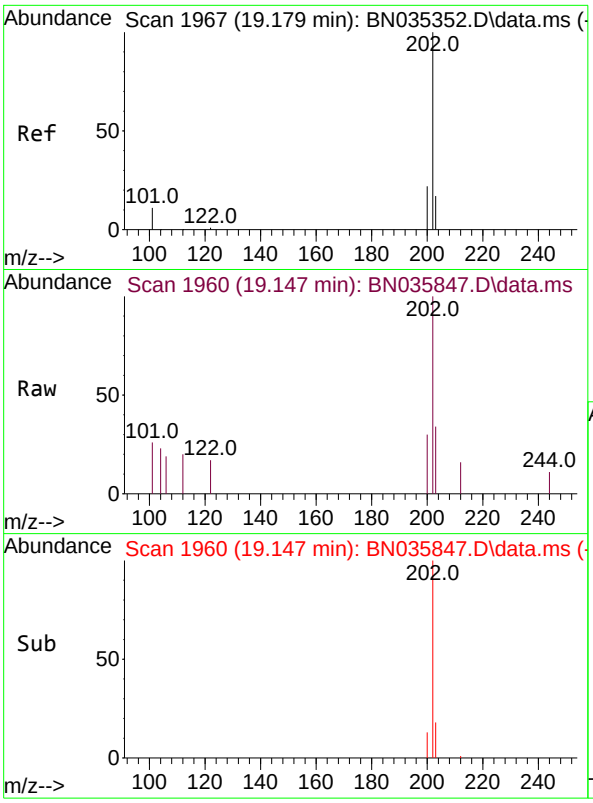




#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2250
Delta R.T. -0.009 min
Lab File: BN035847.D
Acq: 26 Dec 2024 11:20

Tgt Ion:240 Resp: 8138

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 11.3 | 7.9 | 11.9 |
| 236 | 29.1 | 22.9 | 34.3 |



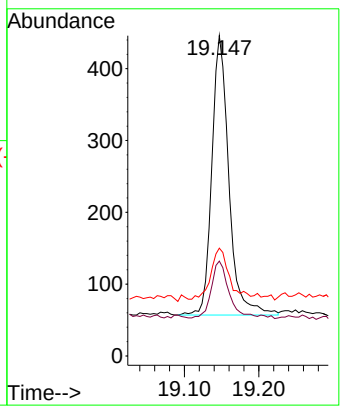


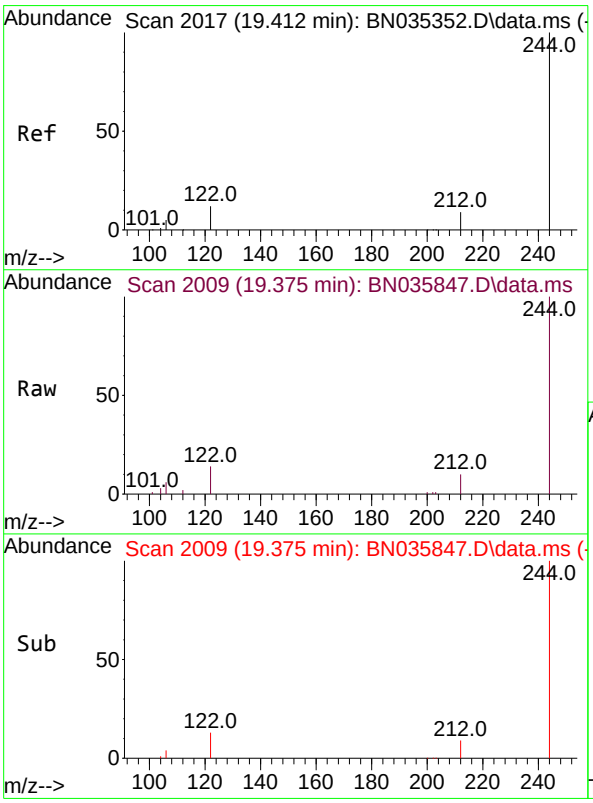

#30
Pyrene
Concen: 0.021 ng
RT: 19.147 min Scan# 1
Delta R.T. -0.014 min
Lab File: BN035847.D
Acq: 26 Dec 2024 11:20

**Instrument :**
BNA_N
**ClientSampleId :**
TT162S1-20241219

Tgt Ion:202 Resp: 618

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 20.7 | 17.0 | 25.4 |
| 203 | 20.2 | 14.3 | 21.5 |

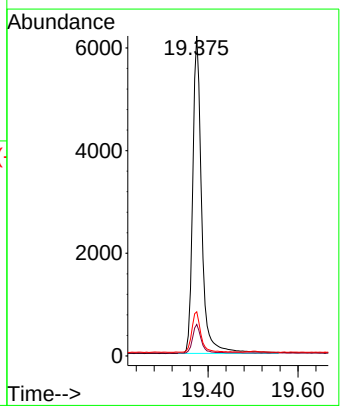


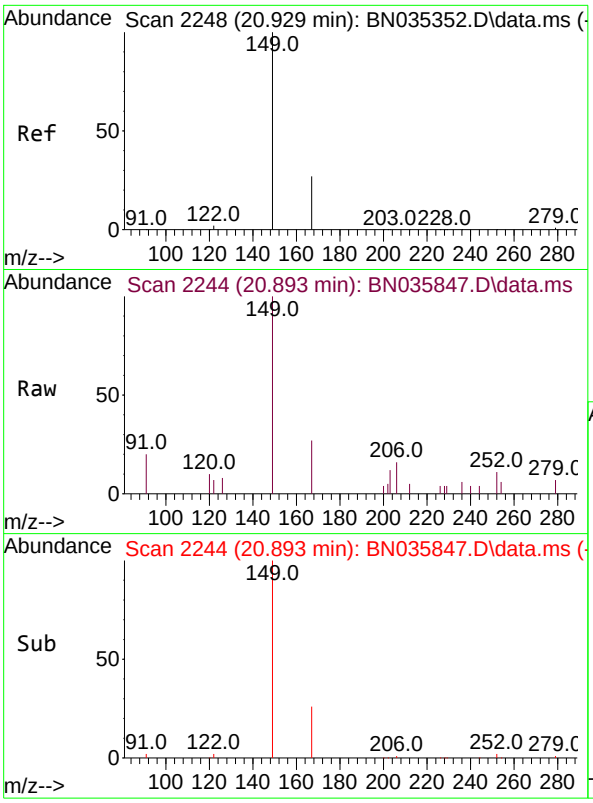




#31
Terphenyl-d14
Concen: 0.537 ng
RT: 19.375 min Scan# 2009
Delta R.T. -0.014 min
Lab File: BN035847.D
Acq: 26 Dec 2024 11:20

Tgt Ion:244 Resp: 8616

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 9.8 | 8.1 | 12.1 |
| 122 | 13.8 | 10.3 | 15.5 |



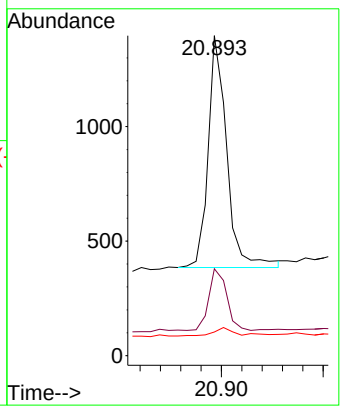


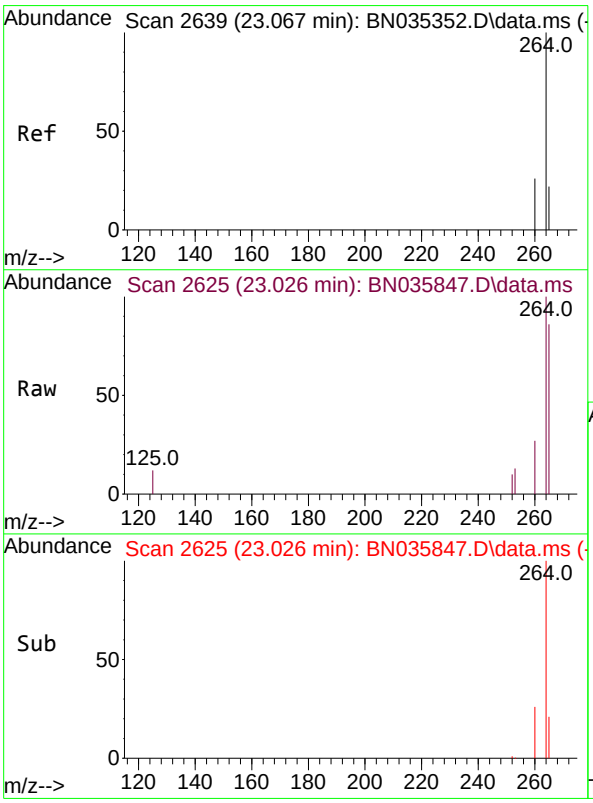

#34
Bis(2-ethylhexyl)phthalate
Concen: 0.114 ng
RT: 20.893 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035847.D
Acq: 26 Dec 2024 11:20

**Instrument :**
BNA_N
**ClientSampleId :**
TT162S1-20241219

Tgt Ion:149 Resp: 1284

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 25.5 | 22.2 | 33.4 |
| 279 | 4.3 | 2.7 | 4.1# |

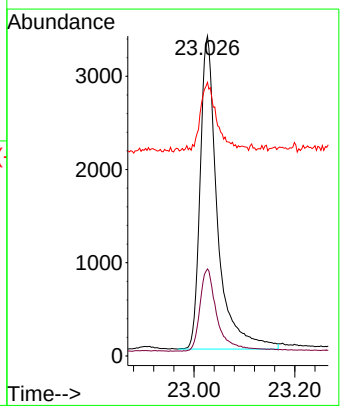



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.026 min Scan# 2625
Delta R.T. -0.015 min
Lab File: BN035847.D
Acq: 26 Dec 2024 11:20

Tgt Ion:264 Resp: 8007

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 27.2 | 21.4 | 32.2 |
| 265 | 85.5 | 40.2 | 60.4# |



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
Data File : BN035848.D
Acq On : 26 Dec 2024 11:56
Operator : RC/JU
Sample : P5376-19
Misc :
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
TT188S1-20241219

Quant Time: Dec 27 00:40:39 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

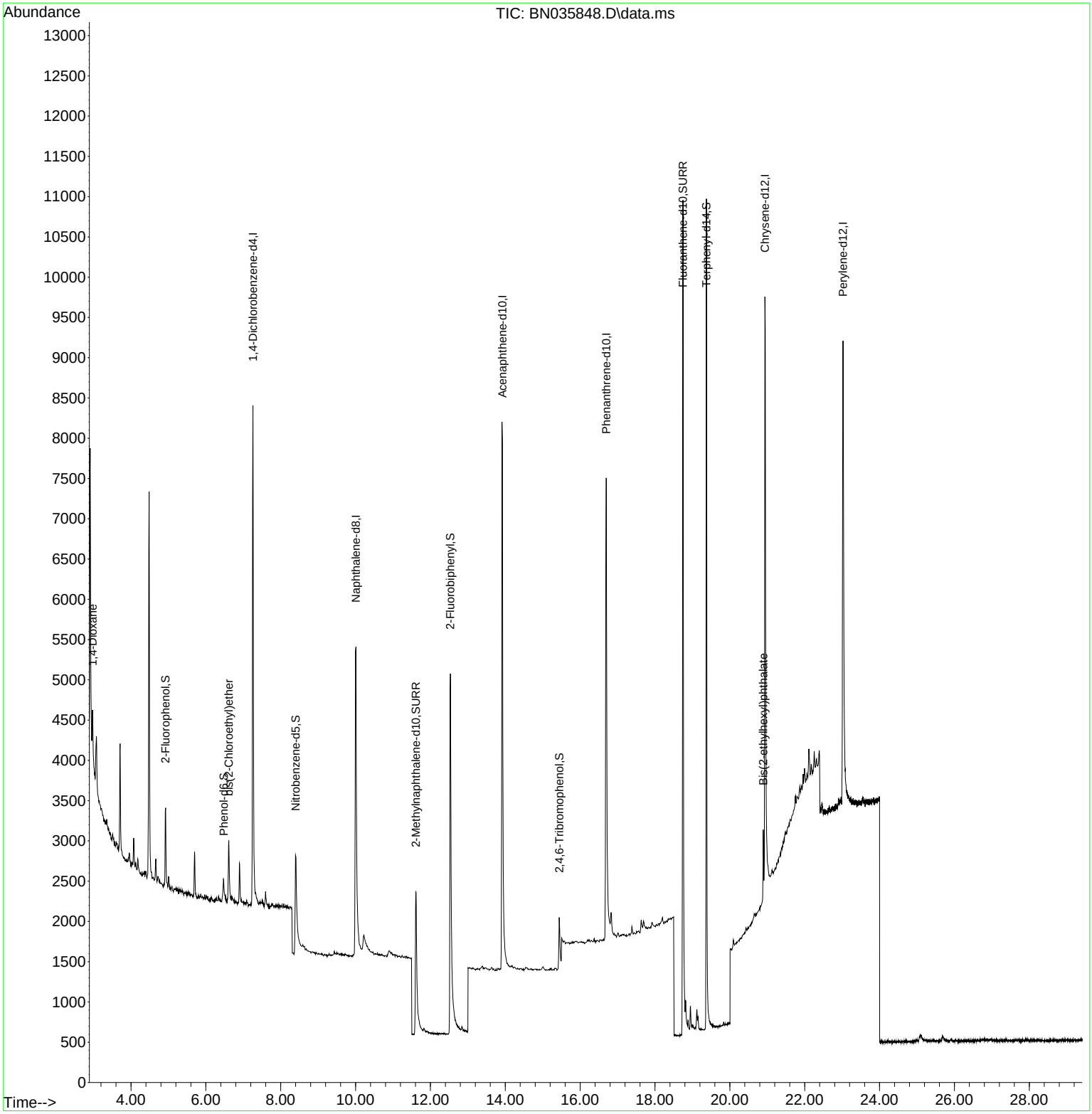
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.257 | 152 | 3480 | 0.400 | ng | -0.01 |
| 7) Naphthalene-d8 | 10.009 | 136 | 8196 | 0.400 | ng | -0.01 |
| 13) Acenaphthene-d10 | 13.925 | 164 | 5304 | 0.400 | ng | -0.01 |
| 19) Phenanthrene-d10 | 16.698 | 188 | 11548 | 0.400 | ng | # 0.00 |
| 29) Chrysene-d12 | 20.938 | 240 | 9719 | 0.400 | ng | #-0.02 |
| 35) Perylene-d12 | 23.024 | 264 | 9432 | 0.400 | ng | #-0.02 |
| System Monitoring Compounds | | | | | | |
| 4) 2-Fluorophenol | 4.925 | 112 | 914 | 0.105 | ng | -0.01 |
| 5) Phenol-d6 | 6.477 | 99 | 498 | 0.048 | ng | -0.01 |
| 8) Nitrobenzene-d5 | 8.397 | 82 | 2399 | 0.479 | ng | -0.01 |
| 11) 2-Methylnaphthalene-d10 | 11.611 | 152 | 4509 | 0.352 | ng | -0.01 |
| 14) 2,4,6-Tribromophenol | 15.443 | 330 | 838 | 0.223 | ng | -0.01 |
| 15) 2-Fluorobiphenyl | 12.534 | 172 | 7269 | 0.363 | ng | -0.01 |
| 27) Fluoranthene-d10 | 18.748 | 212 | 14226 | 0.435 | ng | -0.01 |
| 31) Terphenyl-d14 | 19.375 | 244 | 10878 | 0.567 | ng | -0.01 |
| Target Compounds | | | | | | Qvalue |
| 2) 1,4-Dioxane | 2.975 | 88 | 577 | 0.173 | ng | # 83 |
| 6) bis(2-Chloroethyl)ether | 6.615 | 93 | 1634 | 0.186 | ng | # 32 |
| 34) Bis(2-ethylhexyl)phtha... | 20.893 | 149 | 751 | 0.056 | ng | # 95 |

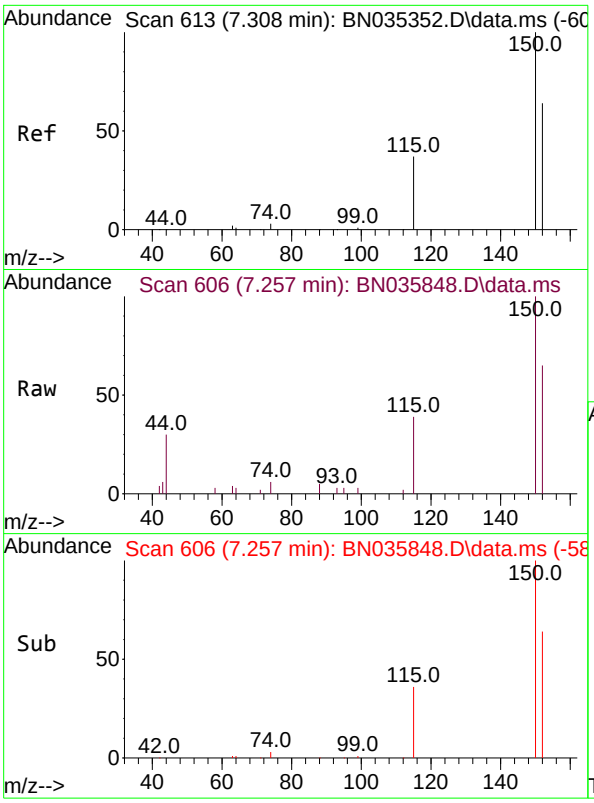
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
Data File : BN035848.D
Acq On : 26 Dec 2024 11:56
Operator : RC/JU
Sample : P5376-19
Misc :
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
TT188S1-20241219

Quant Time: Dec 27 00:40:39 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



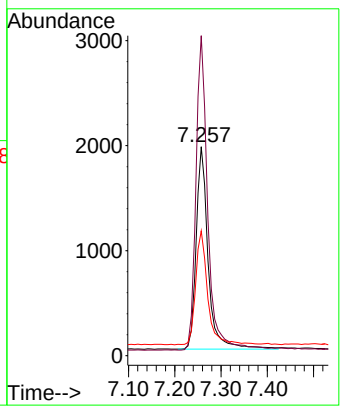


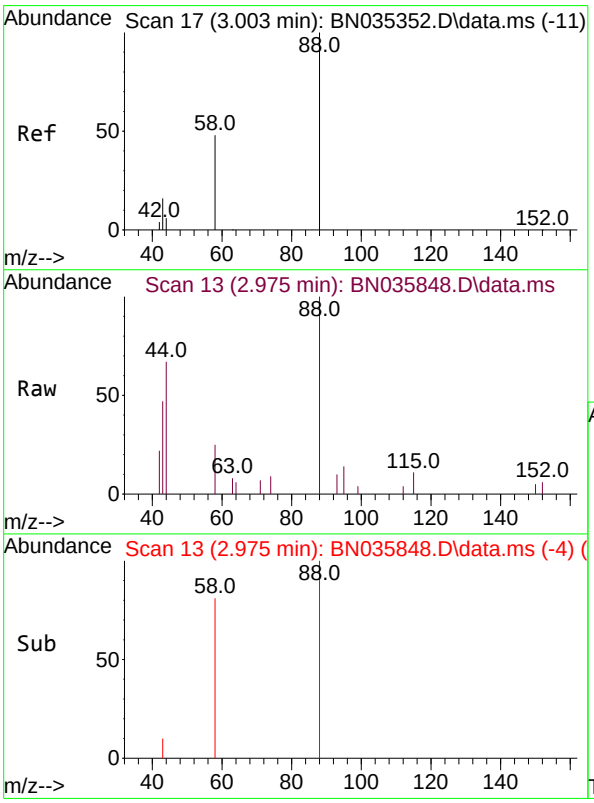

#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 6
Delta R.T. -0.015 min
Lab File: BN035848.D
Acq: 26 Dec 2024 11:56

**Instrument :**
BNA_N
**ClientSampleId :**
TT188S1-20241219

Tgt Ion:152 Resp: 3480

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 153.1 | 124.0 | 186.0 |
| 115 | 59.7 | 49.6 | 74.4 |

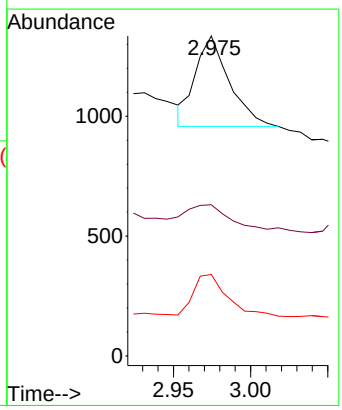


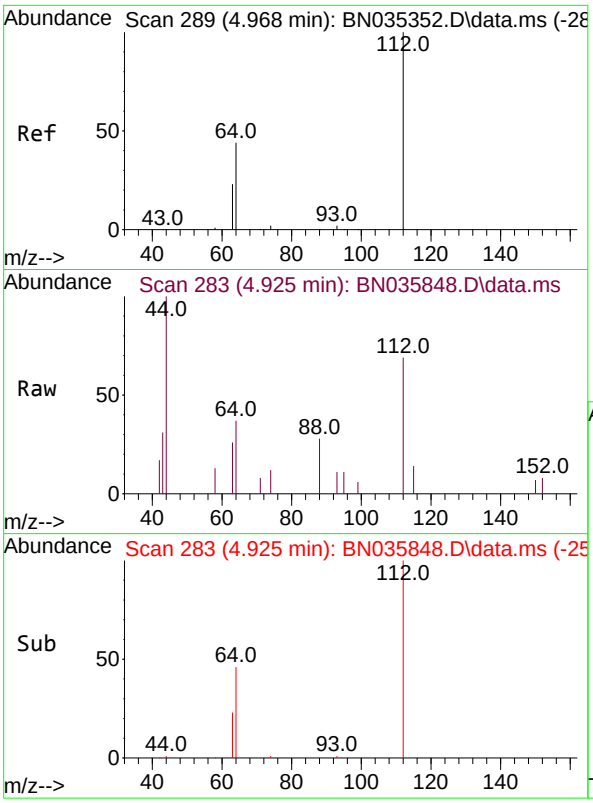




#2
1,4-Dioxane
Concen: 0.173 ng
RT: 2.975 min Scan# 13
Delta R.T. -0.007 min
Lab File: BN035848.D
Acq: 26 Dec 2024 11:56

Tgt Ion: 88 Resp: 577

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 34.5 | 17.2 | 25.8# |
| 58 | 46.1 | 44.5 | 66.7 |



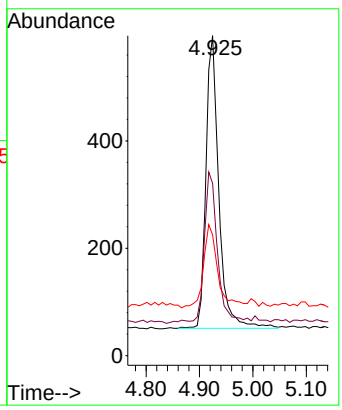


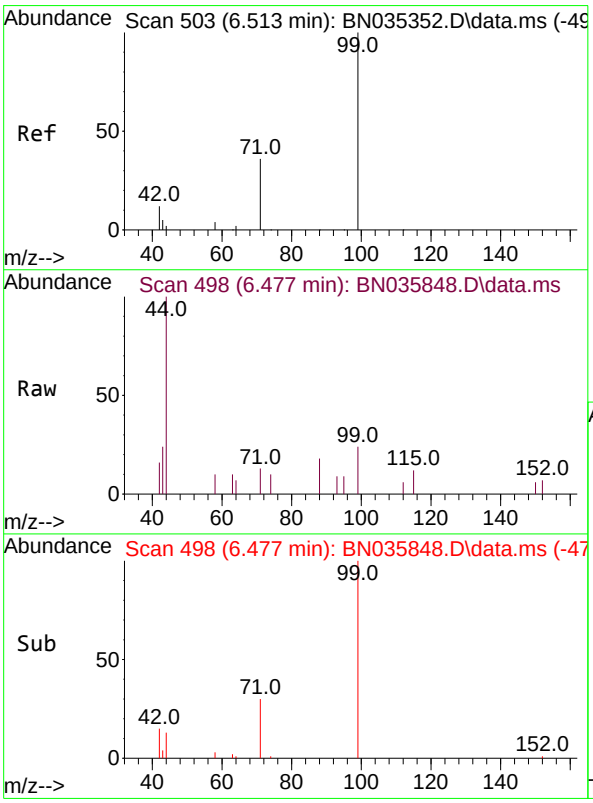

#4
2-Fluorophenol
Concen: 0.105 ng
RT: 4.925 min Scan# 2
Delta R.T. -0.014 min
Lab File: BN035848.D
Acq: 26 Dec 2024 11:56

**Instrument :**
BNA_N
**ClientSampleId :**
TT188S1-20241219

Tgt Ion:112 Resp: 914

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 50.8 | 39.8 | 59.8 |
| 63 | 31.6 | 21.0 | 31.6# |

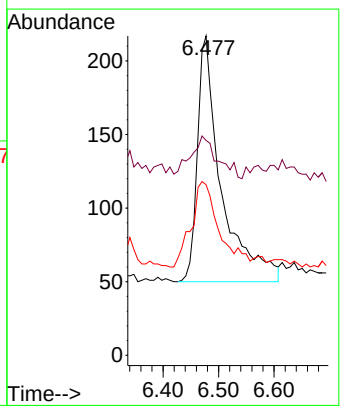


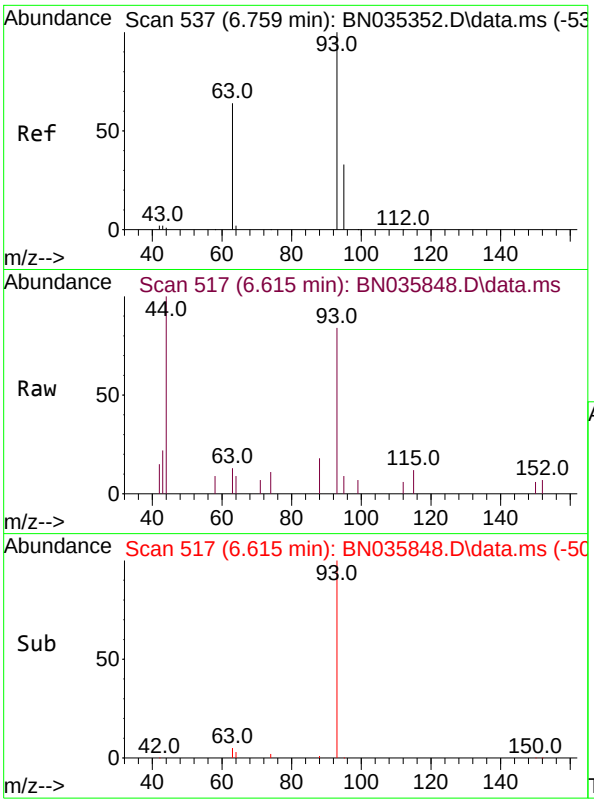




#5
Phenol-d6
Concen: 0.048 ng
RT: 6.477 min Scan# 498
Delta R.T. -0.014 min
Lab File: BN035848.D
Acq: 26 Dec 2024 11:56

Tgt Ion: 99 Resp: 498

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 19.5 | 11.4 | 17.2# |
| 71 | 40.4 | 29.3 | 43.9 |



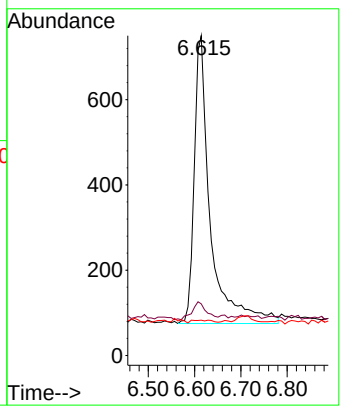


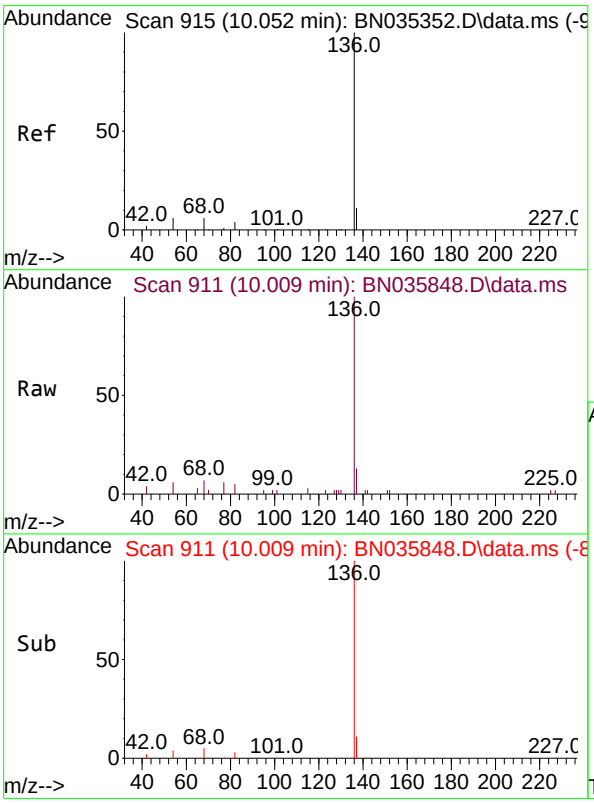

#6
bis(2-Chloroethyl)ether
Concen: 0.186 ng
RT: 6.615 min Scan# 5
Delta R.T. -0.116 min
Lab File: BN035848.D
Acq: 26 Dec 2024 11:56

**Instrument :**
BNA_N
**ClientSampleId :**
TT188S1-20241219

Tgt Ion: 93 Resp: 1634

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 5.6 | 50.4 | 75.6# |
| 95 | 0.0 | 25.7 | 38.5# |

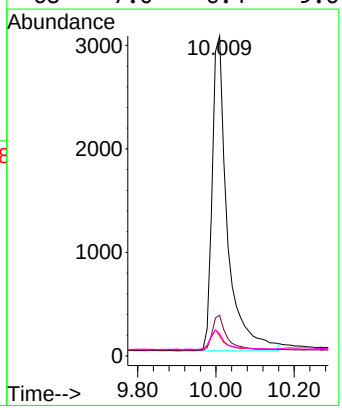


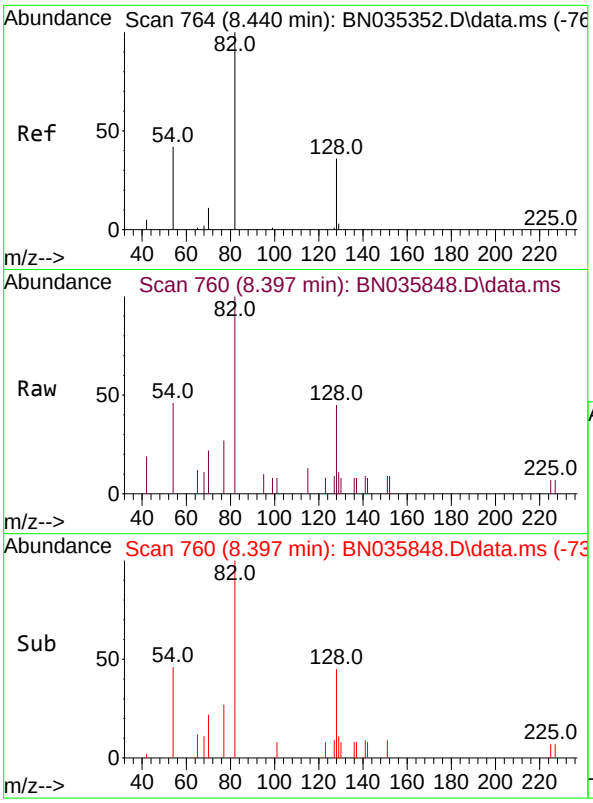




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 911
Delta R.T. -0.011 min
Lab File: BN035848.D
Acq: 26 Dec 2024 11:56

Tgt Ion:136 Resp: 8196

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 12.7 | 10.2 | 15.2 |
| 54 | 6.3 | 6.1 | 9.1 |
| 68 | 7.0 | 6.4 | 9.6 |



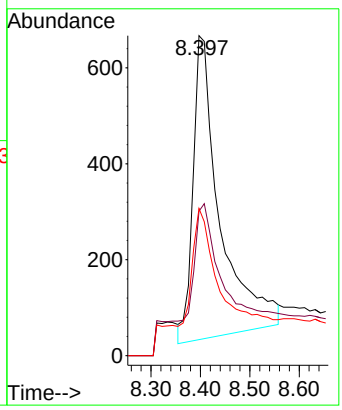


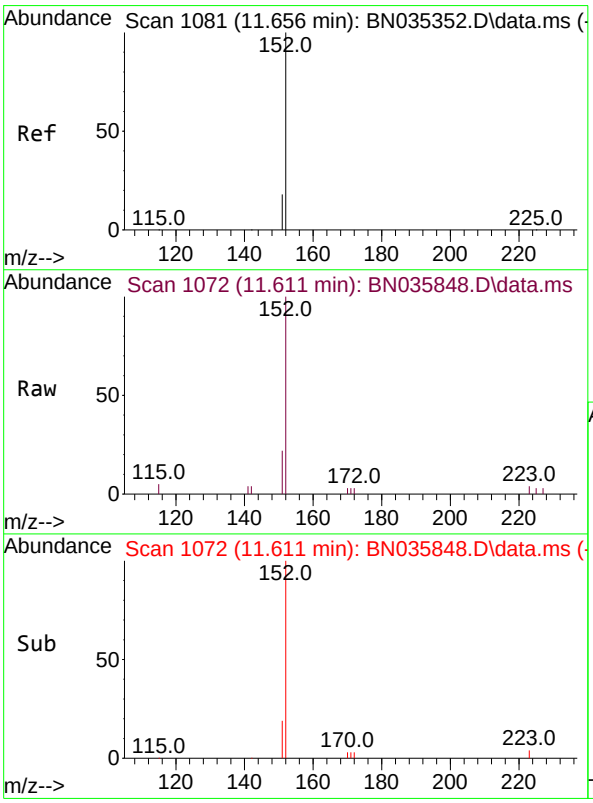

#8
Nitrobenzene-d5
Concen: 0.479 ng
RT: 8.397 min Scan# 7
Delta R.T. -0.011 min
Lab File: BN035848.D
Acq: 26 Dec 2024 11:56

**Instrument :**
BNA_N
**ClientSampleId :**
TT188S1-20241219

Tgt Ion: 82 Resp: 2399

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 45.1 | 33.4 | 50.0 |
| 54 | 46.0 | 36.7 | 55.1 |

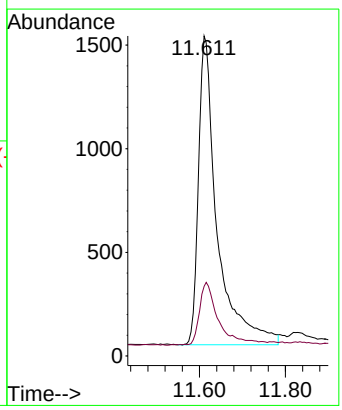


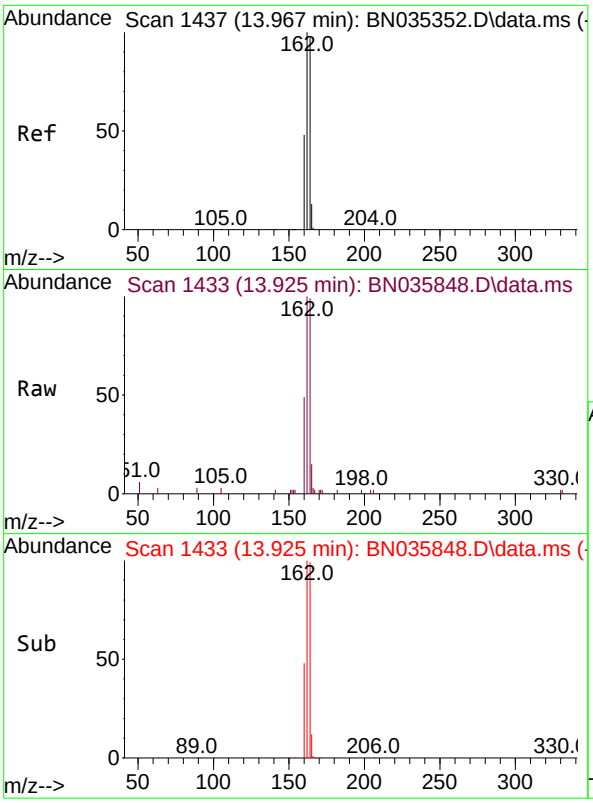




#11
2-Methylnaphthalene-d10
Concen: 0.352 ng
RT: 11.611 min Scan# 1072
Delta R.T. -0.010 min
Lab File: BN035848.D
Acq: 26 Dec 2024 11:56

Tgt Ion:152 Resp: 4509

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 21.1 | 16.6 | 25.0 |



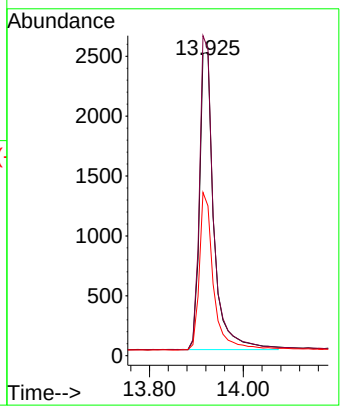


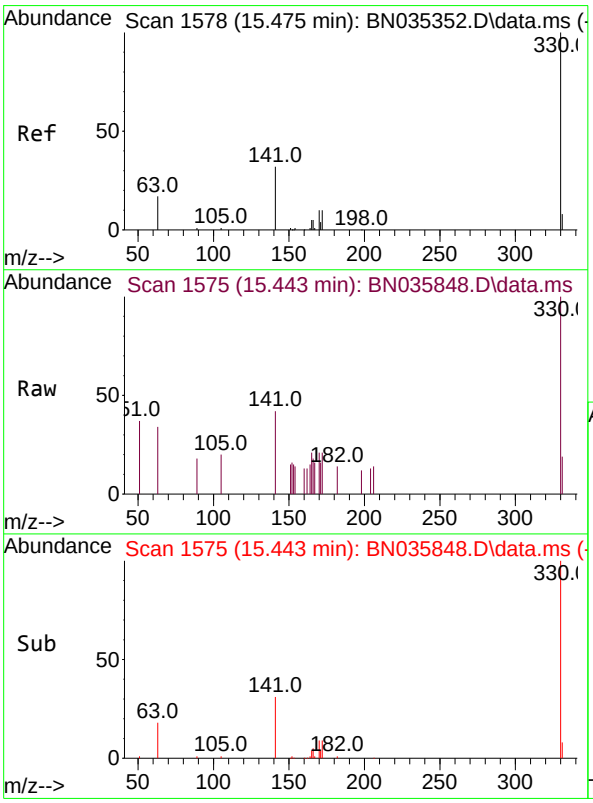

#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.925 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035848.D
Acq: 26 Dec 2024 11:56

**Instrument :**
BNA_N
**ClientSampleId :**
TT188S1-20241219

Tgt Ion:164 Resp: 5304

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 101.1 | 82.2 | 123.2 |
| 160 | 49.4 | 40.1 | 60.1 |

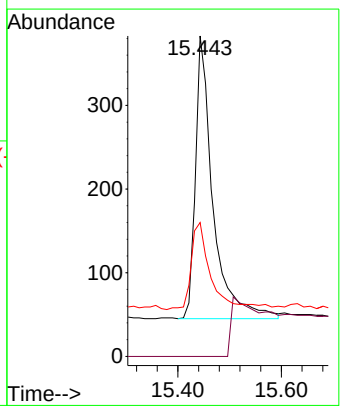


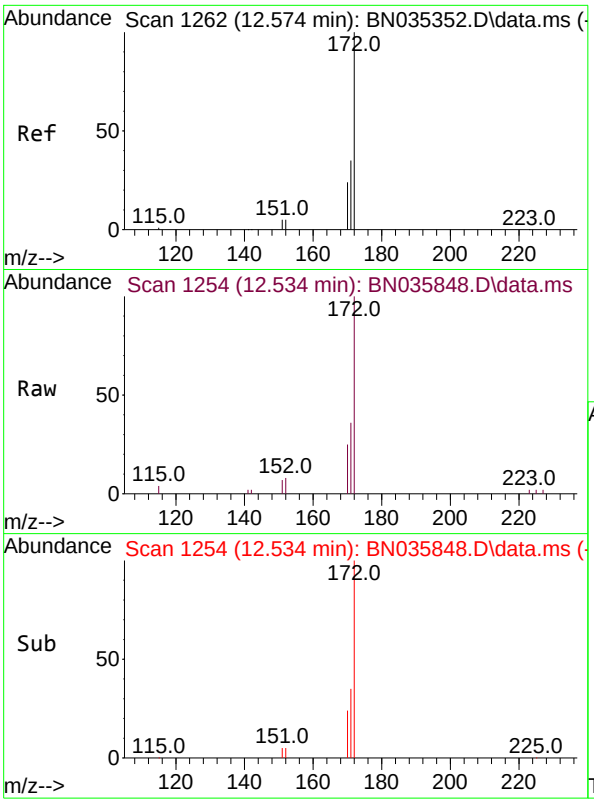




#14
2,4,6-Tribromophenol
Concen: 0.223 ng
RT: 15.443 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN035848.D
Acq: 26 Dec 2024 11:56

Tgt Ion:330 Resp: 838

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 0.0 | 0.0 | 0.0 |
| 141 | 34.1 | 26.6 | 40.0 |



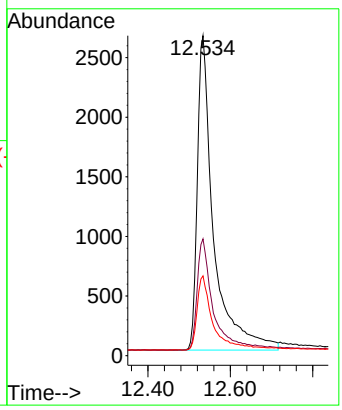


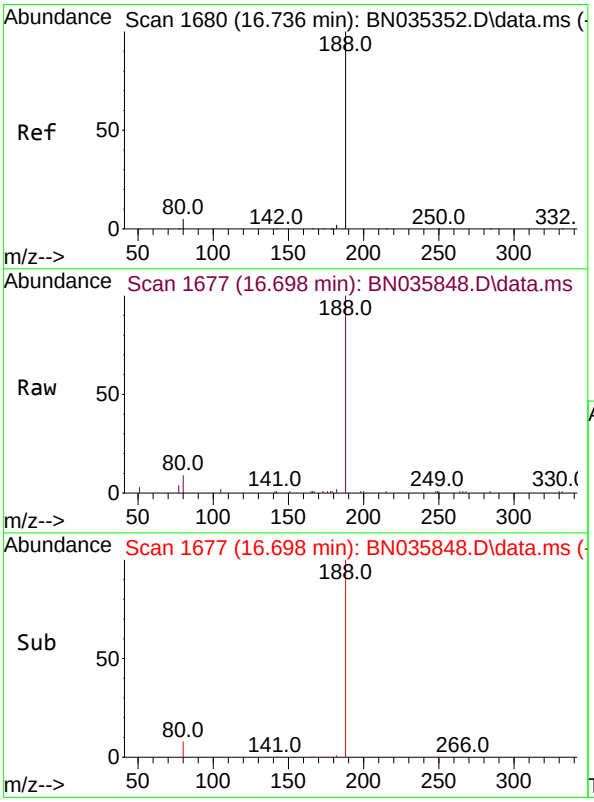

#15
2-Fluorobiphenyl
Concen: 0.363 ng
RT: 12.534 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035848.D
Acq: 26 Dec 2024 11:56

**Instrument :**
BNA_N
**ClientSampleId :**
TT188S1-20241219

Tgt Ion:172 Resp: 7269

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 36.5 | 29.0 | 43.4 |
| 170 | 24.9 | 19.8 | 29.8 |

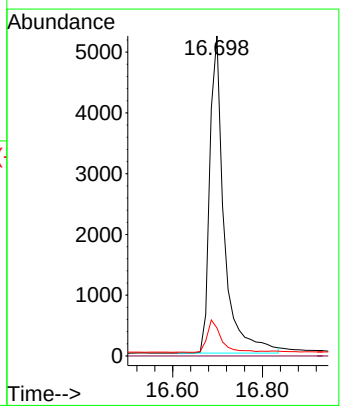


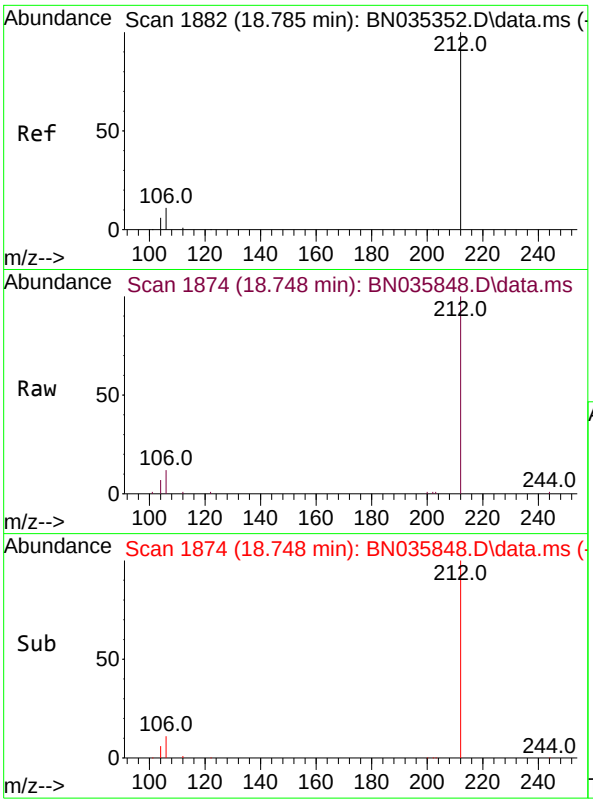




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1677
Delta R.T. 0.000 min
Lab File: BN035848.D
Acq: 26 Dec 2024 11:56

Tgt Ion:188 Resp: 11548

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 8.8 | 4.6 | 6.8# |



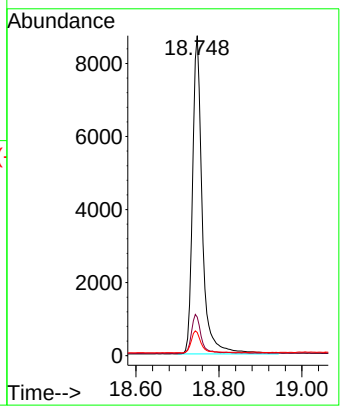


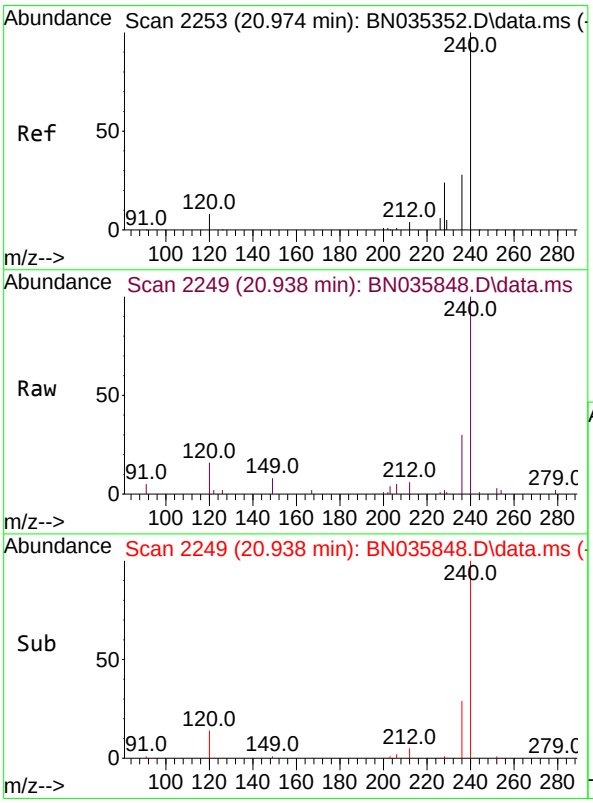

#27
Fluoranthene-d10
Concen: 0.435 ng
RT: 18.748 min Scan# 1
Delta R.T. -0.014 min
Lab File: BN035848.D
Acq: 26 Dec 2024 11:56

**Instrument :**
BNA_N
**ClientSampleId :**
TT188S1-20241219

Tgt Ion:212 Resp: 14226

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 12.1 | 9.2 | 13.8 |
| 104 | 7.2 | 5.3 | 7.9 |

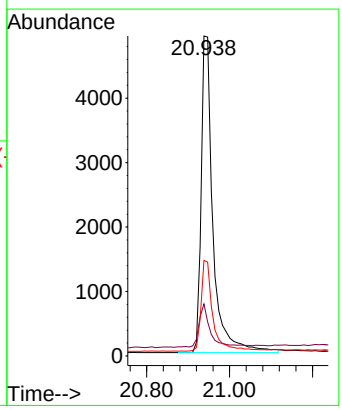


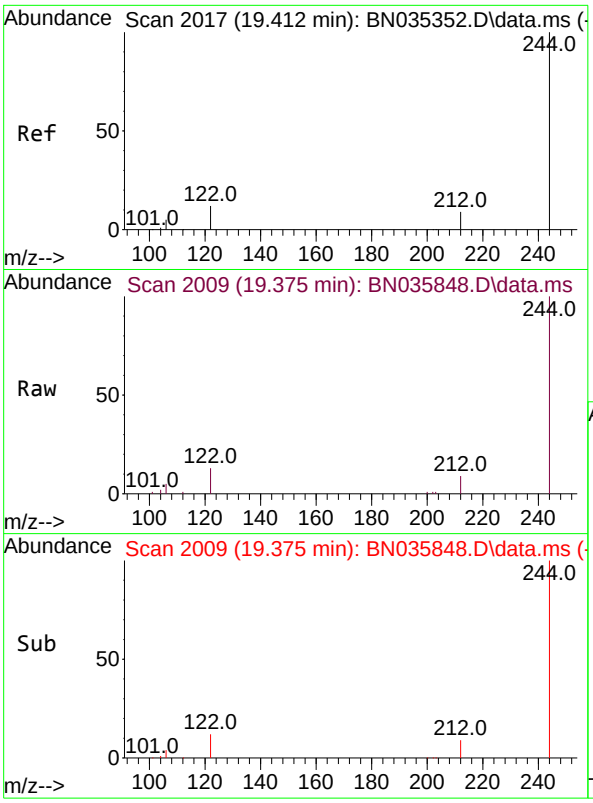




#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.938 min Scan# 2249
Delta R.T. -0.018 min
Lab File: BN035848.D
Acq: 26 Dec 2024 11:56

Tgt Ion:240 Resp: 9719

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 16.2 | 7.9 | 11.9# |
| 236 | 29.8 | 22.9 | 34.3 |



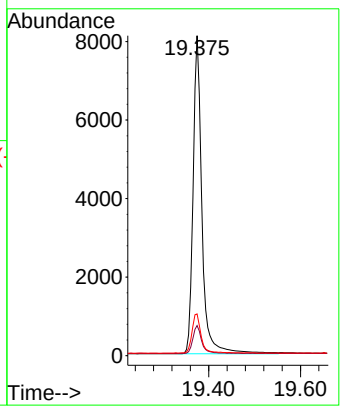


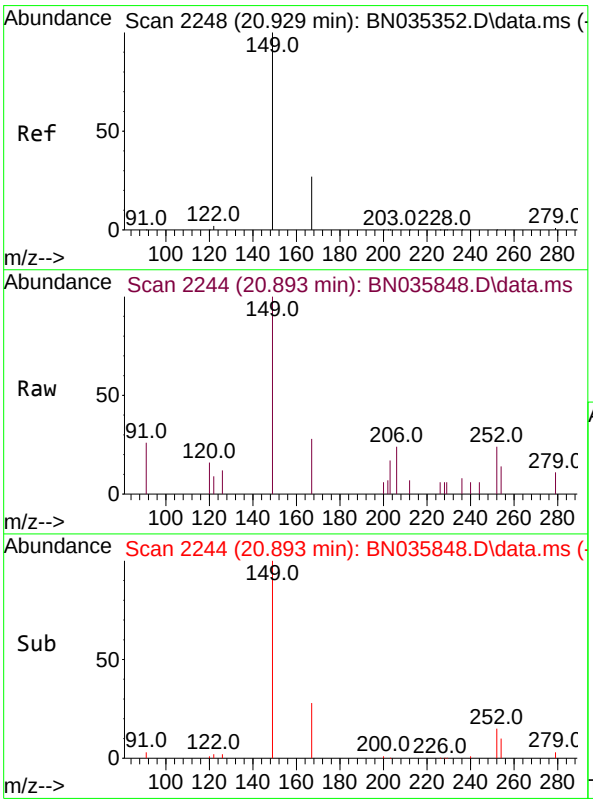

#31
Terphenyl-d14
Concen: 0.567 ng
RT: 19.375 min Scan# 2
Delta R.T. -0.014 min
Lab File: BN035848.D
Acq: 26 Dec 2024 11:56

**Instrument :**
BNA_N
**ClientSampleId :**
TT188S1-20241219

Tgt Ion:244 Resp: 10878

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 9.4 | 8.1 | 12.1 |
| 122 | 13.1 | 10.3 | 15.5 |

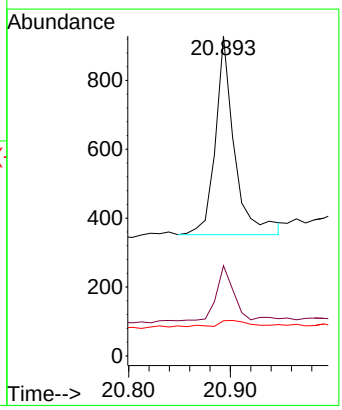


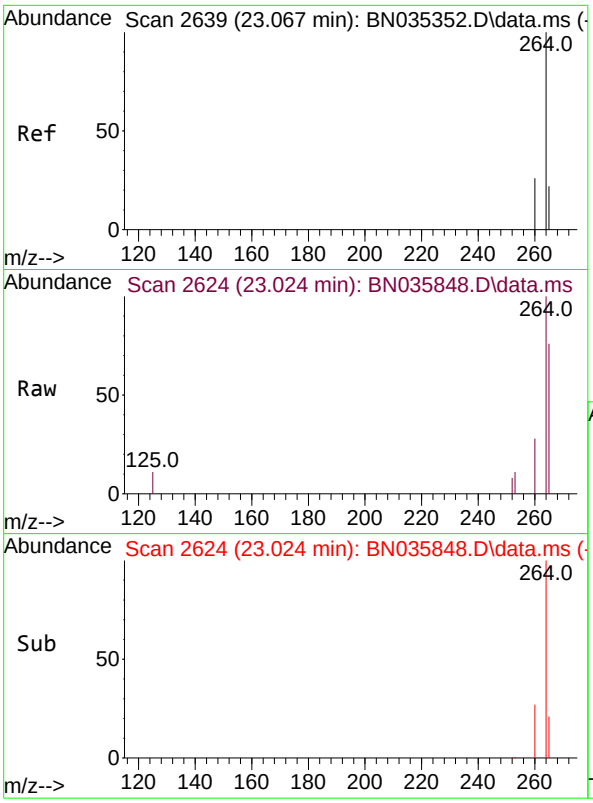




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.056 ng
RT: 20.893 min Scan# 2244
Delta R.T. -0.018 min
Lab File: BN035848.D
Acq: 26 Dec 2024 11:56

Tgt Ion:149 Resp: 751

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 25.2 | 22.2 | 33.4 |
| 279 | 6.0 | 2.7 | 4.1# |



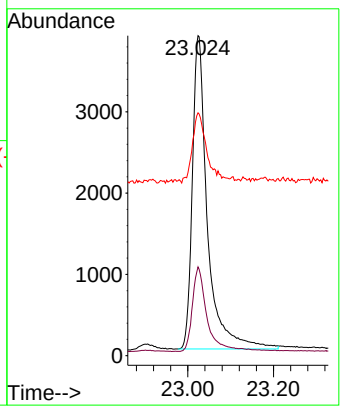



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.024 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035848.D
Acq: 26 Dec 2024 11:56

**Instrument :**
BNA_N
**ClientSampleId :**
TT188S1-20241219

Tgt Ion:264 Resp: 9432

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 27.7 | 21.4 | 32.2 |
| 265 | 75.9 | 40.2 | 60.4# |



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
Data File : BN035849.D
Acq On : 26 Dec 2024 12:31
Operator : RC/JU
Sample : P5376-01
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
TT205S1-20241218

Quant Time: Dec 27 00:40:49 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.257 | 152 | 3517 | 0.400 | ng | | -0.01 |
| 7) Naphthalene-d8 | 9.999 | 136 | 8324 | 0.400 | ng | | -0.02 |
| 13) Acenaphthene-d10 | 13.914 | 164 | 5358 | 0.400 | ng | | -0.02 |
| 19) Phenanthrene-d10 | 16.686 | 188 | 11302 | 0.400 | ng | | #-0.01 |
| 29) Chrysene-d12 | 20.938 | 240 | 8549 | 0.400 | ng | | #-0.02 |
| 35) Perylene-d12 | 23.021 | 264 | 7798 | 0.400 | ng | | #-0.02 |
| System Monitoring Compounds | | | | | | | |
| 4) 2-Fluorophenol | 4.925 | 112 | 846 | 0.096 | ng | | -0.01 |
| 5) Phenol-d6 | 6.477 | 99 | 442 | 0.042 | ng | | -0.01 |
| 8) Nitrobenzene-d5 | 8.397 | 82 | 2382 | 0.469 | ng | | -0.01 |
| 11) 2-Methylnaphthalene-d10 | 11.606 | 152 | 4536 | 0.348 | ng | | -0.02 |
| 14) 2,4,6-Tribromophenol | 15.443 | 330 | 860 | 0.226 | ng | | -0.01 |
| 15) 2-Fluorobiphenyl | 12.528 | 172 | 7437 | 0.367 | ng | | -0.02 |
| 27) Fluoranthene-d10 | 18.743 | 212 | 12788 | 0.399 | ng | | -0.02 |
| 31) Terphenyl-d14 | 19.375 | 244 | 9994 | 0.593 | ng | | -0.01 |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 2.974 | 88 | 1289 | 0.383 | ng | | 95 |
| 9) Naphthalene | 10.052 | 128 | 3939 | 0.179 | ng | | 96 |
| 12) 2-Methylnaphthalene | 11.682 | 142 | 2490 | 0.158 | ng | | 98 |
| 16) Acenaphthylene | 13.625 | 152 | 3867 | 0.172 | ng | | 99 |
| 17) Acenaphthene | 13.978 | 154 | 2493 | 0.167 | ng | | 99 |
| 18) Fluorene | 14.983 | 166 | 3286 | 0.154 | ng | | 99 |
| 25) Phenanthrene | 16.736 | 178 | 6290 | 0.203 | ng | | 99 |
| 26) Anthracene | 16.823 | 178 | 4610 | 0.164 | ng | | 98 |
| 28) Fluoranthene | 18.775 | 202 | 6981 | 0.167 | ng | | 99 |
| 30) Pyrene | 19.142 | 202 | 7191 | 0.228 | ng | | 99 |
| 32) Benzo(a)anthracene | 20.929 | 228 | 4336 | 0.145 | ng | | 97 |
| 33) Chrysene | 20.974 | 228 | 5151 | 0.167 | ng | | 98 |
| 34) Bis(2-ethylhexyl)phtha... | 20.893 | 149 | 1190 | 0.101 | ng | # | 96 |
| 36) Indeno(1,2,3-cd)pyrene | 25.050 | 276 | 3640 | 0.119 | ng | | 99 |
| 37) Benzo(b)fluoranthene | 22.413 | 252 | 5477 | 0.192 | ng | # | 75 |
| 38) Benzo(k)fluoranthene | 22.456 | 252 | 4164 | 0.148 | ng | # | 73 |
| 39) Benzo(a)pyrene | 22.933 | 252 | 2844 | 0.121 | ng | # | 53 |
| 40) Dibenzo(a,h)anthracene | 25.067 | 278 | 2834 | 0.118 | ng | # | 70 |
| 41) Benzo(g,h,i)perylene | 25.652 | 276 | 2847 | 0.113 | ng | # | 90 |

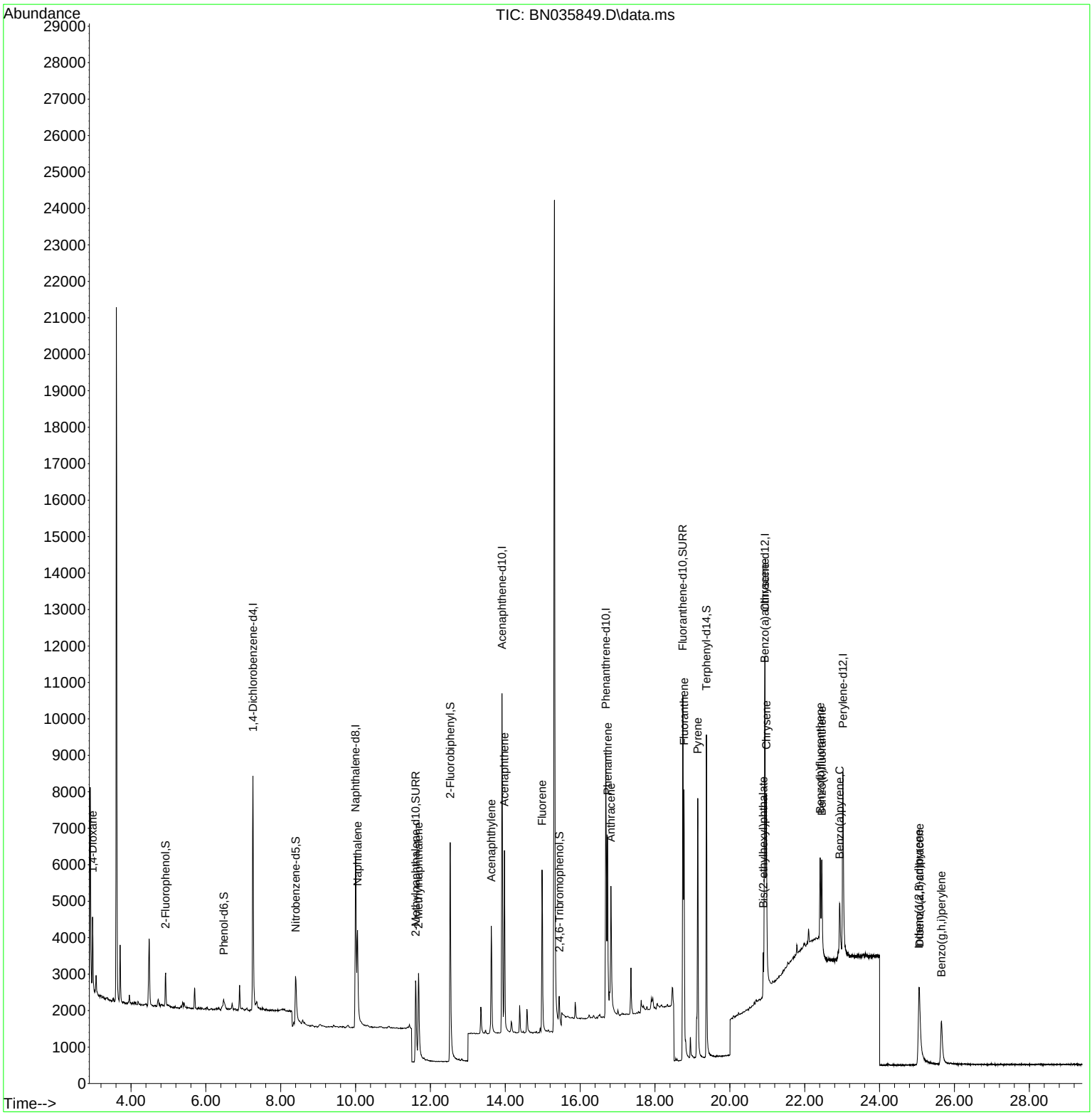
(#) = qualifier out of range (m) = manual integration (+) = signals summed

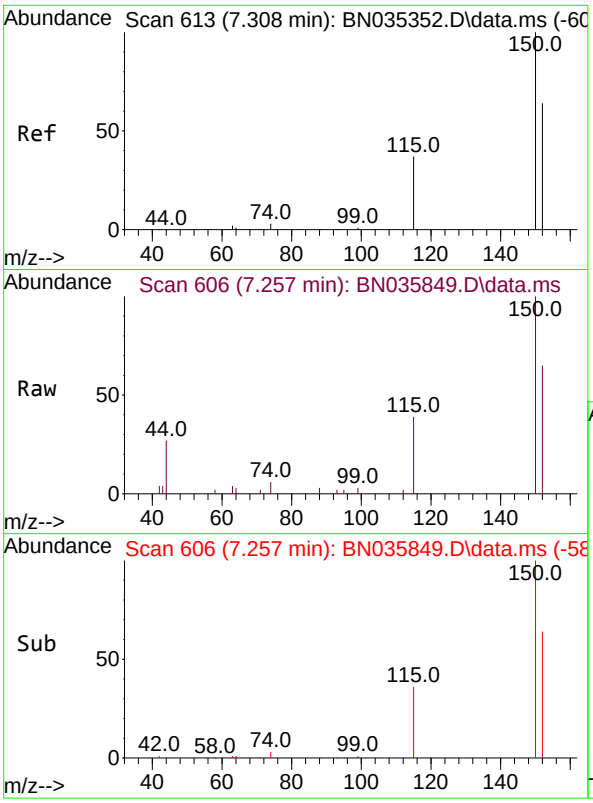
Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
Data File : BN035849.D
Acq On : 26 Dec 2024 12:31
Operator : RC/JU
Sample : P5376-01
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
TT205S1-20241218

Quant Time: Dec 27 00:40:49 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



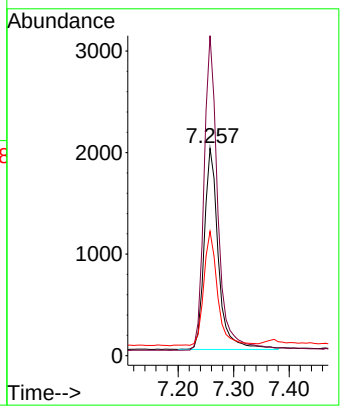


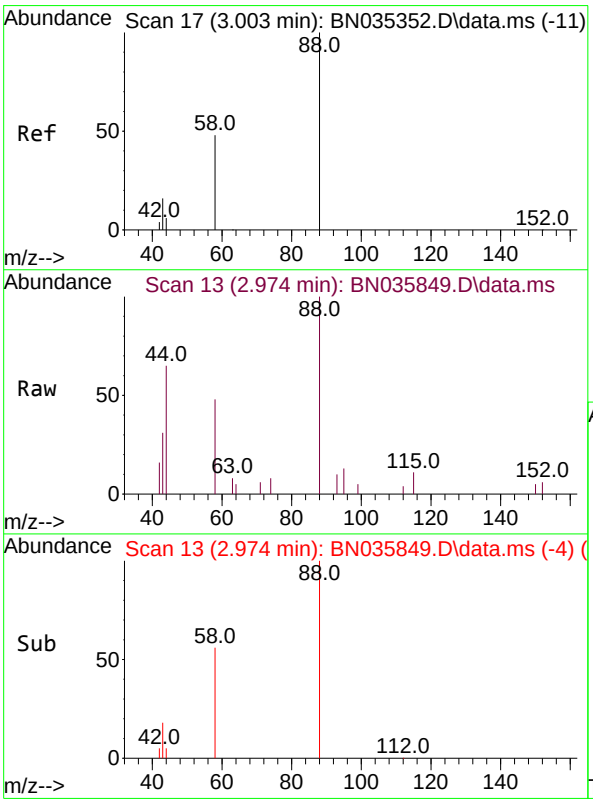

#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 6(
Delta R.T. -0.015 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

**Instrument :**
BNA_N
**ClientSampleId :**
TT205S1-20241218

Tgt Ion:152 Resp: 3517

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 154.3 | 124.0 | 186.0 |
| 115 | 60.0 | 49.6 | 74.4 |

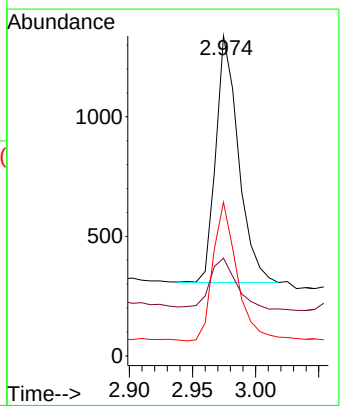


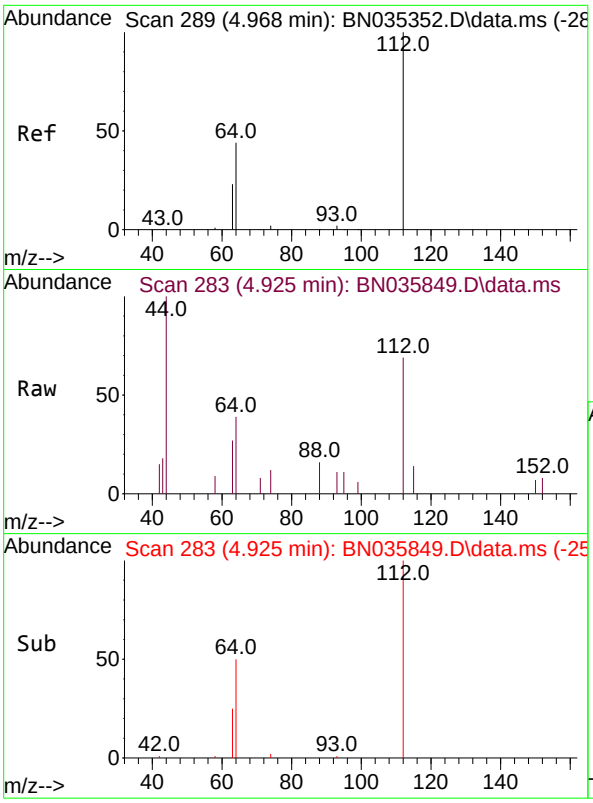




#2
1,4-Dioxane
Concen: 0.383 ng
RT: 2.974 min Scan# 13
Delta R.T. -0.008 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

Tgt Ion: 88 Resp: 1289

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 24.2 | 17.2 | 25.8 |
| 58 | 59.4 | 44.5 | 66.7 |



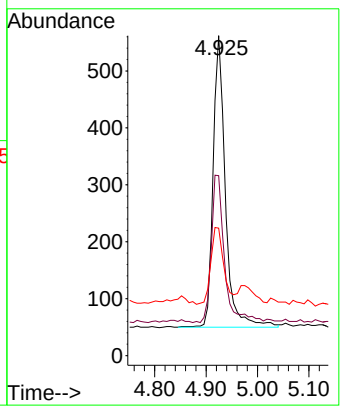


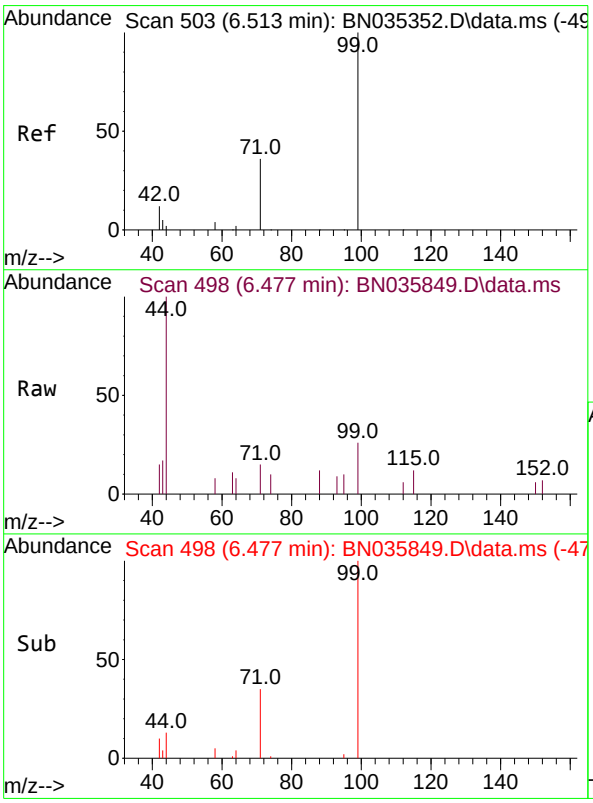

#4
2-Fluorophenol
Concen: 0.096 ng
RT: 4.925 min Scan# 2
Delta R.T. -0.014 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

**Instrument :**
BNA_N
**ClientSampleId :**
TT205S1-20241218

Tgt Ion:112 Resp: 846

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 54.4 | 39.8 | 59.8 |
| 63 | 27.9 | 21.0 | 31.6 |

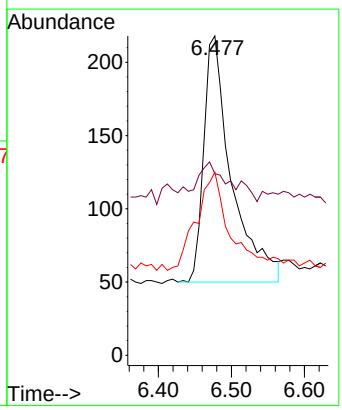


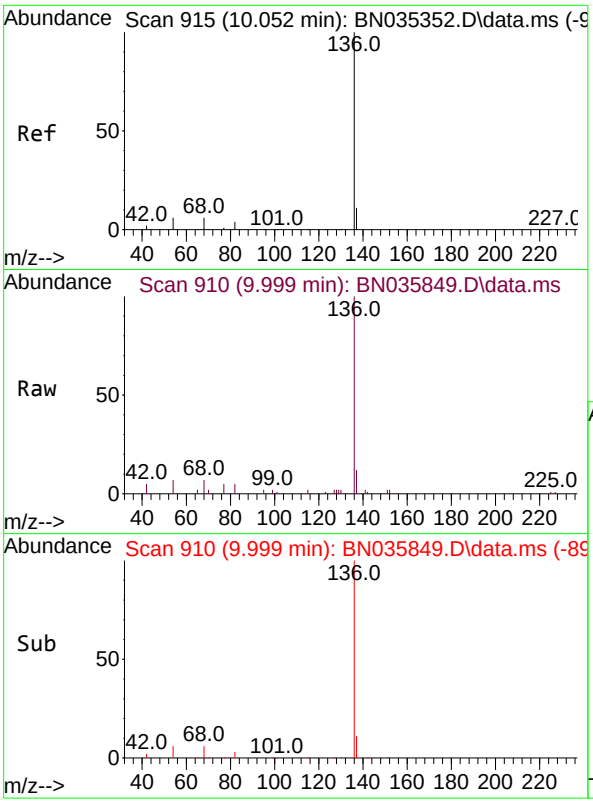




#5
Phenol-d6
Concen: 0.042 ng
RT: 6.477 min Scan# 498
Delta R.T. -0.014 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

Tgt Ion: 99 Resp: 442

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 11.3 | 11.4 | 17.2# |
| 71 | 51.1 | 29.3 | 43.9# |



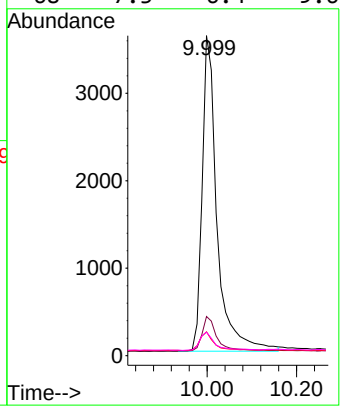


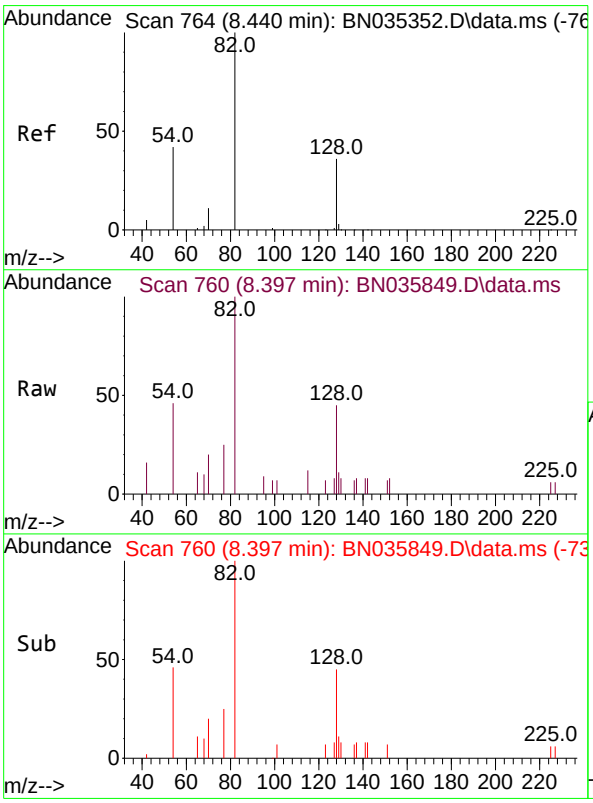

#7
Naphthalene-d8
Concen: 0.400 ng
RT: 9.999 min Scan# 91
Delta R.T. -0.021 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

**Instrument :**
BNA_N
**ClientSampleId :**
TT205S1-20241218

Tgt Ion:136 Resp: 8324

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 12.3 | 10.2 | 15.2 |
| 54 | 7.4 | 6.1 | 9.1 |
| 68 | 7.3 | 6.4 | 9.6 |

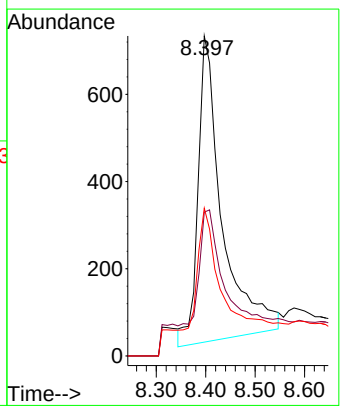


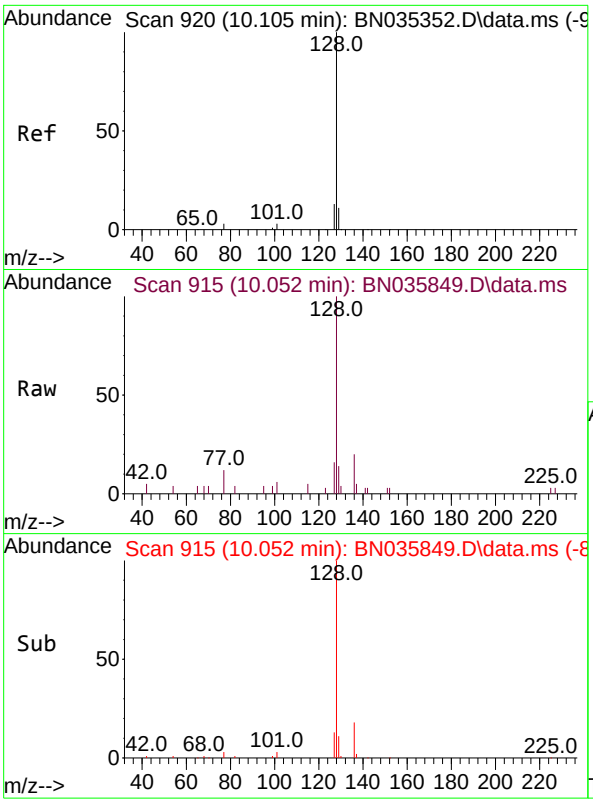




#8
Nitrobenzene-d5
Concen: 0.469 ng
RT: 8.397 min Scan# 760
Delta R.T. -0.011 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

Tgt Ion: 82 Resp: 2382

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 45.0 | 33.4 | 50.0 |
| 54 | 46.2 | 36.7 | 55.1 |



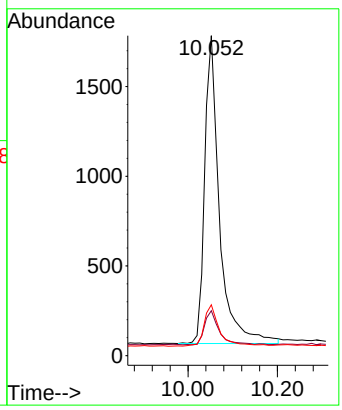


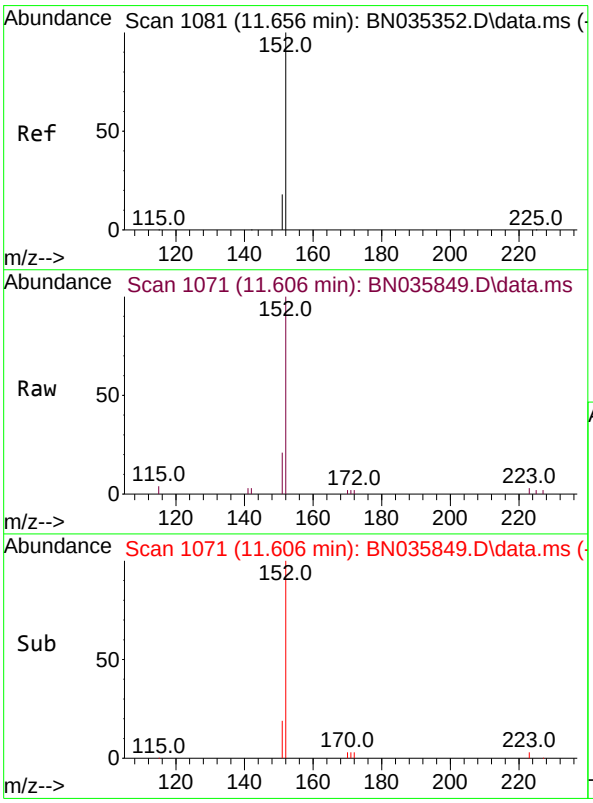

#9
Naphthalene
Concen: 0.179 ng
RT: 10.052 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

**Instrument :**
BNA_N
**ClientSampleId :**
TT205S1-20241218

Tgt Ion:128 Resp: 3939

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 14.0 | 9.8 | 14.6 |
| 127 | 15.9 | 11.4 | 17.2 |

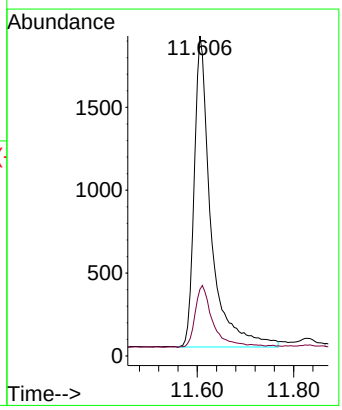


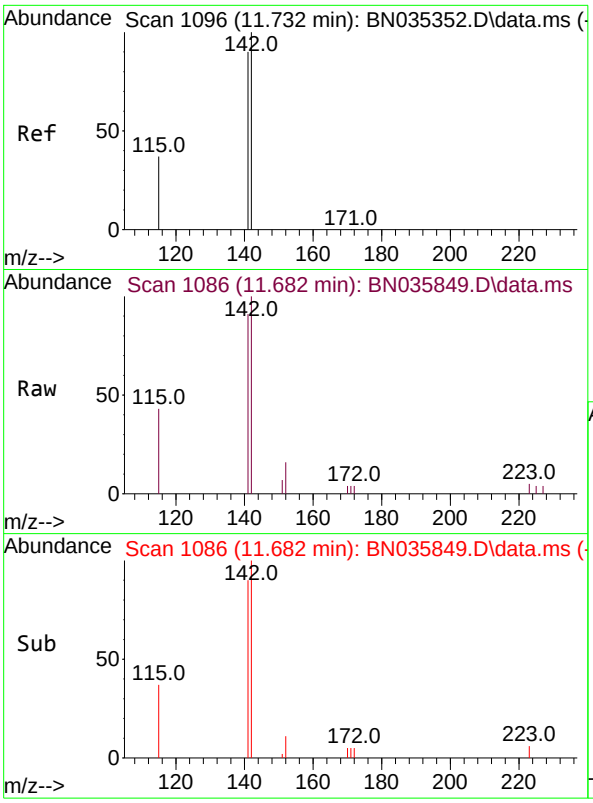




#11
2-Methylnaphthalene-d10
Concen: 0.348 ng
RT: 11.606 min Scan# 1071
Delta R.T. -0.015 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

Tgt Ion:152 Resp: 4536

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.9 | 16.6 | 25.0 |



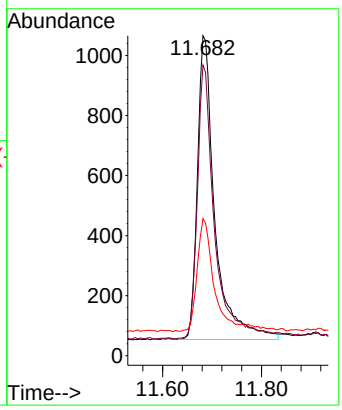


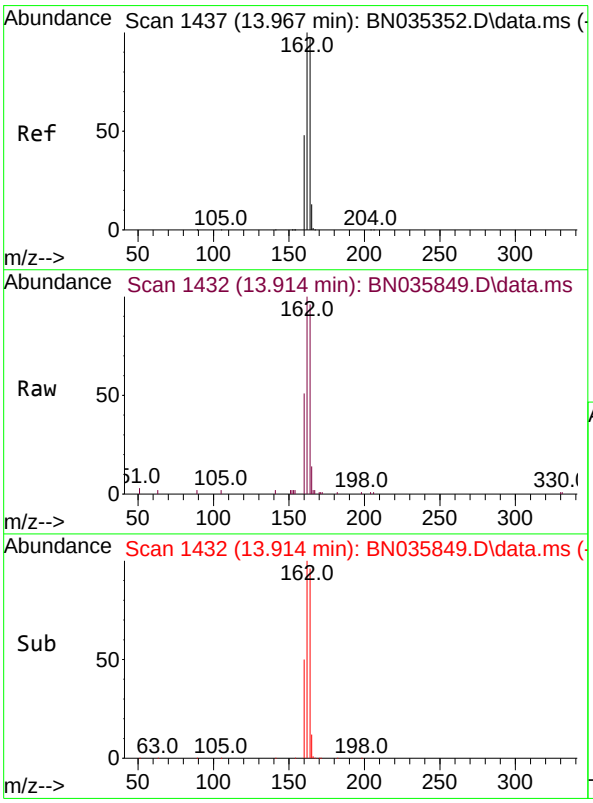

#12
2-Methylnaphthalene
Concen: 0.158 ng
RT: 11.682 min Scan# 1
Delta R.T. -0.015 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

**Instrument :**
BNA_N
**ClientSampleId :**
TT205S1-20241218

Tgt Ion:142 Resp: 2490

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 90.8 | 72.2 | 108.4 |
| 115 | 42.8 | 31.4 | 47.0 |

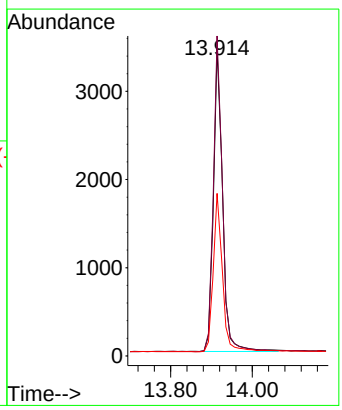


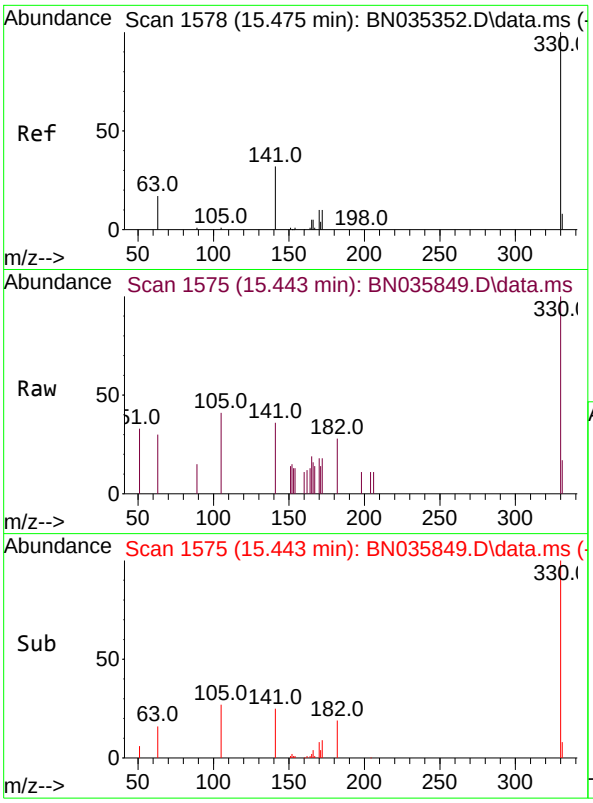




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.914 min Scan# 1432
Delta R.T. -0.021 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

Tgt Ion:164 Resp: 5358

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 104.1 | 82.2 | 123.2 |
| 160 | 52.9 | 40.1 | 60.1 |



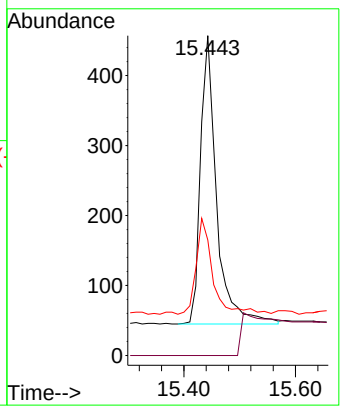


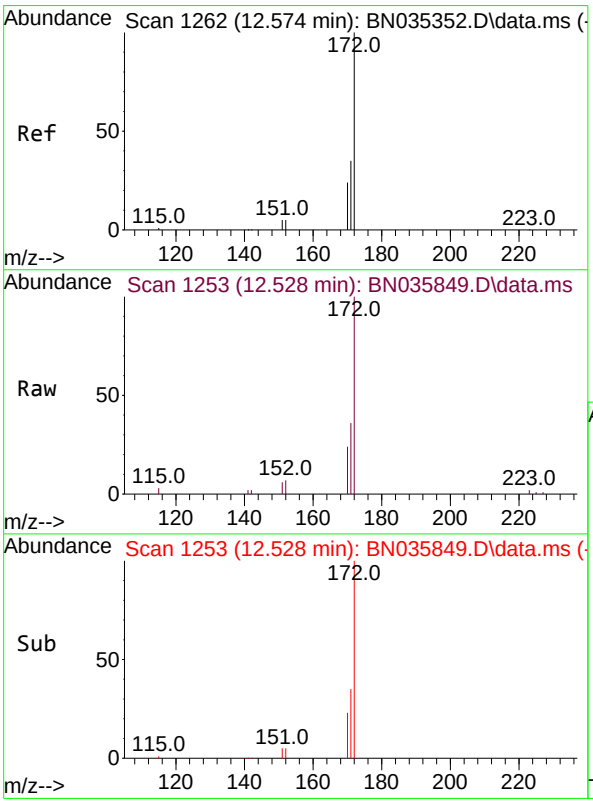

#14
2,4,6-Tribromophenol
Concen: 0.226 ng
RT: 15.443 min Scan# 1
Delta R.T. -0.011 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

**Instrument :**
BNA_N
**ClientSampleId :**
TT205S1-20241218

Tgt Ion:330 Resp: 860

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 0.0 | 0.0 | 0.0 |
| 141 | 34.0 | 26.6 | 40.0 |

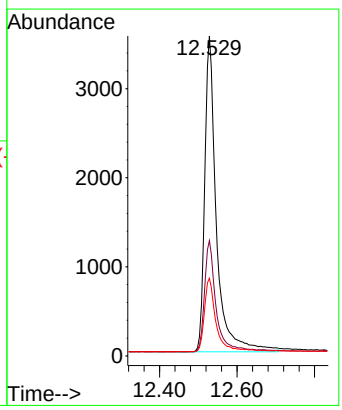


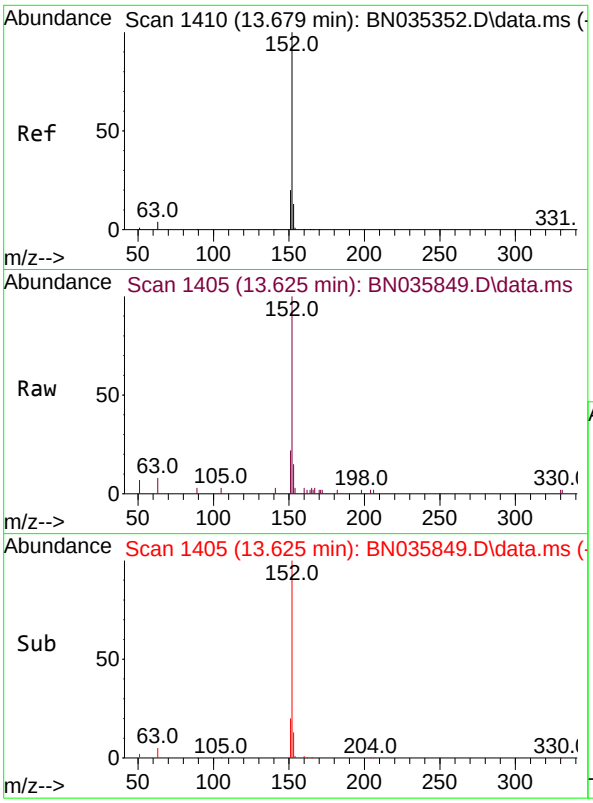




#15
2-Fluorobiphenyl
Concen: 0.367 ng
RT: 12.528 min Scan# 1253
Delta R.T. -0.015 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

Tgt Ion:172 Resp: 7437

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 36.0 | 29.0 | 43.4 |
| 170 | 24.3 | 19.8 | 29.8 |



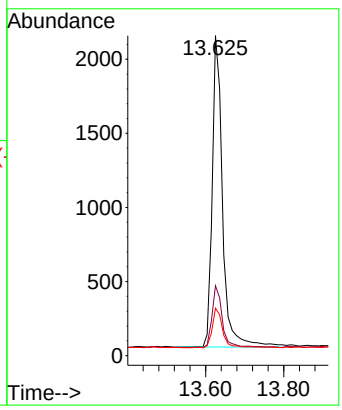


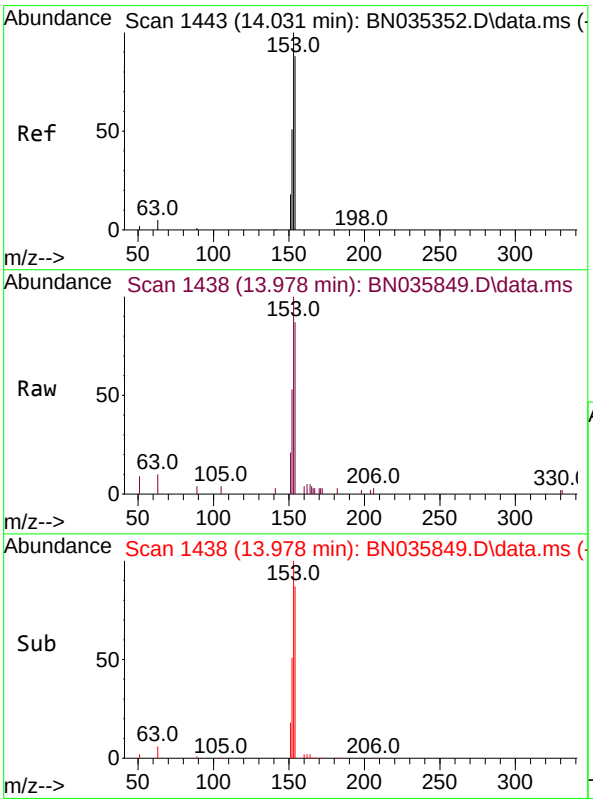

#16
Acenaphthylene
Concen: 0.172 ng
RT: 13.625 min Scan# 14
Delta R.T. -0.021 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

**Instrument :**
BNA_N
**ClientSampleId :**
TT205S1-20241218

Tgt Ion:152 Resp: 3867

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 19.9 | 16.2 | 24.2 |
| 153 | 12.9 | 10.4 | 15.6 |

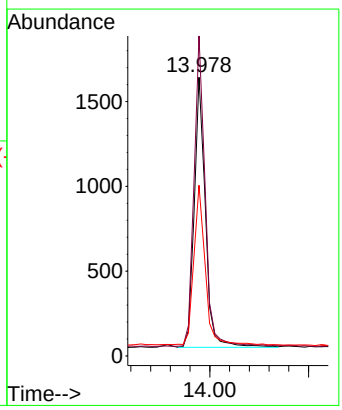


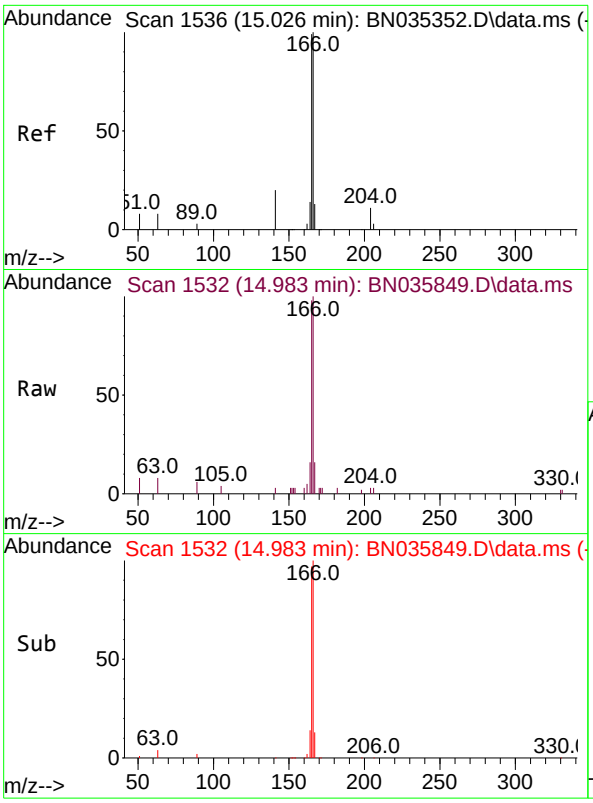




#17
Acenaphthene
Concen: 0.167 ng
RT: 13.978 min Scan# 1438
Delta R.T. -0.021 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

Tgt Ion:154 Resp: 2493

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 114.9 | 92.6 | 139.0 |
| 152 | 59.9 | 49.0 | 73.6 |



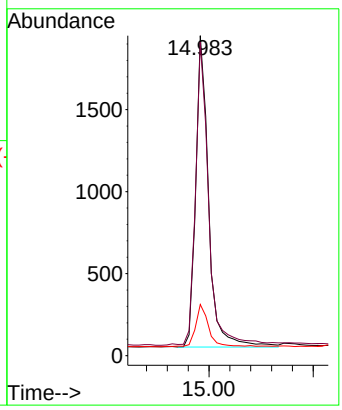


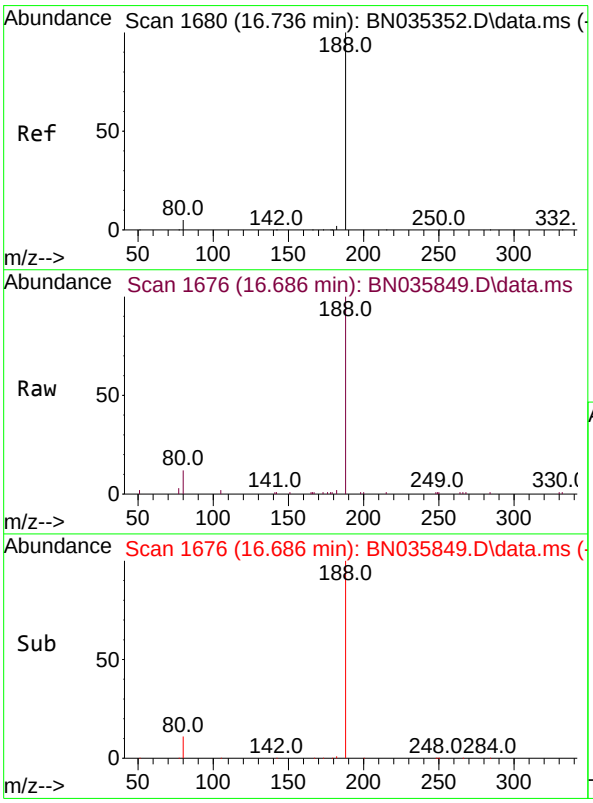

#18
Fluorene
Concen: 0.154 ng
RT: 14.983 min Scan# 1
Delta R.T. -0.021 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

**Instrument :**
BNA_N
**ClientSampleId :**
TT205S1-20241218

Tgt Ion:166 Resp: 3286

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 98.7 | 79.7 | 119.5 |
| 167 | 13.9 | 10.8 | 16.2 |

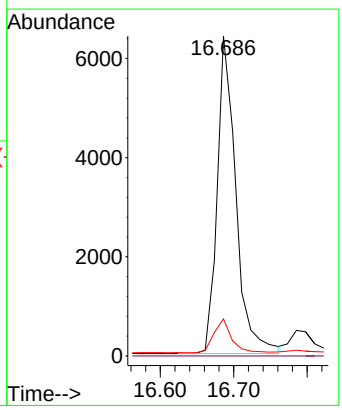


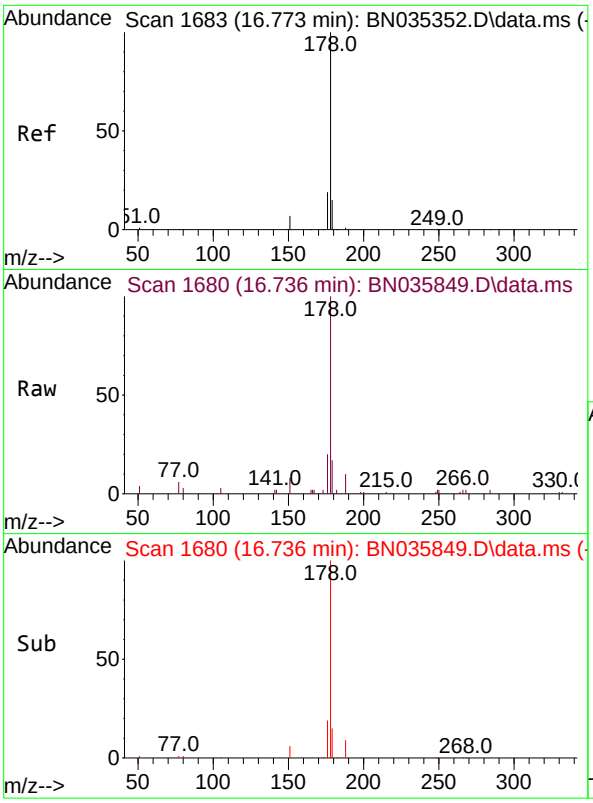




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.686 min Scan# 1676
Delta R.T. -0.012 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

Tgt Ion:188 Resp: 11302

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 11.6 | 4.6 | 6.8# |



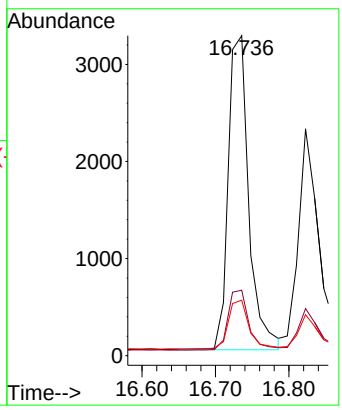


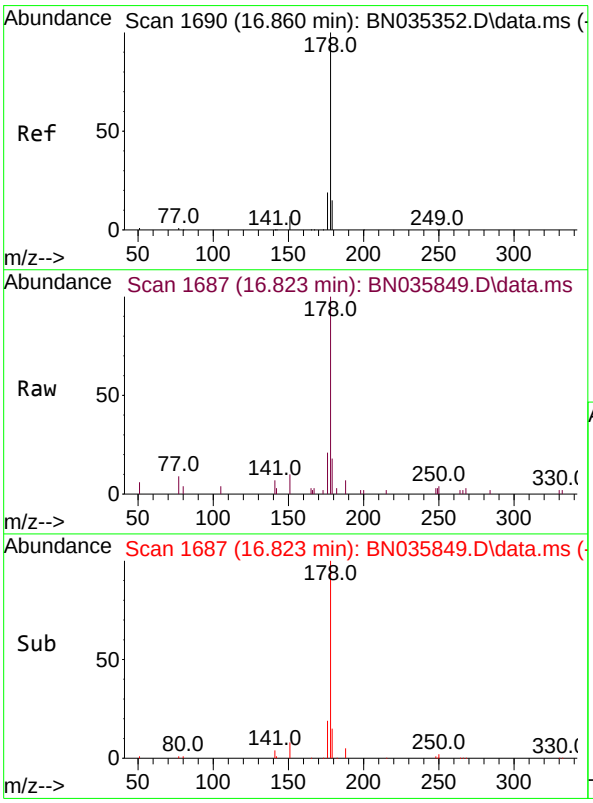

#25
Phenanthrene
Concen: 0.203 ng
RT: 16.736 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

**Instrument :**
BNA_N
**ClientSampleId :**
TT205S1-20241218

Tgt Ion:178 Resp: 6290

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.2 | 15.4 | 23.2 |
| 179 | 15.9 | 12.3 | 18.5 |

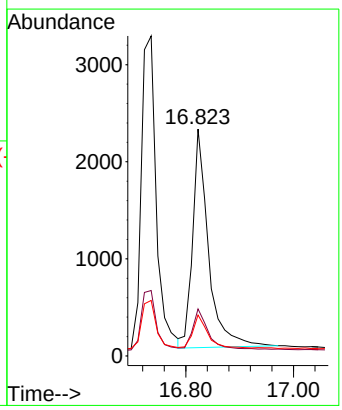


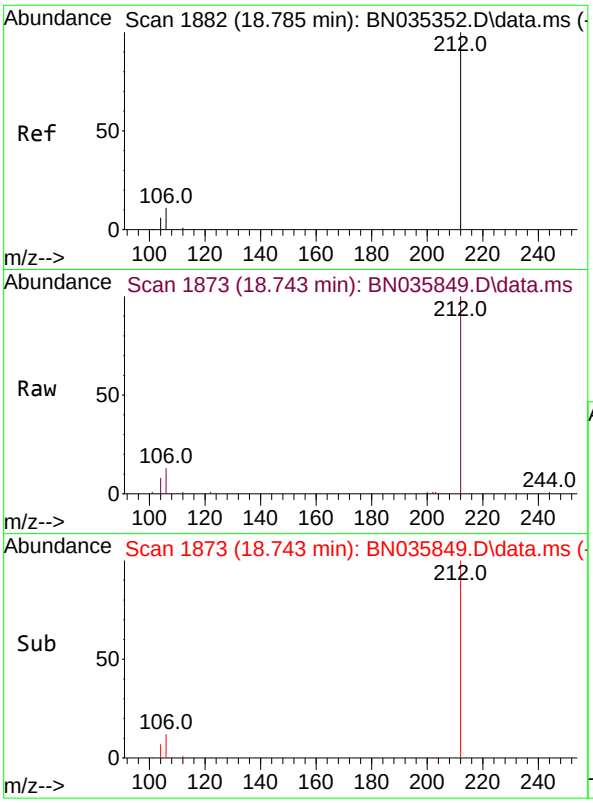




#26
Anthracene
Concen: 0.164 ng
RT: 16.823 min Scan# 1687
Delta R.T. -0.012 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

Tgt Ion:178 Resp: 4610

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.3 | 15.0 | 22.6 |
| 179 | 14.3 | 12.6 | 18.8 |



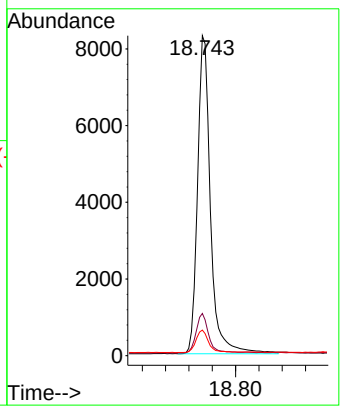


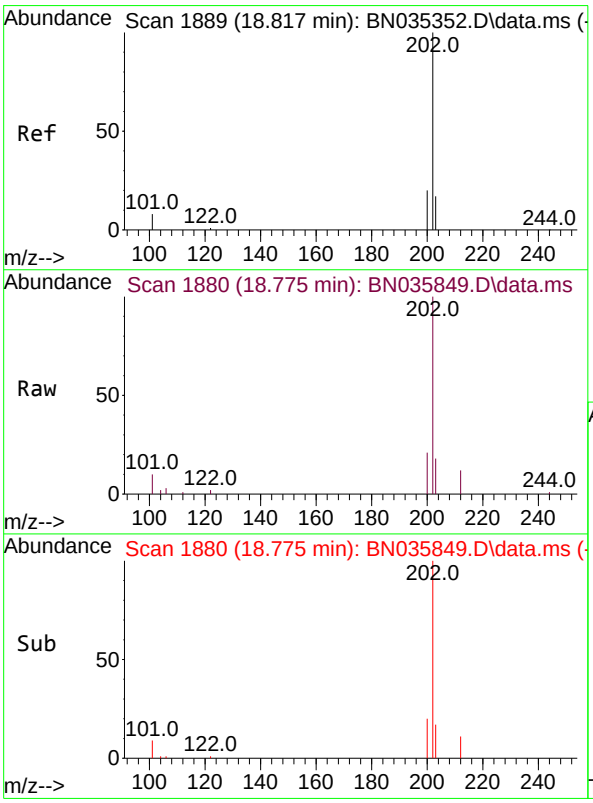

#27
Fluoranthene-d10
Concen: 0.399 ng
RT: 18.743 min Scan# 1
Delta R.T. -0.019 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

**Instrument :**
BNA_N
**ClientSampleId :**
TT205S1-20241218

Tgt Ion:212 Resp: 12788

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 11.9 | 9.2 | 13.8 |
| 104 | 6.8 | 5.3 | 7.9 |

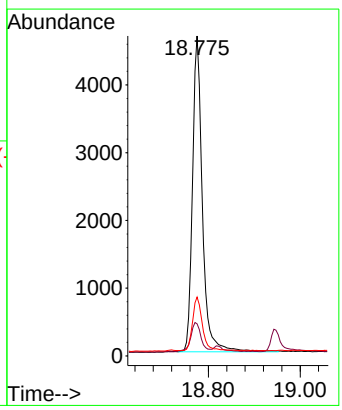


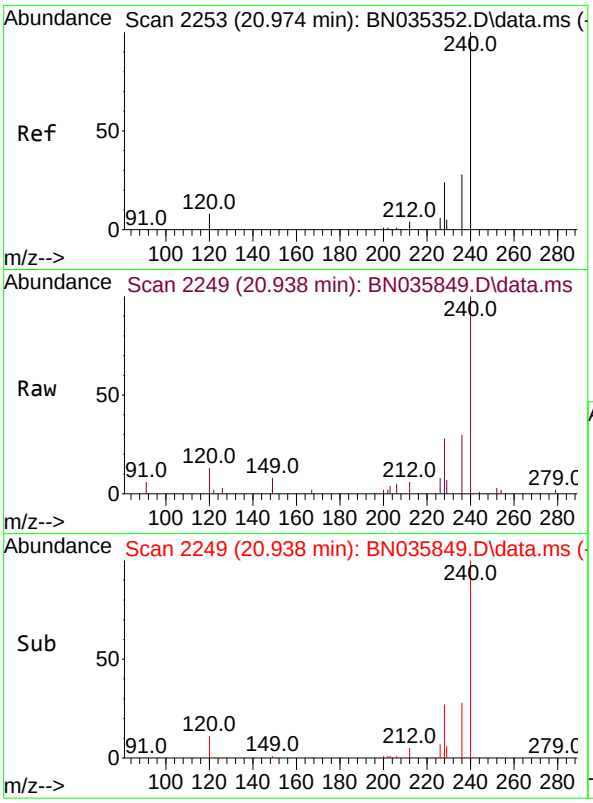




#28
Fluoranthene
Concen: 0.167 ng
RT: 18.775 min Scan# 1880
Delta R.T. -0.014 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

Tgt Ion:202 Resp: 6981

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 9.6 | 7.4 | 11.0 |
| 203 | 16.7 | 13.7 | 20.5 |



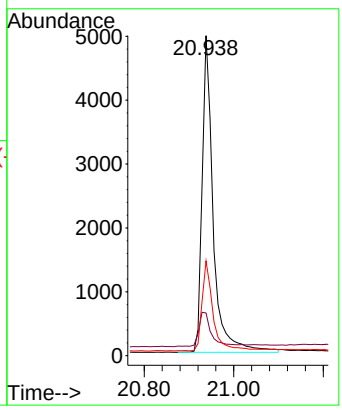


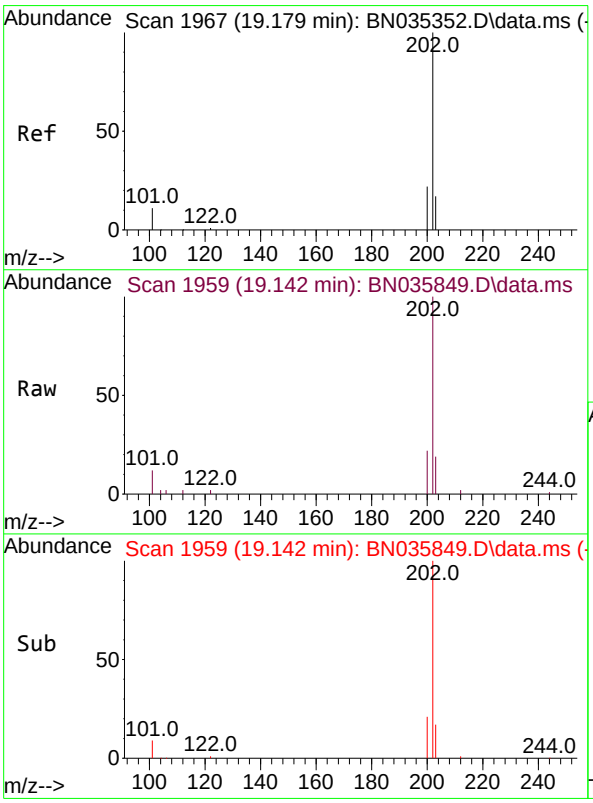

#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.938 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

**Instrument :**
BNA_N
**ClientSampleId :**
TT205S1-20241218

Tgt Ion:240 Resp: 8549

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 13.3 | 7.9 | 11.9# |
| 236 | 29.6 | 22.9 | 34.3 |

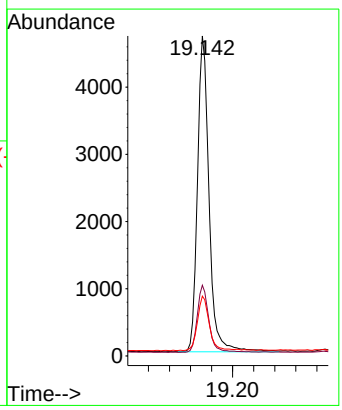


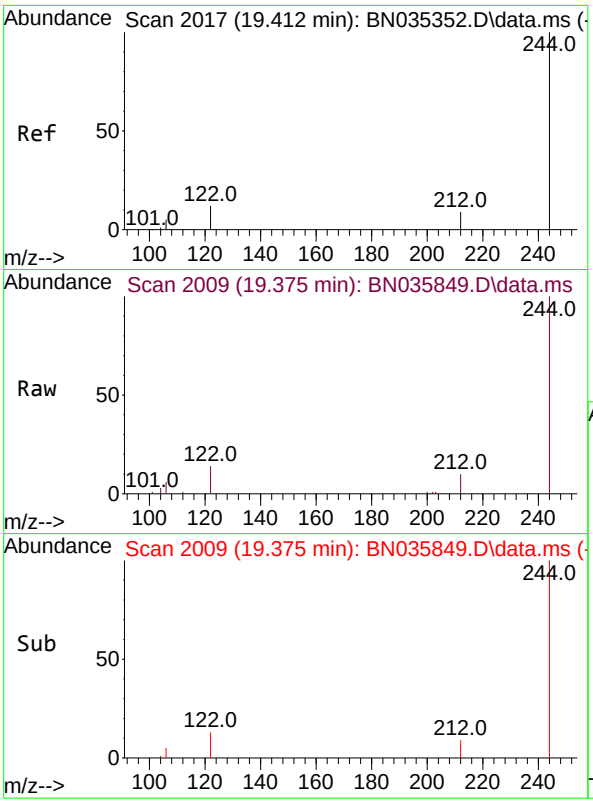




#30
Pyrene
Concen: 0.228 ng
RT: 19.142 min Scan# 1959
Delta R.T. -0.019 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

Tgt Ion:202 Resp: 7191

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.2 | 17.0 | 25.4 |
| 203 | 17.4 | 14.3 | 21.5 |



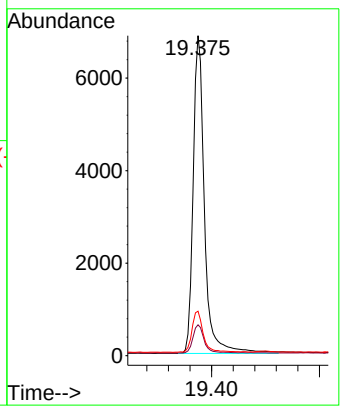


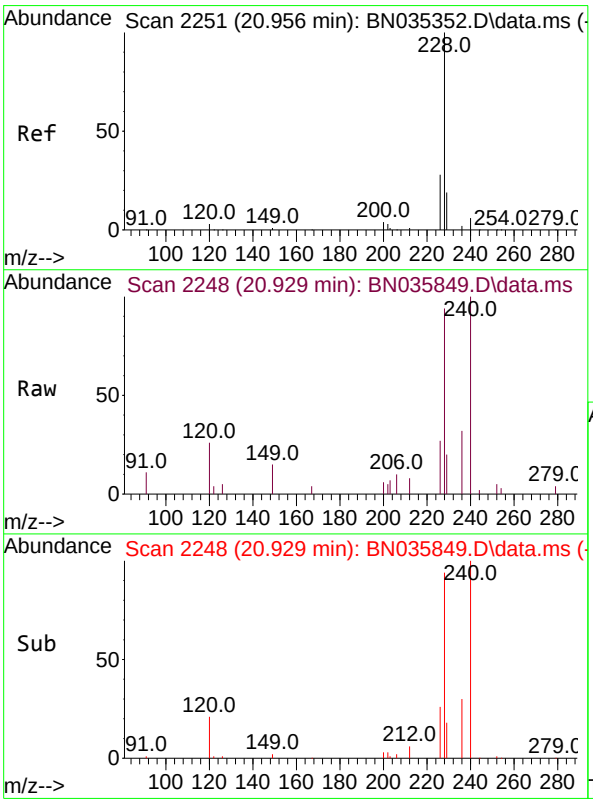

#31
Terphenyl-d14
Concen: 0.593 ng
RT: 19.375 min Scan# 2
Delta R.T. -0.014 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

**Instrument :**
BNA_N
**ClientSampleId :**
TT205S1-20241218

Tgt Ion:244 Resp: 9994

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 9.7 | 8.1 | 12.1 |
| 122 | 13.9 | 10.3 | 15.5 |

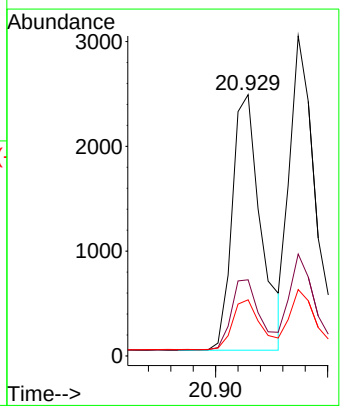


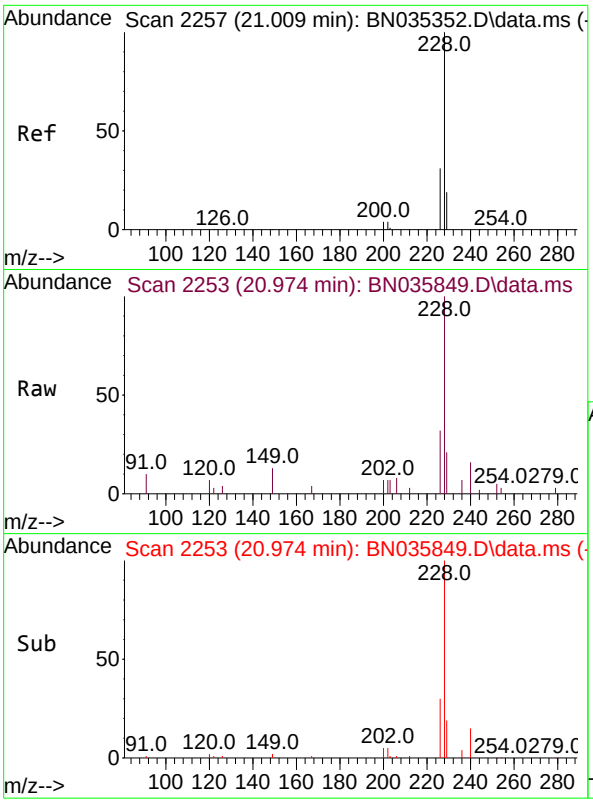




#32
Benzo(a)anthracene
Concen: 0.145 ng
RT: 20.929 min Scan# 2248
Delta R.T. -0.009 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

Tgt Ion:228 Resp: 4336

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 29.1 | 22.5 | 33.7 |
| 229 | 21.5 | 15.8 | 23.8 |



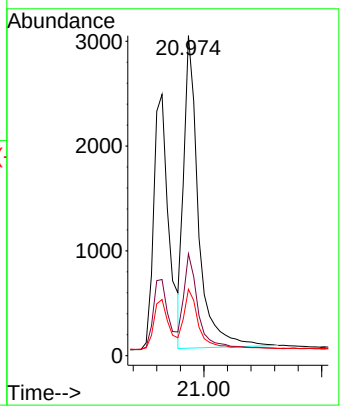


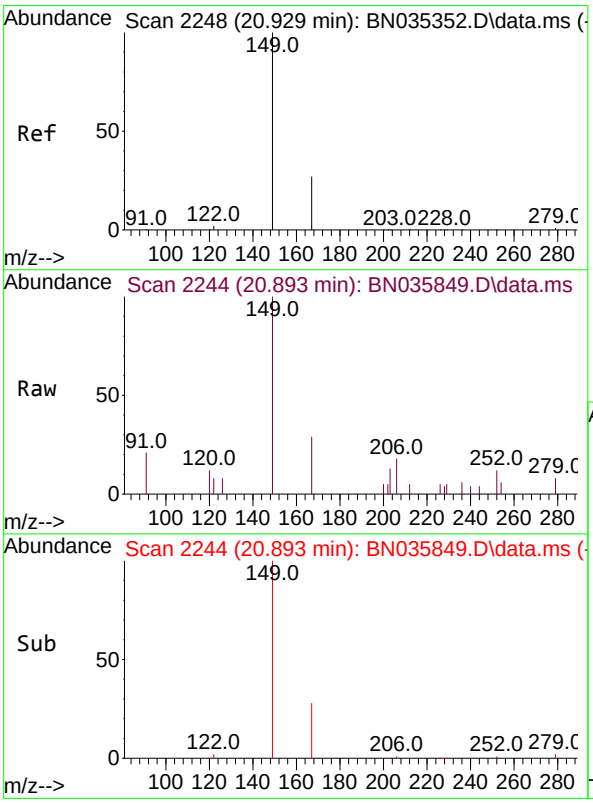

#33
Chrysene
Concen: 0.167 ng
RT: 20.974 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

**Instrument :**
BNA_N
**ClientSampleId :**
TT205S1-20241218

Tgt Ion:228 Resp: 5151

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 31.9 | 24.6 | 37.0 |
| 229 | 20.7 | 15.9 | 23.9 |

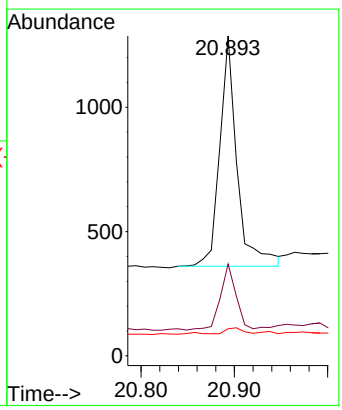


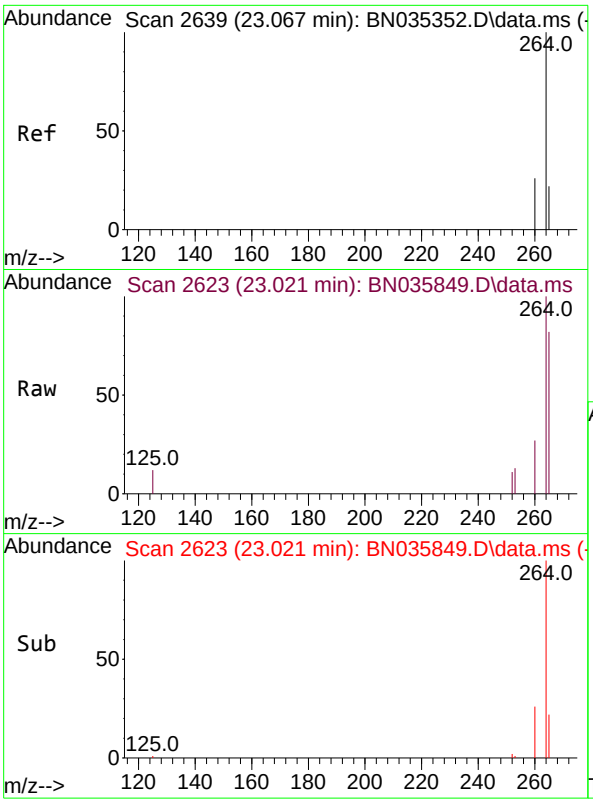




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.101 ng
RT: 20.893 min Scan# 2244
Delta R.T. -0.018 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

Tgt Ion:149 Resp: 1190

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 25.9 | 22.2 | 33.4 |
| 279 | 2.4 | 2.7 | 4.1# |



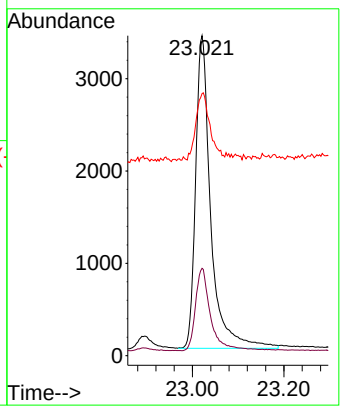


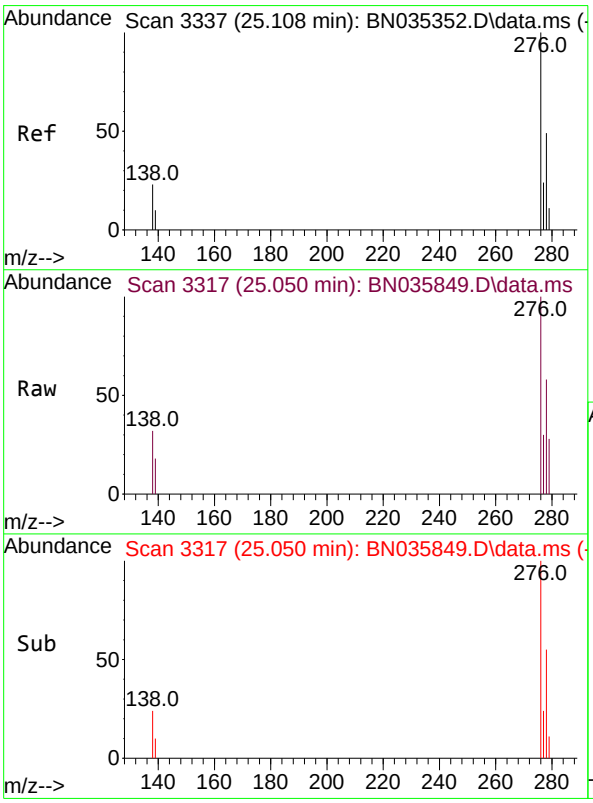

#35
Perylene-d12
Concen: 0.400 ng
RT: 23.021 min Scan# 2
Delta R.T. -0.020 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

**Instrument :**
BNA_N
**ClientSampleId :**
TT205S1-20241218

Tgt Ion:264 Resp: 7798

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 27.3 | 21.4 | 32.2 |
| 265 | 81.9 | 40.2 | 60.4# |

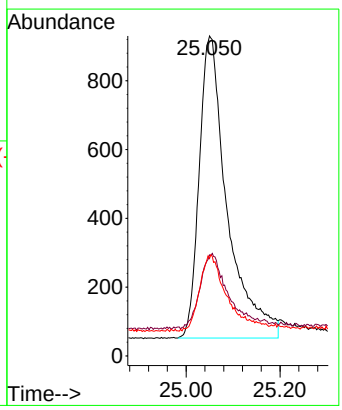


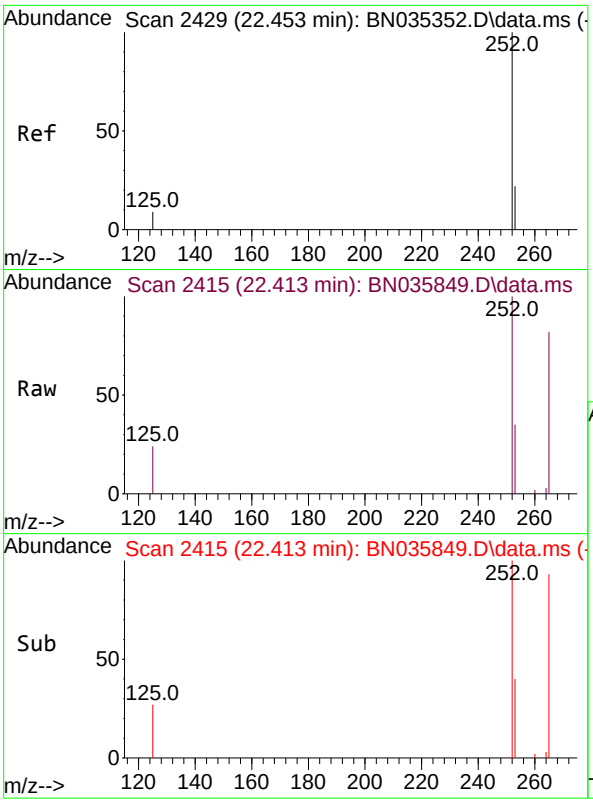




#36
Indeno(1,2,3-cd)pyrene
Concen: 0.119 ng
RT: 25.050 min Scan# 3317
Delta R.T. -0.018 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

Tgt Ion:276 Resp: 3640

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 24.8 | 19.4 | 29.0 |
| 277 | 25.1 | 19.8 | 29.6 |



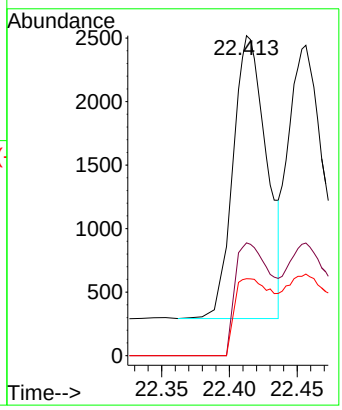


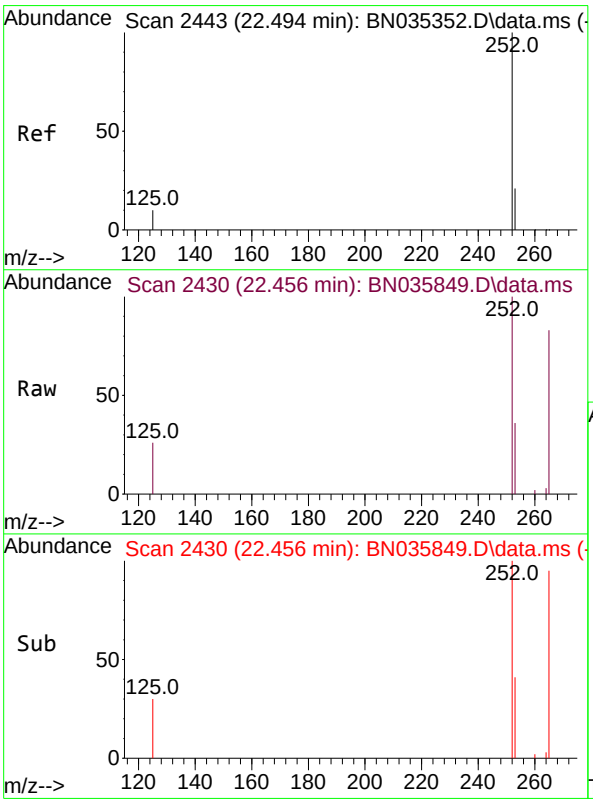

#37
Benzo(b)fluoranthene
Concen: 0.192 ng
RT: 22.413 min Scan# 24
Delta R.T. -0.018 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

**Instrument :**
BNA_N
**ClientSampleId :**
TT205S1-20241218

Tgt Ion:252 Resp: 5477

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 35.3 | 19.6 | 29.4# |
| 125 | 24.1 | 9.6 | 14.4# |

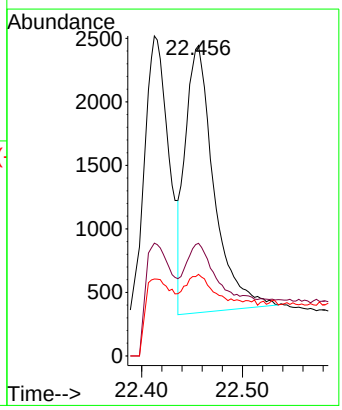


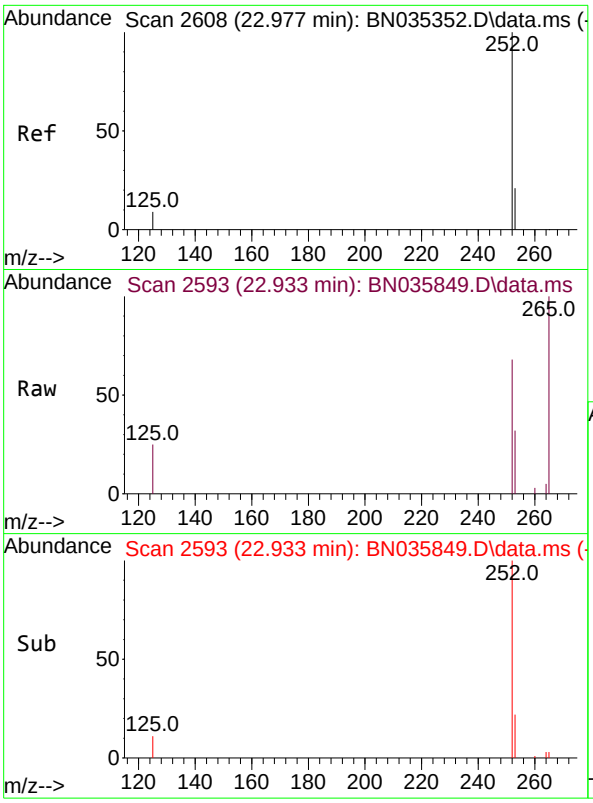




#38
Benzo(k)fluoranthene
Concen: 0.148 ng
RT: 22.456 min Scan# 2430
Delta R.T. -0.015 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

Tgt Ion:252 Resp: 4164

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 36.3 | 19.5 | 29.3# |
| 125 | 26.3 | 10.2 | 15.4# |



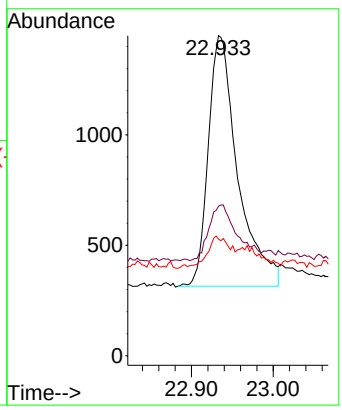


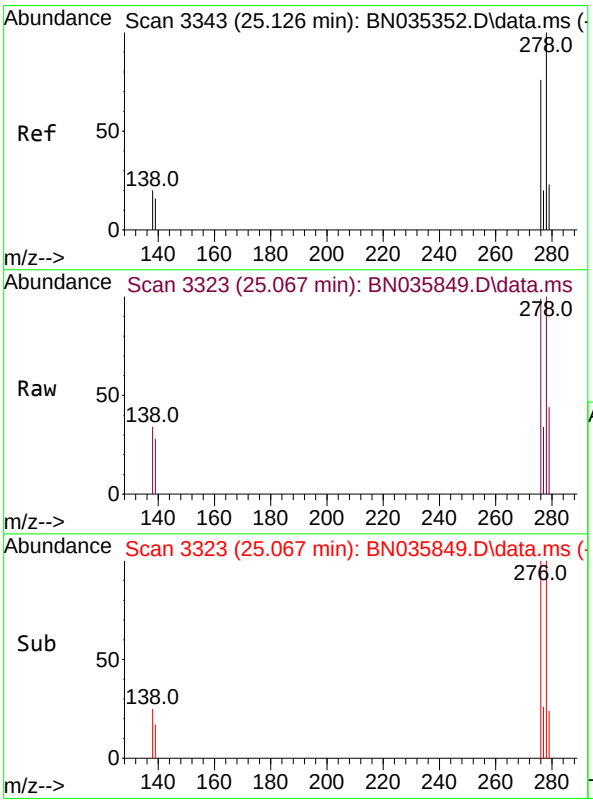

#39
Benzo(a)pyrene
Concen: 0.121 ng
RT: 22.933 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

**Instrument :**
BNA_N
**ClientSampleId :**
TT205S1-20241218

Tgt Ion:252 Resp: 2844

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 46.7 | 20.2 | 30.4# |
| 125 | 36.4 | 10.9 | 16.3# |

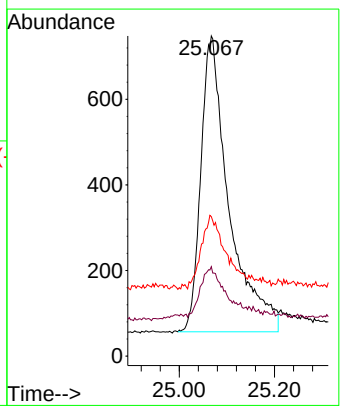


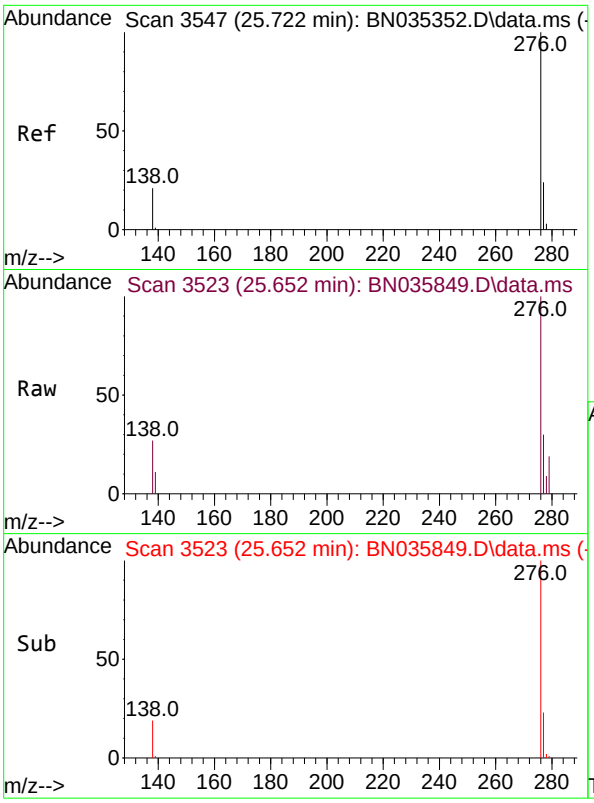




#40
Dibenzo(a,h)anthracene
Concen: 0.118 ng
RT: 25.067 min Scan# 3323
Delta R.T. -0.015 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

Tgt Ion:278 Resp: 2834

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 27.9 | 14.2 | 21.4# |
| 279 | 43.6 | 20.5 | 30.7# |



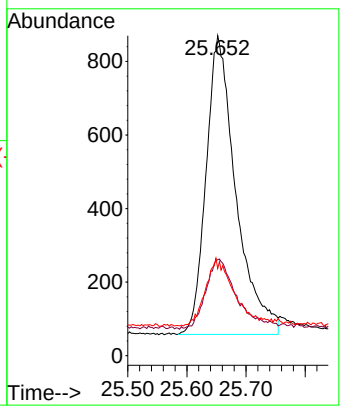



#41
Benzo(g,h,i)perylene
Concen: 0.113 ng
RT: 25.652 min Scan# 3
Delta R.T. -0.026 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

**Instrument :**
BNA_N
**ClientSampleId :**
TT205S1-20241218

Tgt Ion:276 Resp: 2847

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 30.0 | 19.9 | 29.9# |
| 138 | 27.2 | 17.8 | 26.8# |



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
Data File : BN035852.D
Acq On : 26 Dec 2024 14:19
Operator : RC/JU
Sample : PB165828BS
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
PB165828BS

Quant Time: Dec 27 00:41:16 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

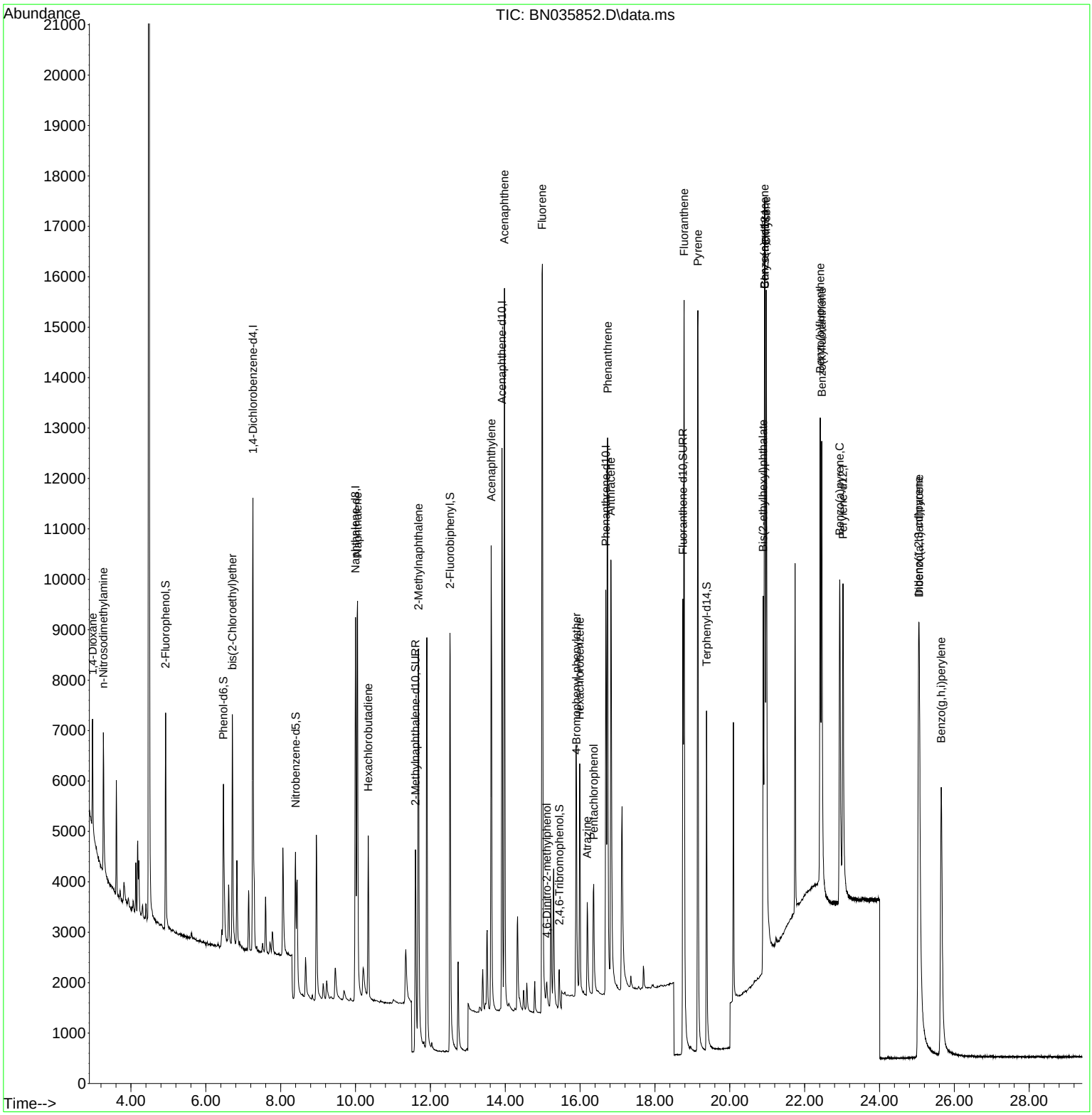
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.257 | 152 | 4431 | 0.400 | ng | | -0.01 |
| 7) Naphthalene-d8 | 9.998 | 136 | 10905 | 0.400 | ng | | #-0.02 |
| 13) Acenaphthene-d10 | 13.914 | 164 | 6427 | 0.400 | ng | | -0.02 |
| 19) Phenanthrene-d10 | 16.686 | 188 | 13001 | 0.400 | ng | | #-0.01 |
| 29) Chrysene-d12 | 20.938 | 240 | 9257 | 0.400 | ng | | #-0.02 |
| 35) Perylene-d12 | 23.023 | 264 | 9148 | 0.400 | ng | | #-0.02 |
| System Monitoring Compounds | | | | | | | |
| 4) 2-Fluorophenol | 4.924 | 112 | 3645 | 0.329 | ng | | -0.01 |
| 5) Phenol-d6 | 6.470 | 99 | 4024 | 0.302 | ng | | -0.02 |
| 8) Nitrobenzene-d5 | 8.397 | 82 | 3418 | 0.513 | ng | | -0.01 |
| 11) 2-Methylnaphthalene-d10 | 11.600 | 152 | 7947 | 0.466 | ng | | -0.02 |
| 14) 2,4,6-Tribromophenol | 15.442 | 330 | 913 | 0.200 | ng | | -0.01 |
| 15) 2-Fluorobiphenyl | 12.523 | 172 | 9578 | 0.394 | ng | | -0.02 |
| 27) Fluoranthene-d10 | 18.747 | 212 | 12504 | 0.339 | ng | | -0.01 |
| 31) Terphenyl-d14 | 19.379 | 244 | 8698 | 0.476 | ng | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 2.974 | 88 | 1467 | 0.346 | ng | # | 88 |
| 3) n-Nitrosodimethylamine | 3.263 | 42 | 1440 | 0.408 | ng | # | 88 |
| 6) bis(2-Chloroethyl)ether | 6.708 | 93 | 3983 | 0.355 | ng | | 99 |
| 9) Naphthalene | 10.052 | 128 | 11935 | 0.415 | ng | | 99 |
| 10) Hexachlorobutadiene | 10.340 | 225 | 2551 | 0.385 | ng | # | 99 |
| 12) 2-Methylnaphthalene | 11.681 | 142 | 7534 | 0.366 | ng | | 96 |
| 16) Acenaphthylene | 13.625 | 152 | 10983 | 0.407 | ng | | 100 |
| 17) Acenaphthene | 13.978 | 154 | 6982 | 0.390 | ng | | 99 |
| 18) Fluorene | 14.983 | 166 | 9056 | 0.353 | ng | | 100 |
| 20) 4,6-Dinitro-2-methylph... | 15.111 | 198 | 645 | 0.505 | ng | | 92 |
| 21) 4-Bromophenyl-phenylether | 15.904 | 248 | 2685 | 0.353 | ng | | 97 |
| 22) Hexachlorobenzene | 15.991 | 284 | 3862 | 0.432 | ng | | 96 |
| 23) Atrazine | 16.189 | 200 | 2110 | 0.390 | ng | | 96 |
| 24) Pentachlorophenol | 16.363 | 266 | 1614 | 0.415 | ng | # | 85 |
| 25) Phenanthrene | 16.735 | 178 | 14161 | 0.397 | ng | | 100 |
| 26) Anthracene | 16.822 | 178 | 12409 | 0.384 | ng | | 99 |
| 28) Fluoranthene | 18.780 | 202 | 15692 | 0.326 | ng | | 99 |
| 30) Pyrene | 19.147 | 202 | 15917 | 0.466 | ng | | 100 |
| 32) Benzo(a)anthracene | 20.929 | 228 | 11832 | 0.365 | ng | | 99 |
| 33) Chrysene | 20.974 | 228 | 14241 | 0.426 | ng | | 100 |
| 34) Bis(2-ethylhexyl)phtha... | 20.893 | 149 | 5313 | 0.415 | ng | | 99 |
| 36) Indeno(1,2,3-cd)pyrene | 25.044 | 276 | 15551 | 0.435 | ng | | 99 |
| 37) Benzo(b)fluoranthene | 22.415 | 252 | 19434 | 0.581 | ng | # | 96 |
| 38) Benzo(k)fluoranthene | 22.456 | 252 | 14469 | 0.439 | ng | | 95 |
| 39) Benzo(a)pyrene | 22.936 | 252 | 11624 | 0.422 | ng | # | 91 |
| 40) Dibenzo(a,h)anthracene | 25.061 | 278 | 11696 | 0.414 | ng | | 95 |
| 41) Benzo(g,h,i)perylene | 25.649 | 276 | 12710 | 0.431 | ng | | 98 |

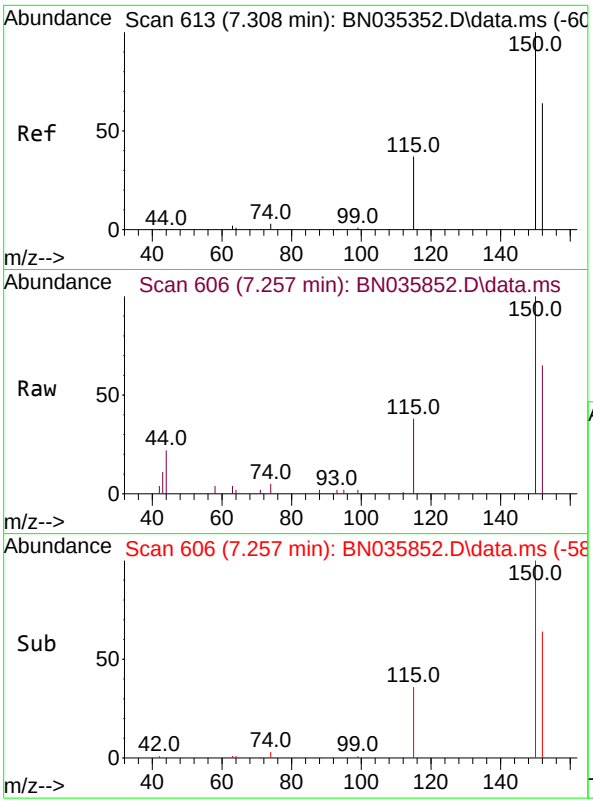
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
Data File : BN035852.D
Acq On : 26 Dec 2024 14:19
Operator : RC/JU
Sample : PB165828BS
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
PB165828BS

Quant Time: Dec 27 00:41:16 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



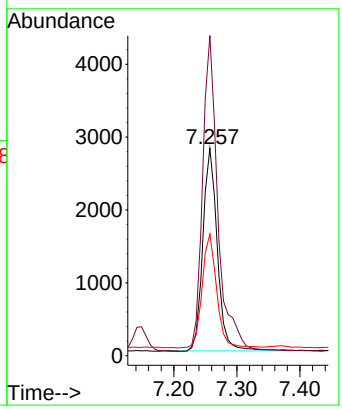


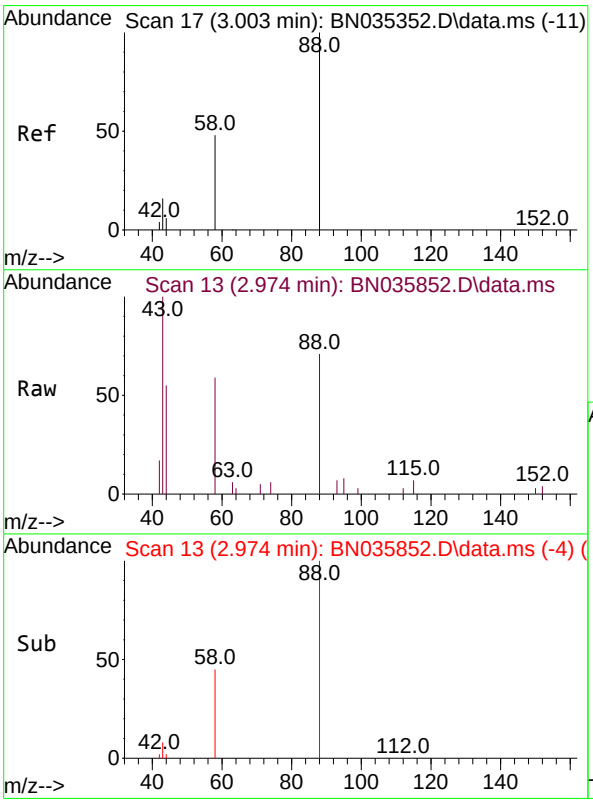

#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 6
Delta R.T. -0.015 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

**Instrument :**
BNA_N
**ClientSampleId :**
PB165828BS

Tgt Ion:152 Resp: 4431

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 154.4 | 124.0 | 186.0 |
| 115 | 58.7 | 49.6 | 74.4 |

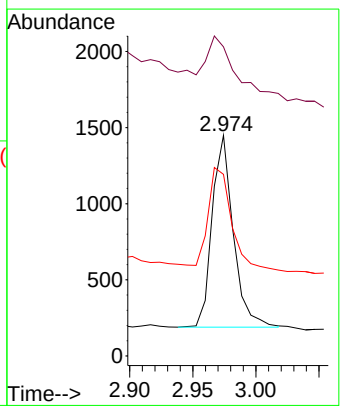


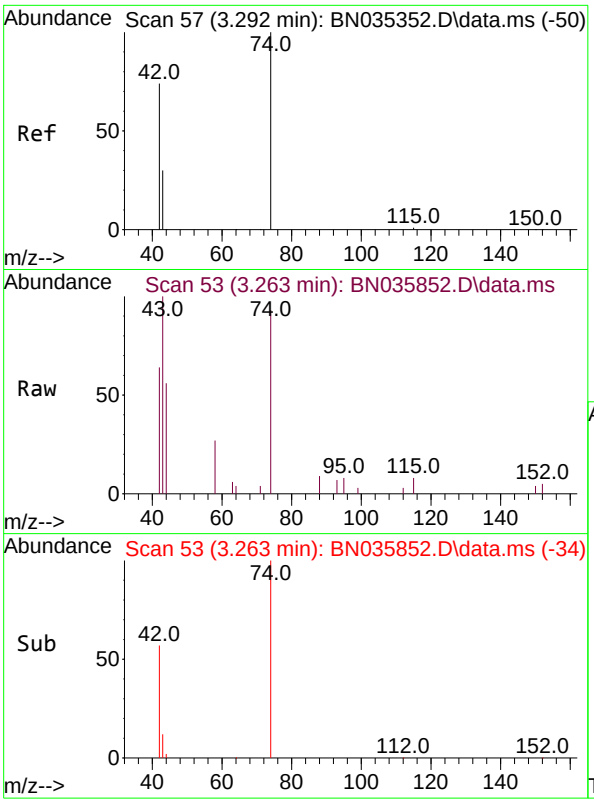




#2
1,4-Dioxane
Concen: 0.346 ng
RT: 2.974 min Scan# 13
Delta R.T. -0.008 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion: 88 Resp: 1467

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 35.7 | 17.2 | 25.8# |
| 58 | 59.5 | 44.5 | 66.7 |



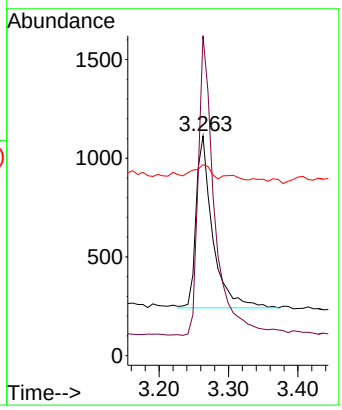


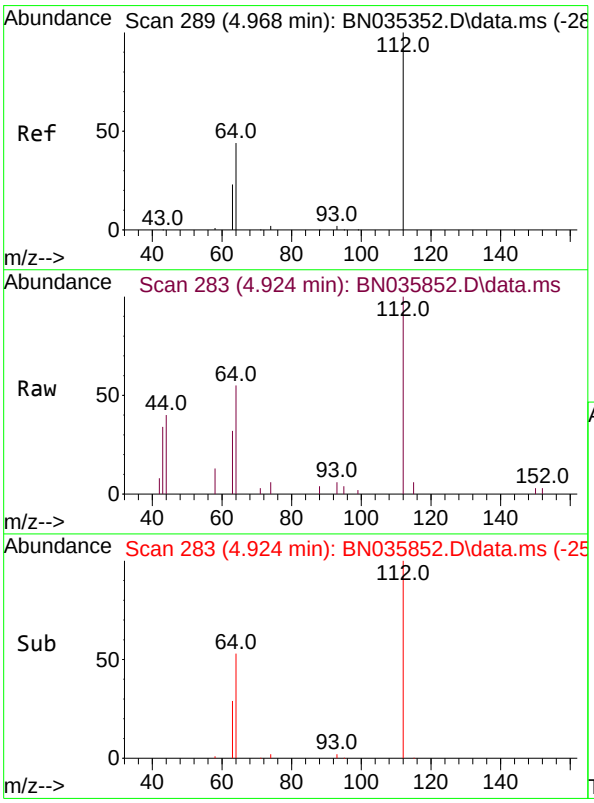

#3
n-Nitrosodimethylamine
Concen: 0.408 ng
RT: 3.263 min Scan# 5
Delta R.T. -0.015 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

**Instrument :**
BNA_N
**ClientSampleId :**
PB165828BS

Tgt Ion: 42 Resp: 1440

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 172.0 | 124.9 | 187.3 |
| 44 | 8.5 | 2.2 | 3.4# |

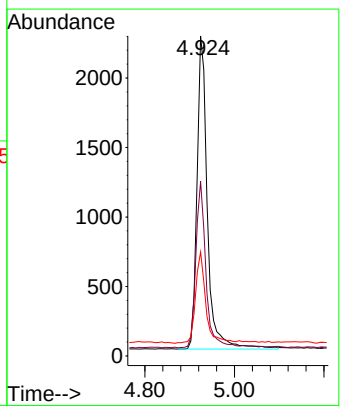


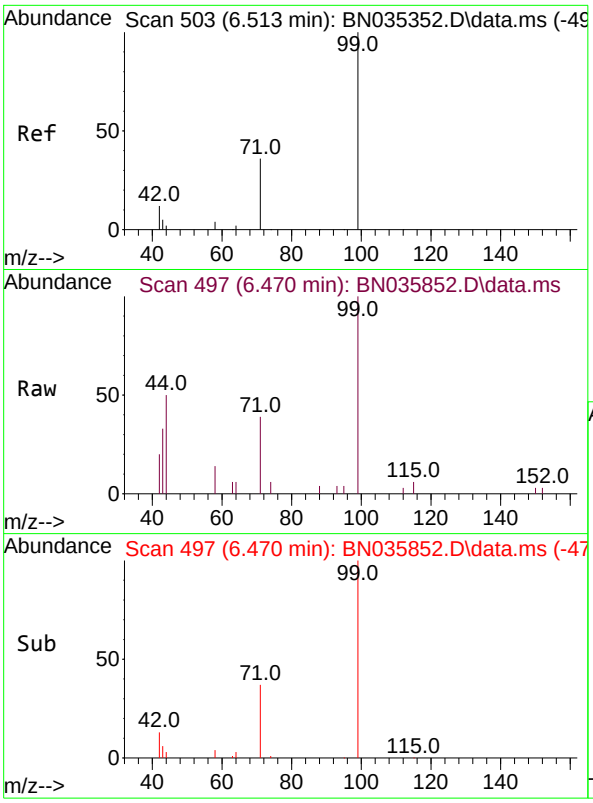




#4
2-Fluorophenol
Concen: 0.329 ng
RT: 4.924 min Scan# 283
Delta R.T. -0.015 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:112 Resp: 3645

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 51.2 | 39.8 | 59.8 |
| 63 | 28.7 | 21.0 | 31.6 |



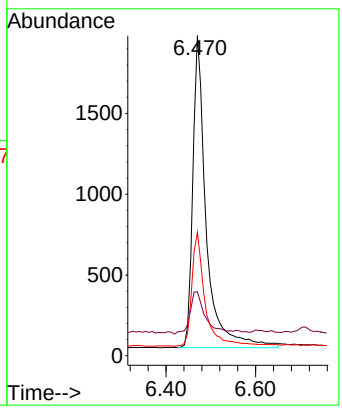


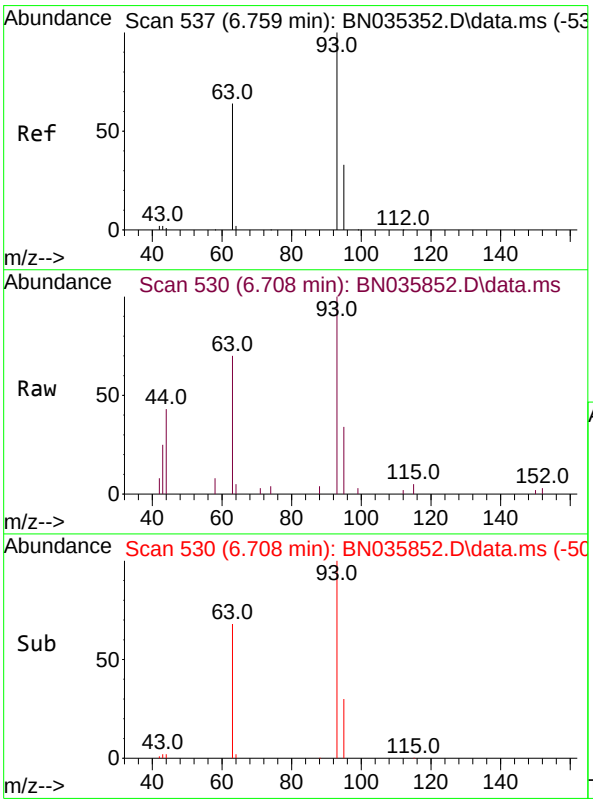

#5
Phenol-d6
Concen: 0.302 ng
RT: 6.470 min Scan# 4
Delta R.T. -0.022 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

**Instrument :**
BNA_N
**ClientSampleId :**
PB165828BS

Tgt Ion: 99 Resp: 4024

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 15.6 | 11.4 | 17.2 |
| 71 | 36.4 | 29.3 | 43.9 |

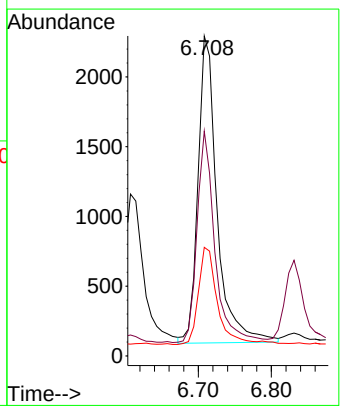


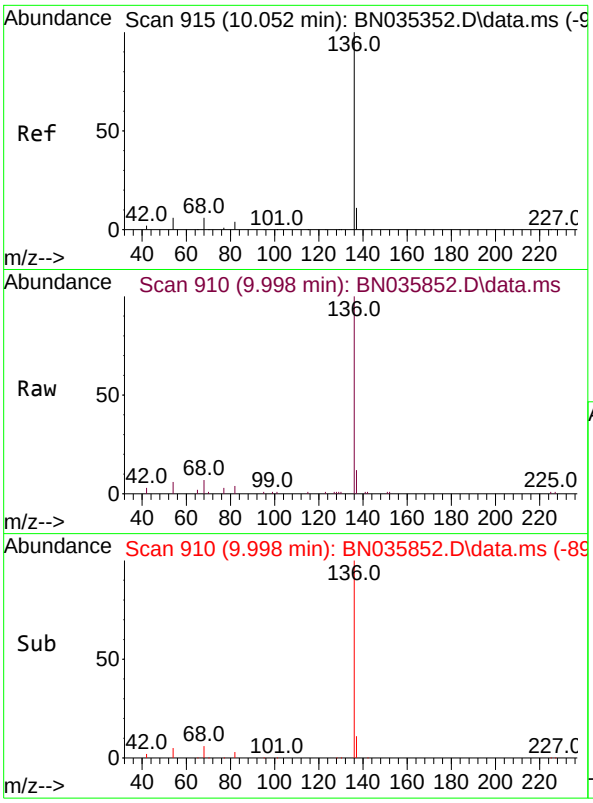




#6
bis(2-Chloroethyl)ether
Concen: 0.355 ng
RT: 6.708 min Scan# 530
Delta R.T. -0.022 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion: 93 Resp: 3983

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 64.4 | 50.4 | 75.6 |
| 95 | 32.1 | 25.7 | 38.5 |



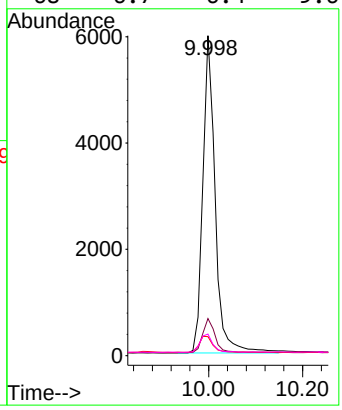


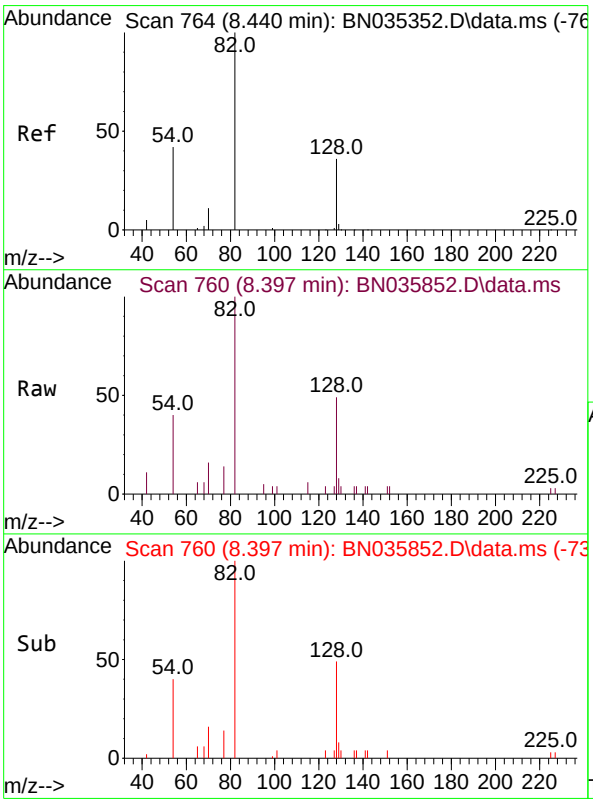

#7
Naphthalene-d8
Concen: 0.400 ng
RT: 9.998 min Scan# 9
Delta R.T. -0.022 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

**Instrument :**
BNA_N
**ClientSampleId :**
PB165828BS

Tgt Ion:136 Resp: 10905

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.6 | 10.2 | 15.2 |
| 54 | 5.9 | 6.1 | 9.1# |
| 68 | 6.7 | 6.4 | 9.6 |

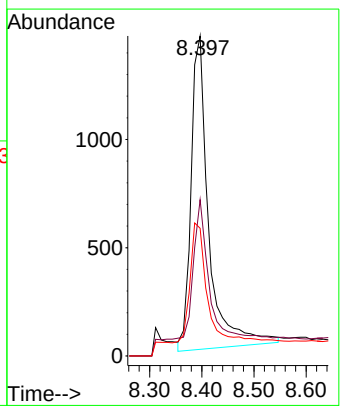


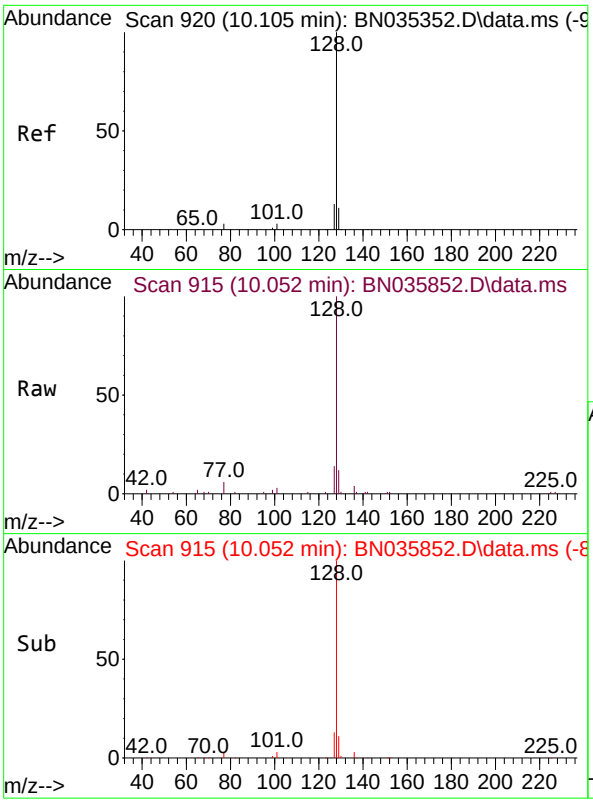




#8
Nitrobenzene-d5
Concen: 0.513 ng
RT: 8.397 min Scan# 760
Delta R.T. -0.011 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion: 82 Resp: 3418

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 48.8 | 33.4 | 50.0 |
| 54 | 39.9 | 36.7 | 55.1 |



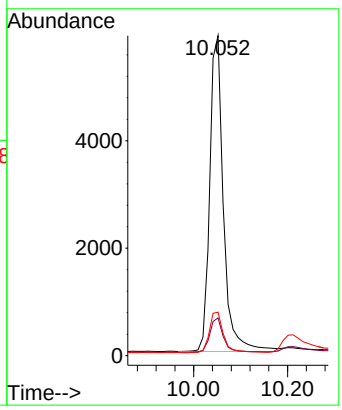


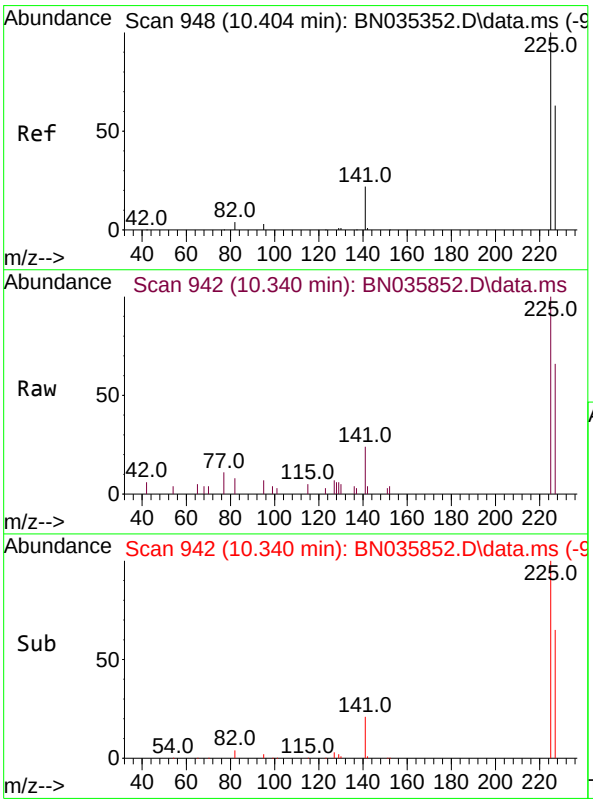

#9
Naphthalene
Concen: 0.415 ng
RT: 10.052 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

**Instrument :**
BNA_N
**ClientSampleId :**
PB165828BS

Tgt Ion:128 Resp: 11935

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 11.8 | 9.8 | 14.6 |
| 127 | 13.6 | 11.4 | 17.2 |

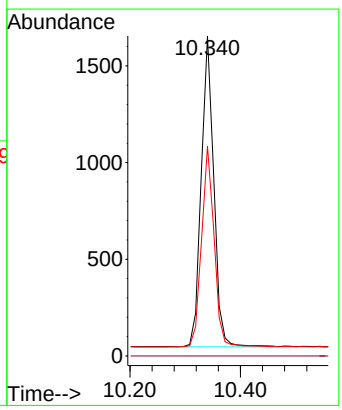


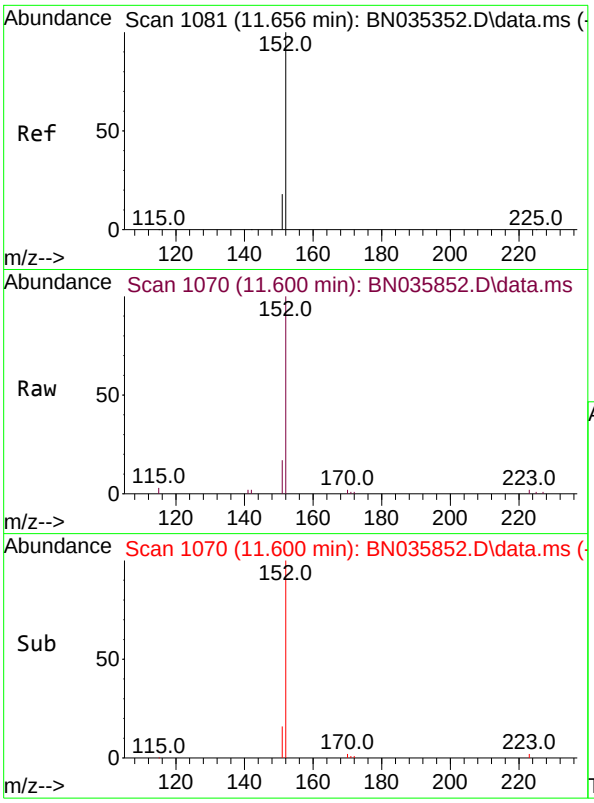




#10
Hexachlorobutadiene
Concen: 0.385 ng
RT: 10.340 min Scan# 942
Delta R.T. -0.022 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:225 Resp: 2551

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 0.0 | 0.0 | 0.0 |
| 227 | 64.9 | 51.3 | 76.9 |



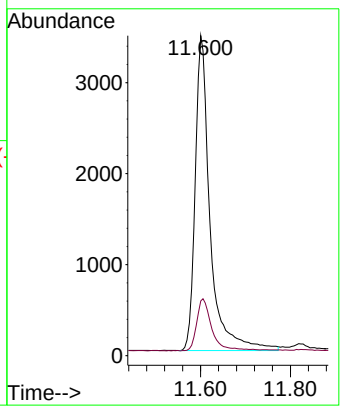


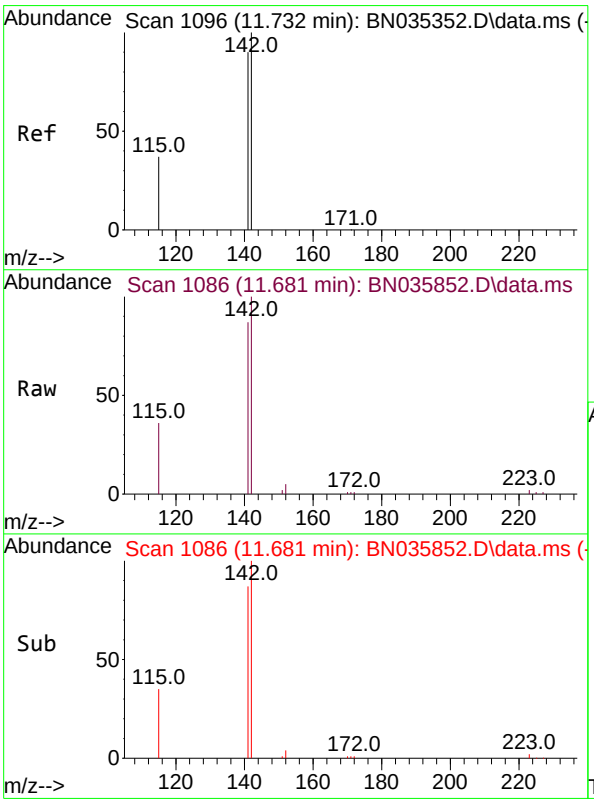

#11
2-Methylnaphthalene-d10
Concen: 0.466 ng
RT: 11.600 min Scan# 1
Delta R.T. -0.021 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

**Instrument :**
BNA_N
**ClientSampleId :**
PB165828BS

Tgt Ion:152 Resp: 7947

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 16.8 | 16.6 | 25.0 |

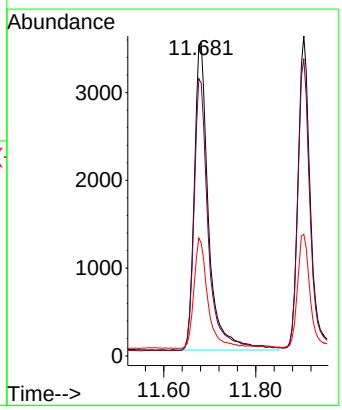


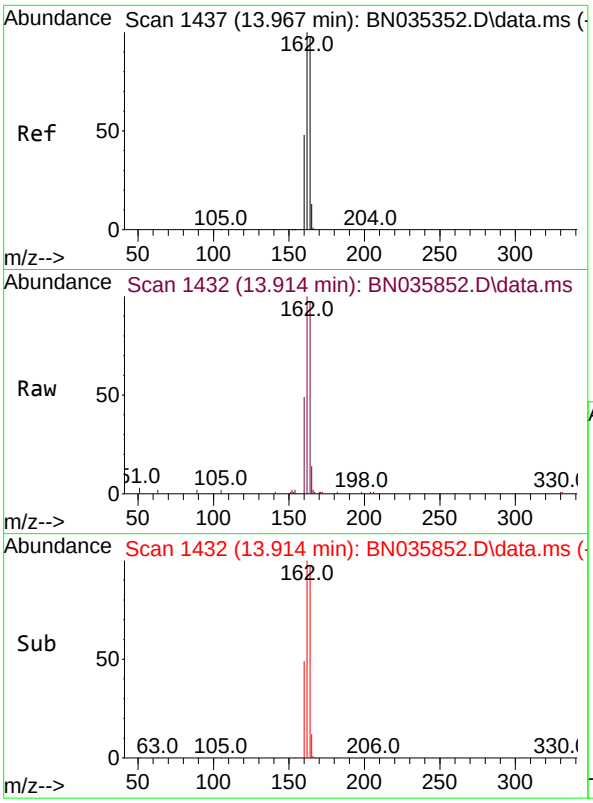




#12
2-Methylnaphthalene
Concen: 0.366 ng
RT: 11.681 min Scan# 1086
Delta R.T. -0.015 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:142 Resp: 7534

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 87.3 | 72.2 | 108.4 |
| 115 | 36.1 | 31.4 | 47.0 |



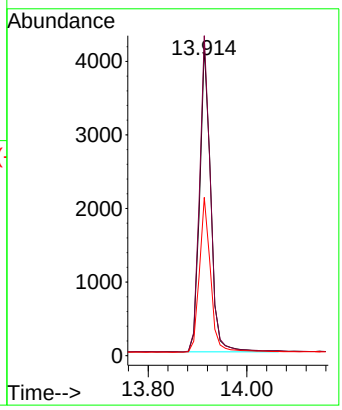


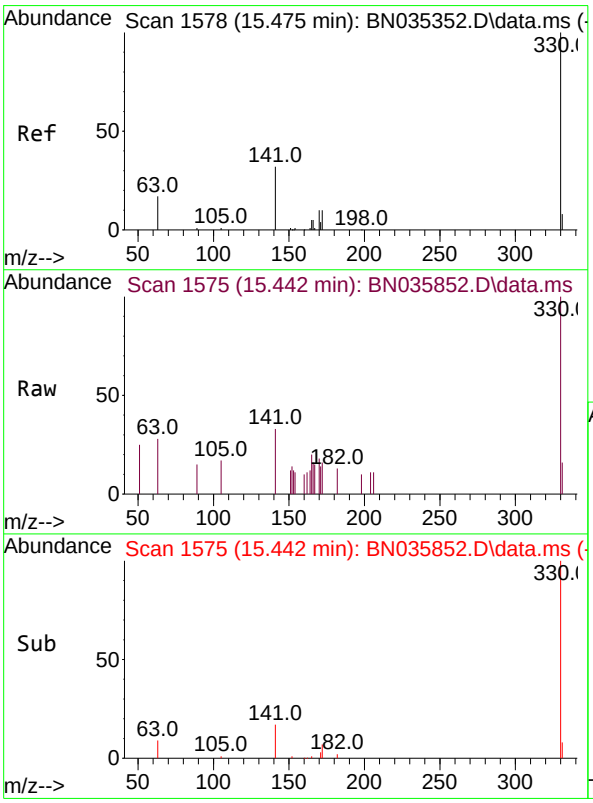

#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.914 min Scan# 14
Delta R.T. -0.022 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

**Instrument :**
BNA_N
**ClientSampleId :**
PB165828BS

Tgt Ion:164 Resp: 6427

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 103.4 | 82.2 | 123.2 |
| 160 | 51.1 | 40.1 | 60.1 |

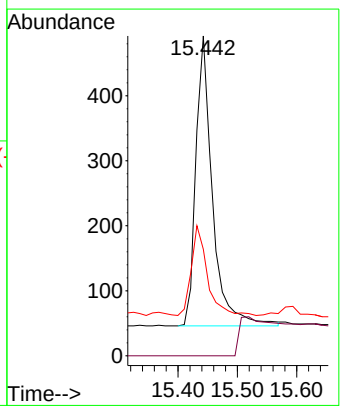


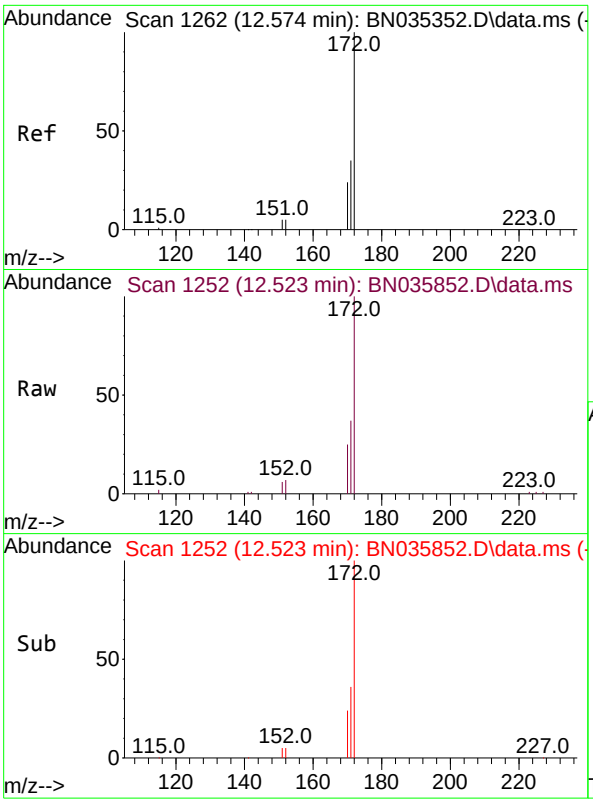




#14
2,4,6-Tribromophenol
Concen: 0.200 ng
RT: 15.442 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:330 Resp: 913

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 0.0 | 0.0 | 0.0 |
| 141 | 29.1 | 26.6 | 40.0 |



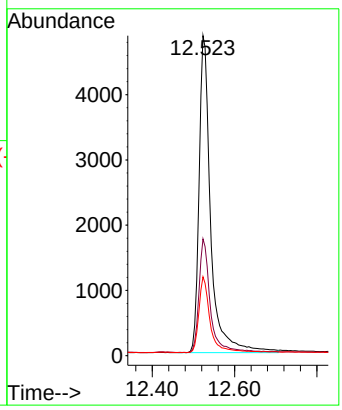


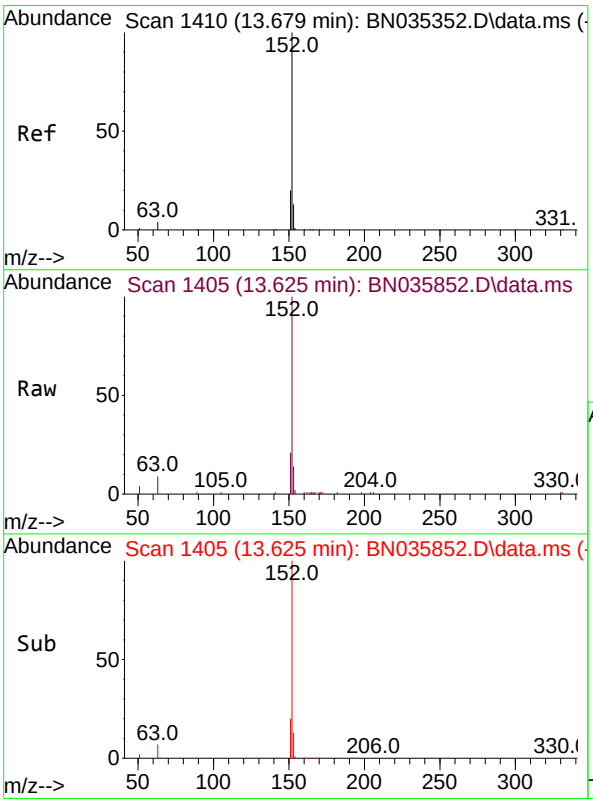

#15
2-Fluorobiphenyl
Concen: 0.394 ng
RT: 12.523 min Scan# 1
Delta R.T. -0.021 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

**Instrument :**
BNA_N
**ClientSampleId :**
PB165828BS

Tgt Ion:172 Resp: 9578

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 36.5 | 29.0 | 43.4 |
| 170 | 24.6 | 19.8 | 29.8 |

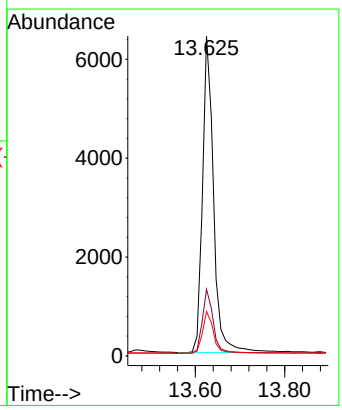


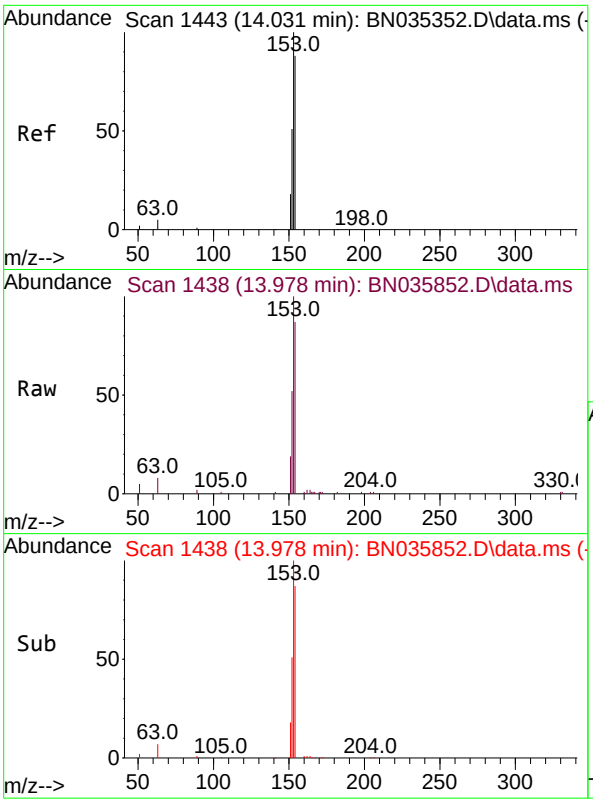




#16
Acenaphthylene
Concen: 0.407 ng
RT: 13.625 min Scan# 1405
Delta R.T. -0.022 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:152 Resp: 10983

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.1 | 16.2 | 24.2 |
| 153 | 13.3 | 10.4 | 15.6 |



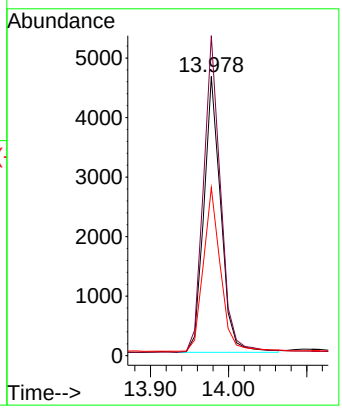


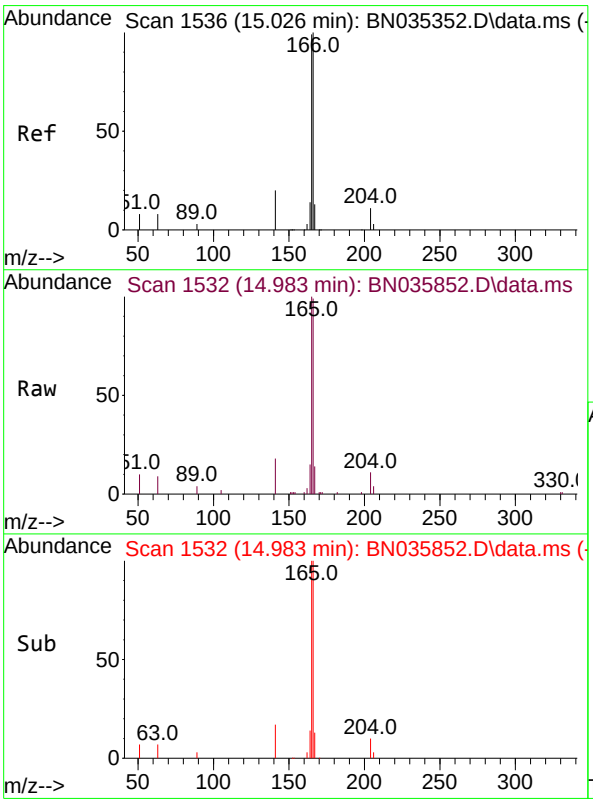

#17
Acenaphthene
Concen: 0.390 ng
RT: 13.978 min Scan# 14
Delta R.T. -0.022 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

**Instrument :**
BNA_N
**ClientSampleId :**
PB165828BS

Tgt Ion:154 Resp: 6982

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 117.4 | 92.6 | 139.0 |
| 152 | 60.2 | 49.0 | 73.6 |

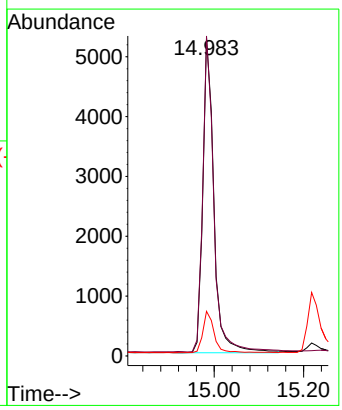


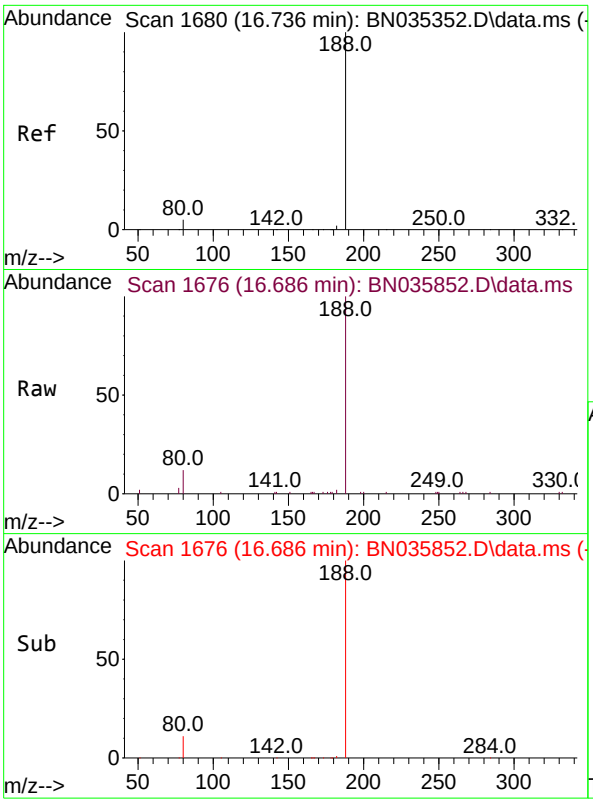




#18
Fluorene
Concen: 0.353 ng
RT: 14.983 min Scan# 1532
Delta R.T. -0.022 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:166 Resp: 9056

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 99.5 | 79.7 | 119.5 |
| 167 | 13.2 | 10.8 | 16.2 |



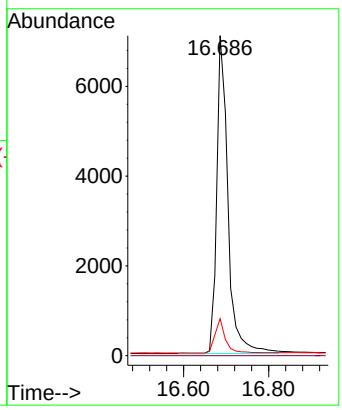


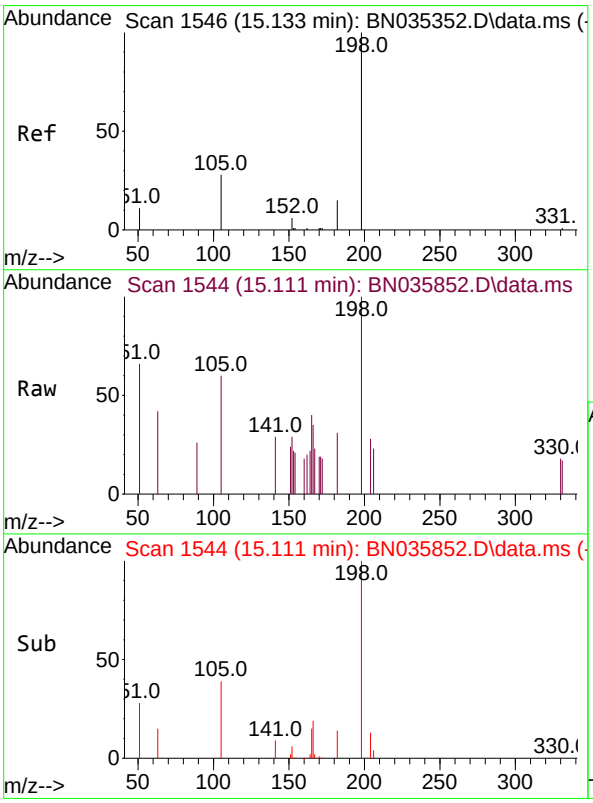

#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.686 min Scan# 1(
Delta R.T. -0.013 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

**Instrument :**
BNA_N
**ClientSampleId :**
PB165828BS

Tgt Ion:188 Resp: 13001

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 11.6 | 4.6 | 6.8# |

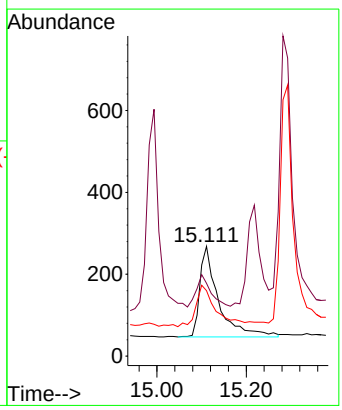


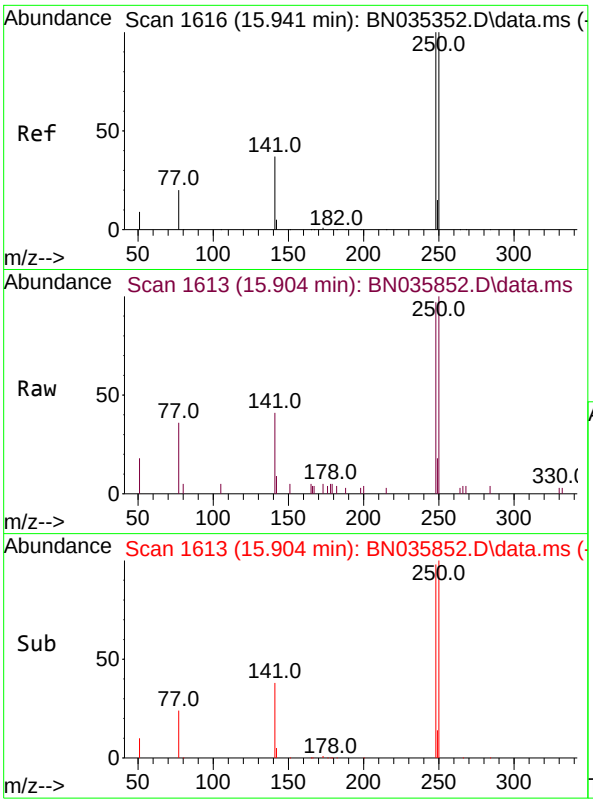




#20
4,6-Dinitro-2-methylphenol
Concen: 0.505 ng
RT: 15.111 min Scan# 1544
Delta R.T. -0.011 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:198 Resp: 645

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 198 | 100 | | |
| 51 | 66.4 | 46.5 | 69.7 |
| 105 | 59.7 | 45.3 | 67.9 |



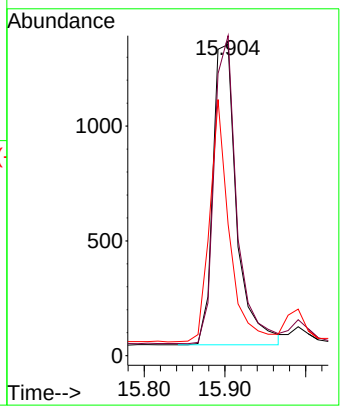


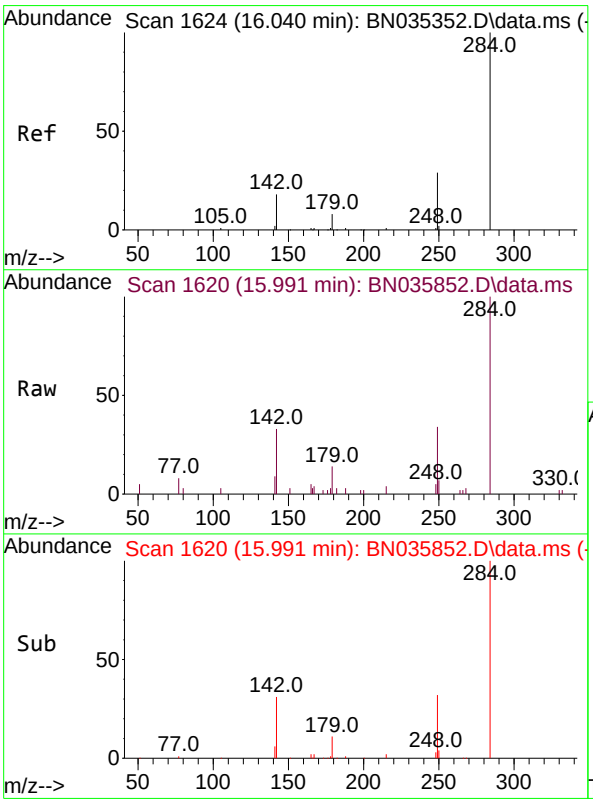

#21
4-Bromophenyl-phenylether
Concen: 0.353 ng
RT: 15.904 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

**Instrument :**
BNA_N
**ClientSampleId :**
PB165828BS

Tgt Ion:248 Resp: 2685

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 102.8 | 80.6 | 120.8 |
| 141 | 42.2 | 31.5 | 47.3 |

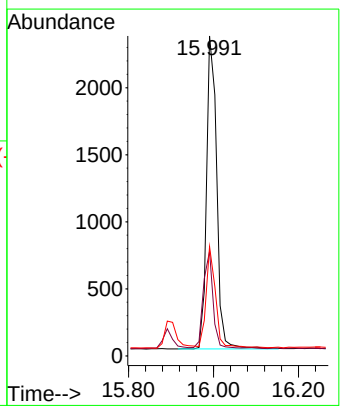


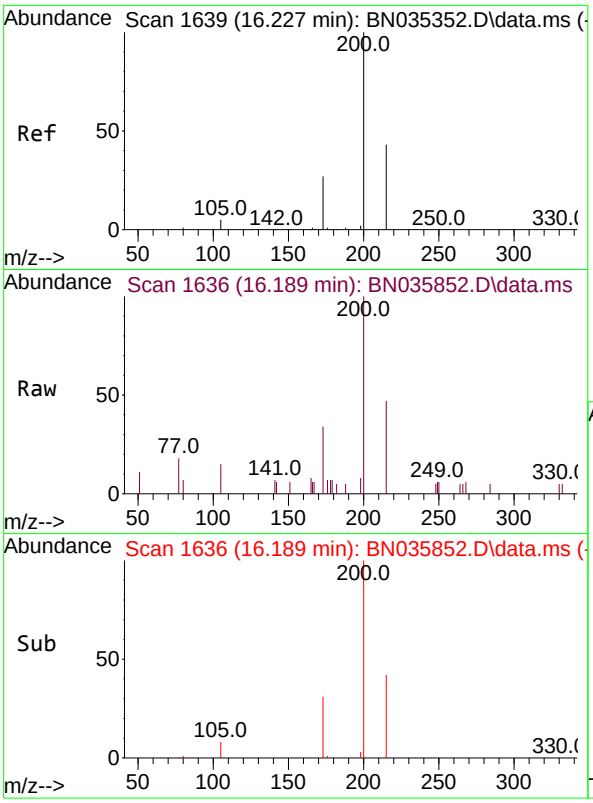




#22
Hexachlorobenzene
Concen: 0.432 ng
RT: 15.991 min Scan# 1620
Delta R.T. -0.025 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:284 Resp: 3862

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 29.3 | 26.7 | 40.1 |
| 249 | 30.2 | 24.6 | 36.8 |



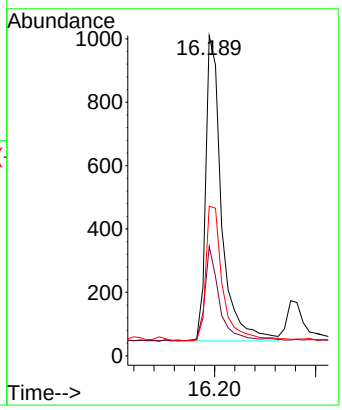


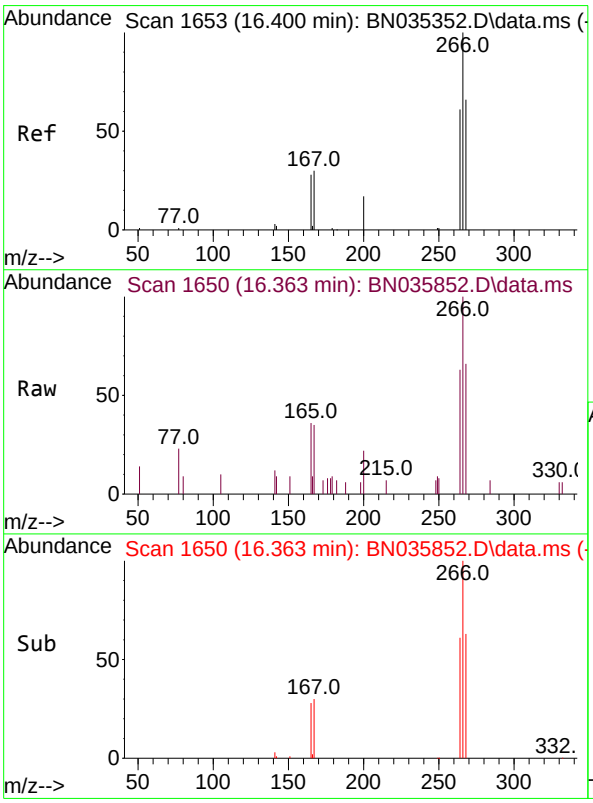

#23
Atrazine
Concen: 0.390 ng
RT: 16.189 min Scan# 1(
Delta R.T. -0.013 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

**Instrument :**
BNA_N
**ClientSampleId :**
PB165828BS

Tgt Ion:200 Resp: 2110

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 173 | 34.2 | 24.1 | 36.1 |
| 215 | 46.7 | 36.9 | 55.3 |

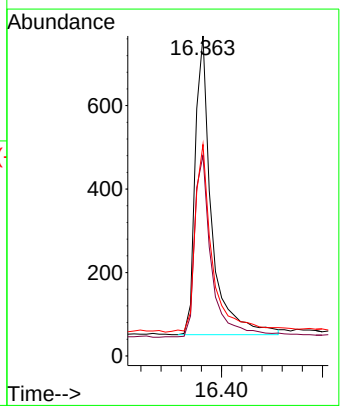


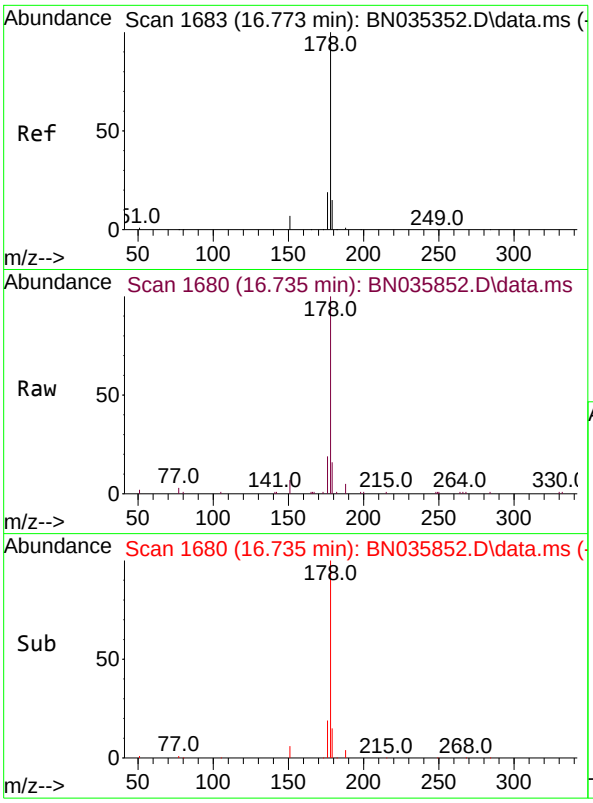




#24
Pentachlorophenol
Concen: 0.415 ng
RT: 16.363 min Scan# 1650
Delta R.T. -0.013 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:266 Resp: 1614

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 264 | 63.1 | 42.3 | 63.5 |
| 268 | 65.7 | 43.3 | 64.9# |



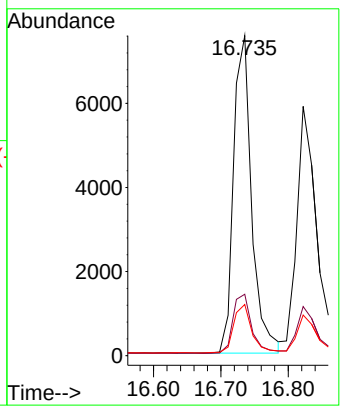


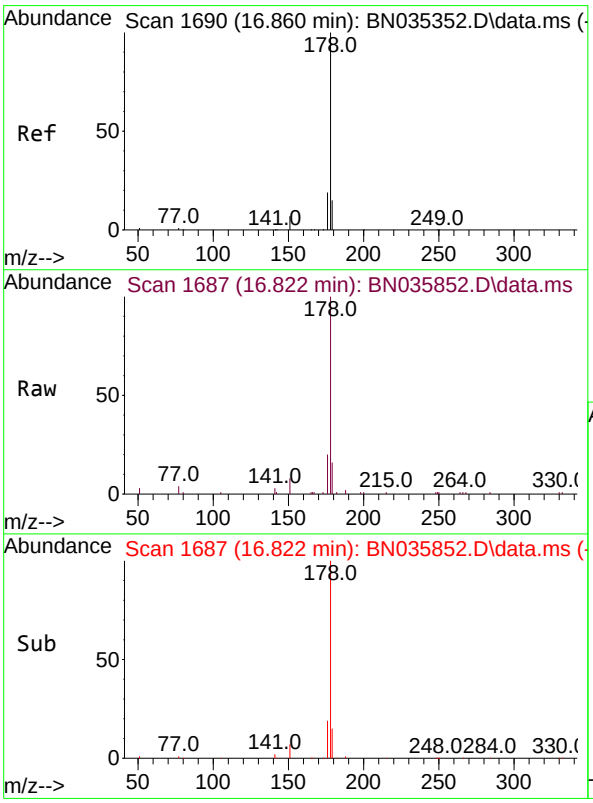

#25
Phenanthrene
Concen: 0.397 ng
RT: 16.735 min Scan# 1(
Delta R.T. -0.013 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

**Instrument :**
BNA_N
**ClientSampleId :**
PB165828BS

Tgt Ion:178 Resp: 14161

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.3 | 15.4 | 23.2 |
| 179 | 15.3 | 12.3 | 18.5 |

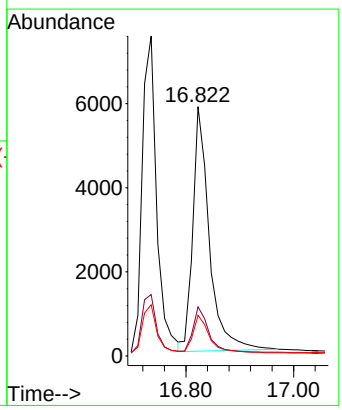


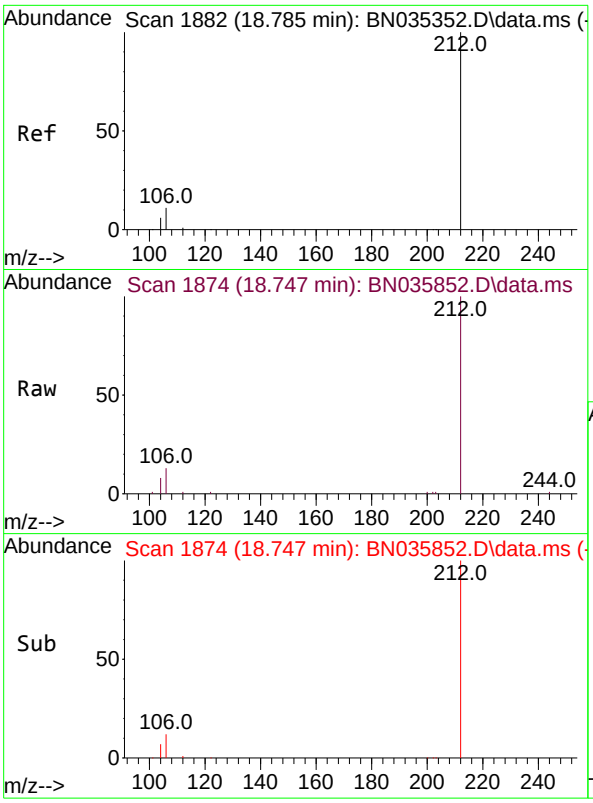




#26
Anthracene
Concen: 0.384 ng
RT: 16.822 min Scan# 1687
Delta R.T. -0.013 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:178 Resp: 12409

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.9 | 15.0 | 22.6 |
| 179 | 14.9 | 12.6 | 18.8 |



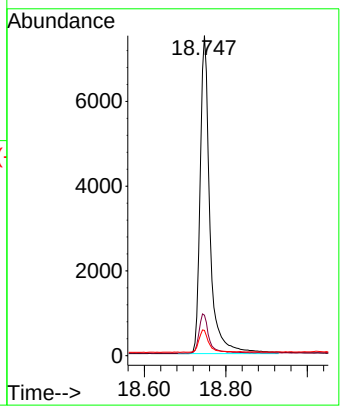


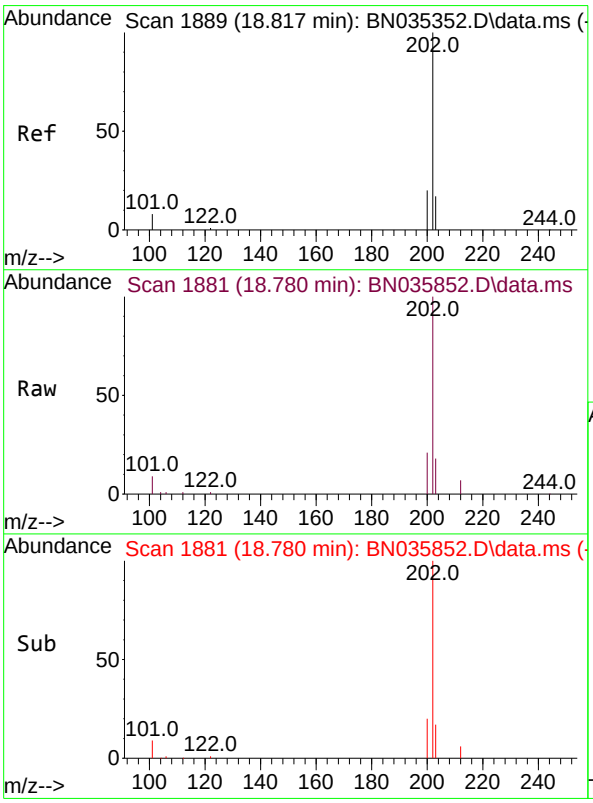

#27
Fluoranthene-d10
Concen: 0.339 ng
RT: 18.747 min Scan# 1
Delta R.T. -0.014 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

**Instrument :**
BNA_N
**ClientSampleId :**
PB165828BS

Tgt Ion:212 Resp: 12504

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 12.6 | 9.2 | 13.8 |
| 104 | 7.0 | 5.3 | 7.9 |

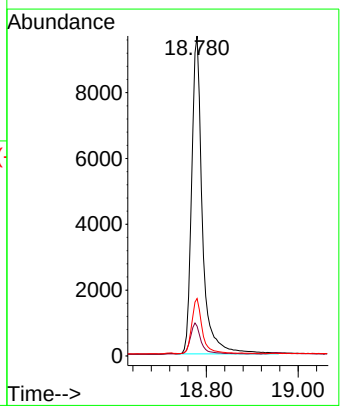


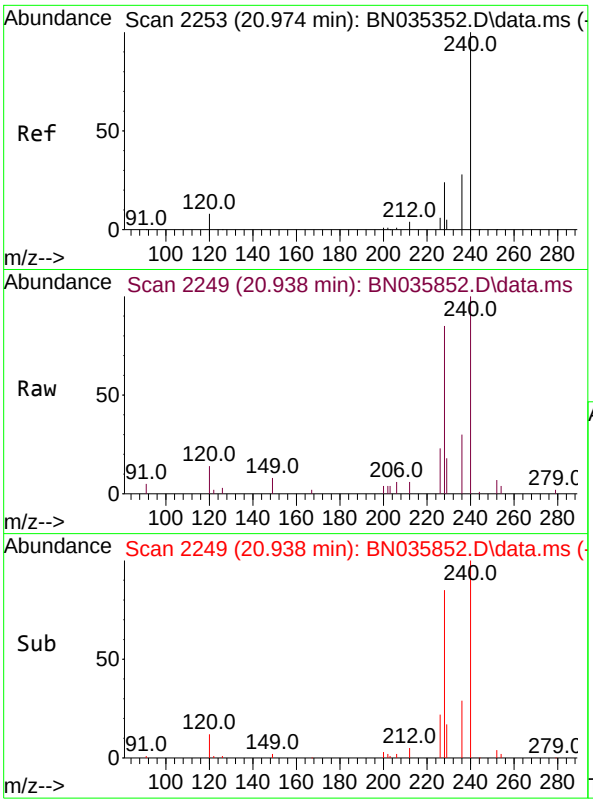




#28
Fluoranthene
Concen: 0.326 ng
RT: 18.780 min Scan# 1881
Delta R.T. -0.010 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:202 Resp: 15692

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 9.5 | 7.4 | 11.0 |
| 203 | 16.8 | 13.7 | 20.5 |



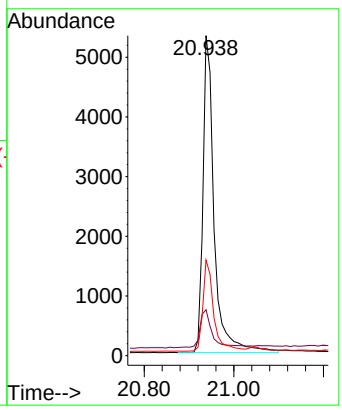


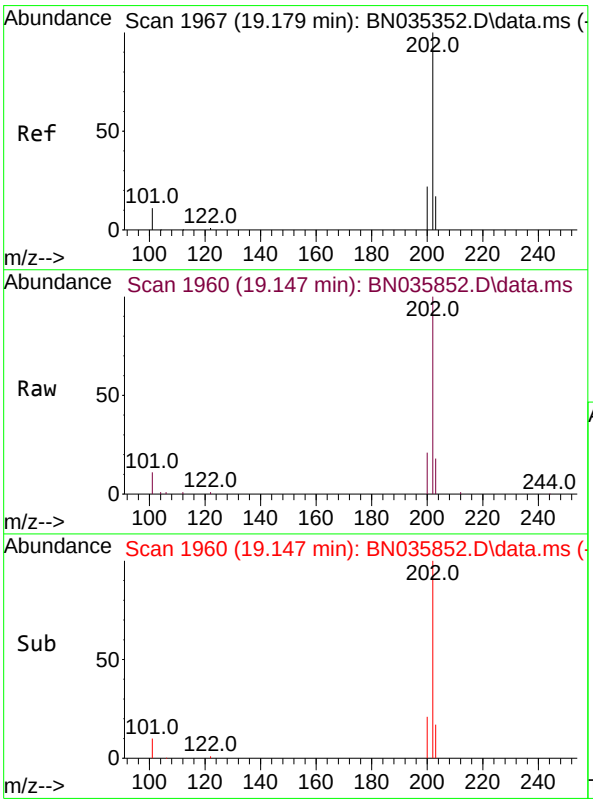

#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.938 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

**Instrument :**
BNA_N
**ClientSampleId :**
PB165828BS

Tgt Ion:240 Resp: 9257

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 14.3 | 7.9 | 11.9# |
| 236 | 29.9 | 22.9 | 34.3 |

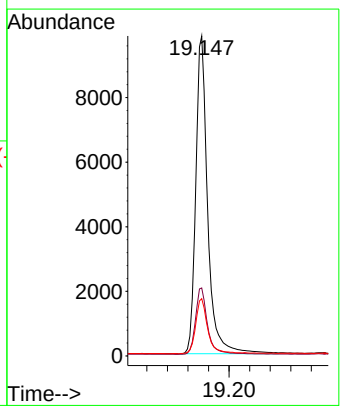


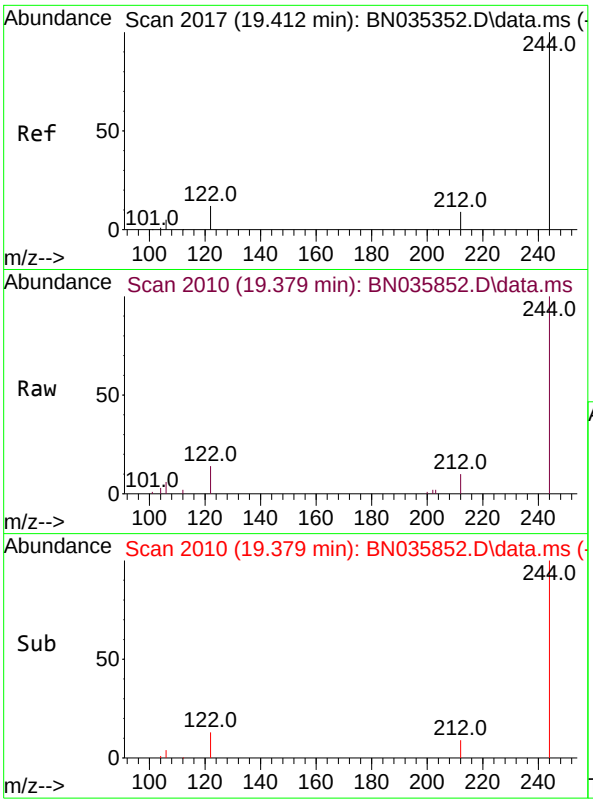




#30
Pyrene
Concen: 0.466 ng
RT: 19.147 min Scan# 1960
Delta R.T. -0.014 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:202 Resp: 15917

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.2 | 17.0 | 25.4 |
| 203 | 17.5 | 14.3 | 21.5 |



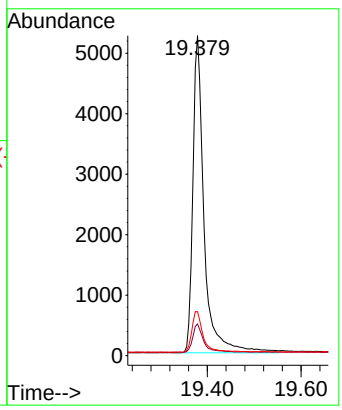


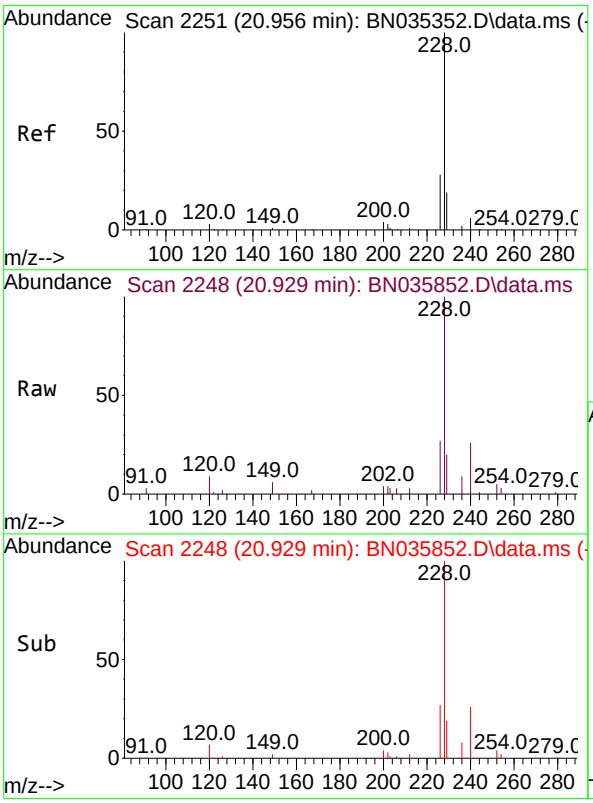

#31
Terphenyl-d14
Concen: 0.476 ng
RT: 19.379 min Scan# 2
Delta R.T. -0.010 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

**Instrument :**
BNA_N
**ClientSampleId :**
PB165828BS

Tgt Ion:244 Resp: 8698

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 9.9 | 8.1 | 12.1 |
| 122 | 13.7 | 10.3 | 15.5 |

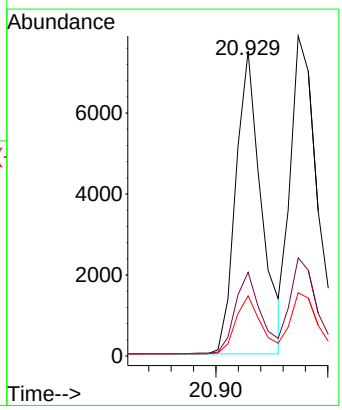


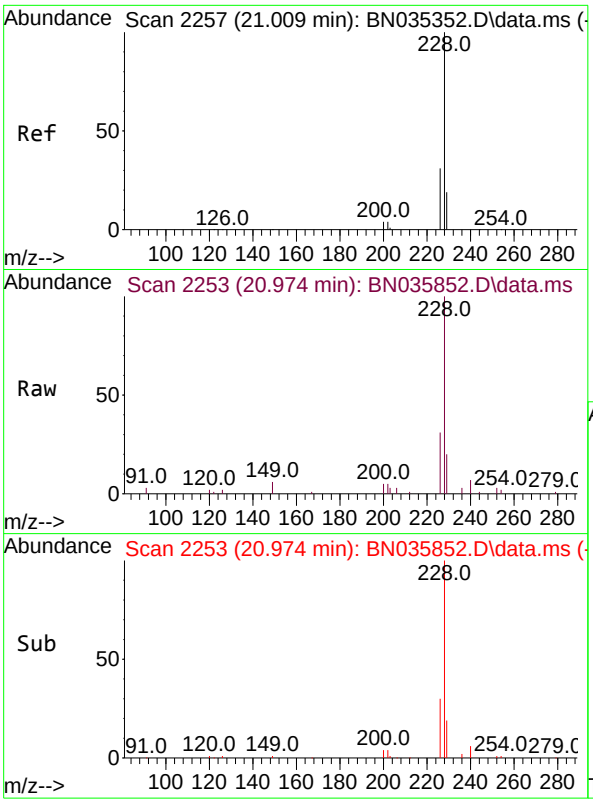




#32
Benzo(a)anthracene
Concen: 0.365 ng
RT: 20.929 min Scan# 2248
Delta R.T. -0.009 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:228 Resp: 11832

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 27.5 | 22.5 | 33.7 |
| 229 | 19.7 | 15.8 | 23.8 |



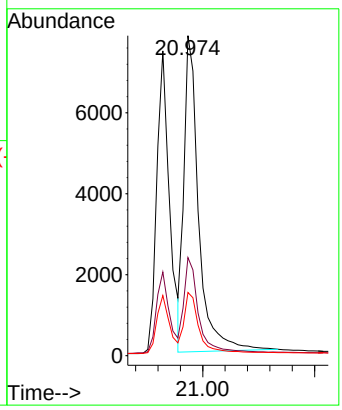


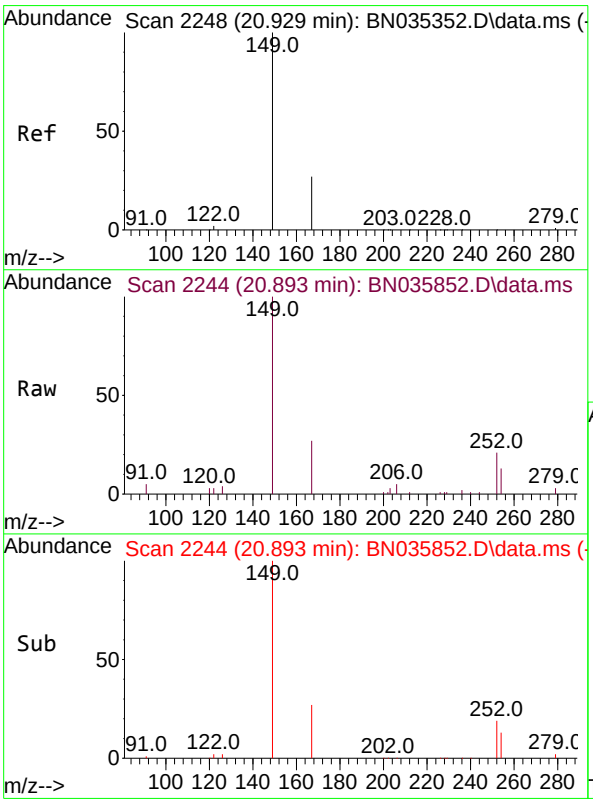

#33
Chrysene
Concen: 0.426 ng
RT: 20.974 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

**Instrument :**
BNA_N
**ClientSampleId :**
PB165828BS

Tgt Ion:228 Resp: 14241

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 30.7 | 24.6 | 37.0 |
| 229 | 19.8 | 15.9 | 23.9 |

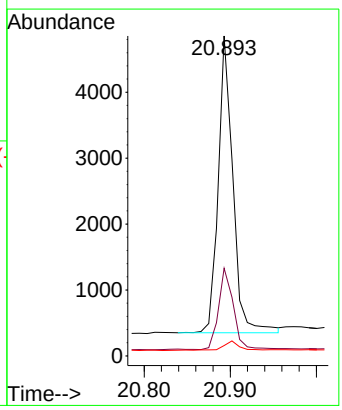


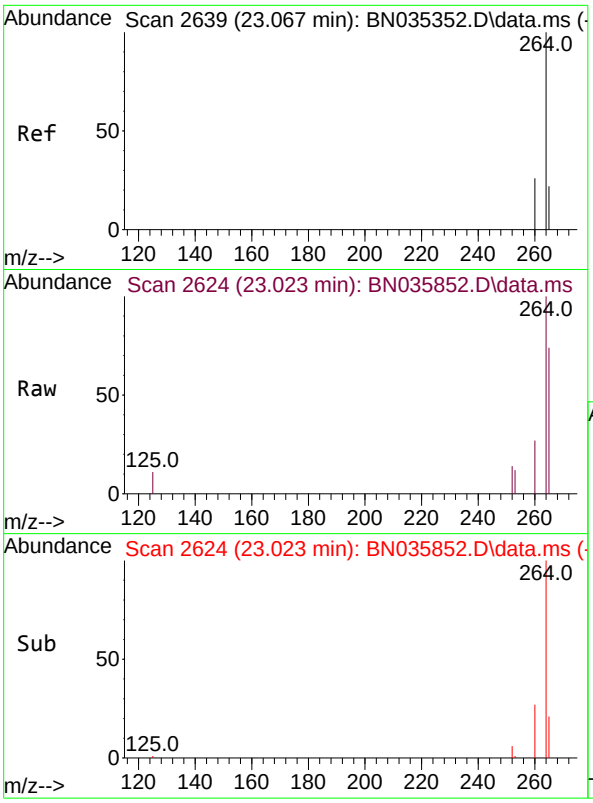




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.415 ng
RT: 20.893 min Scan# 2244
Delta R.T. -0.018 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:149 Resp: 5313

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 27.4 | 22.2 | 33.4 |
| 279 | 3.3 | 2.7 | 4.1 |



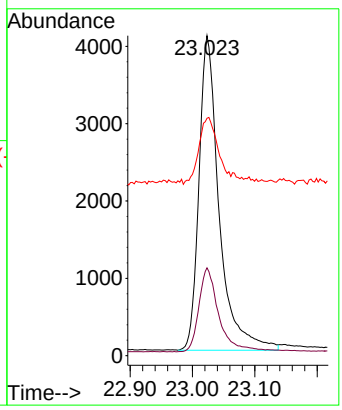


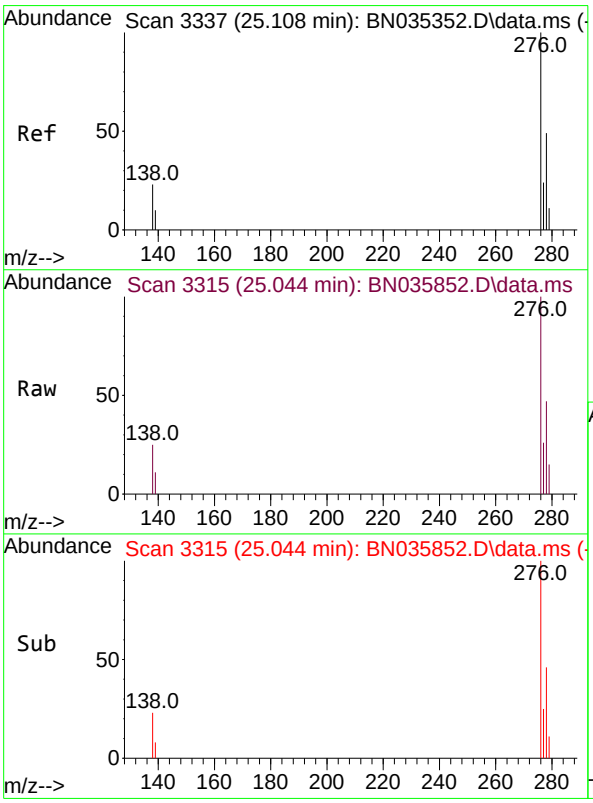

#35
Perylene-d12
Concen: 0.400 ng
RT: 23.023 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

**Instrument :**
BNA_N
**ClientSampleId :**
PB165828BS

Tgt Ion:264 Resp: 9148

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 27.5 | 21.4 | 32.2 |
| 265 | 74.2 | 40.2 | 60.4# |

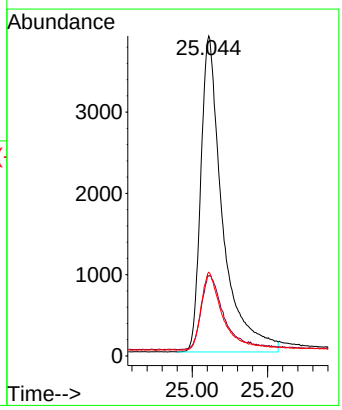


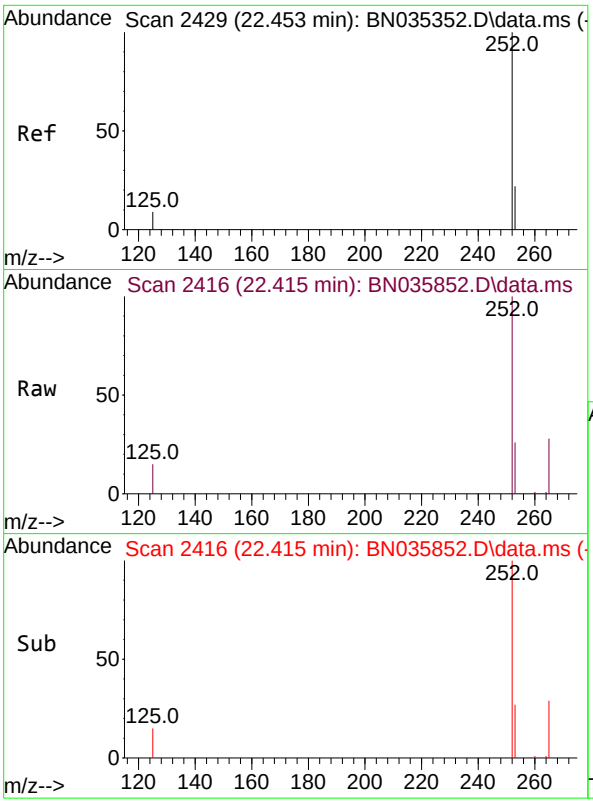




#36
Indeno(1,2,3-cd)pyrene
Concen: 0.435 ng
RT: 25.044 min Scan# 3315
Delta R.T. -0.024 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:276 Resp: 15551

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 23.9 | 19.4 | 29.0 |
| 277 | 24.9 | 19.8 | 29.6 |



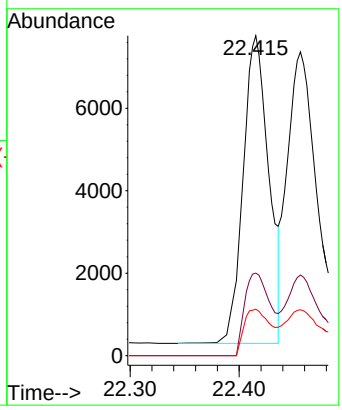


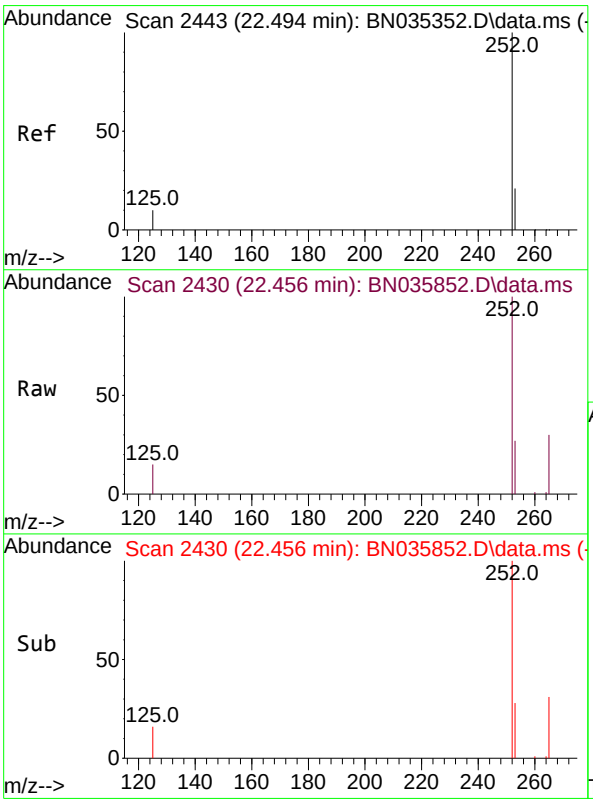

#37
Benzo(b)fluoranthene
Concen: 0.581 ng
RT: 22.415 min Scan# 24
Delta R.T. -0.015 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

**Instrument :**
BNA_N
**ClientSampleId :**
PB165828BS

Tgt Ion:252 Resp: 19434

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 25.8 | 19.6 | 29.4 |
| 125 | 14.5 | 9.6 | 14.4# |

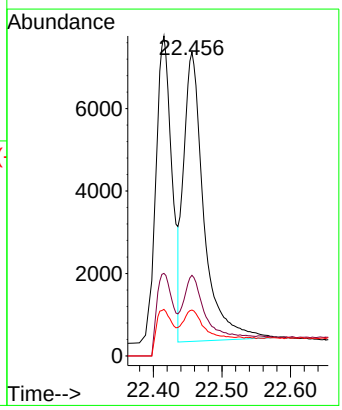


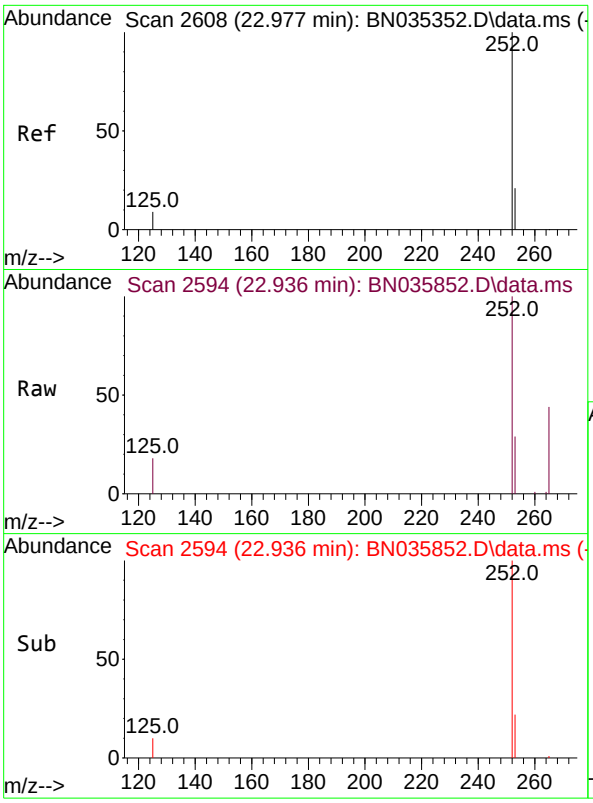




#38
Benzo(k)fluoranthene
Concen: 0.439 ng
RT: 22.456 min Scan# 2430
Delta R.T. -0.015 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:252 Resp: 14469

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 26.5 | 19.5 | 29.3 |
| 125 | 15.1 | 10.2 | 15.4 |



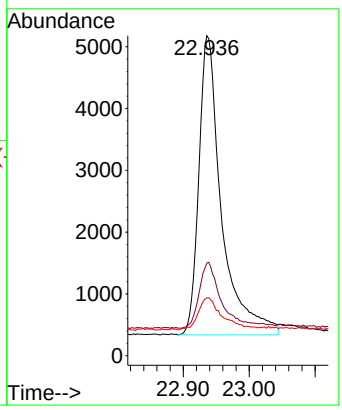


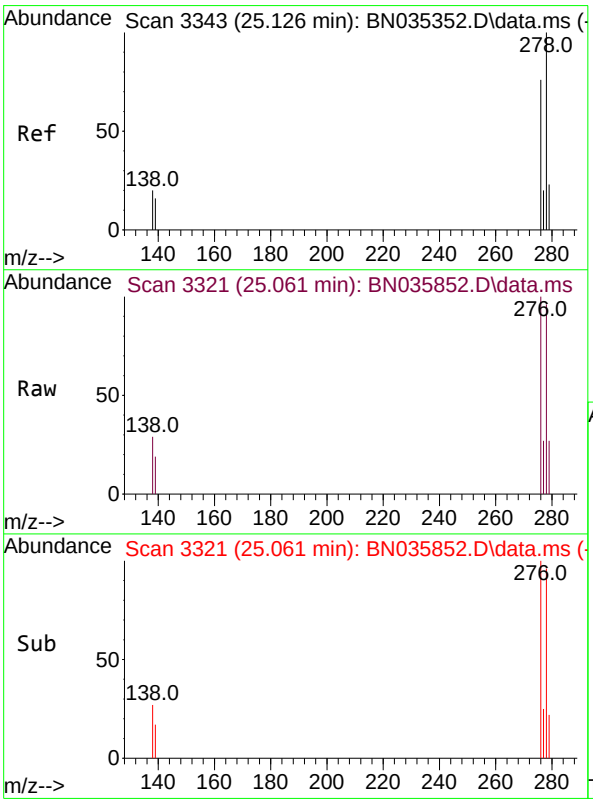

#39
Benzo(a)pyrene
Concen: 0.422 ng
RT: 22.936 min Scan# 2
Delta R.T. -0.015 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

**Instrument :**
BNA_N
**ClientSampleId :**
PB165828BS

Tgt Ion:252 Resp: 11624

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 29.0 | 20.2 | 30.4 |
| 125 | 18.0 | 10.9 | 16.3# |

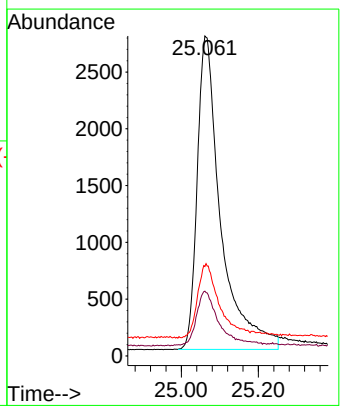


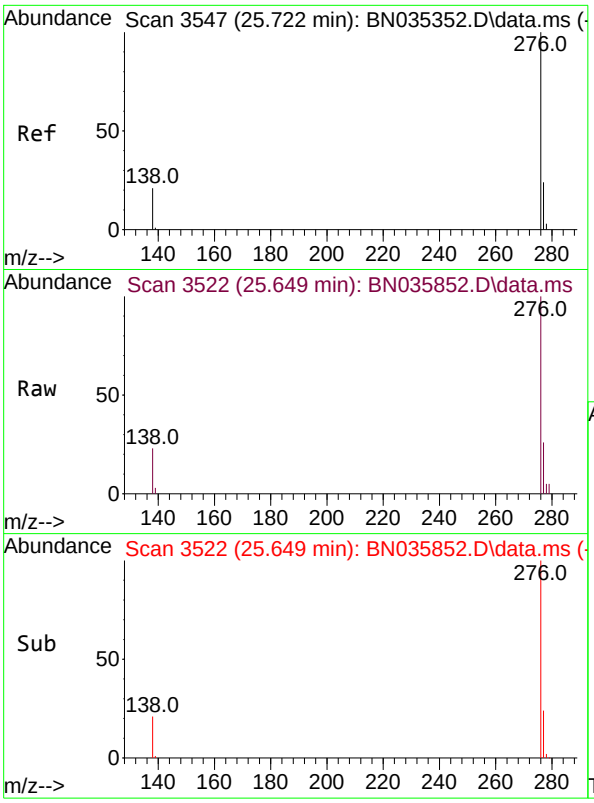




#40
Dibenzo(a,h)anthracene
Concen: 0.414 ng
RT: 25.061 min Scan# 3321
Delta R.T. -0.021 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:278 Resp: 11696

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 20.2 | 14.2 | 21.4 |
| 279 | 28.0 | 20.5 | 30.7 |



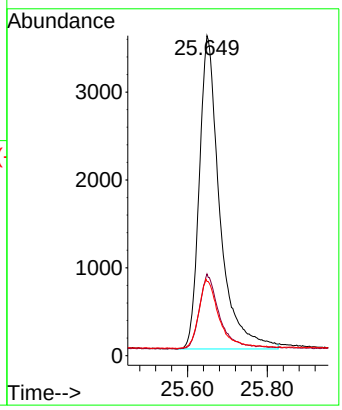



#41
Benzo(g,h,i)perylene
Concen: 0.431 ng
RT: 25.649 min Scan# 3
Delta R.T. -0.029 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

**Instrument :**
BNA_N
**ClientSampleId :**
PB165828BS

Tgt Ion:276 Resp: 12710

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 25.6 | 19.9 | 29.9 |
| 138 | 23.2 | 17.8 | 26.8 |



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
Data File : BN035854.D
Acq On : 26 Dec 2024 15:30
Operator : RC/JU
Sample : P5376-03DL 5X
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
RE115D2-20241218DL

Quant Time: Dec 27 00:41:35 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

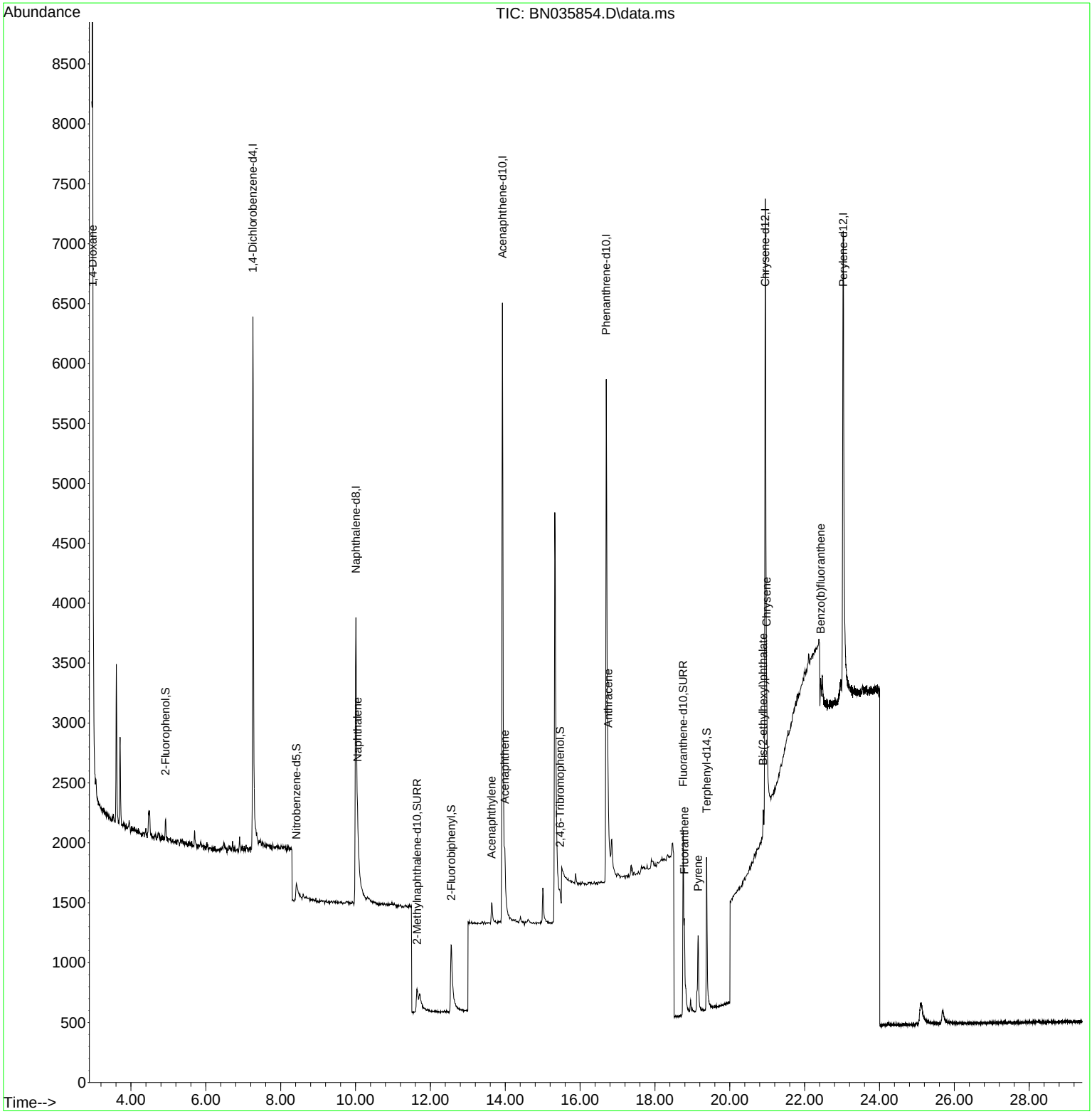
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.257 | 152 | 2752 | 0.400 | ng | -0.01 |
| 7) Naphthalene-d8 | 10.009 | 136 | 6133 | 0.400 | ng | -0.01 |
| 13) Acenaphthene-d10 | 13.924 | 164 | 4189 | 0.400 | ng | -0.01 |
| 19) Phenanthrene-d10 | 16.698 | 188 | 9267 | 0.400 | ng | # 0.00 |
| 29) Chrysene-d12 | 20.947 | 240 | 7345 | 0.400 | ng | # 0.00 |
| 35) Perylene-d12 | 23.029 | 264 | 6900 | 0.400 | ng | #-0.01 |
| System Monitoring Compounds | | | | | | |
| 4) 2-Fluorophenol | 4.924 | 112 | 170 | 0.025 | ng | -0.01 |
| 5) Phenol-d6 | 6.477 | 99 | 80 | 0.010 | ng | -0.01 |
| 8) Nitrobenzene-d5 | 8.418 | 82 | 544 | 0.145 | ng | 0.01 |
| 11) 2-Methylnaphthalene-d10 | 11.641 | 152 | 768 | 0.080 | ng | 0.02 |
| 14) 2,4,6-Tribromophenol | 15.464 | 330 | 143 | 0.048 | ng | 0.01 |
| 15) 2-Fluorobiphenyl | 12.559 | 172 | 1316 | 0.083 | ng | 0.01 |
| 27) Fluoranthene-d10 | 18.757 | 212 | 2532 | 0.096 | ng | 0.00 |
| 31) Terphenyl-d14 | 19.379 | 244 | 1897 | 0.131 | ng | 0.00 |
| Target Compounds | | | | | | Qvalue |
| 2) 1,4-Dioxane | 2.974 | 88 | 5250 | 1.996 | ng | 99 |
| 9) Naphthalene | 10.052 | 128 | 468 | 0.029 | ng | # 41 |
| 16) Acenaphthylene | 13.636 | 152 | 389 | 0.022 | ng | 95 |
| 17) Acenaphthene | 13.989 | 154 | 244 | 0.021 | ng | 96 |
| 26) Anthracene | 16.748 | 178 | 698 | 0.030 | ng | 96 |
| 28) Fluoranthene | 18.784 | 202 | 749 | 0.022 | ng | 99 |
| 30) Pyrene | 19.151 | 202 | 773 | 0.029 | ng | 98 |
| 33) Chrysene | 20.982 | 228 | 652 | 0.025 | ng | # 79 |
| 34) Bis(2-ethylhexyl)phtha... | 20.893 | 149 | 272 | 0.027 | ng | # 91 |
| 37) Benzo(b)fluoranthene | 22.430 | 252 | 554 | 0.022 | ng | # 1 |

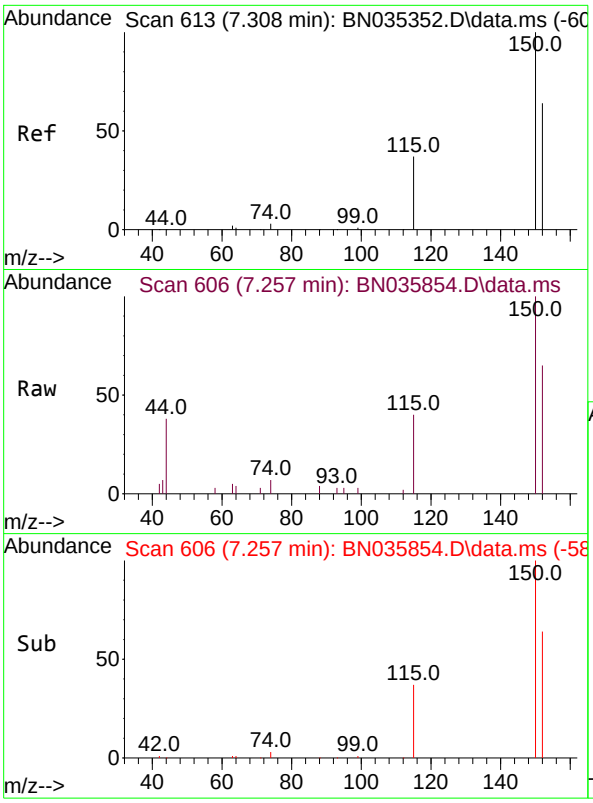
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
Data File : BN035854.D
Acq On : 26 Dec 2024 15:30
Operator : RC/JU
Sample : P5376-03DL 5X
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
RE115D2-20241218DL

Quant Time: Dec 27 00:41:35 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



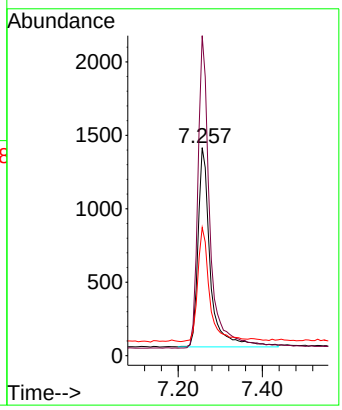


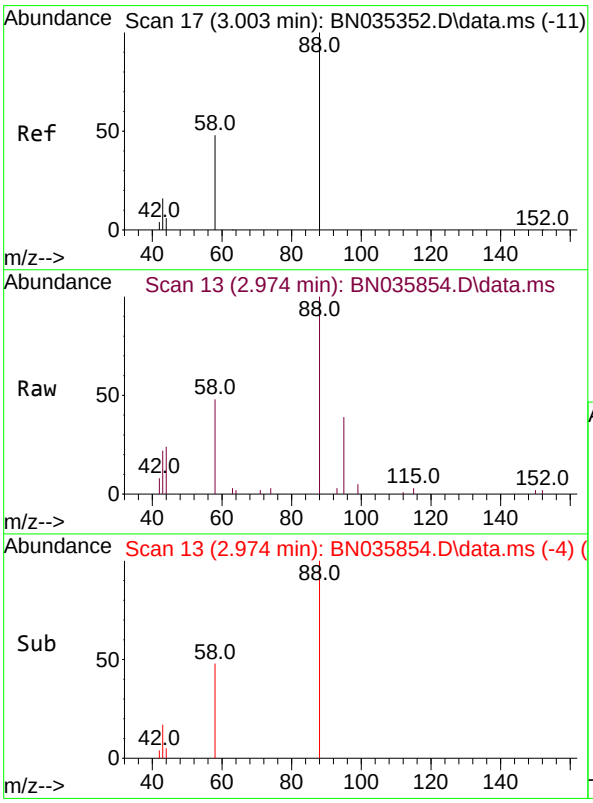

#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 6
Delta R.T. -0.015 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

**Instrument :**
BNA_N
**ClientSampleId :**
RE115D2-20241218DL

Tgt Ion:152 Resp: 2752

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 153.8 | 124.0 | 186.0 |
| 115 | 61.7 | 49.6 | 74.4 |

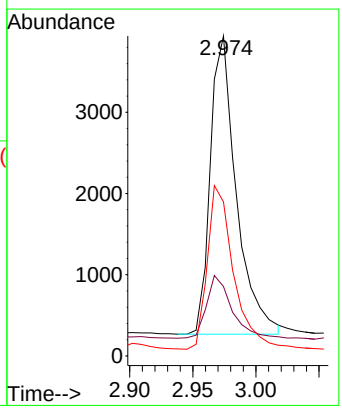


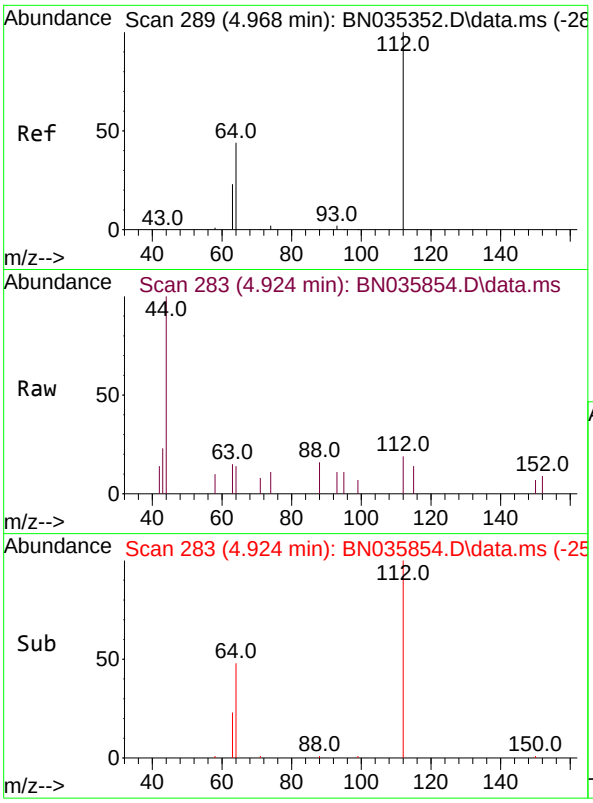




#2
1,4-Dioxane
Concen: 1.996 ng
RT: 2.974 min Scan# 13
Delta R.T. -0.008 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

Tgt Ion: 88 Resp: 5250

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 20.5 | 17.2 | 25.8 |
| 58 | 54.9 | 44.5 | 66.7 |



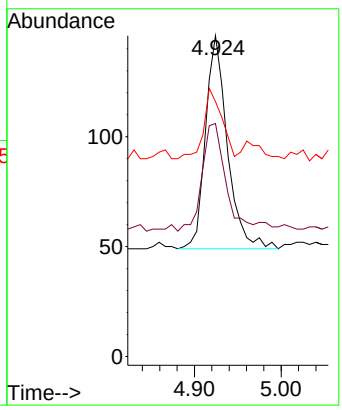


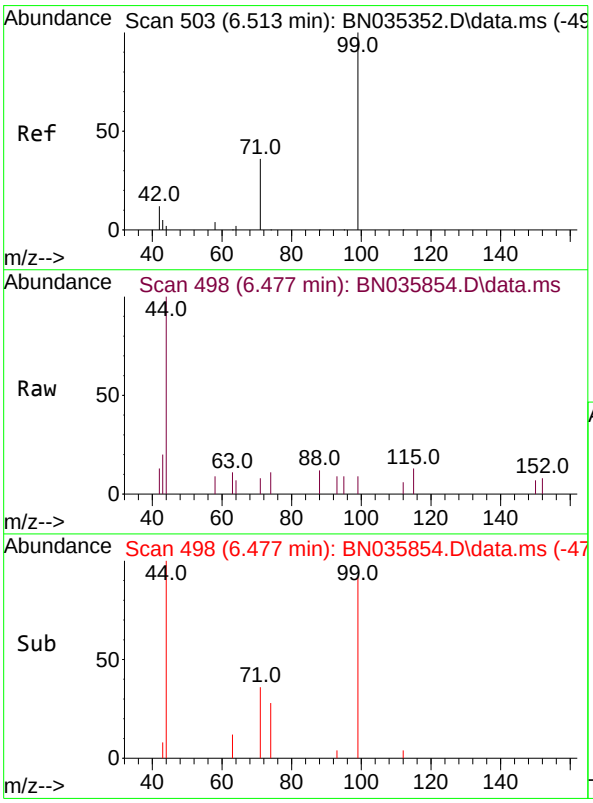

#4
2-Fluorophenol
Concen: 0.025 ng
RT: 4.924 min Scan# 2
Delta R.T. -0.015 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

**Instrument :**
BNA_N
**ClientSampleId :**
RE115D2-20241218DL

Tgt Ion:112 Resp: 170

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 53.5 | 39.8 | 59.8 |
| 63 | 31.8 | 21.0 | 31.6# |

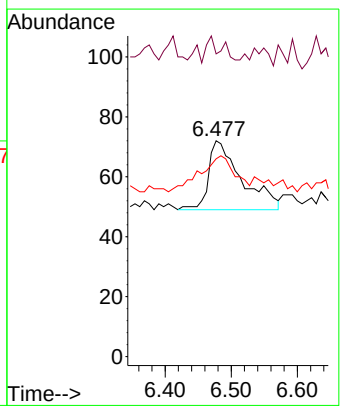


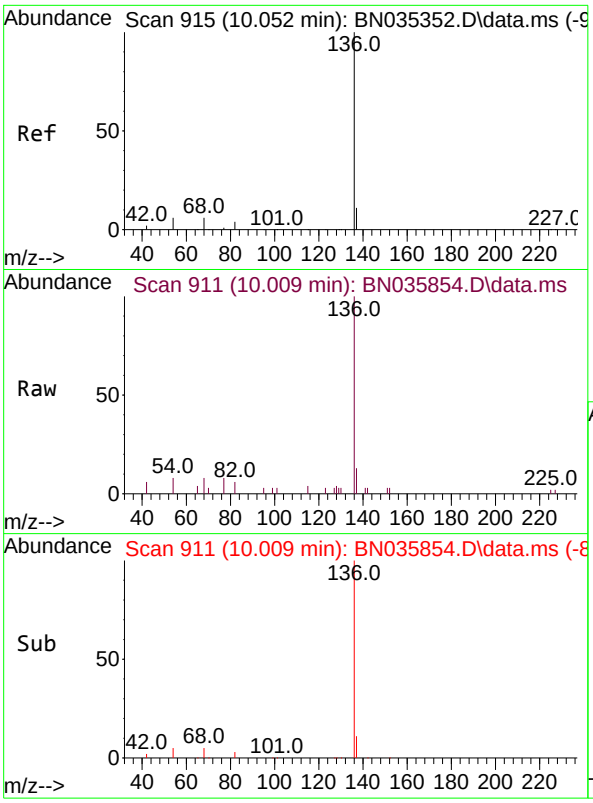




#5
Phenol-d6
Concen: 0.010 ng
RT: 6.477 min Scan# 498
Delta R.T. -0.015 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

Tgt Ion: 99 Resp: 80

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 12.5 | 11.4 | 17.2 |
| 71 | 53.8 | 29.3 | 43.9# |



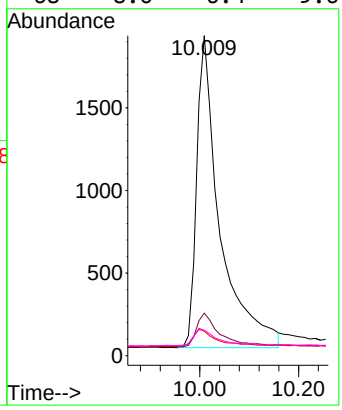


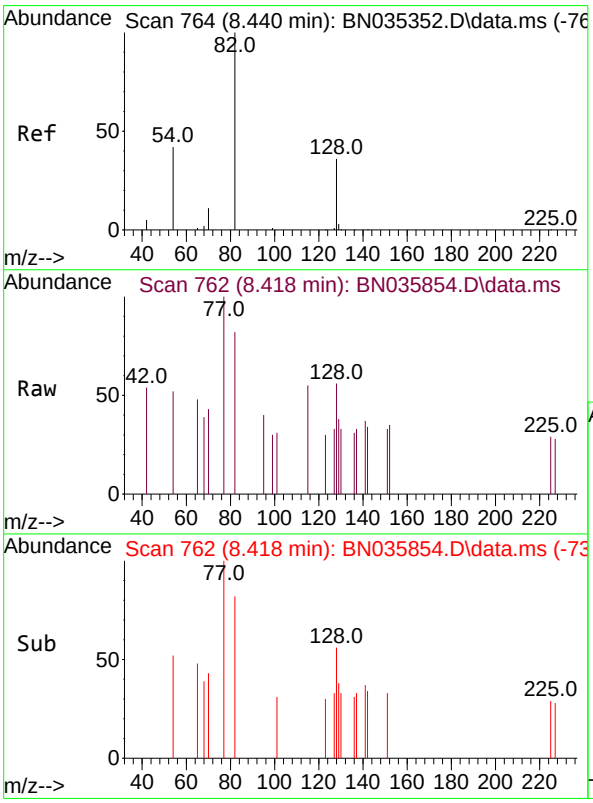

#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

**Instrument :**
BNA_N
**ClientSampleId :**
RE115D2-20241218DL

Tgt Ion:136 Resp: 6133

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 13.3 | 10.2 | 15.2 |
| 54 | 7.7 | 6.1 | 9.1 |
| 68 | 8.0 | 6.4 | 9.6 |

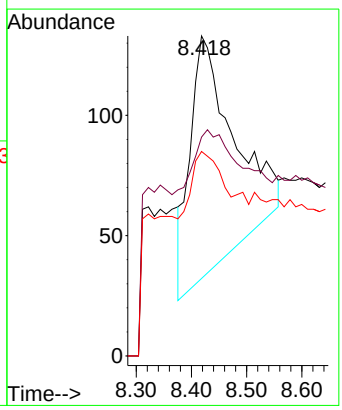


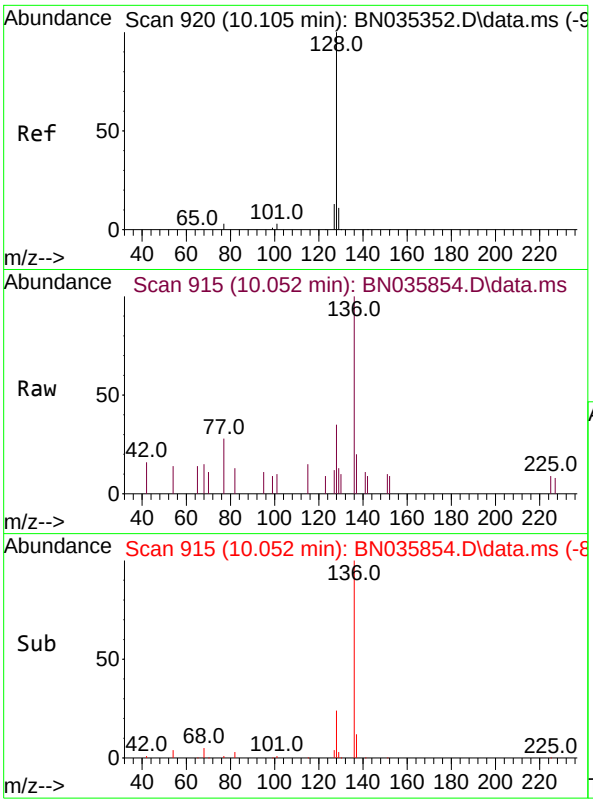




#8
Nitrobenzene-d5
Concen: 0.145 ng
RT: 8.418 min Scan# 762
Delta R.T. 0.010 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

Tgt Ion: 82 Resp: 544

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 68.4 | 33.4 | 50.0# |
| 54 | 63.9 | 36.7 | 55.1# |



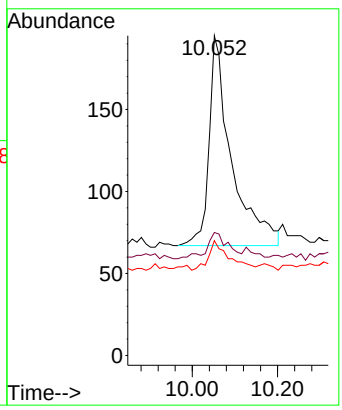


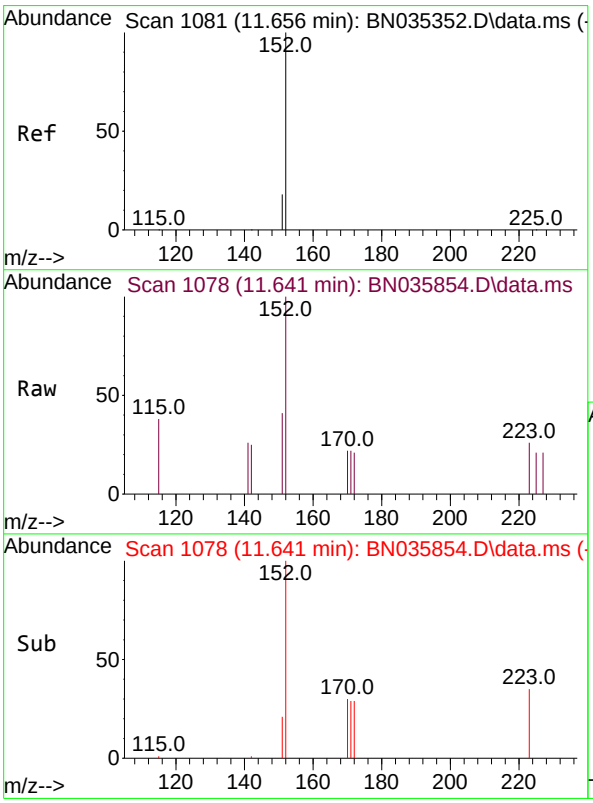

#9
Naphthalene
Concen: 0.029 ng
RT: 10.052 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

**Instrument :**
BNA_N
**ClientSampleId :**
RE115D2-20241218DL

Tgt Ion:128 Resp: 468

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 38.5 | 9.8 | 14.6# |
| 127 | 35.9 | 11.4 | 17.2# |

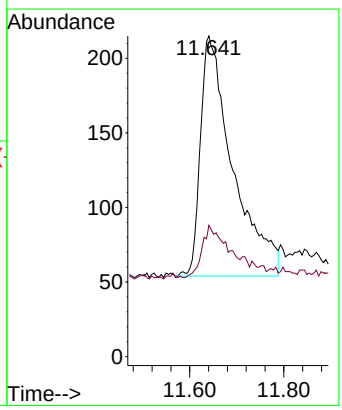


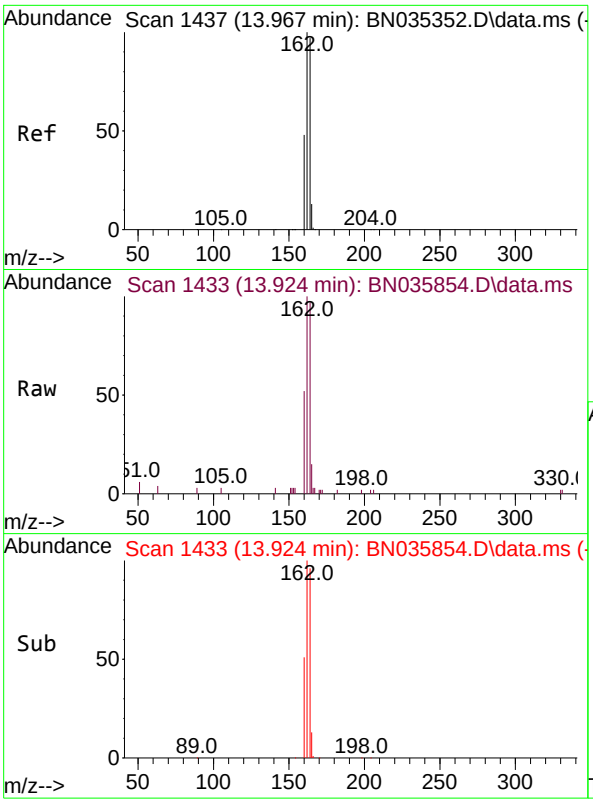




#11
2-Methylnaphthalene-d10
Concen: 0.080 ng
RT: 11.641 min Scan# 1078
Delta R.T. 0.020 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

Tgt Ion:152 Resp: 768

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 16.5 | 16.6 | 25.0# |



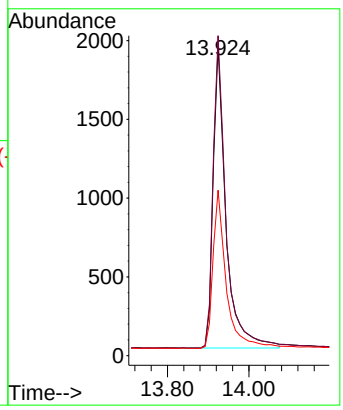


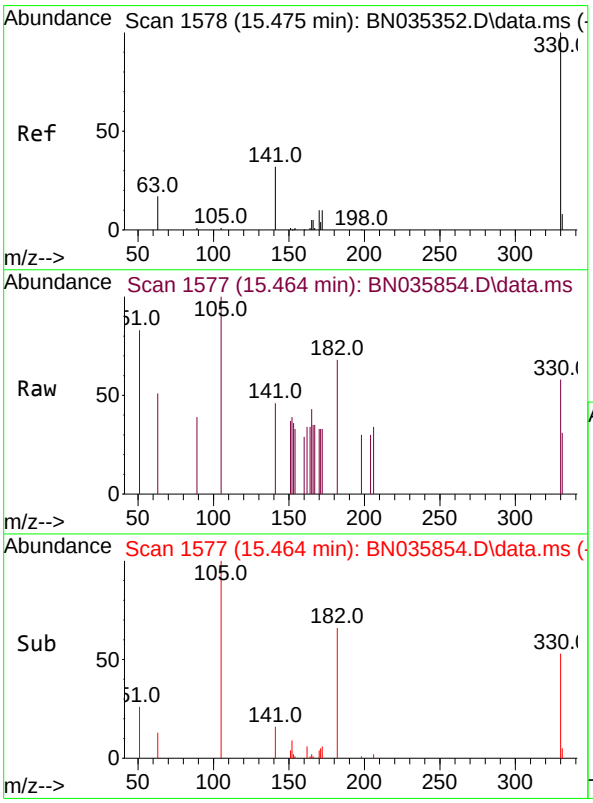

#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.924 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

**Instrument :**
BNA_N
**ClientSampleId :**
RE115D2-20241218DL

Tgt Ion:164 Resp: 4189

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 103.5 | 82.2 | 123.2 |
| 160 | 53.5 | 40.1 | 60.1 |

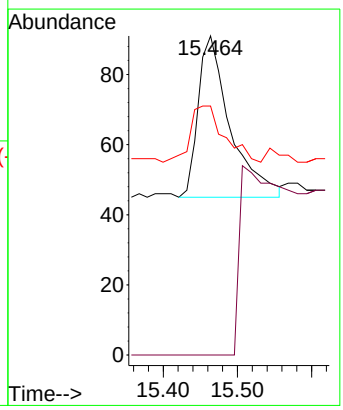


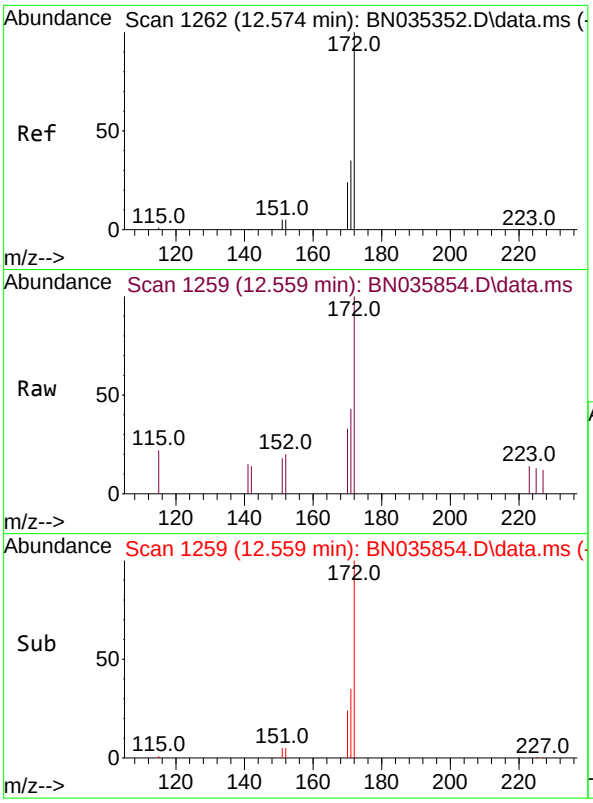




#14
2,4,6-Tribromophenol
Concen: 0.048 ng
RT: 15.464 min Scan# 1577
Delta R.T. 0.010 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

Tgt Ion:330 Resp: 143

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 0.0 | 0.0 | 0.0 |
| 141 | 38.5 | 26.6 | 40.0 |



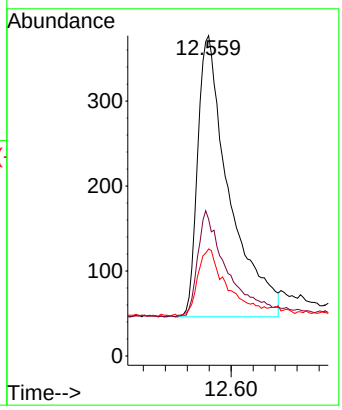


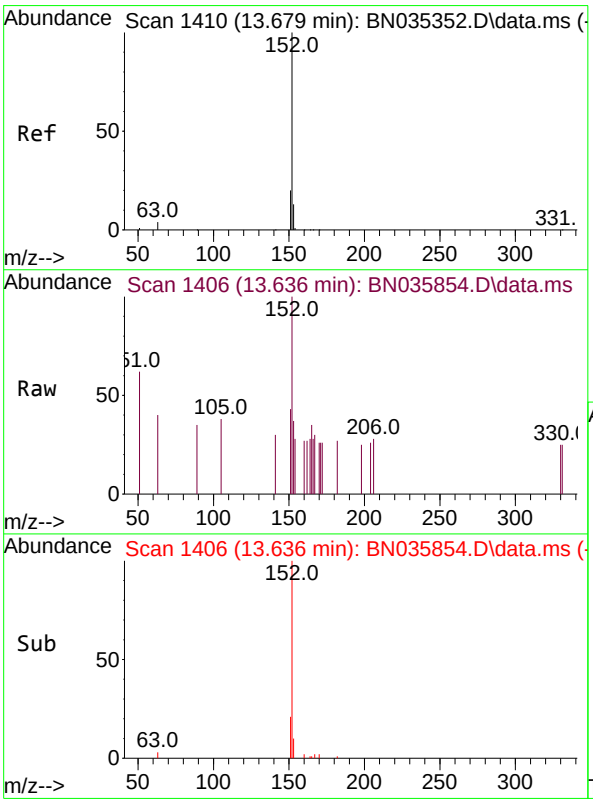

#15
2-Fluorobiphenyl
Concen: 0.083 ng
RT: 12.559 min Scan# 1
Delta R.T. 0.015 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

**Instrument :**
BNA_N
**ClientSampleId :**
RE115D2-20241218DL

Tgt Ion:172 Resp: 1316

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 42.7 | 29.0 | 43.4 |
| 170 | 33.4 | 19.8 | 29.8# |

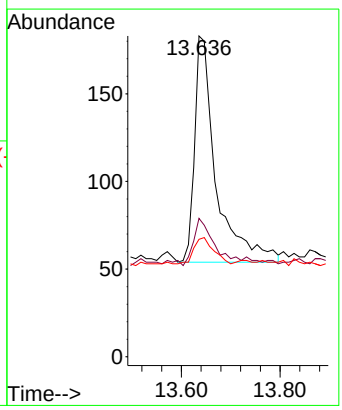


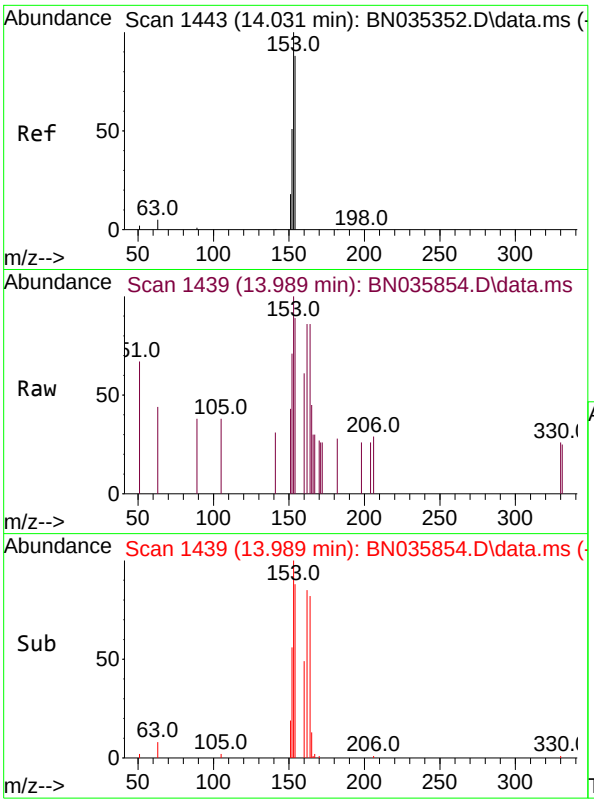




#16
Acenaphthylene
Concen: 0.022 ng
RT: 13.636 min Scan# 1406
Delta R.T. -0.011 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

Tgt Ion:152 Resp: 389

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 22.4 | 16.2 | 24.2 |
| 153 | 10.5 | 10.4 | 15.6 |



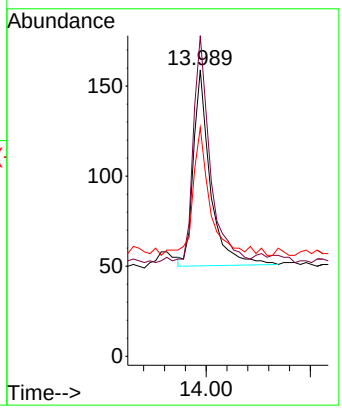


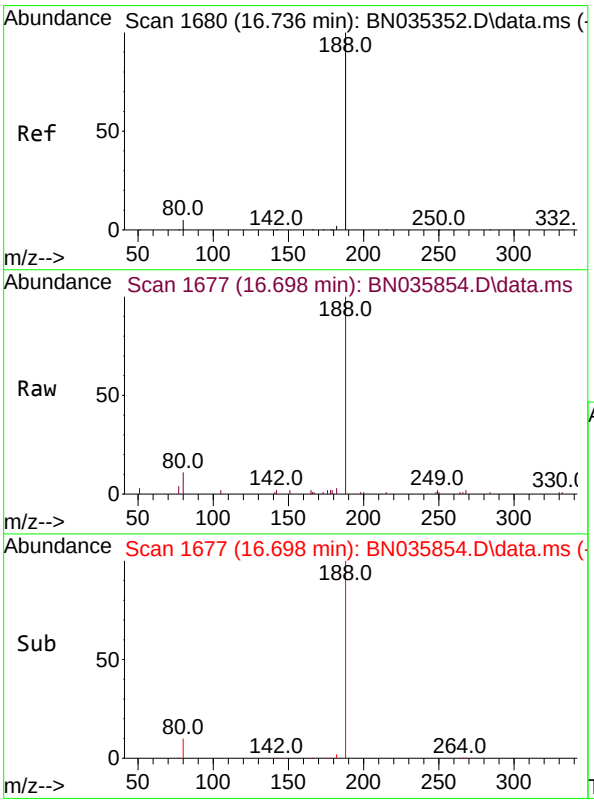

#17
Acenaphthene
Concen: 0.021 ng
RT: 13.989 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

**Instrument :**
BNA_N
**ClientSampleId :**
RE115D2-20241218DL

Tgt Ion:154 Resp: 244

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 111.9 | 92.6 | 139.0 |
| 152 | 65.2 | 49.0 | 73.6 |

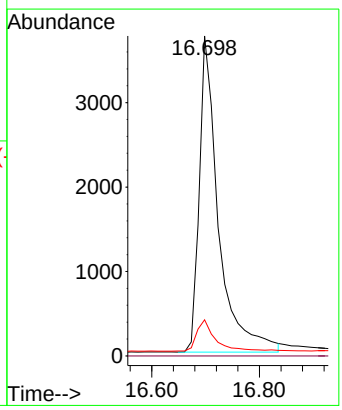


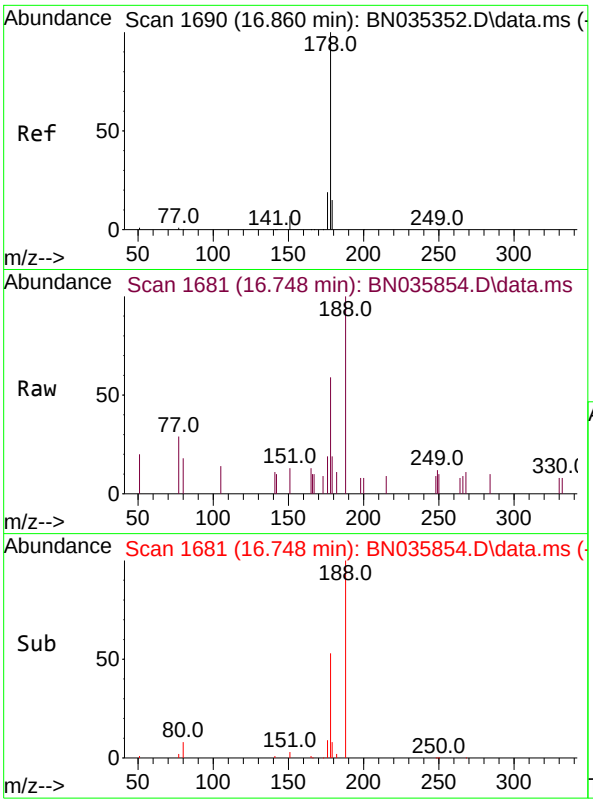




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1677
Delta R.T. -0.000 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

Tgt Ion:188 Resp: 9267

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 11.3 | 4.6 | 6.8# |



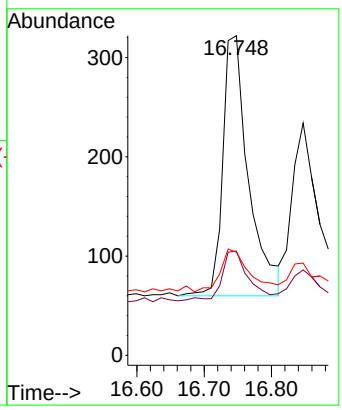


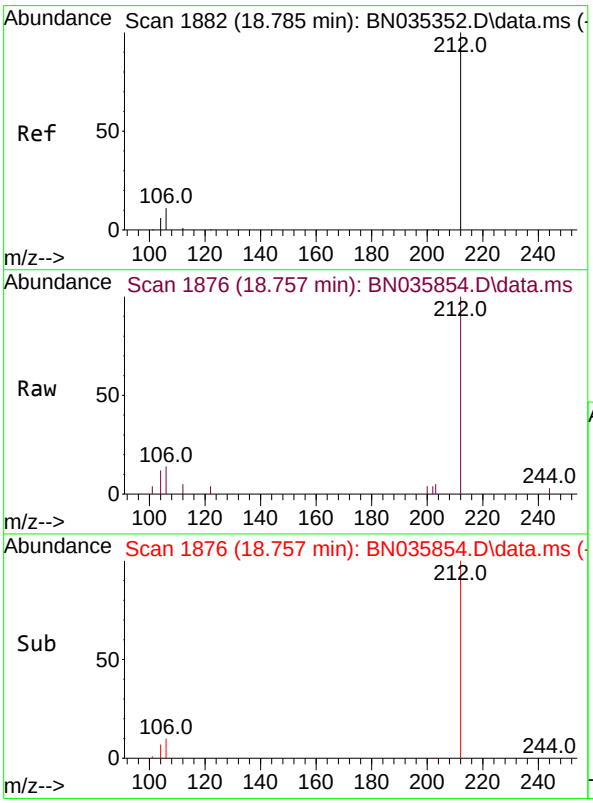

#26
Anthracene
Concen: 0.030 ng
RT: 16.748 min Scan# 1(
Delta R.T. -0.087 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

**Instrument :**
BNA_N
**ClientSampleId :**
RE115D2-20241218DL

Tgt Ion:178 Resp: 698

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.6 | 15.0 | 22.6 |
| 179 | 18.6 | 12.6 | 18.8 |

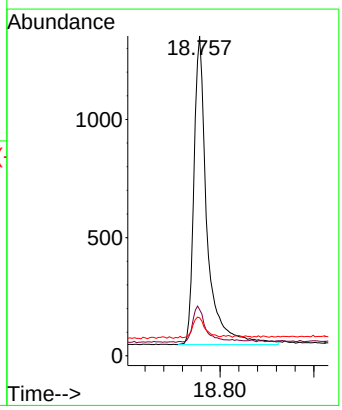


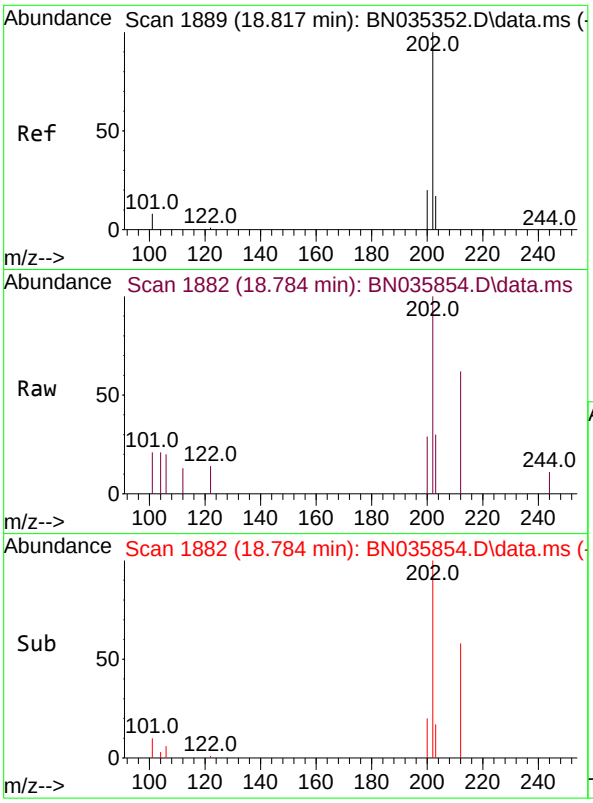




#27
Fluoranthene-d10
Concen: 0.096 ng
RT: 18.757 min Scan# 1876
Delta R.T. -0.005 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

Tgt Ion:212 Resp: 2532

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 11.8 | 9.2 | 13.8 |
| 104 | 6.4 | 5.3 | 7.9 |



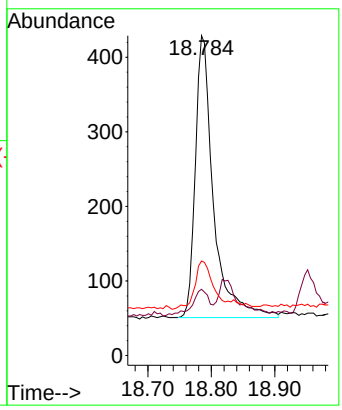


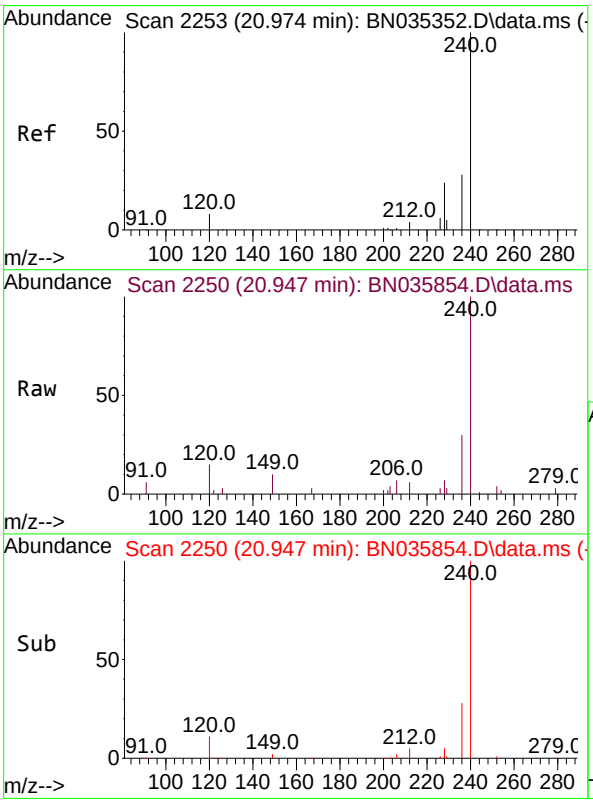

#28
Fluoranthene
Concen: 0.022 ng
RT: 18.784 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

**Instrument :**
BNA_N
**ClientSampleId :**
RE115D2-20241218DL

Tgt Ion:202 Resp: 749

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 8.4 | 7.4 | 11.0 |
| 203 | 17.1 | 13.7 | 20.5 |

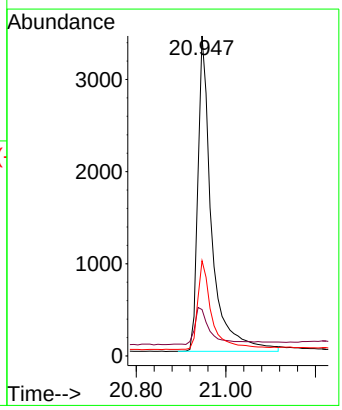


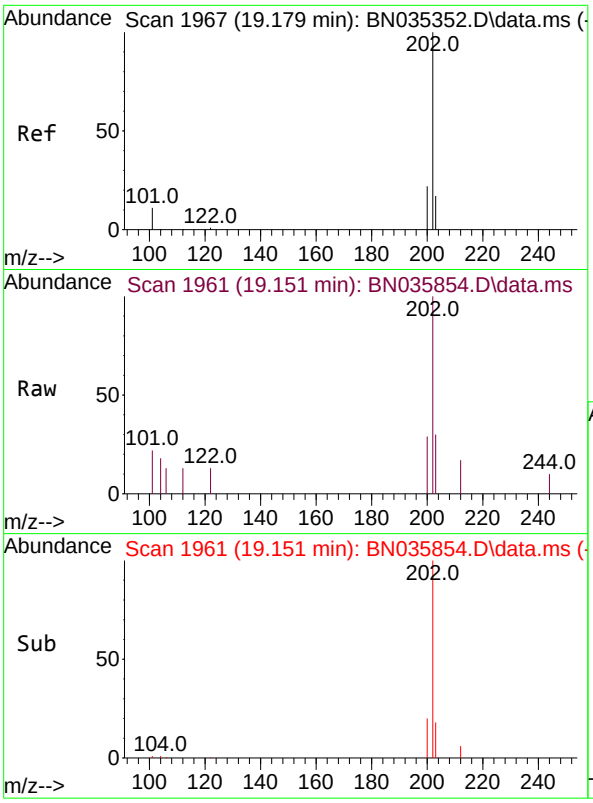




#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2250
Delta R.T. -0.009 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

Tgt Ion:240 Resp: 7345

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 14.5 | 7.9 | 11.9# |
| 236 | 29.8 | 22.9 | 34.3 |



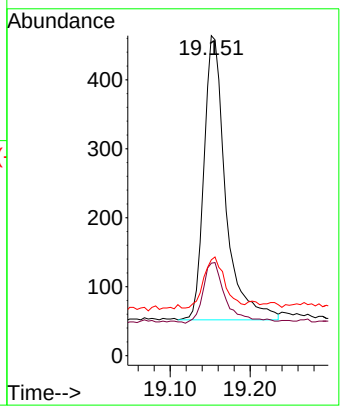


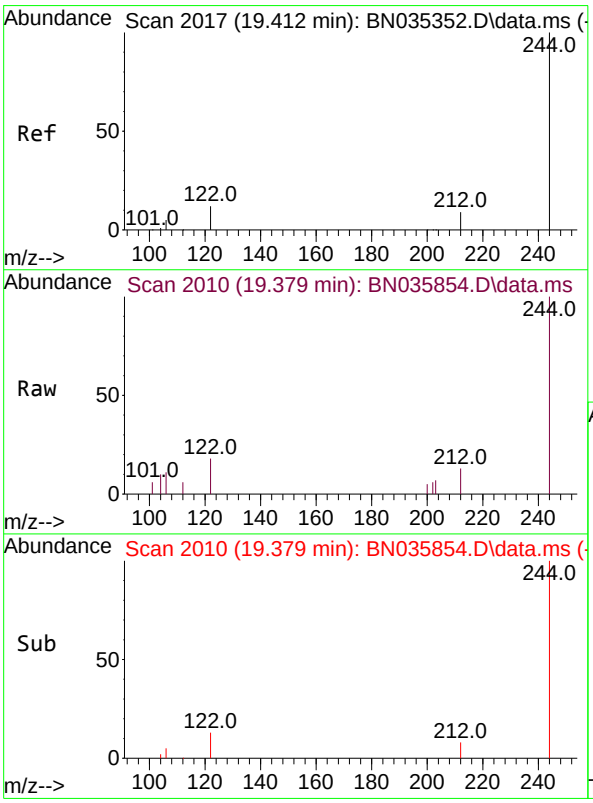

#30
Pyrene
Concen: 0.029 ng
RT: 19.151 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

**Instrument :**
BNA_N
**ClientSampleId :**
RE115D2-20241218DL

Tgt Ion:202 Resp: 773

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 22.8 | 17.0 | 25.4 |
| 203 | 17.5 | 14.3 | 21.5 |

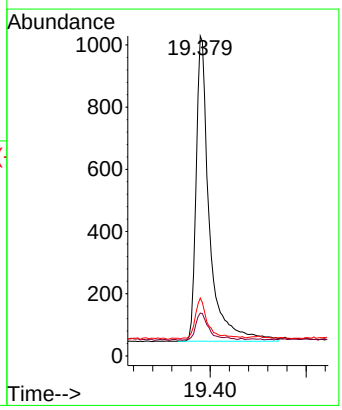


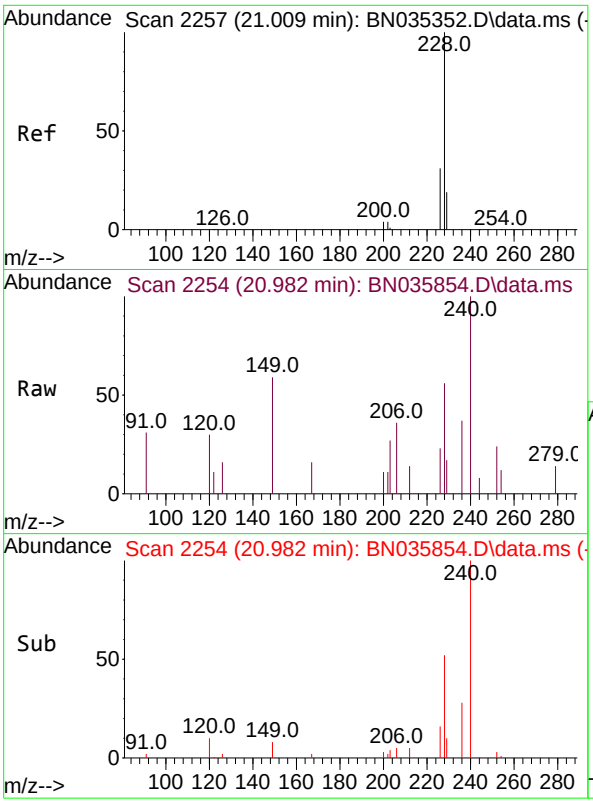




#31
Terphenyl-d14
Concen: 0.131 ng
RT: 19.379 min Scan# 2010
Delta R.T. -0.010 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

Tgt Ion:244 Resp: 1897

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 13.4 | 8.1 | 12.1# |
| 122 | 18.1 | 10.3 | 15.5# |



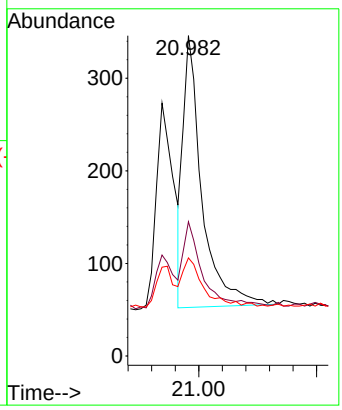


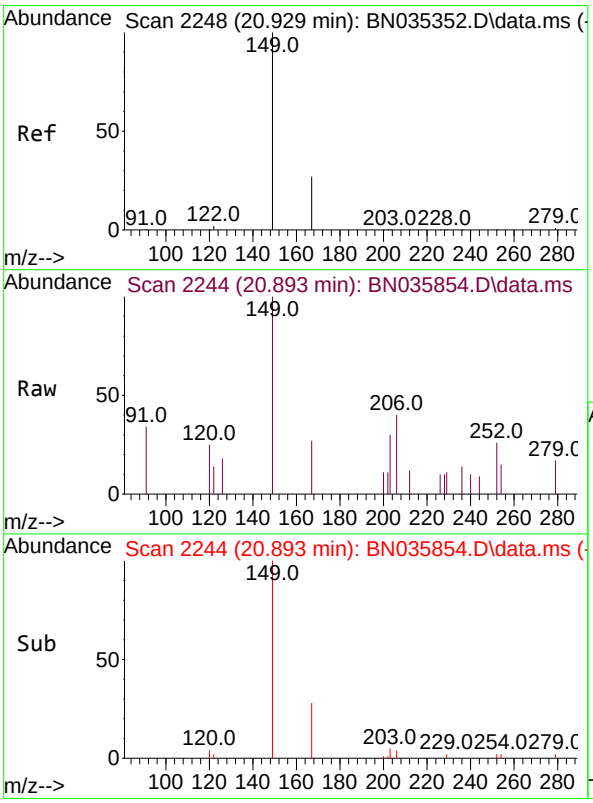

#33
Chrysene
Concen: 0.025 ng
RT: 20.982 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

**Instrument :**
BNA_N
**ClientSampleId :**
RE115D2-20241218DL

Tgt Ion:228 Resp: 652

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 41.9 | 24.6 | 37.0# |
| 229 | 30.6 | 15.9 | 23.9# |

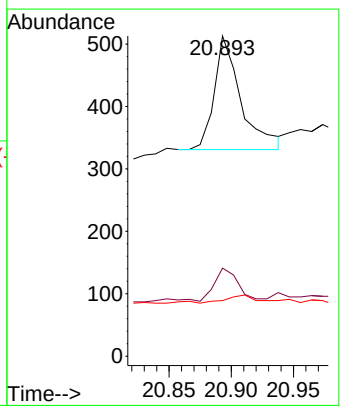


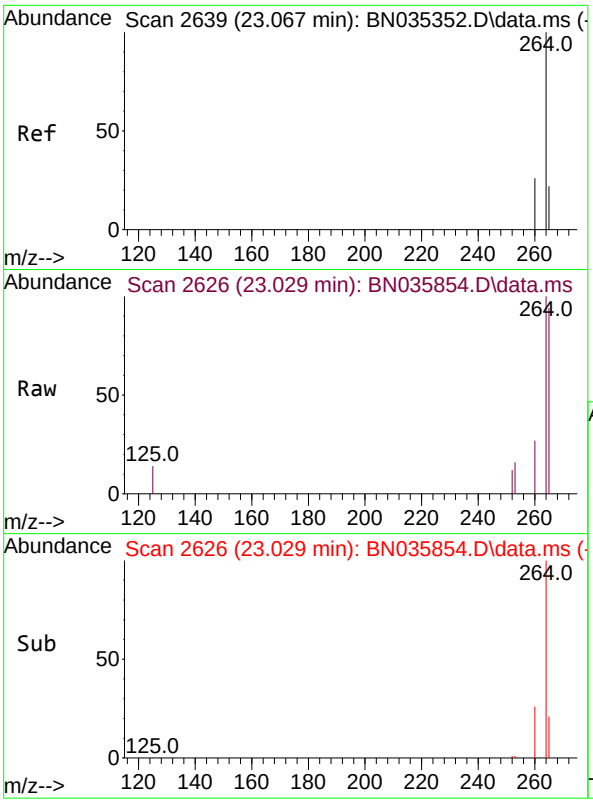




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.027 ng
RT: 20.893 min Scan# 2244
Delta R.T. -0.018 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

Tgt Ion:149 Resp: 272

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 23.2 | 22.2 | 33.4 |
| 279 | 7.4 | 2.7 | 4.1# |



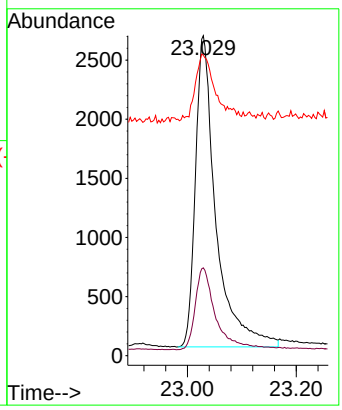


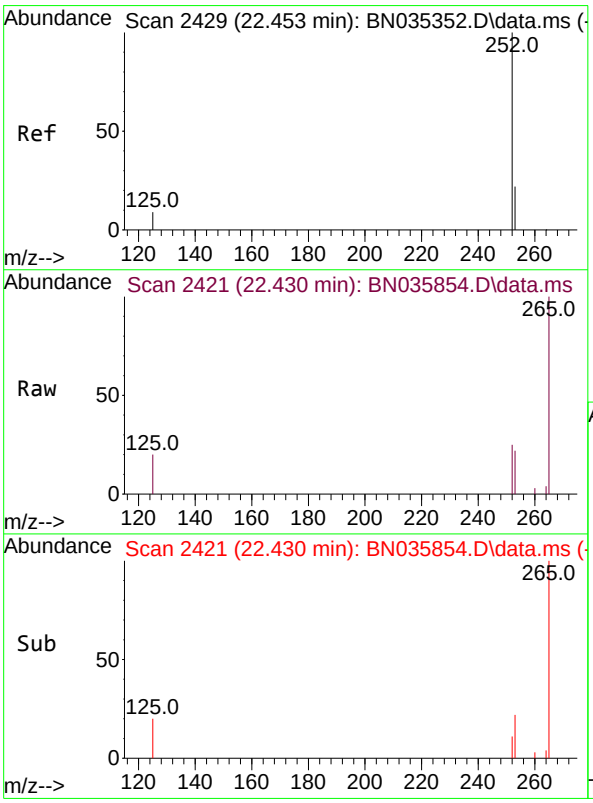

#35
Perylene-d12
Concen: 0.400 ng
RT: 23.029 min Scan# 2
Delta R.T. -0.012 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

**Instrument :**
BNA_N
**ClientSampleId :**
RE115D2-20241218DL

Tgt Ion:264 Resp: 6900

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 27.4 | 21.4 | 32.2 |
| 265 | 93.9 | 40.2 | 60.4# |

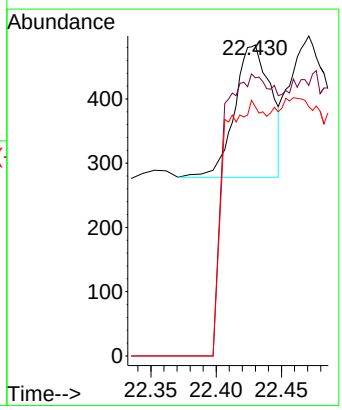



#37
Benzo(b)fluoranthene
Concen: 0.022 ng
RT: 22.430 min Scan# 2421
Delta R.T. -0.000 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

Tgt Ion:252 Resp: 554

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 89.5 | 19.6 | 29.4# |
| 125 | 80.2 | 9.6 | 14.4# |



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
Data File : BN035861.D
Acq On : 26 Dec 2024 19:41
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Quant Time: Dec 27 00:42:36 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

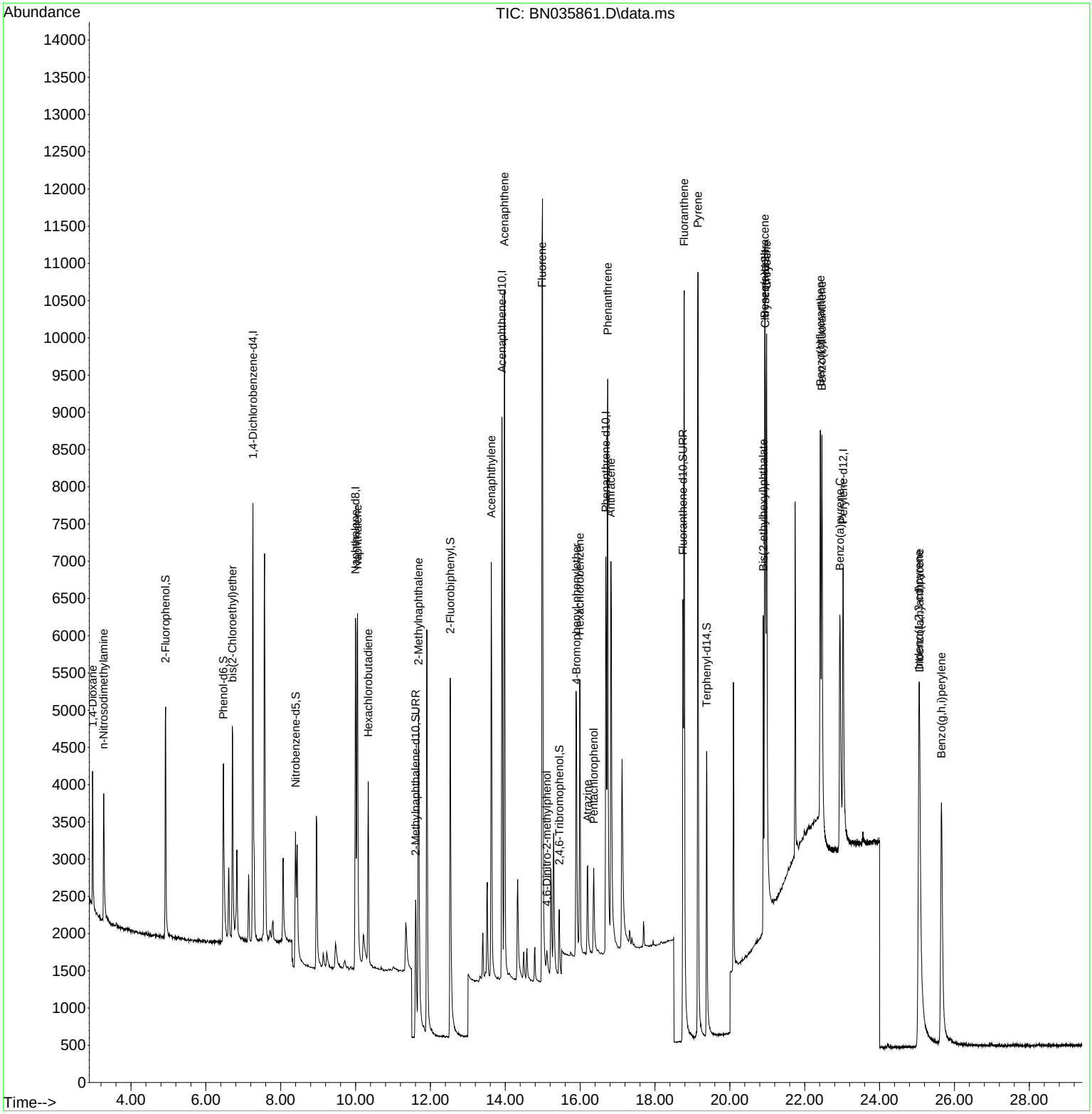
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.257 | 152 | 3087 | 0.400 | ng | | -0.01 |
| 7) Naphthalene-d8 | 9.999 | 136 | 7239 | 0.400 | ng | | -0.02 |
| 13) Acenaphthene-d10 | 13.914 | 164 | 4472 | 0.400 | ng | | -0.02 |
| 19) Phenanthrene-d10 | 16.686 | 188 | 9373 | 0.400 | ng | | #-0.01 |
| 29) Chrysene-d12 | 20.947 | 240 | 6021 | 0.400 | ng | | # 0.00 |
| 35) Perylene-d12 | 23.026 | 264 | 5699 | 0.400 | ng | | #-0.01 |
| System Monitoring Compounds | | | | | | | |
| 4) 2-Fluorophenol | 4.924 | 112 | 2874 | 0.372 | ng | | -0.01 |
| 5) Phenol-d6 | 6.470 | 99 | 3155 | 0.340 | ng | | -0.02 |
| 8) Nitrobenzene-d5 | 8.397 | 82 | 2397 | 0.542 | ng | | -0.01 |
| 11) 2-Methylnaphthalene-d10 | 11.605 | 152 | 3987 | 0.352 | ng | | -0.02 |
| 14) 2,4,6-Tribromophenol | 15.443 | 330 | 1008 | 0.318 | ng | | -0.01 |
| 15) 2-Fluorobiphenyl | 12.528 | 172 | 6619 | 0.392 | ng | | -0.02 |
| 27) Fluoranthene-d10 | 18.747 | 212 | 8643 | 0.325 | ng | | -0.01 |
| 31) Terphenyl-d14 | 19.379 | 244 | 5407 | 0.455 | ng | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 2.974 | 88 | 1215 | 0.412 | ng | | 96 |
| 3) n-Nitrosodimethylamine | 3.271 | 42 | 1021 | 0.415 | ng | # | 90 |
| 6) bis(2-Chloroethyl)ether | 6.708 | 93 | 2725 | 0.349 | ng | | 98 |
| 9) Naphthalene | 10.052 | 128 | 7516 | 0.394 | ng | | 100 |
| 10) Hexachlorobutadiene | 10.340 | 225 | 1992 | 0.452 | ng | # | 99 |
| 12) 2-Methylnaphthalene | 11.682 | 142 | 4745 | 0.347 | ng | | 99 |
| 16) Acenaphthylene | 13.625 | 152 | 6923 | 0.369 | ng | | 100 |
| 17) Acenaphthene | 13.978 | 154 | 4776 | 0.383 | ng | | 99 |
| 18) Fluorene | 14.983 | 166 | 6478 | 0.363 | ng | | 99 |
| 20) 4,6-Dinitro-2-methylph... | 15.111 | 198 | 453 | 0.492 | ng | # | 67 |
| 21) 4-Bromophenyl-phenylether | 15.904 | 248 | 2071 | 0.378 | ng | # | 96 |
| 22) Hexachlorobenzene | 15.991 | 284 | 3015 | 0.468 | ng | | 98 |
| 23) Atrazine | 16.202 | 200 | 1507 | 0.386 | ng | | 94 |
| 24) Pentachlorophenol | 16.363 | 266 | 846 | 0.302 | ng | # | 84 |
| 25) Phenanthrene | 16.736 | 178 | 9697 | 0.377 | ng | | 100 |
| 26) Anthracene | 16.822 | 178 | 8100 | 0.348 | ng | | 99 |
| 28) Fluoranthene | 18.780 | 202 | 11145 | 0.321 | ng | | 99 |
| 30) Pyrene | 19.147 | 202 | 11492 | 0.517 | ng | | 99 |
| 32) Benzo(a)anthracene | 20.929 | 228 | 6901 | 0.328 | ng | | 99 |
| 33) Chrysene | 20.983 | 228 | 9578 | 0.441 | ng | | 99 |
| 34) Bis(2-ethylhexyl)phtha... | 20.893 | 149 | 4069 | 0.489 | ng | | 99 |
| 36) Indeno(1,2,3-cd)pyrene | 25.050 | 276 | 9030 | 0.405 | ng | | 98 |
| 37) Benzo(b)fluoranthene | 22.418 | 252 | 11803 | 0.566 | ng | # | 92 |
| 38) Benzo(k)fluoranthene | 22.459 | 252 | 9638 | 0.470 | ng | # | 90 |
| 39) Benzo(a)pyrene | 22.939 | 252 | 6641 | 0.387 | ng | # | 82 |
| 40) Dibenzo(a,h)anthracene | 25.070 | 278 | 6633 | 0.377 | ng | # | 91 |
| 41) Benzo(g,h,i)perylene | 25.652 | 276 | 8300 | 0.452 | ng | | 95 |

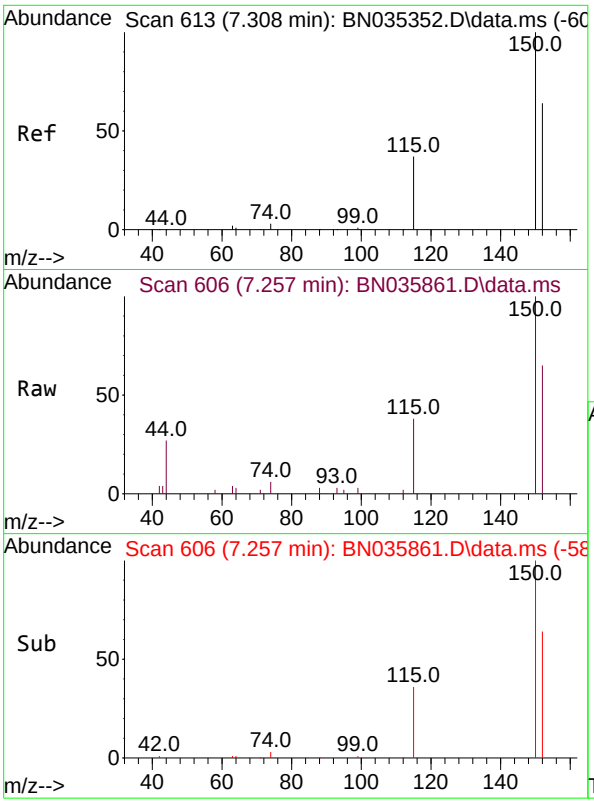
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
Data File : BN035861.D
Acq On : 26 Dec 2024 19:41
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Quant Time: Dec 27 00:42:36 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



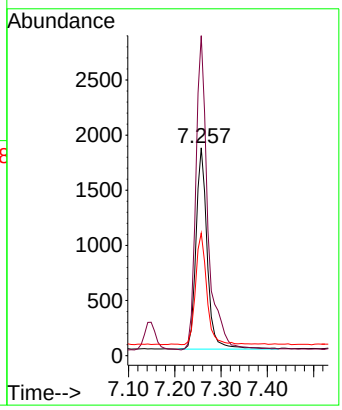


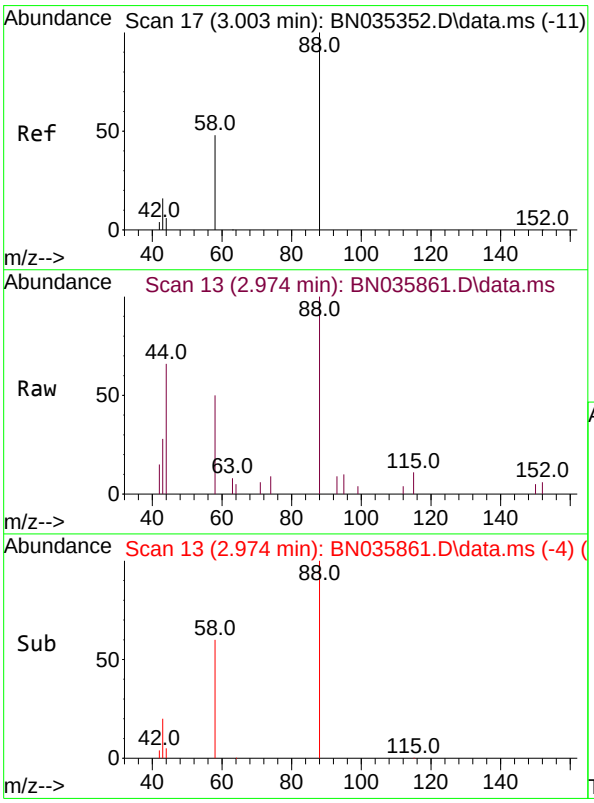

#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 6
Delta R.T. -0.015 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:152 Resp: 3087

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 154.0 | 124.0 | 186.0 |
| 115 | 58.9 | 49.6 | 74.4 |

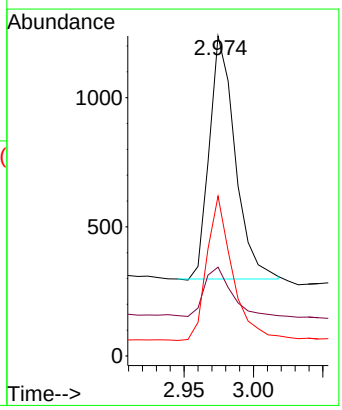


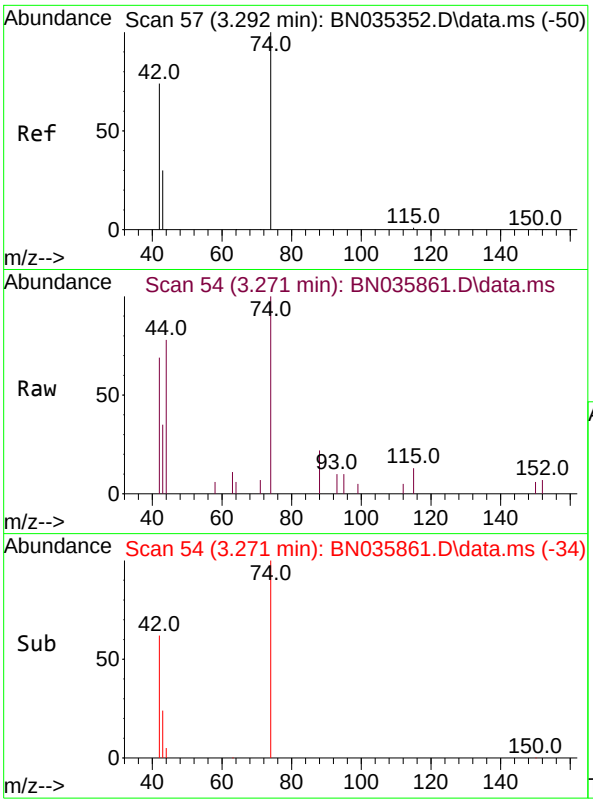




#2
1,4-Dioxane
Concen: 0.412 ng
RT: 2.974 min Scan# 13
Delta R.T. -0.008 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion: 88 Resp: 1215

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 20.1 | 17.2 | 25.8 |
| 58 | 59.1 | 44.5 | 66.7 |



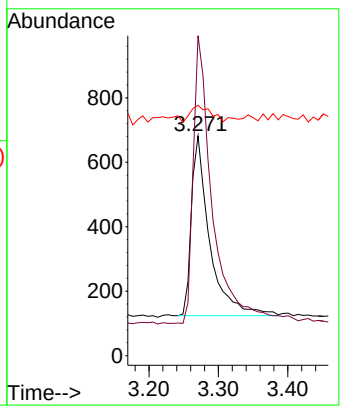


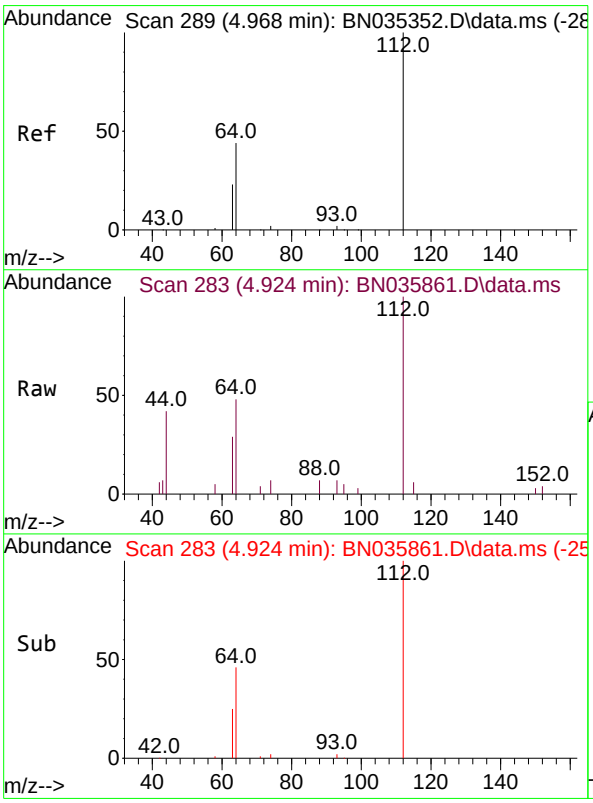

#3
n-Nitrosodimethylamine
Concen: 0.415 ng
RT: 3.271 min Scan# 54
Delta R.T. -0.007 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion: 42 Resp: 1021

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 169.1 | 124.9 | 187.3 |
| 44 | 10.6 | 2.2 | 3.4# |

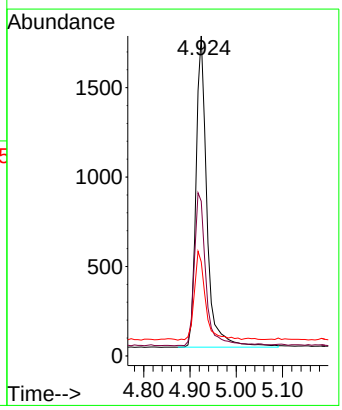


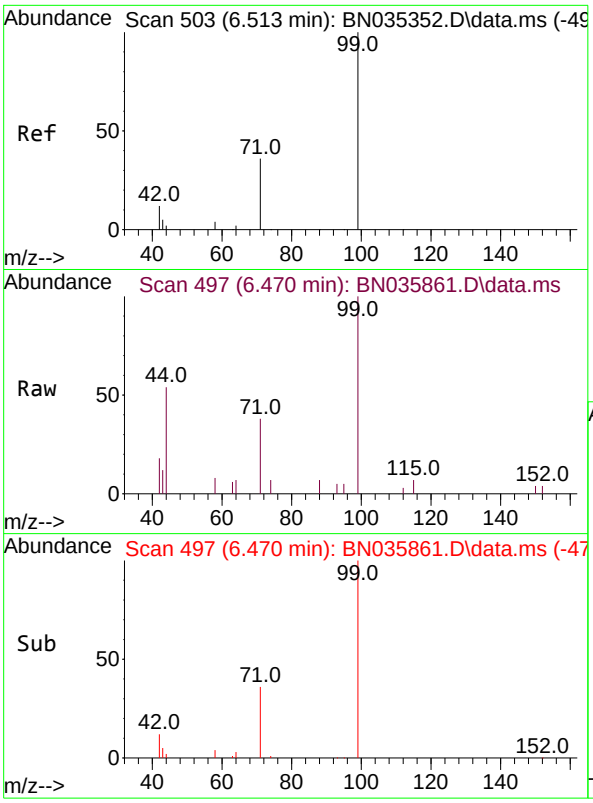




#4
2-Fluorophenol
Concen: 0.372 ng
RT: 4.924 min Scan# 283
Delta R.T. -0.015 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:112 Resp: 2874

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 51.6 | 39.8 | 59.8 |
| 63 | 28.9 | 21.0 | 31.6 |



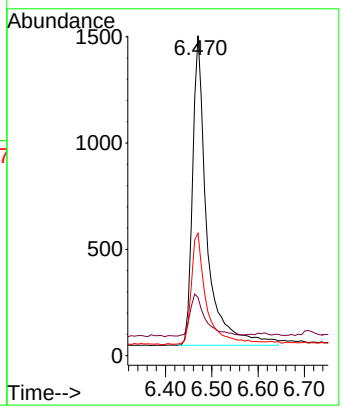


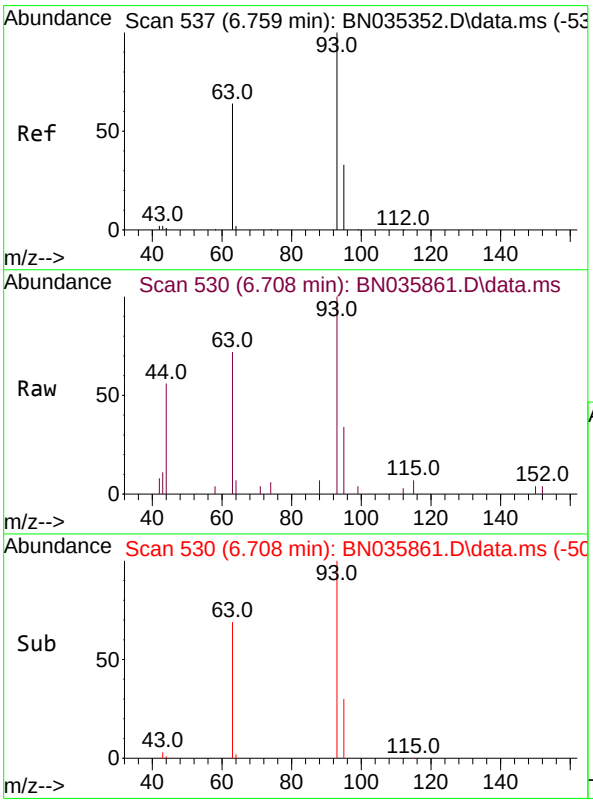

#5
Phenol-d6
Concen: 0.340 ng
RT: 6.470 min Scan# 4
Delta R.T. -0.022 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion: 99 Resp: 3155

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 14.5 | 11.4 | 17.2 |
| 71 | 37.3 | 29.3 | 43.9 |

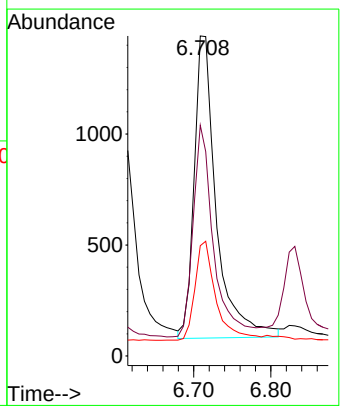


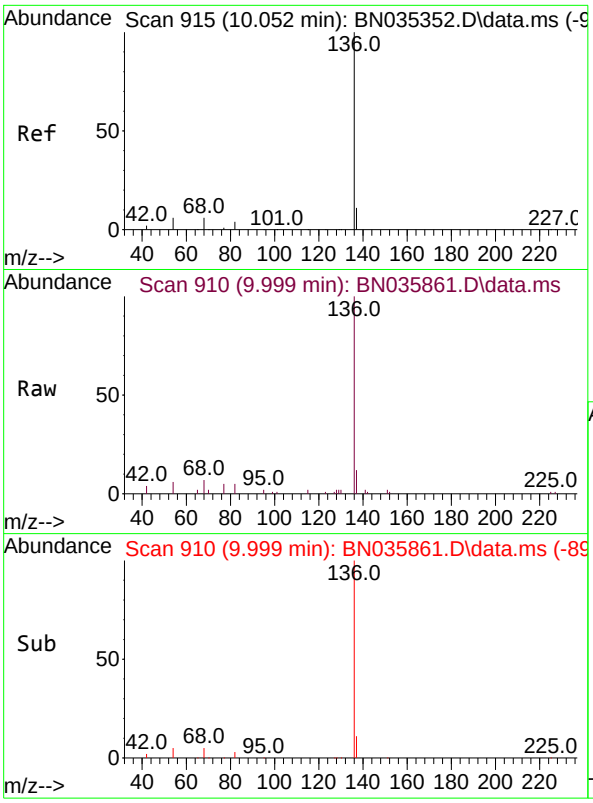




#6
bis(2-Chloroethyl)ether
Concen: 0.349 ng
RT: 6.708 min Scan# 530
Delta R.T. -0.022 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion: 93 Resp: 2725

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 64.1 | 50.4 | 75.6 |
| 95 | 31.0 | 25.7 | 38.5 |



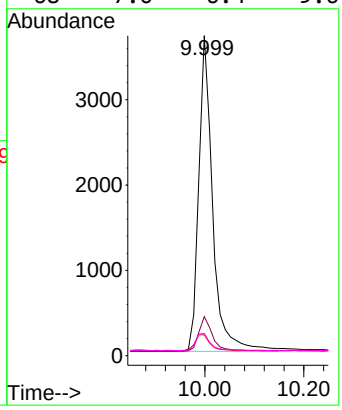


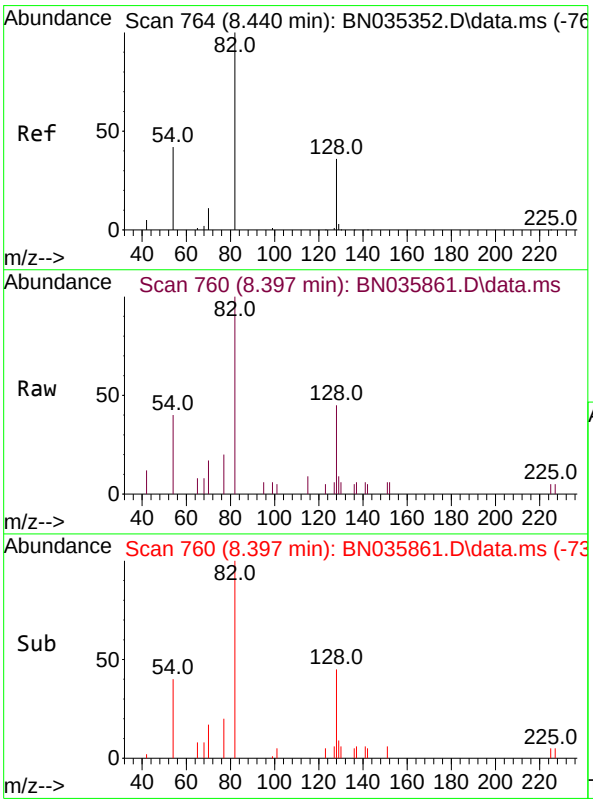

#7
Naphthalene-d8
Concen: 0.400 ng
RT: 9.999 min Scan# 91
Delta R.T. -0.021 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:136 Resp: 7239

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 12.2 | 10.2 | 15.2 |
| 54 | 6.5 | 6.1 | 9.1 |
| 68 | 7.0 | 6.4 | 9.6 |

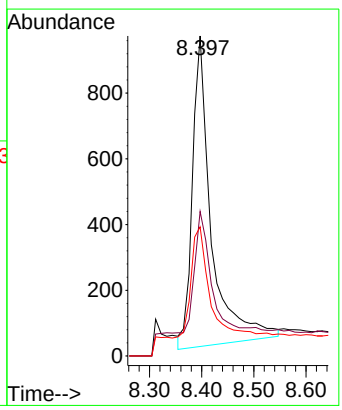


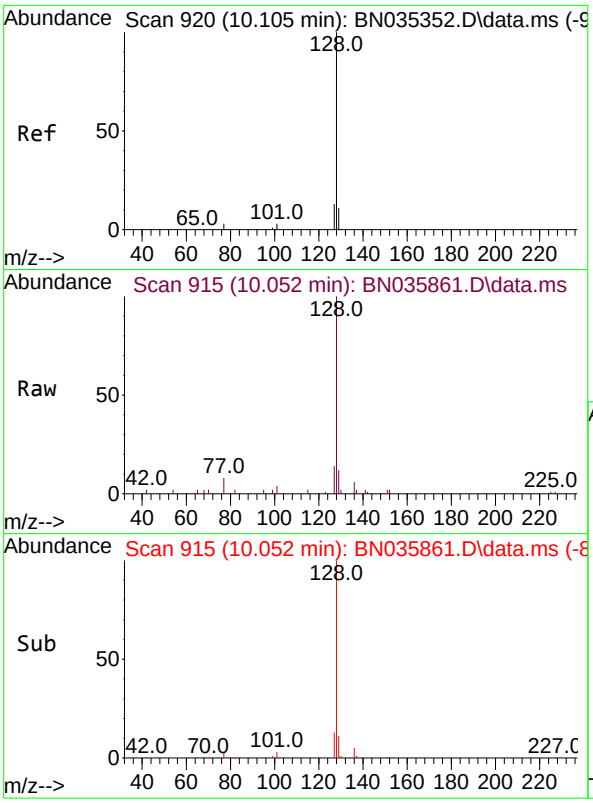




#8
Nitrobenzene-d5
Concen: 0.542 ng
RT: 8.397 min Scan# 760
Delta R.T. -0.011 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion: 82 Resp: 2397

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 45.2 | 33.4 | 50.0 |
| 54 | 40.3 | 36.7 | 55.1 |



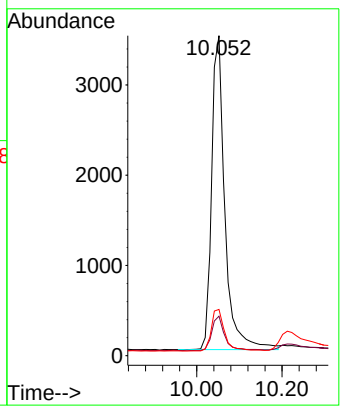


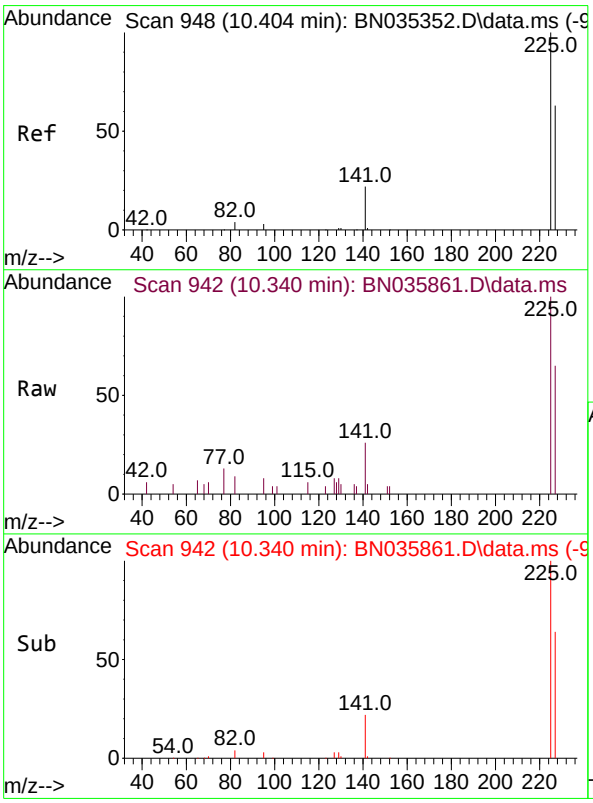

#9
Naphthalene
Concen: 0.394 ng
RT: 10.052 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:128 Resp: 7516

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 12.4 | 9.8 | 14.6 |
| 127 | 14.5 | 11.4 | 17.2 |

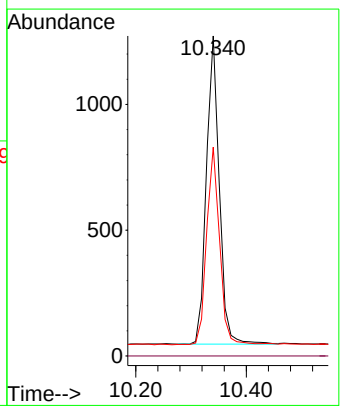


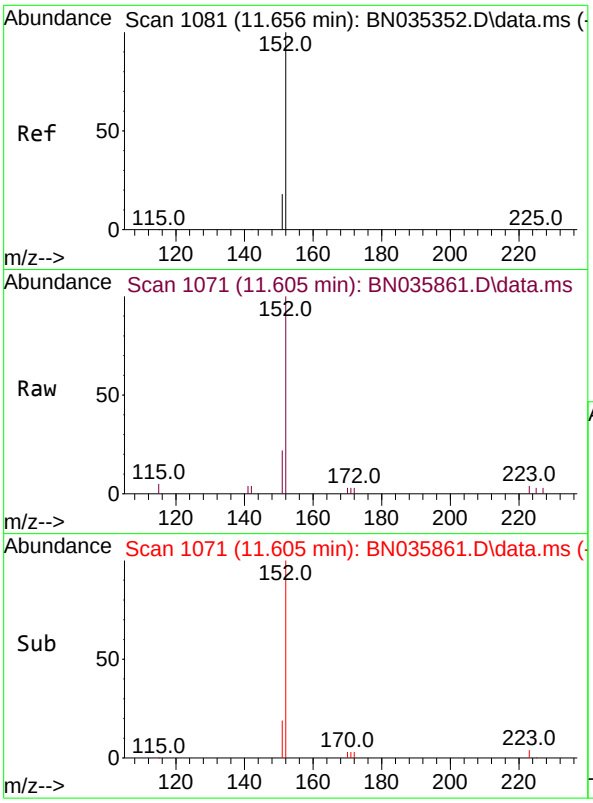




#10
Hexachlorobutadiene
Concen: 0.452 ng
RT: 10.340 min Scan# 942
Delta R.T. -0.021 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:225 Resp: 1992

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 0.0 | 0.0 | 0.0 |
| 227 | 64.7 | 51.3 | 76.9 |



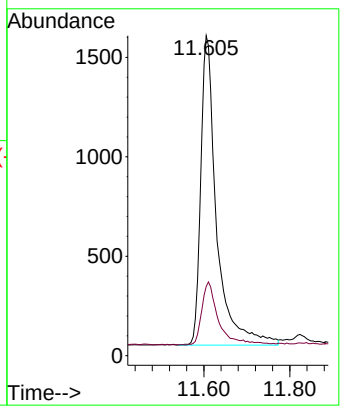


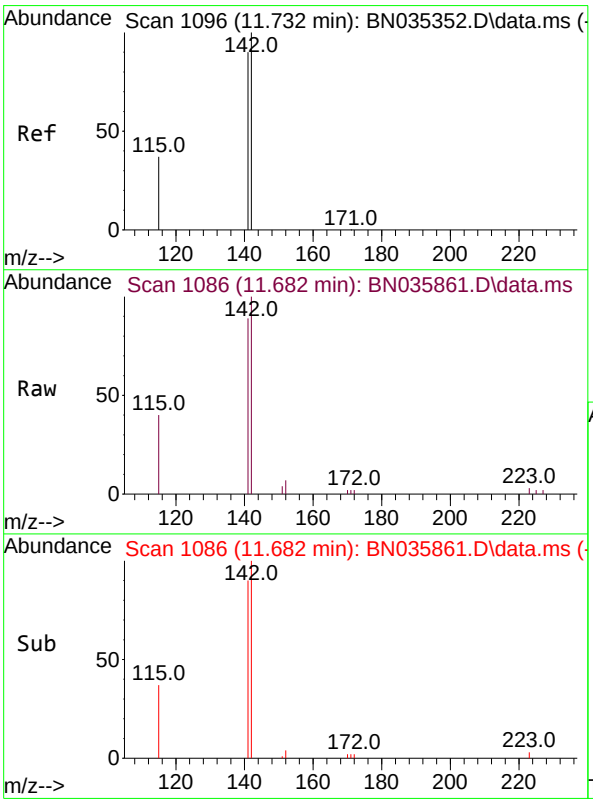

#11
2-Methylnaphthalene-d10
Concen: 0.352 ng
RT: 11.605 min Scan# 1
Delta R.T. -0.015 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:152 Resp: 3987

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 21.5 | 16.6 | 25.0 |

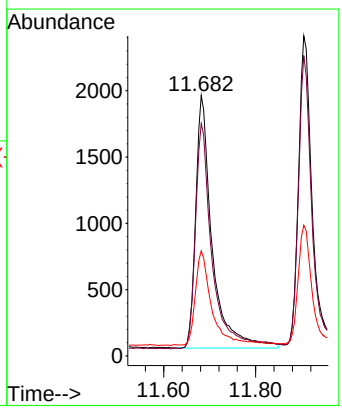


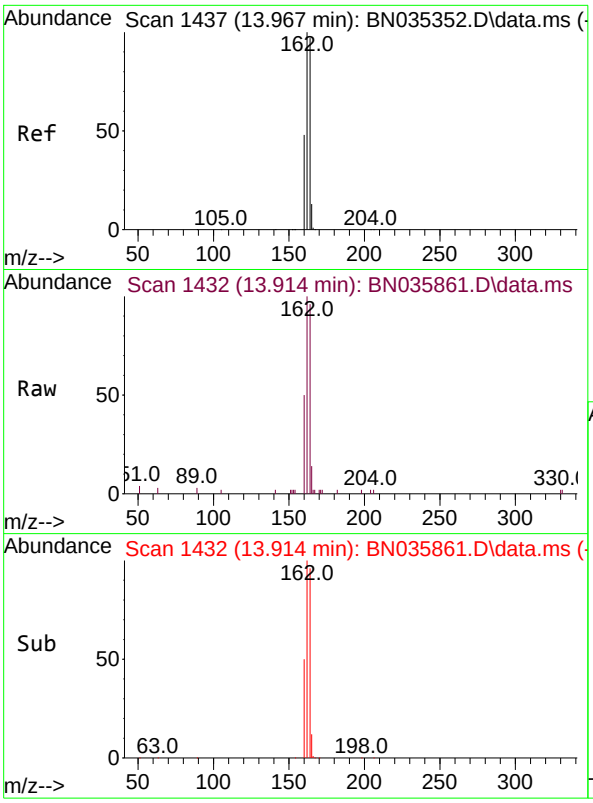




#12
2-Methylnaphthalene
Concen: 0.347 ng
RT: 11.682 min Scan# 1086
Delta R.T. -0.015 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:142 Resp: 4745

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 89.2 | 72.2 | 108.4 |
| 115 | 40.4 | 31.4 | 47.0 |



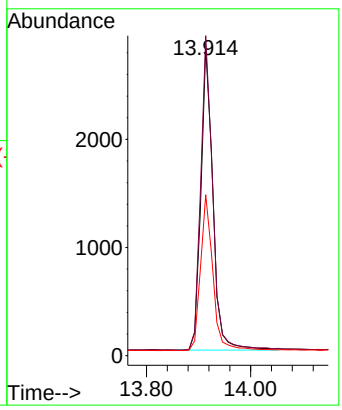


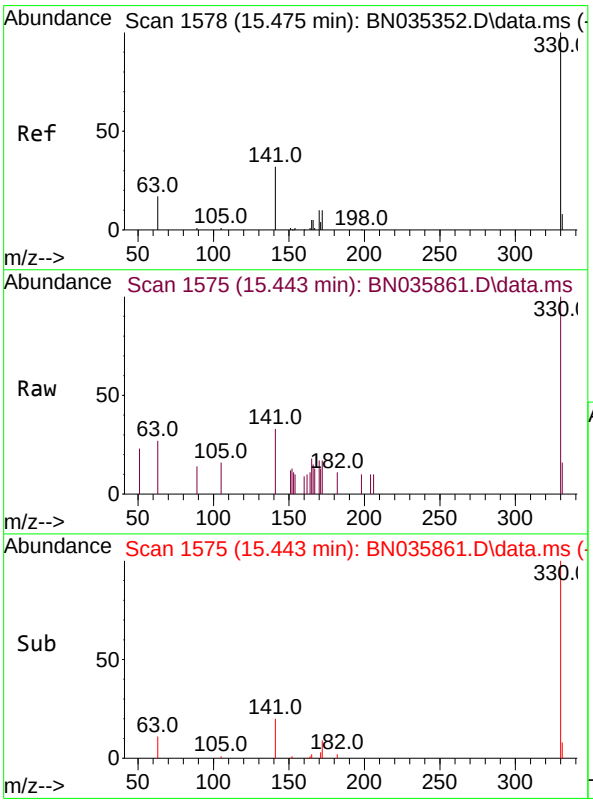

#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.914 min Scan# 14
Delta R.T. -0.021 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:164 Resp: 4472

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 104.0 | 82.2 | 123.2 |
| 160 | 52.3 | 40.1 | 60.1 |

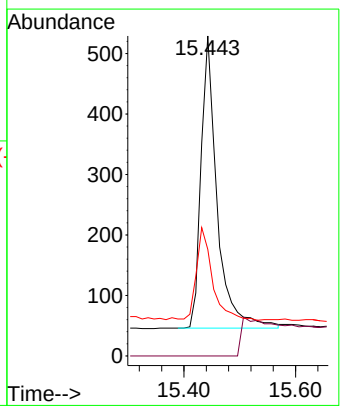


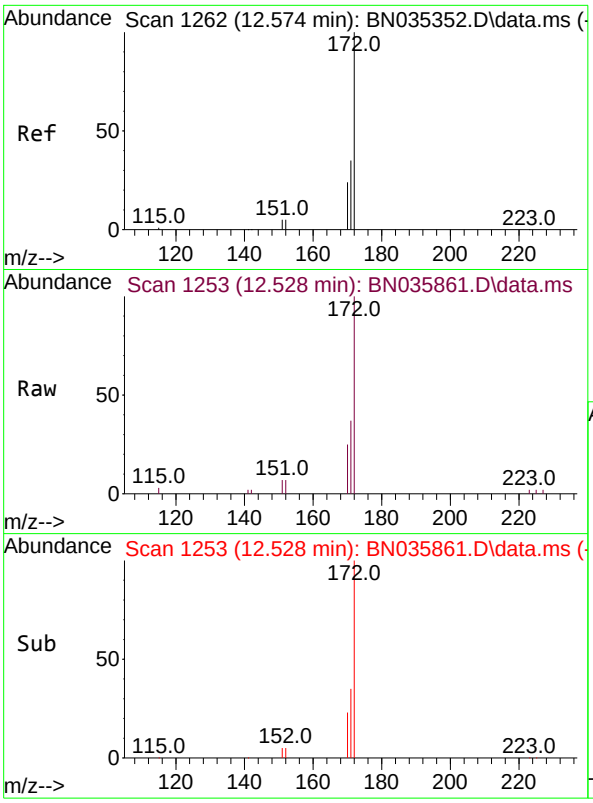




#14
2,4,6-Tribromophenol
Concen: 0.318 ng
RT: 15.443 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:330 Resp: 1008

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 0.0 | 0.0 | 0.0 |
| 141 | 30.5 | 26.6 | 40.0 |



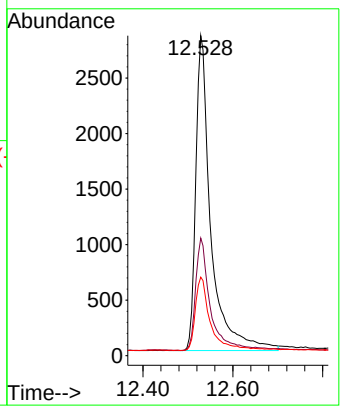


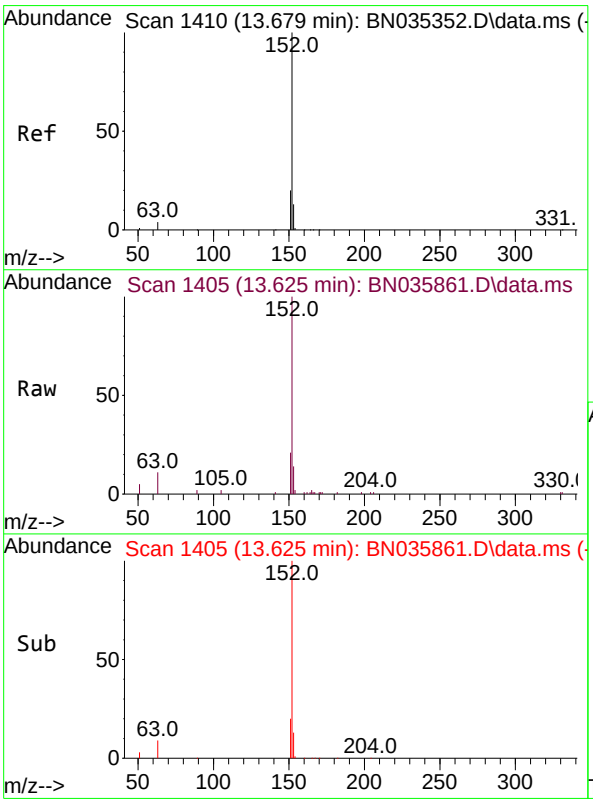

#15
2-Fluorobiphenyl
Concen: 0.392 ng
RT: 12.528 min Scan# 1
Delta R.T. -0.015 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:172 Resp: 6619

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 36.8 | 29.0 | 43.4 |
| 170 | 24.5 | 19.8 | 29.8 |

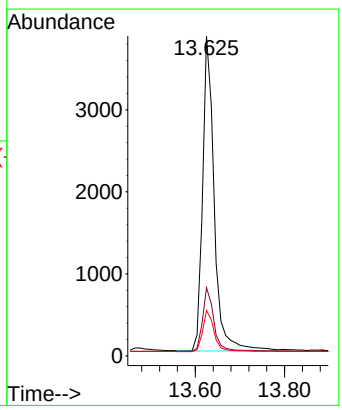


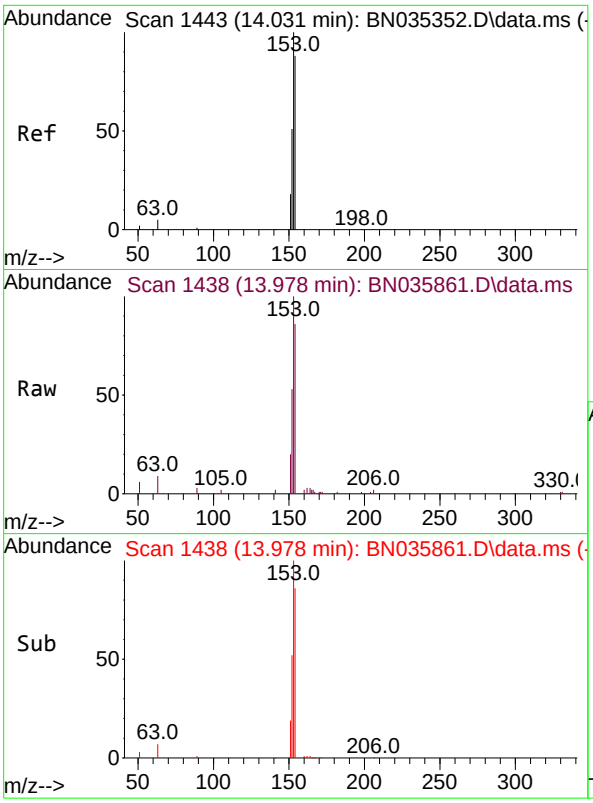




#16
Acenaphthylene
Concen: 0.369 ng
RT: 13.625 min Scan# 1405
Delta R.T. -0.021 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:152 Resp: 6923

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.1 | 16.2 | 24.2 |
| 153 | 13.0 | 10.4 | 15.6 |



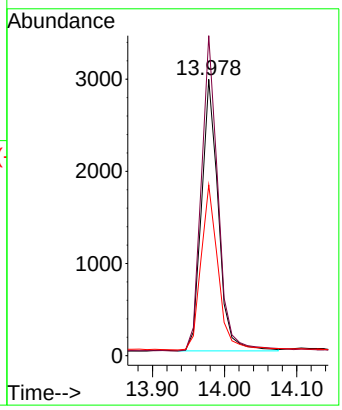


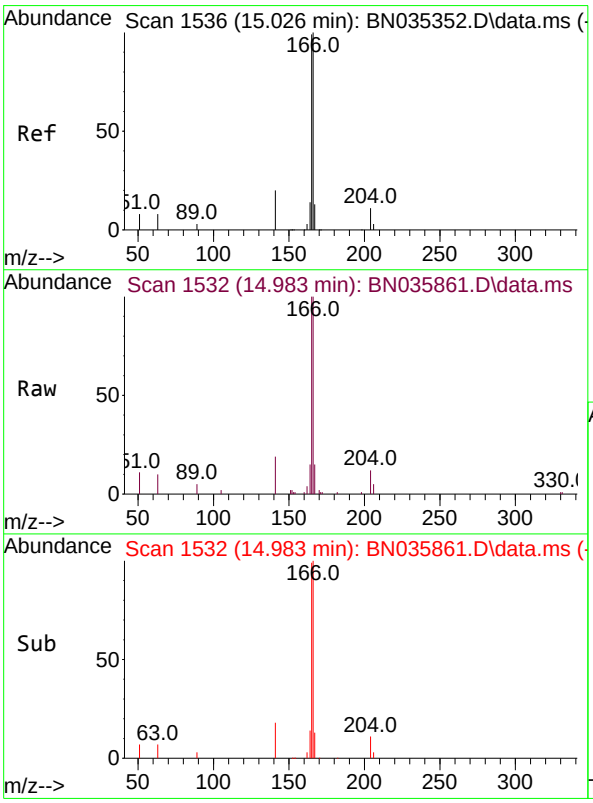

#17
Acenaphthene
Concen: 0.383 ng
RT: 13.978 min Scan# 14
Delta R.T. -0.021 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:154 Resp: 4776

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 116.3 | 92.6 | 139.0 |
| 152 | 62.6 | 49.0 | 73.6 |

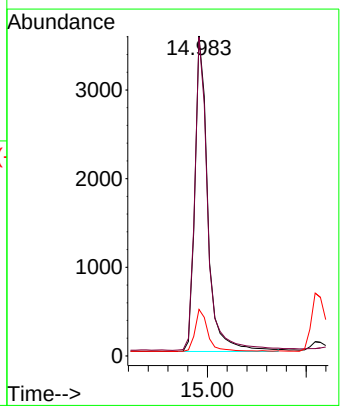


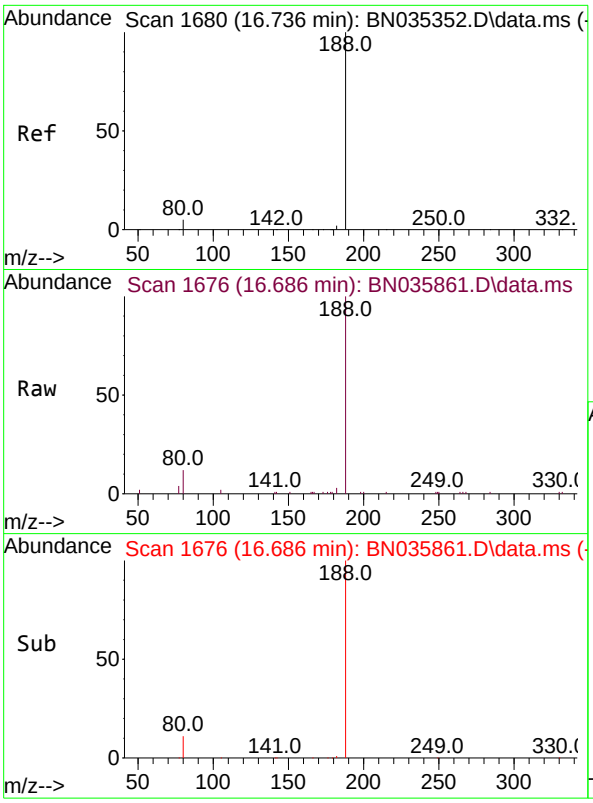




#18
Fluorene
Concen: 0.363 ng
RT: 14.983 min Scan# 1532
Delta R.T. -0.021 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:166 Resp: 6478

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 98.7 | 79.7 | 119.5 |
| 167 | 13.6 | 10.8 | 16.2 |



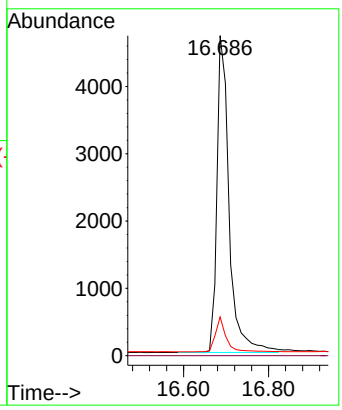


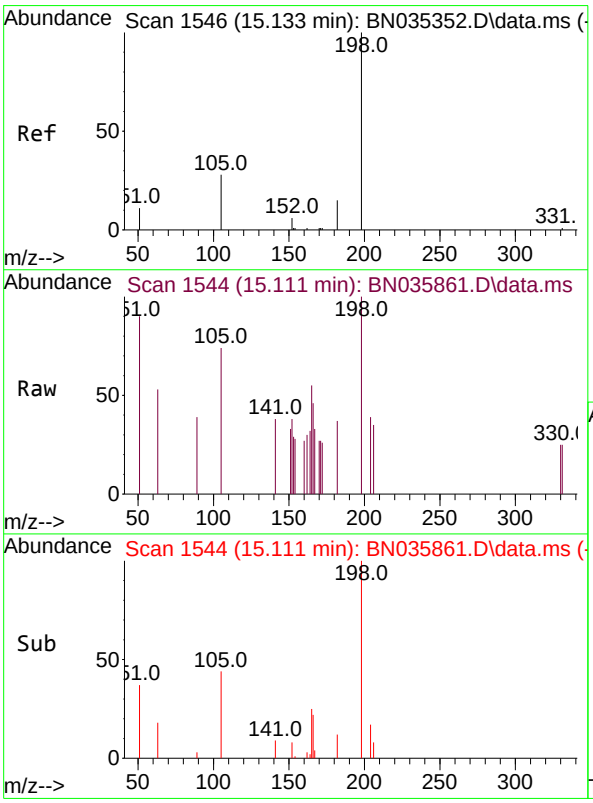

#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.686 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:188 Resp: 9373

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 12.1 | 4.6 | 6.8# |

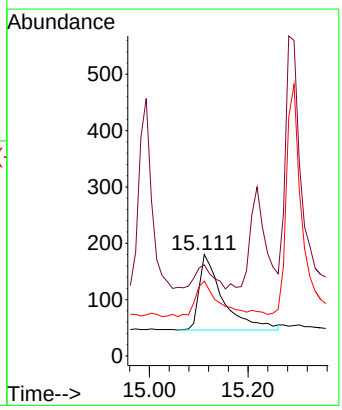


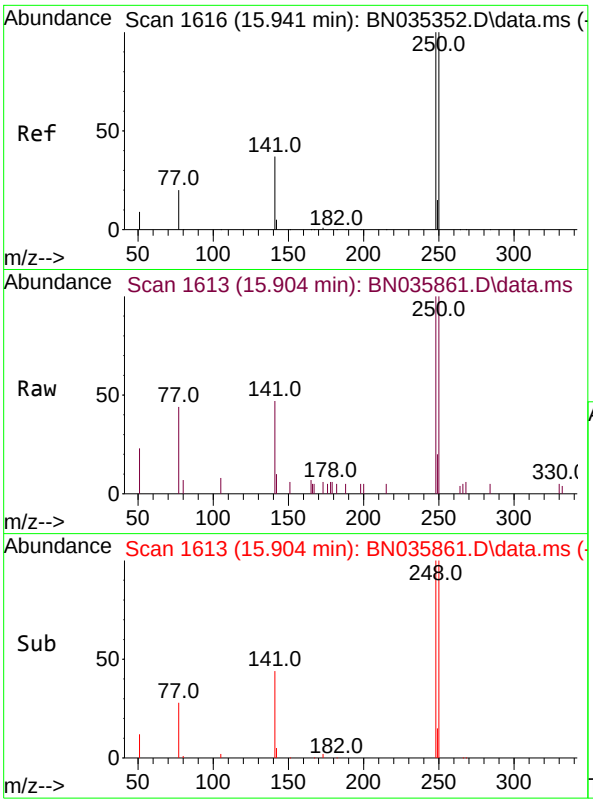




#20
4,6-Dinitro-2-methylphenol
Concen: 0.492 ng
RT: 15.111 min Scan# 1544
Delta R.T. -0.011 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:198 Resp: 453

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 198 | 100 | | |
| 51 | 90.0 | 46.5 | 69.7# |
| 105 | 73.9 | 45.3 | 67.9# |



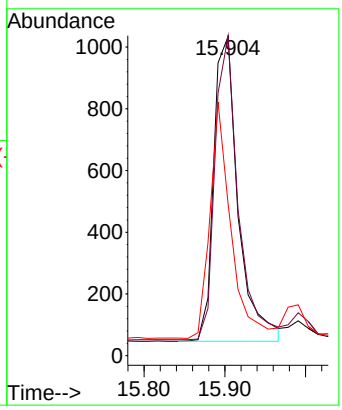


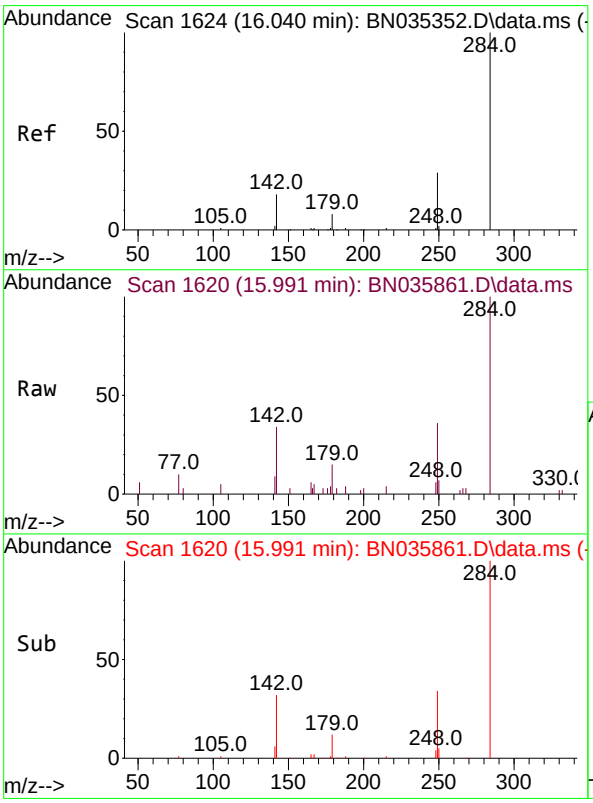

#21
4-Bromophenyl-phenylether
Concen: 0.378 ng
RT: 15.904 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:248 Resp: 2071

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 100.2 | 80.6 | 120.8 |
| 141 | 47.4 | 31.5 | 47.3# |

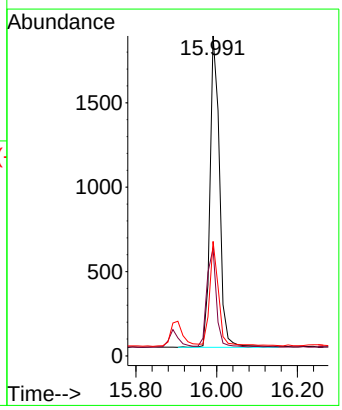


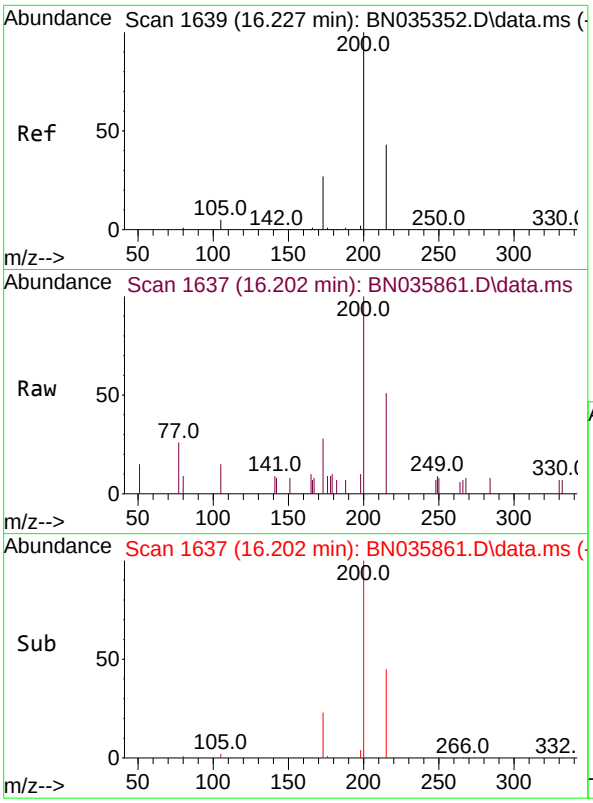




#22
Hexachlorobenzene
Concen: 0.468 ng
RT: 15.991 min Scan# 1620
Delta R.T. -0.025 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:284 Resp: 3015

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 31.5 | 26.7 | 40.1 |
| 249 | 31.2 | 24.6 | 36.8 |



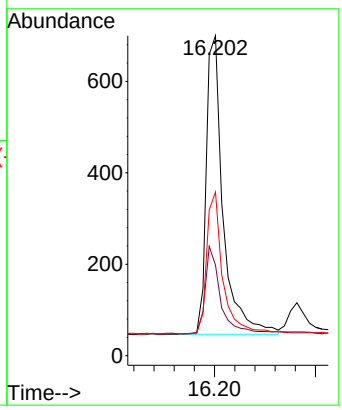


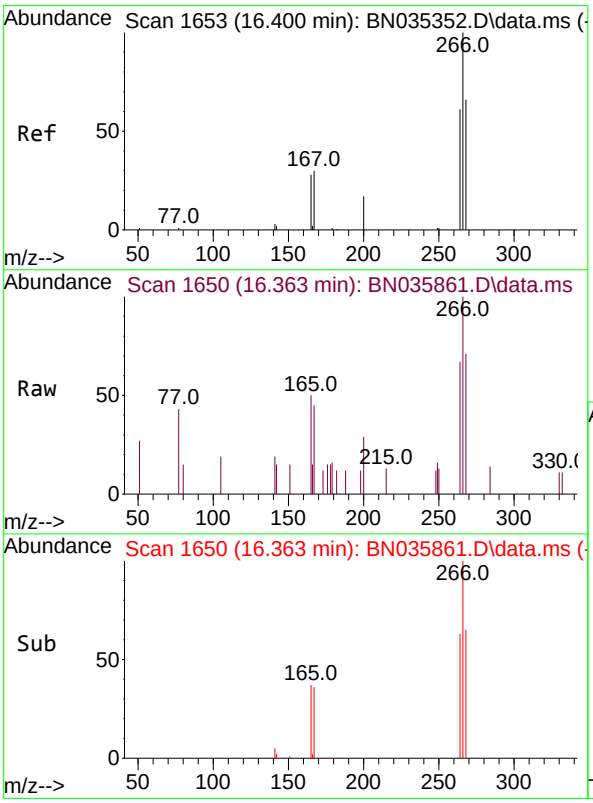

#23
Atrazine
Concen: 0.386 ng
RT: 16.202 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:200 Resp: 1507

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 173 | 28.3 | 24.1 | 36.1 |
| 215 | 51.1 | 36.9 | 55.3 |

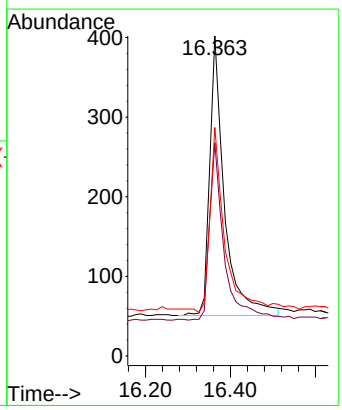


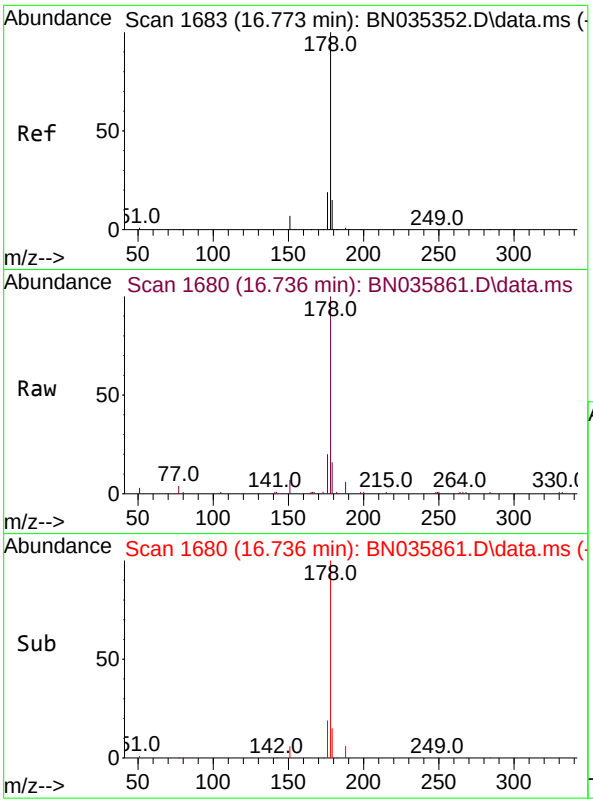




#24
Pentachlorophenol
Concen: 0.302 ng
RT: 16.363 min Scan# 1650
Delta R.T. -0.012 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:266 Resp: 846

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 264 | 62.3 | 42.3 | 63.5 |
| 268 | 67.7 | 43.3 | 64.9# |



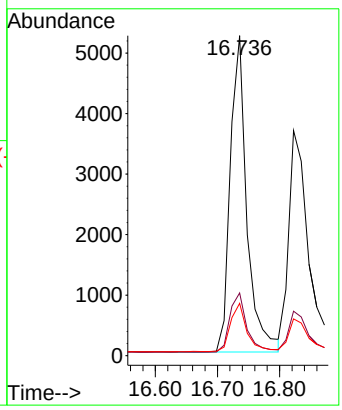


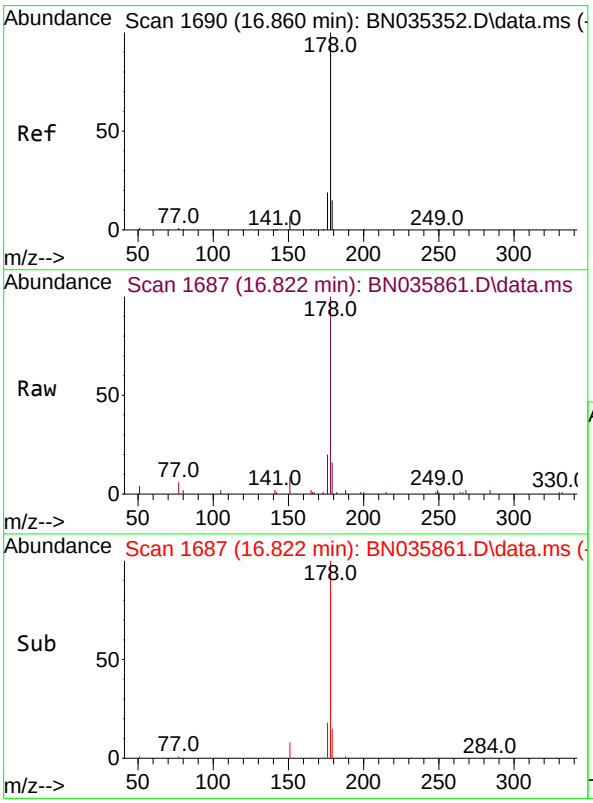

#25
Phenanthrene
Concen: 0.377 ng
RT: 16.736 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:178 Resp: 9697

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.5 | 15.4 | 23.2 |
| 179 | 15.3 | 12.3 | 18.5 |

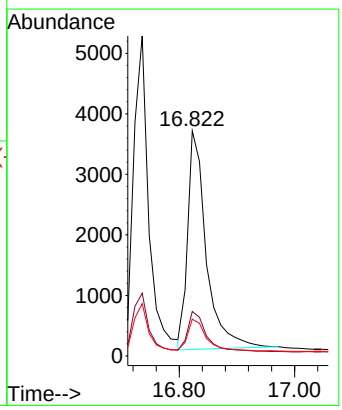


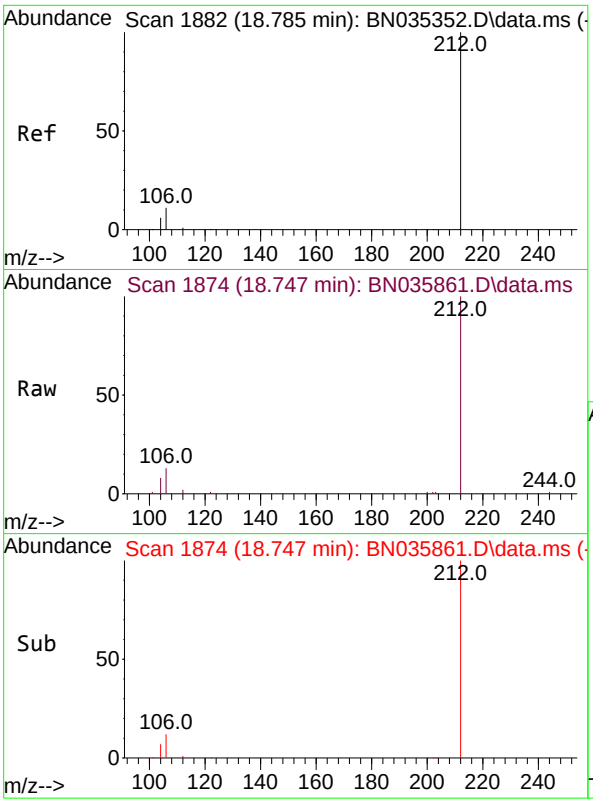




#26
Anthracene
Concen: 0.348 ng
RT: 16.822 min Scan# 1687
Delta R.T. -0.012 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:178 Resp: 8100

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.6 | 15.0 | 22.6 |
| 179 | 15.3 | 12.6 | 18.8 |



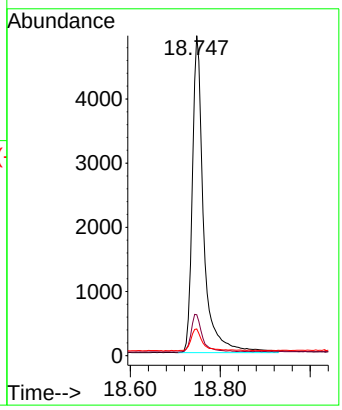


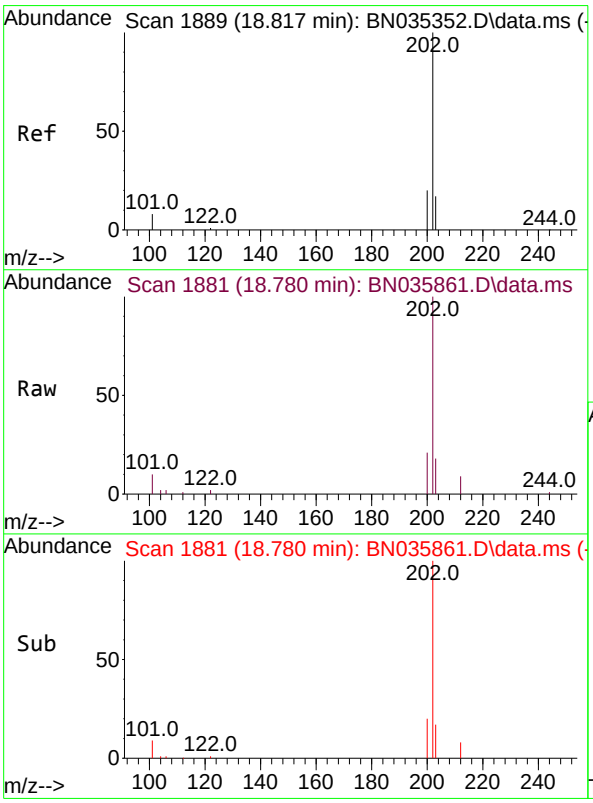

#27
Fluoranthene-d10
Concen: 0.325 ng
RT: 18.747 min Scan# 1
Delta R.T. -0.014 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:212 Resp: 8643

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 11.7 | 9.2 | 13.8 |
| 104 | 7.0 | 5.3 | 7.9 |

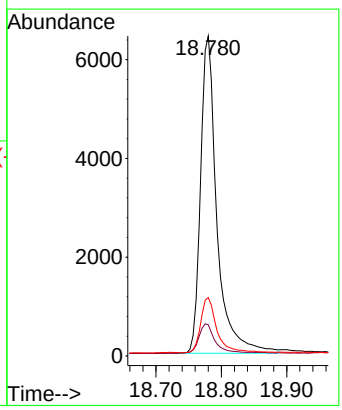


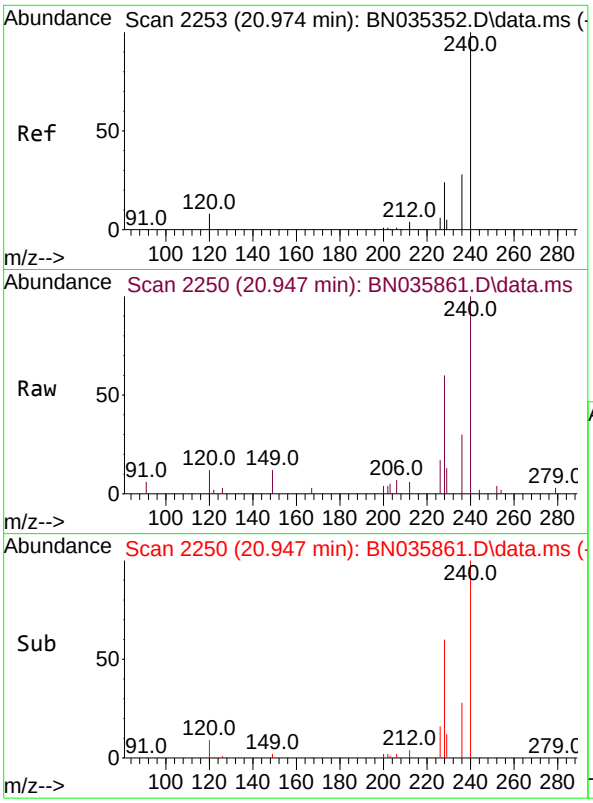




#28
Fluoranthene
Concen: 0.321 ng
RT: 18.780 min Scan# 1881
Delta R.T. -0.009 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:202 Resp: 11145

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 9.7 | 7.4 | 11.0 |
| 203 | 17.4 | 13.7 | 20.5 |



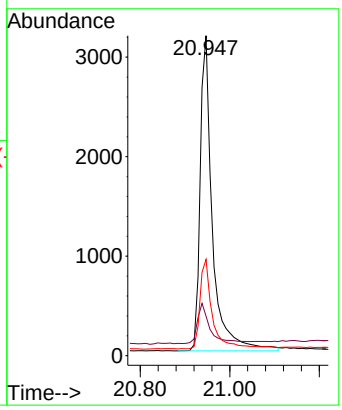


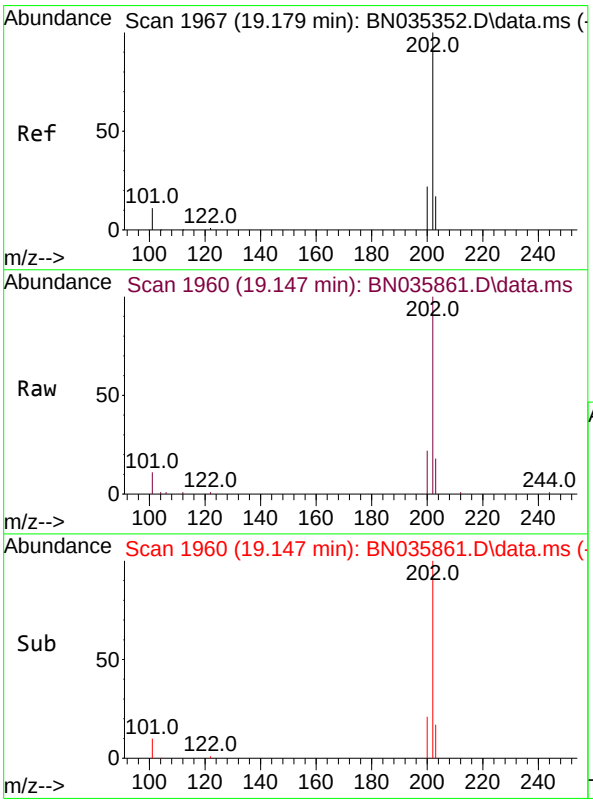

#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:240 Resp: 6021

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 12.3 | 7.9 | 11.9# |
| 236 | 30.1 | 22.9 | 34.3 |

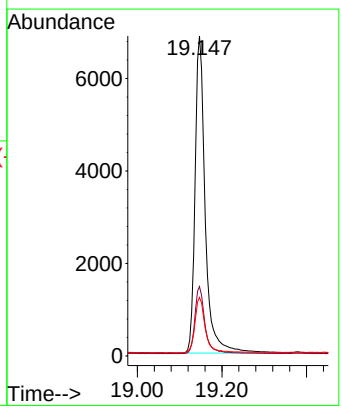


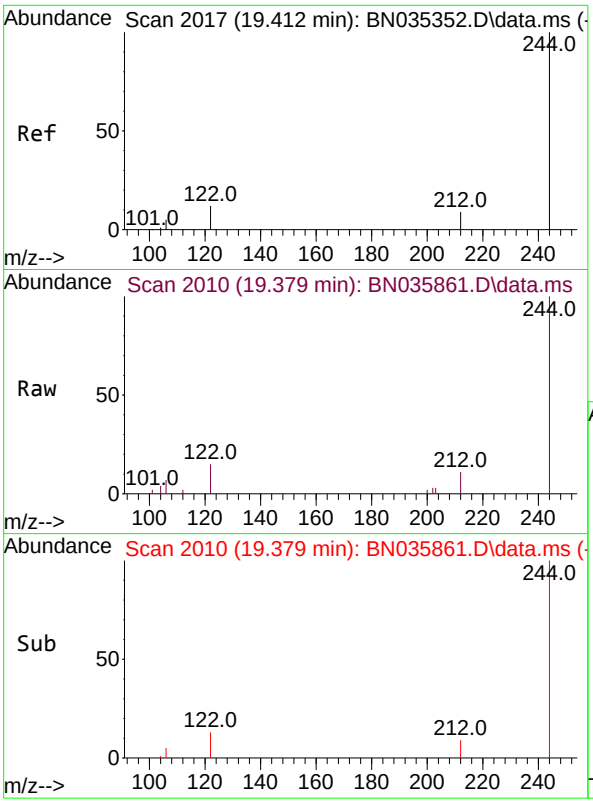




#30
Pyrene
Concen: 0.517 ng
RT: 19.147 min Scan# 1960
Delta R.T. -0.014 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:202 Resp: 11492

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 20.8 | 17.0 | 25.4 |
| 203 | 18.0 | 14.3 | 21.5 |



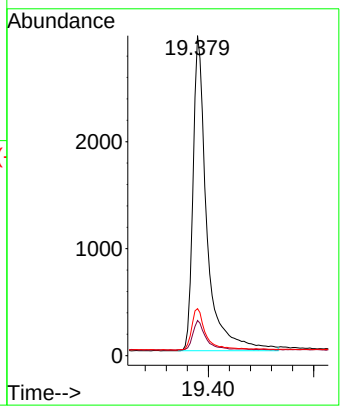


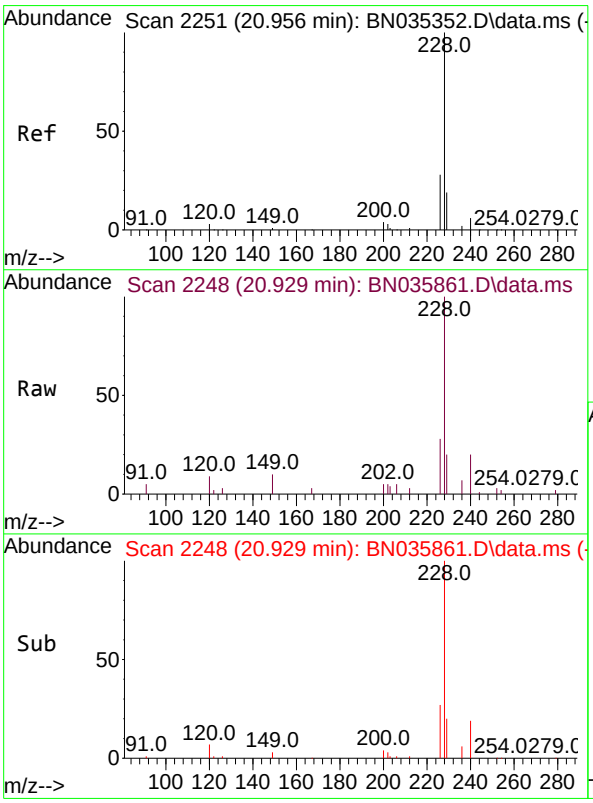

#31
Terphenyl-d14
Concen: 0.455 ng
RT: 19.379 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:244 Resp: 5407

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 11.0 | 8.1 | 12.1 |
| 122 | 14.7 | 10.3 | 15.5 |

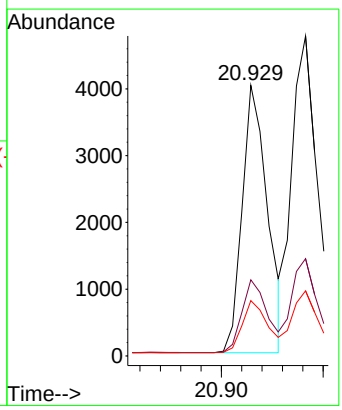


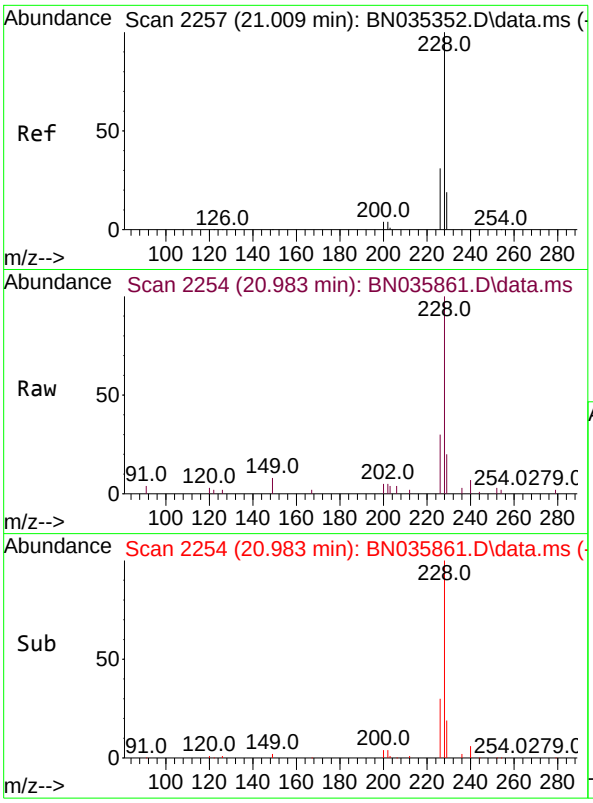




#32
Benzo(a)anthracene
Concen: 0.328 ng
RT: 20.929 min Scan# 2248
Delta R.T. -0.009 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:228 Resp: 6901

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 28.1 | 22.5 | 33.7 |
| 229 | 20.5 | 15.8 | 23.8 |



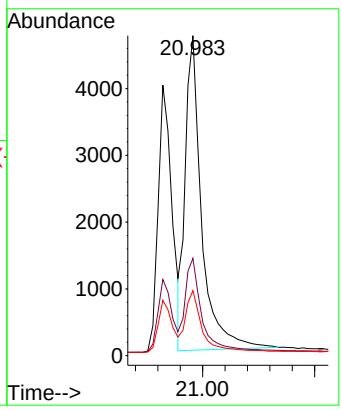


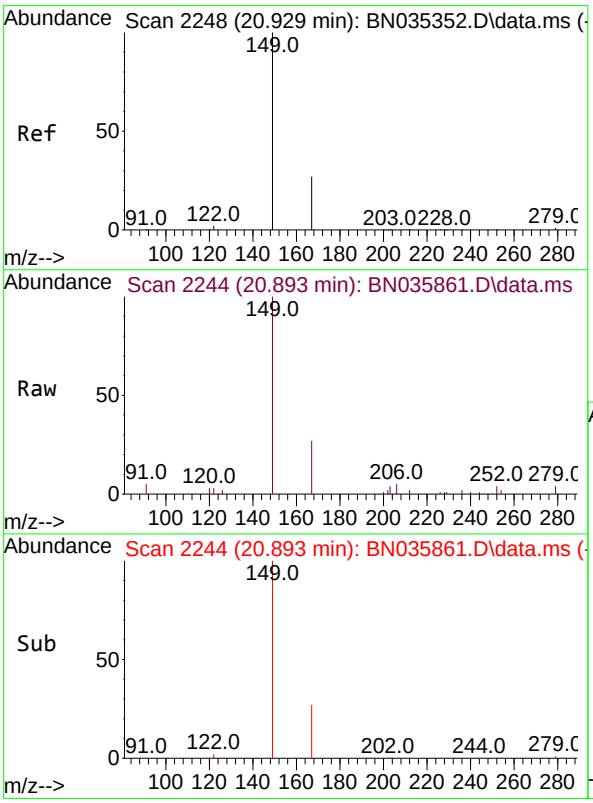

#33
Chrysene
Concen: 0.441 ng
RT: 20.983 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:228 Resp: 9578

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 30.4 | 24.6 | 37.0 |
| 229 | 20.3 | 15.9 | 23.9 |

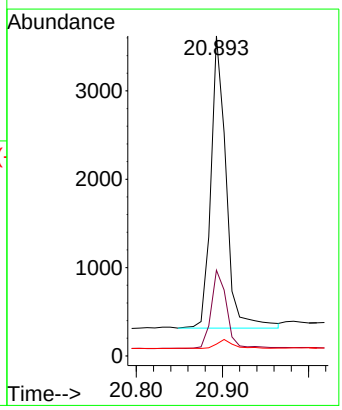


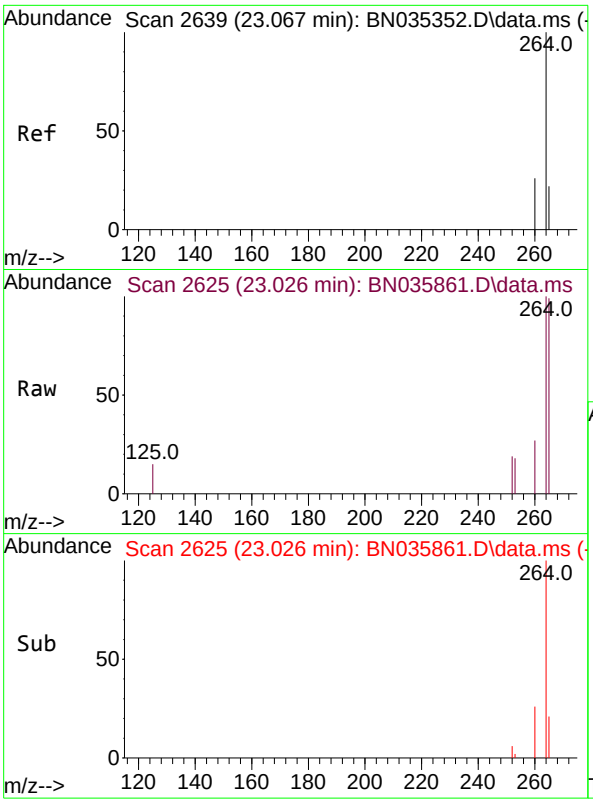




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.489 ng
RT: 20.893 min Scan# 2244
Delta R.T. -0.018 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:149 Resp: 4069

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 27.2 | 22.2 | 33.4 |
| 279 | 3.2 | 2.7 | 4.1 |



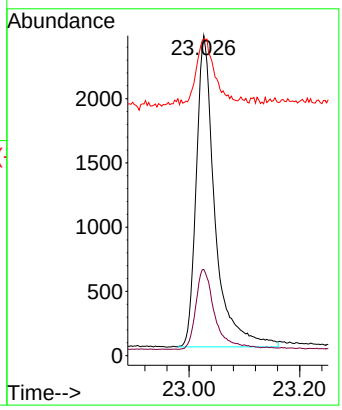


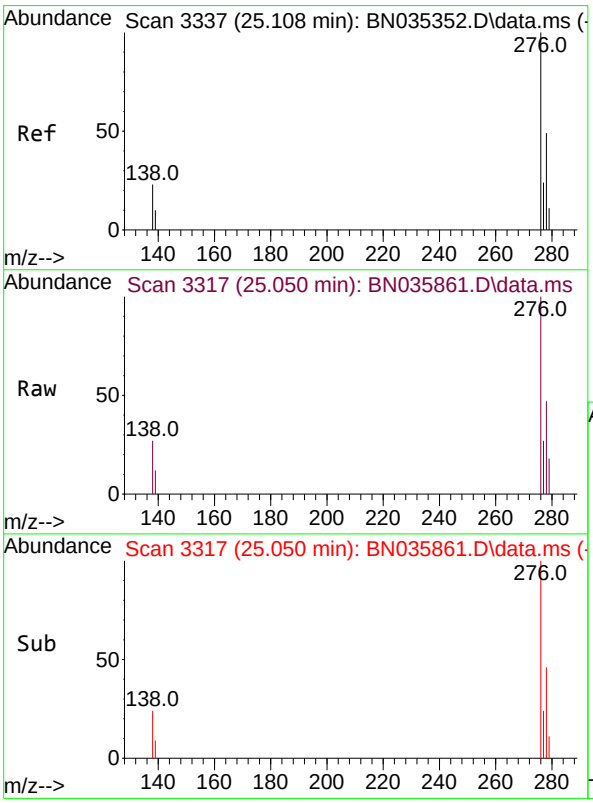

#35
Perylene-d12
Concen: 0.400 ng
RT: 23.026 min Scan# 2
Delta R.T. -0.015 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:264 Resp: 5699

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 26.9 | 21.4 | 32.2 |
| 265 | 99.1 | 40.2 | 60.4# |

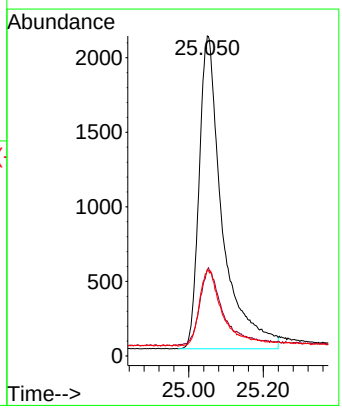


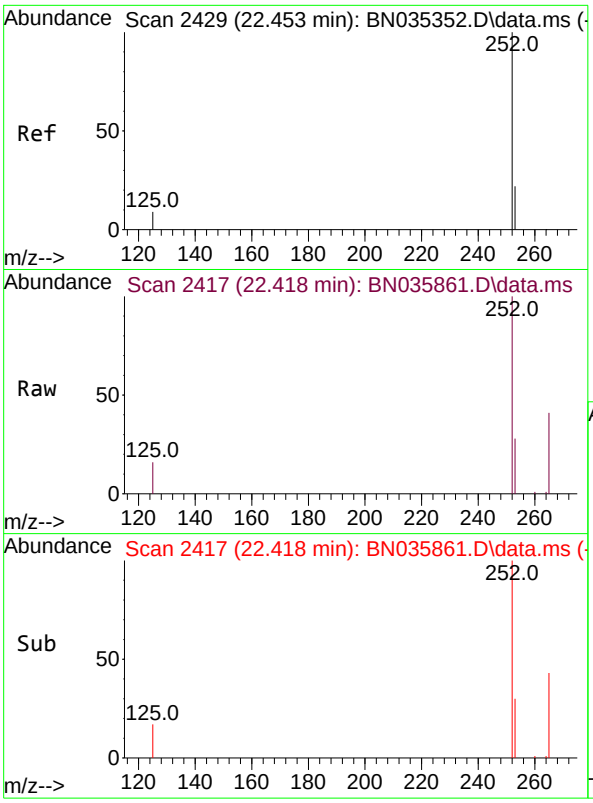




#36
Indeno(1,2,3-cd)pyrene
Concen: 0.405 ng
RT: 25.050 min Scan# 3317
Delta R.T. -0.018 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:276 Resp: 9030

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 24.8 | 19.4 | 29.0 |
| 277 | 23.4 | 19.8 | 29.6 |



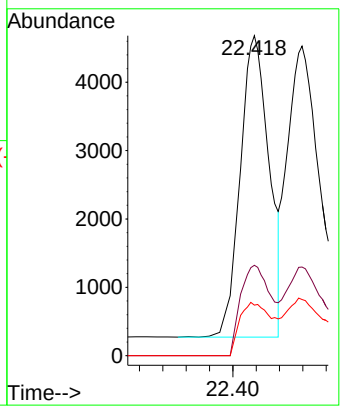


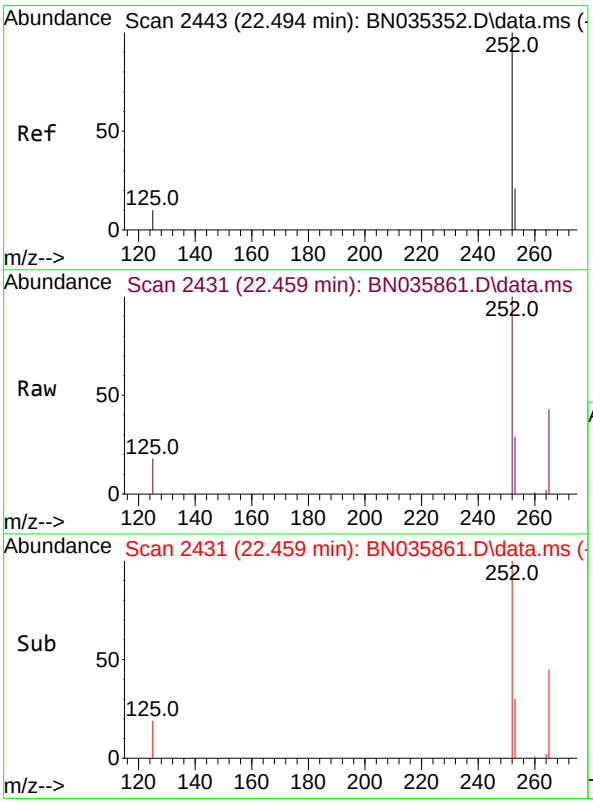

#37
Benzo(b)fluoranthene
Concen: 0.566 ng
RT: 22.418 min Scan# 24
Delta R.T. -0.012 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:252 Resp: 11803

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 28.3 | 19.6 | 29.4 |
| 125 | 15.8 | 9.6 | 14.4# |

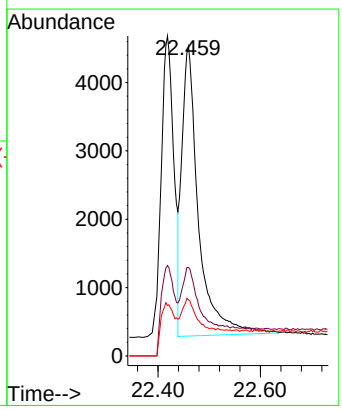


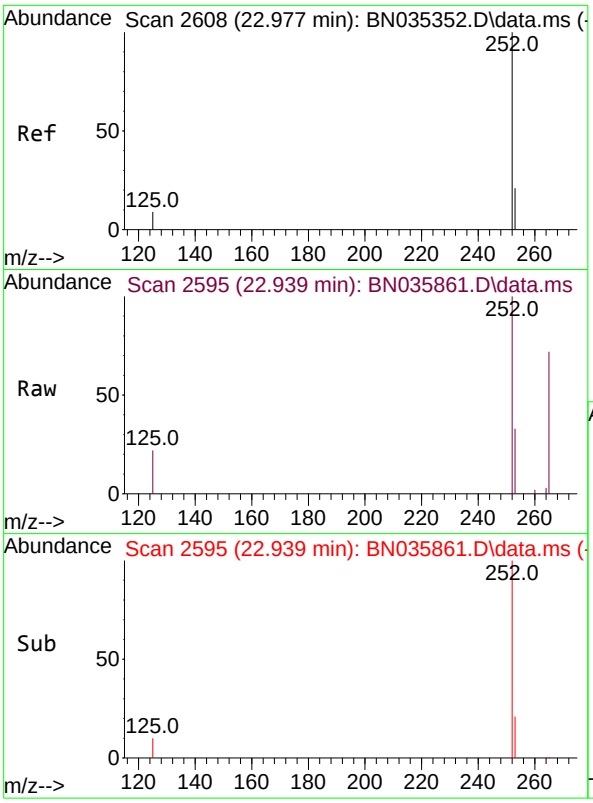




#38
Benzo(k)fluoranthene
Concen: 0.470 ng
RT: 22.459 min Scan# 2431
Delta R.T. -0.012 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:252 Resp: 9638

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 28.6 | 19.5 | 29.3 |
| 125 | 18.2 | 10.2 | 15.4# |



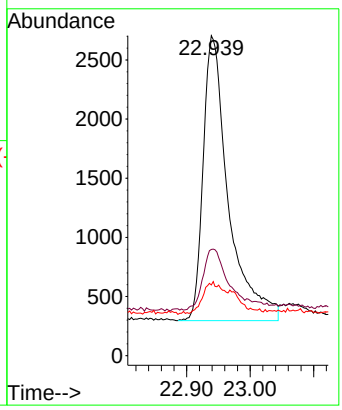


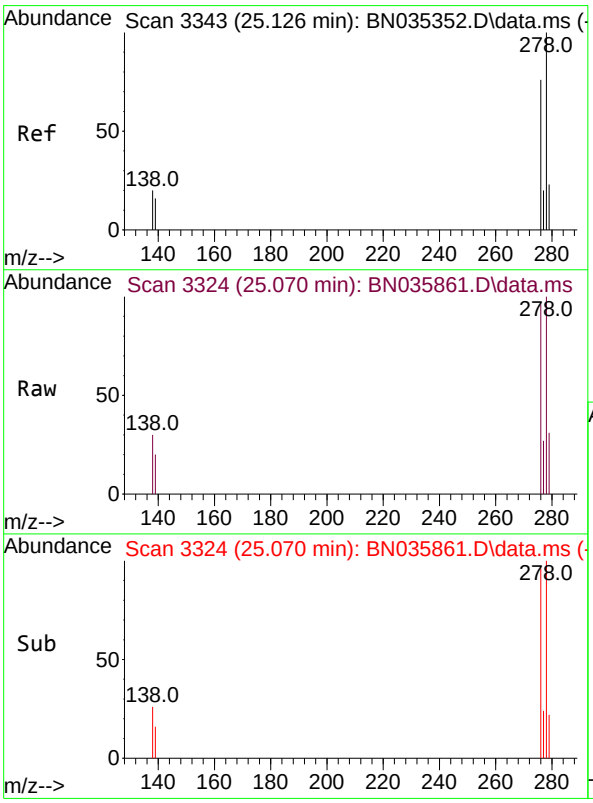

#39
Benzo(a)pyrene
Concen: 0.387 ng
RT: 22.939 min Scan# 2
Delta R.T. -0.012 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:252 Resp: 6641

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 33.2 | 20.2 | 30.4# |
| 125 | 22.1 | 10.9 | 16.3# |

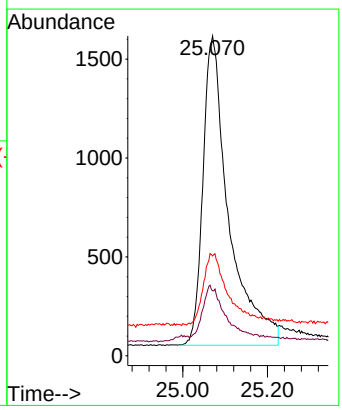


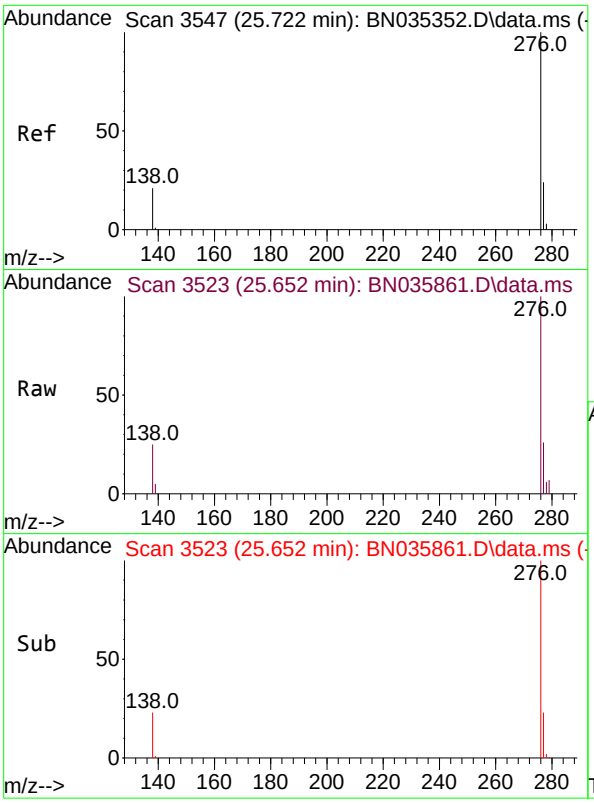




#40
Dibenzo(a,h)anthracene
Concen: 0.377 ng
RT: 25.070 min Scan# 3324
Delta R.T. -0.012 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:278 Resp: 6633

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 20.3 | 14.2 | 21.4 |
| 279 | 31.2 | 20.5 | 30.7# |






#41
Benzo(g,h,i)perylene
Concen: 0.452 ng
RT: 25.652 min Scan# 3
Delta R.T. -0.026 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:276 Resp: 8300

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 26.3 | 19.9 | 29.9 |
| 138 | 25.5 | 17.8 | 26.8 |

