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 : Q1629**

**ATTENTION : Eleanor Vivadou**

**Laboratory Certification ID # 20012**

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# Cover Page

**Order ID :** Q1629

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

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

| Lab Sample Number | Client Sample Number |
|---|---|
| Q1629-01 | TT174I1-20250320 |
| Q1629-02 | TT162S1-20250320 |
| Q1629-03 | TT188S1-20250320 |
| Q1629-04 | TT188S1-20250320MS |
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| Q1629-07 | RW09-MW01D1-20250320 |
| Q1629-08 | RW09-MW01D2-20250320 |
| Q1629-09 | RW09-MW01D3-20250320 |
| Q1629-10 | TT150S1-20250320 |
| Q1629-11 | FB03-20250321 |
| Q1629-12 | TB |
| Q1629-14 | RW09-MW01S-20250320 |
| Q1629-15 | RW09-MW01S-20250320MS |
| Q1629-16 | RW09-MW01S-20250320MSD |

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 : _____ Date: 4/3/2025

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 Manager: Ernie Wu**
**Chemtech Project # Q1629**
**Test Name: SVOC-SIMGroup1**

**A. Number of Samples and Date of Receipt:**
14 Water samples were received on 03/21/2025.

**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.

The Internal Standards Areas met the acceptable requirements except for PB167295BL Which is not associated for required compound.

The Retention Times were acceptable for all samples.
The MS recoveries met the requirements for all compounds.
The MSD recoveries met the acceptable requirements.
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 met the requirements. Except Terphenyl-d14, This compound is not associate for required compound.
The Tuning criteria met requirements.

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**E. Additional Comments:**
The laboratory certifies that the all-electronic diskette deliverable exactly match the data summary forms (i.e. Form Is)."
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 <20% 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 > 20% for the Initial Calibration curve for SW-846 analysis.

**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_____

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# 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 |

# ALLIANCE 284 Sheffield Street, Mountainside New Jersey 07092

NEW JERSEY LAB ID#: 20012: NEW YORK LAB ID#: 11376

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

CHEMTECH PROJECT NUMBER: Q1629 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 met the requirements. Except for Terphenyl-d14, This compound is not associated for required compound. | | | |
| 6. | Blank Contamination - If yes, list compounds and concentrations in each blank: | | ✓ | |
| 7. | Surrogate Recoveries Meet Criteria | | | ✓ |
| | If not met, list those compounds and their recoveries which fall outside the acceptable ranges. | | | |
| 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 recoveries met the requirements for all compounds. | | | |
| | The MSD recoveries met the acceptable requirements. | | | |
| | The RPD met criteria. | | | |
| | The Blank Spike met requirements for all samples . | | | |

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

| | | NA | NO | YES |
|---|---|---|---|---|
| 9. | Internal Standard Area/Retention Time Shift Meet Criteria | | | ✓ |
| | Comments: | | | |
| | The Internal Standards Areas met the acceptable requirements except for | | | |
| | PB167295BL Which is not associated for required compound. | | | |
| 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: | | | |

ADDITIONAL COMMENTS:

The laboratory certifies that the all-electronic diskette deliverable exactly match the data summary forms (i.e. Form Is)."

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 <20% 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 > 20% for the Initial Calibration curve for SW-846 analysis.

_____ _____

QA REVIEW Date

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## APPENDIX A

## QA REVIEW GENERAL DOCUMENTATION

**Project #:** Q1629

| | 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:** MOHAMMAD AHMED **Date:** 04/03/2025

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# LAB CHRONICLE

| | | | |
|---|---|---|---|
| **OrderID:** | Q1629 | **OrderDate:** | 3/21/2025 1:55:00 PM |
| **Client:** | AECOM Technical Services, Inc. | **Project:** | NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258 |
| **Contact:** | Eleanor Vivadou | **Location:** | I41,VOA Ref. #3 Water |

| LabID | ClientID | Matrix | Test | Method | Sample Date | Prep Date | Anal Date | Received |
|---|---|---|---|---|---|---|---|---|
| **Q1629-01** | **TT174I1-20250320** | **Water** | | | **03/20/25** | | | **03/21/25** |
| | | | SVOC-SIMGroup1 | 8270-Modified | | 03/25/25 | 03/29/25 | |
| **Q1629-02** | **TT162S1-20250320** | **Water** | | | **03/20/25** | | | **03/21/25** |
| | | | SVOC-SIMGroup1 | 8270-Modified | | 03/25/25 | 03/29/25 | |
| **Q1629-03** | **TT188S1-20250320** | **Water** | | | **03/20/25** | | | **03/21/25** |
| | | | SVOC-SIMGroup1 | 8270-Modified | | 03/25/25 | 03/28/25 | |
| **Q1629-07** | **RW09-MW01D1-20250320** | **Water** | | | **03/20/25** | | | **03/21/25** |
| | | | SVOC-SIMGroup1 | 8270-Modified | | 03/25/25 | 03/29/25 | |
| **Q1629-08** | **RW09-MW01D2-20250320** | **Water** | | | **03/20/25** | | | **03/21/25** |
| | | | SVOC-SIMGroup1 | 8270-Modified | | 03/25/25 | 03/29/25 | |
| **Q1629-09** | **RW09-MW01D3-20250320** | **Water** | | | **03/20/25** | | | **03/21/25** |
| | | | SVOC-SIMGroup1 | 8270-Modified | | 03/25/25 | 03/29/25 | |
| **Q1629-10** | **TT150S1-20250320** | **Water** | | | **03/20/25** | | | **03/21/25** |
| | | | SVOC-SIMGroup1 | 8270-Modified | | 03/25/25 | 03/29/25 | |
| **Q1629-11** | **FB03-20250321** | **Water** | | | **03/21/25** | | | **03/21/25** |
| | | | SVOC-SIMGroup1 | 8270-Modified | | 03/25/25 | 03/29/25 | |
| **Q1629-14** | **RW09-MW01S-20250320** | **Water** | | | **03/20/25** | | | **03/21/25** |
| | | | SVOC-SIMGroup1 | 8270-Modified | | 03/25/25 | 03/31/25 | |

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# Hit Summary Sheet
**SW-846**

**SDG No.:** Q1629

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

| Sample ID | Client ID | | Parameter | Concentration | C | MDL | LOD | RDL | Units |
|---|---|---|---|---|---|---|---|---|---|
| **Client ID : TT174I1-20250320** | | | | | | | | | |
| Q1629-01 | TT174I1-20250320 | WATER | 1,4-Dioxane | 0.700 | | 0.07 | 0.2 | 0.2 | ug/L |
| | | | **Total Svoc :** | | | **0.70** | | | |
| | | | **Total Concentration:** | | | **0.70** | | | |
| **Client ID : TT162S1-20250320** | | | | | | | | | |
| Q1629-02 | TT162S1-20250320 | WATER | 1,4-Dioxane | 0.240 | | 0.07 | 0.2 | 0.2 | ug/L |
| | | | **Total Svoc :** | | | **0.24** | | | |
| | | | **Total Concentration:** | | | **0.24** | | | |
| **Client ID : TT188S1-20250320** | | | | | | | | | |
| Q1629-03 | TT188S1-20250320 | WATER | 1,4-Dioxane | 0.150 | J | 0.07 | 0.2 | 0.2 | ug/L |
| | | | **Total Svoc :** | | | **0.15** | | | |
| | | | **Total Concentration:** | | | **0.15** | | | |
| **Client ID : RW09-MW01D1-20250320** | | | | | | | | | |
| Q1629-07 | RW09-MW01D1-202503 | WATER | 1,4-Dioxane | 0.350 | | 0.07 | 0.2 | 0.2 | ug/L |
| | | | **Total Svoc :** | | | **0.35** | | | |
| | | | **Total Concentration:** | | | **0.35** | | | |
| **Client ID : TT150S1-20250320** | | | | | | | | | |
| Q1629-10 | TT150S1-20250320 | WATER | 1,4-Dioxane | 0.240 | | 0.07 | 0.2 | 0.2 | ug/L |
| | | | **Total Svoc :** | | | **0.24** | | | |
| | | | **Total Concentration:** | | | **0.24** | | | |
| **Client ID : RW09-MW01S-20250320** | | | | | | | | | |
| Q1629-14 | RW09-MW01S-2025032( | WATER | 1,4-Dioxane | 0.400 | | 0.07 | 0.2 | 0.2 | ug/L |
| | | | **Total Svoc :** | | | **0.40** | | | |
| | | | **Total Concentration:** | | | **0.40** | | | |

# QC SUMMARY

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# Surrogate Summary

**SW-846**

**SDG No.:** Q1629

**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 |
|---|---|---|---|---|---|---|---|---|
| PB167295BL | PB167295BL | 2-Methylnaphthalene-d10 | 0.4 | 0.31 | 77 | | 30 | 150 |
| | | Fluoranthene-d10 | 0.4 | 0.37 | 94 | | 30 | 150 |
| | | Nitrobenzene-d5 | 0.4 | 0.28 | 70 | | 55 | 111 |
| | | 2-Fluorobiphenyl | 0.4 | 0.27 | 67 | | 53 | 106 |
| | | Terphenyl-d14 | 0.4 | 0.36 | 90 | | 58 | 132 |
| PB167295BS | PB167295BS | 2-Methylnaphthalene-d10 | 0.4 | 0.37 | 93 | | 30 | 150 |
| | | Fluoranthene-d10 | 0.4 | 0.33 | 83 | | 30 | 150 |
| | | Nitrobenzene-d5 | 0.4 | 0.31 | 77 | | 55 | 111 |
| | | 2-Fluorobiphenyl | 0.4 | 0.33 | 82 | | 53 | 106 |
| | | Terphenyl-d14 | 0.4 | 0.37 | 91 | | 58 | 132 |
| Q1629-01 | TT174I1-20250320 | 2-Methylnaphthalene-d10 | 0.4 | 0.32 | 79 | | 30 | 150 |
| | | Fluoranthene-d10 | 0.4 | 0.41 | 103 | | 30 | 150 |
| | | Nitrobenzene-d5 | 0.4 | 0.30 | 74 | | 55 | 111 |
| | | 2-Fluorobiphenyl | 0.4 | 0.31 | 79 | | 53 | 106 |
| | | Terphenyl-d14 | 0.4 | 0.41 | 102 | | 58 | 132 |
| Q1629-02 | TT162S1-20250320 | 2-Methylnaphthalene-d10 | 0.4 | 0.31 | 77 | | 30 | 150 |
| | | Fluoranthene-d10 | 0.4 | 0.42 | 106 | | 30 | 150 |
| | | Nitrobenzene-d5 | 0.4 | 0.26 | 66 | | 55 | 111 |
| | | 2-Fluorobiphenyl | 0.4 | 0.29 | 72 | | 53 | 106 |
| | | Terphenyl-d14 | 0.4 | 0.42 | 106 | | 58 | 132 |
| Q1629-03 | TT188S1-20250320 | 2-Methylnaphthalene-d10 | 0.4 | 0.32 | 80 | | 30 | 150 |
| | | Fluoranthene-d10 | 0.4 | 0.44 | 110 | | 30 | 150 |
| | | Nitrobenzene-d5 | 0.4 | 0.30 | 74 | | 55 | 111 |
| | | 2-Fluorobiphenyl | 0.4 | 0.32 | 81 | | 53 | 106 |
| | | Terphenyl-d14 | 0.4 | 0.38 | 94 | | 58 | 132 |
| Q1629-04MS | TT188S1-20250320MS | 2-Methylnaphthalene-d10 | 0.4 | 0.38 | 95 | | 30 | 150 |
| | | Fluoranthene-d10 | 0.4 | 0.42 | 105 | | 30 | 150 |
| | | Nitrobenzene-d5 | 0.4 | 0.31 | 77 | | 55 | 111 |
| | | 2-Fluorobiphenyl | 0.4 | 0.35 | 87 | | 53 | 106 |
| | | Terphenyl-d14 | 0.4 | 0.40 | 99 | | 58 | 132 |
| Q1629-05MSD | TT188S1-20250320MSD | 2-Methylnaphthalene-d10 | 0.4 | 0.35 | 88 | | 30 | 150 |
| | | Fluoranthene-d10 | 0.4 | 0.43 | 107 | | 30 | 150 |
| | | Nitrobenzene-d5 | 0.4 | 0.31 | 77 | | 55 | 111 |
| | | 2-Fluorobiphenyl | 0.4 | 0.36 | 91 | | 53 | 106 |
| | | Terphenyl-d14 | 0.4 | 0.37 | 93 | | 58 | 132 |
| Q1629-07 | RW09-MW01D1-20250320 | 2-Methylnaphthalene-d10 | 0.4 | 0.34 | 86 | | 30 | 150 |
| | | Fluoranthene-d10 | 0.4 | 0.43 | 107 | | 30 | 150 |
| | | Nitrobenzene-d5 | 0.4 | 0.29 | 72 | | 55 | 111 |
| | | 2-Fluorobiphenyl | 0.4 | 0.34 | 84 | | 53 | 106 |
| | | Terphenyl-d14 | 0.4 | 0.45 | 111 | | 58 | 132 |
| Q1629-08 | RW09-MW01D2-20250320 | 2-Methylnaphthalene-d10 | 0.4 | 0.30 | 75 | | 30 | 150 |
| | | Fluoranthene-d10 | 0.4 | 0.39 | 97 | | 30 | 150 |
| | | Nitrobenzene-d5 | 0.4 | 0.26 | 64 | | 55 | 111 |
| | | 2-Fluorobiphenyl | 0.4 | 0.25 | 63 | | 53 | 106 |
| | | Terphenyl-d14 | 0.4 | 0.38 | 94 | | 58 | 132 |
| Q1629-09 | RW09-MW01D3-20250320 | 2-Methylnaphthalene-d10 | 0.4 | 0.37 | 92 | | 30 | 150 |
| | | Fluoranthene-d10 | 0.4 | 0.41 | 102 | | 30 | 150 |
| | | Nitrobenzene-d5 | 0.4 | 0.32 | 79 | | 55 | 111 |
| | | 2-Fluorobiphenyl | 0.4 | 0.36 | 89 | | 53 | 106 |
| | | Terphenyl-d14 | 0.4 | 0.43 | 108 | | 58 | 132 |
| Q1629-10 | TT150S1-20250320 | 2-Methylnaphthalene-d10 | 0.4 | 0.34 | 84 | | 30 | 150 |

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# Surrogate Summary

**SW-846**

**SDG No.:** Q1629

**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 |
|---|---|---|---|---|---|---|---|---|
| Q1629-10 | TT150S1-20250320 | Fluoranthene-d10 | 0.4 | 0.41 | 102 | | 30 | 150 |
| | | Nitrobenzene-d5 | 0.4 | 0.29 | 72 | | 55 | 111 |
| | | 2-Fluorobiphenyl | 0.4 | 0.34 | 84 | | 53 | 106 |
| | | Terphenyl-d14 | 0.4 | 0.43 | 108 | | 58 | 132 |
| Q1629-11 | FB03-20250321 | 2-Methylnaphthalene-d10 | 0.4 | 0.35 | 86 | | 30 | 150 |
| | | Fluoranthene-d10 | 0.4 | 0.42 | 104 | | 30 | 150 |
| | | Nitrobenzene-d5 | 0.4 | 0.31 | 78 | | 55 | 111 |
| | | 2-Fluorobiphenyl | 0.4 | 0.33 | 82 | | 53 | 106 |
| | | Terphenyl-d14 | 0.4 | 0.43 | 108 | | 58 | 132 |
| Q1629-14 | RW09-MW01S-20250320 | 2-Methylnaphthalene-d10 | 0.4 | 0.32 | 80 | | 30 | 150 |
| | | Fluoranthene-d10 | 0.4 | 0.44 | 109 | | 30 | 150 |
| | | Nitrobenzene-d5 | 0.4 | 0.29 | 72 | | 55 | 111 |
| | | 2-Fluorobiphenyl | 0.4 | 0.33 | 82 | | 53 | 106 |
| | | Terphenyl-d14 | 0.4 | 0.42 | 105 | | 58 | 132 |
| Q1629-15MS | RW09-MW01S-20250320MS | 2-Methylnaphthalene-d10 | 0.4 | 0.30 | 75 | | 30 | 150 |
| | | Fluoranthene-d10 | 0.4 | 0.38 | 95 | | 30 | 150 |
| | | Nitrobenzene-d5 | 0.4 | 0.26 | 64 | | 55 | 111 |
| | | 2-Fluorobiphenyl | 0.4 | 0.30 | 75 | | 53 | 106 |
| | | Terphenyl-d14 | 0.4 | 0.35 | 86 | | 58 | 132 |
| Q1629-16MSD | RW09-MW01S-20250320MSD | 2-Methylnaphthalene-d10 | 0.4 | 0.33 | 81 | | 30 | 150 |
| | | Fluoranthene-d10 | 0.4 | 0.38 | 95 | | 30 | 150 |
| | | Nitrobenzene-d5 | 0.4 | 0.26 | 66 | | 55 | 111 |
| | | 2-Fluorobiphenyl | 0.4 | 0.29 | 72 | | 53 | 106 |
| | | Terphenyl-d14 | 0.4 | 0.36 | 89 | | 58 | 132 |

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**Matrix Spike/Matrix Spike Duplicate Summary**

**SW-846**

**SDG No.:** Q1629

**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:** Q1629-04MS | | **Client Sample ID:** TT188S1-20250320MS | | | | | | **DataFile:** BN036769.D | | | |
| 1,4-Dioxane | 0.4 | 0.15 | 0.63 | ug/L | 120 | | | | 70 | 130 | |

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## Matrix Spike/Matrix Spike Duplicate Summary

**SW-846**

**SDG No.:** Q1629

**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:** Q1629-05MSD | | **Client Sample ID:** TT188S1-20250320MSD | | | | | | **DataFile:** BN036770.D | | | |
| 1,4-Dioxane | 0.4 | 0.15 | 0.56 | ug/L | 103 | | 15 | | 70 | 130 | 20 |

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**Matrix Spike/Matrix Spike Duplicate Summary**

**SW-846**

**SDG No.:** Q1629

**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:** Q1629-15MS | | **Client Sample ID:** RW09-MW01S-20250320MS | | | | | | **DataFile:** BN036812.D | | | |
| 1,4-Dioxane | 0.4 | 0.40 | 0.82 | ug/L | 105 | | | | 70 | 130 | |

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**Matrix Spike/Matrix Spike Duplicate Summary**

**SW-846**

**SDG No.:** Q1629

**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:** Q1629-16MSD | | **Client Sample ID:** RW09-MW01S-20250320MSD | | | | | | **DataFile:** BN036813.D | | | |
| 1,4-Dioxane | 0.4 | 0.40 | 0.85 | ug/L | 113 | | 7 | | 70 | 130 | 20 |

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# Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** Q1629

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

**Analytical Method:** 8270-Modified **DataFile:** BN036804.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | RPD Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PB167295BS | 1,4-Dioxane | 0.4 | 0.32 | ug/L | 80 | | | | 70 | 130 | |

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB167295BL

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: Q1629 SAS No.: Q1629 SDG NO.: Q1629

Lab File ID: BN036792.D Lab Sample ID: PB167295BL

Instrument ID: BNA_N Date Extracted: 03/25/2025

Matrix: (soil/water) Water Date Analyzed: 03/29/2025

Level: (low/med) LOW Time Analyzed: 03:20

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|
| TT174I1-20250320 | Q1629-01 | BN036797.D | 03/29/2025 |
| PB167295BS | PB167295BS | BN036804.D | 03/29/2025 |
| TT162S1-20250320 | Q1629-02 | BN036798.D | 03/29/2025 |
| RW09-MW01D2-20250320 | Q1629-08 | BN036799.D | 03/29/2025 |
| RW09-MW01D3-20250320 | Q1629-09 | BN036800.D | 03/29/2025 |
| TT150S1-20250320 | Q1629-10 | BN036801.D | 03/29/2025 |
| FB03-20250321 | Q1629-11 | BN036802.D | 03/29/2025 |
| RW09-MW01D1-20250320 | Q1629-07 | BN036803.D | 03/29/2025 |
| RW09-MW01S-20250320 | Q1629-14 | BN036811.D | 03/31/2025 |
| RW09-MW01S-20250320MS | Q1629-15MS | BN036812.D | 03/31/2025 |
| RW09-MW01S-20250320MSD | Q1629-16MSD | BN036813.D | 03/31/2025 |
| TT188S1-20250320 | Q1629-03 | BN036768.D | 03/28/2025 |
| TT188S1-20250320MS | Q1629-04MS | BN036769.D | 03/28/2025 |
| TT188S1-20250320MSD | Q1629-05MSD | BN036770.D | 03/28/2025 |

COMMENTS:

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM SAS No.: Q1629 SDG NO.: Q1629

Lab File ID: BN036556.D DFTPP Injection Date: 03/10/2025

Instrument ID: BNA_N DFTPP Injection Time: 11:03

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 51 | 10.0 - 80.0% of mass 198 | 58.6 |
| 68 | Less than 2.0% of mass 69 | 0.0 ( 0.0 ) 1 |
| 69 | Mass 69 relative abundance | 52.3 |
| 70 | Less than 2.0% of mass 69 | 0.3 ( 0.7 ) 1 |
| 127 | 10.0 - 80.0% of mass 198 | 50.7 |
| 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 | 6.9 |
| 275 | 10.0 - 60.0% of mass 198 | 24.8 |
| 365 | Greater than 1% of mass 198 | 3.8 |
| 441 | Present, but less than mass 443 | 9.3 |
| 442 | Greater than 50% of mass 198 | 100 |
| 443 | 15.0 - 24.0% of mass 442 | 10.9 (19.6) 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 | BN036557.D | 03/10/2025 | 11:42 |
| SSTDICC0.2 | SSTDICC0.2 | BN036558.D | 03/10/2025 | 12:18 |
| SSTDICCC0.4 | SSTDICCC0.4 | BN036559.D | 03/10/2025 | 12:54 |
| SSTDICC0.8 | SSTDICC0.8 | BN036560.D | 03/10/2025 | 13:31 |
| SSTDICC1.6 | SSTDICC1.6 | BN036561.D | 03/10/2025 | 14:07 |
| SSTDICC3.2 | SSTDICC3.2 | BN036562.D | 03/10/2025 | 14:43 |
| SSTDICC5.0 | SSTDICC5.0 | BN036563.D | 03/10/2025 | 15:19 |

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SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM SAS No.: Q1629 SDG NO.: Q1629

Lab File ID: BN036756.D DFTPP Injection Date: 03/28/2025

Instrument ID: BNA_N DFTPP Injection Time: 03:07

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 51 | 10.0 - 80.0% of mass 198 | 67 |
| 68 | Less than 2.0% of mass 69 | 0.9 ( 1.5 ) 1 |
| 69 | Mass 69 relative abundance | 57.5 |
| 70 | Less than 2.0% of mass 69 | 0.3 ( 0.5 ) 1 |
| 127 | 10.0 - 80.0% of mass 198 | 53.9 |
| 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 | 7.1 |
| 275 | 10.0 - 60.0% of mass 198 | 24.9 |
| 365 | Greater than 1% of mass 198 | 4.1 |
| 441 | Present, but less than mass 443 | 8.9 |
| 442 | Greater than 50% of mass 198 | 100 |
| 443 | 15.0 - 24.0% of mass 442 | 10.3 (19.2) 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 | BN036757.D | 03/28/2025 | 03:46 |
| TT188S1-20250320 | Q1629-03 | BN036768.D | 03/28/2025 | 11:34 |
| TT188S1-20250320MS | Q1629-04MS | BN036769.D | 03/28/2025 | 12:47 |
| TT188S1-20250320MSD | Q1629-05MSD | BN036770.D | 03/28/2025 | 13:22 |
| SSTDCCC0.4EC | SSTDCCC0.4 | BN036771.D | 03/28/2025 | 13:58 |

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM SAS No.: Q1629 SDG NO.: Q1629

Lab File ID: BN036790.D DFTPP Injection Date: 03/29/2025

Instrument ID: BNA_N DFTPP Injection Time: 01:26

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 51 | 10.0 - 80.0% of mass 198 | 71.7 |
| 68 | Less than 2.0% of mass 69 | 1.1 ( 1.9 ) 1 |
| 69 | Mass 69 relative abundance | 58.5 |
| 70 | Less than 2.0% of mass 69 | 0.3 ( 0.6 ) 1 |
| 127 | 10.0 - 80.0% of mass 198 | 52.7 |
| 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 | 22.7 |
| 365 | Greater than 1% of mass 198 | 3.9 |
| 441 | Present, but less than mass 443 | 8.2 |
| 442 | Greater than 50% of mass 198 | 100 |
| 443 | 15.0 - 24.0% of mass 442 | 10.1 (20.2) 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 | BN036791.D | 03/29/2025 | 02:44 |
| PB167295BL | PB167295BL | BN036792.D | 03/29/2025 | 03:20 |
| TT174I1-20250320 | Q1629-01 | BN036797.D | 03/29/2025 | 06:19 |
| TT162S1-20250320 | Q1629-02 | BN036798.D | 03/29/2025 | 06:56 |
| RW09-MW01D2-20250320 | Q1629-08 | BN036799.D | 03/29/2025 | 07:32 |
| RW09-MW01D3-20250320 | Q1629-09 | BN036800.D | 03/29/2025 | 08:08 |
| TT150S1-20250320 | Q1629-10 | BN036801.D | 03/29/2025 | 08:44 |
| FB03-20250321 | Q1629-11 | BN036802.D | 03/29/2025 | 09:20 |
| RW09-MW01D1-20250320 | Q1629-07 | BN036803.D | 03/29/2025 | 09:57 |
| PB167295BS | PB167295BS | BN036804.D | 03/29/2025 | 10:33 |
| SSTDCCC0.4EC | SSTDCCC0.4 | BN036807.D | 03/29/2025 | 12:21 |

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SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM SAS No.: Q1629 SDG NO.: Q1629

Lab File ID: BN036808.D DFTPP Injection Date: 03/31/2025

Instrument ID: BNA_N DFTPP Injection Time: 10:00

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 51 | 10.0 - 80.0% of mass 198 | 70.2 |
| 68 | Less than 2.0% of mass 69 | 1 ( 1.8 ) 1 |
| 69 | Mass 69 relative abundance | 58.4 |
| 70 | Less than 2.0% of mass 69 | 0.4 ( 0.6 ) 1 |
| 127 | 10.0 - 80.0% of mass 198 | 54.1 |
| 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 | 7.2 |
| 275 | 10.0 - 60.0% of mass 198 | 23.4 |
| 365 | Greater than 1% of mass 198 | 4 |
| 441 | Present, but less than mass 443 | 8.3 |
| 442 | Greater than 50% of mass 198 | 100 |
| 443 | 15.0 - 24.0% of mass 442 | 10 (21.3) 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 | BN036809.D | 03/31/2025 | 10:39 |
| RW09-MW01S-20250320 | Q1629-14 | BN036811.D | 03/31/2025 | 11:51 |
| RW09-MW01S-20250320MS | Q1629-15MS | BN036812.D | 03/31/2025 | 13:04 |
| RW09-MW01S-20250320MSD | Q1629-16MSD | BN036813.D | 03/31/2025 | 13:40 |
| SSTDCCC0.4EC | SSTDCCC0.4 | BN036815.D | 03/31/2025 | 15:08 |

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1629 SAS No.: Q1629 SDG NO.: Q1629

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 03/28/2025

Lab File ID: BN036757.D Time Analyzed: 03:46

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 | 1974 | 7.703 | 4607 | 10.49 | 2750 | 14.33 |
| | UPPER LIMIT | 3948 | 8.203 | 9214 | 10.988 | 5500 | 14.834 |
| | LOWER LIMIT | 987 | 7.203 | 2303.5 | 9.988 | 1375 | 13.834 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | TT188S1-20250320 | 1850 | 7.70 | 4438 | 10.49 | 2727 | 14.33 |
| 02 | TT188S1-20250320MS | 1547 | 7.70 | 3800 | 10.49 | 2504 | 14.33 |
| 03 | TT188S1-20250320MSD | 1415 | 7.70 | 3434 | 10.49 | 2160 | 14.33 |

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.: Q1629 SAS No.: Q1629 SDG NO.: Q1629

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 03/28/2025

Lab File ID: BN036757.D Time Analyzed: 03:46

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 | 5937 | 17.087 | 5680 | 21.277 | 5140 | 23.519 |
| | UPPER LIMIT | 11874 | 17.587 | 11360 | 21.777 | 10280 | 24.019 |
| | LOWER LIMIT | 2968.5 | 16.587 | 2840 | 20.777 | 2570 | 23.019 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | TT188S1-20250320 | 6125 | 17.09 | 5473 | 21.28 | 4747 | 23.52 |
| 02 | TT188S1-20250320MS | 5519 | 17.09 | 4772 | 21.28 | 4206 | 23.52 |
| 03 | TT188S1-20250320MSD | 4889 | 17.09 | 4383 | 21.28 | 3881 | 23.52 |

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.: Q1629 SAS No.: Q1629 SDG NO.: Q1629

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 03/29/2025

Lab File ID: BN036791.D Time Analyzed: 02:44

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 | 1826 | 7.696 | 4490 | 10.48 | 2701 | 14.33 |
| | UPPER LIMIT | 3652 | 8.196 | 8980 | 10.977 | 5402 | 14.834 |
| | LOWER LIMIT | 913 | 7.196 | 2245 | 9.977 | 1350.5 | 13.834 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | PB167295BL | 1921 | 7.70 | 4330 | 10.50 | 2411 | 14.35 |
| 02 | PB167295BS | 1794 | 7.70 | 4263 | 10.48 | 2364 | 14.33 |
| 03 | TT174I1-20250320 | 1885 | 7.70 | 4295 | 10.49 | 2635 | 14.33 |
| 04 | TT162S1-20250320 | 1621 | 7.70 | 3708 | 10.49 | 2378 | 14.33 |
| 05 | RW09-MW01D1-20250320 | 1719 | 7.70 | 4159 | 10.49 | 2581 | 14.33 |
| 06 | RW09-MW01D2-20250320 | 1587 | 7.70 | 3759 | 10.49 | 2611 | 14.33 |
| 07 | RW09-MW01D3-20250320 | 1638 | 7.70 | 3883 | 10.48 | 2532 | 14.33 |
| 08 | TT150S1-20250320 | 1638 | 7.70 | 3931 | 10.48 | 2498 | 14.33 |
| 09 | FB03-20250321 | 1678 | 7.70 | 4131 | 10.48 | 2695 | 14.33 |

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.: Q1629 SAS No.: Q1629 SDG NO.: Q1629

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 03/29/2025

Lab File ID: BN036791.D Time Analyzed: 02:44

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 | 5571 | 17.087 | 4634 | 21.268 | 4032 | | 23.516 |
| | UPPER LIMIT | 11142 | 17.587 | 9268 | 21.768 | 8064 | | 24.016 |
| | LOWER LIMIT | 2785.5 | 16.587 | 2317 | 20.768 | 2016 | | 23.016 |
| | EPA SAMPLE NO. | | | | | | | |
| 01 | PB167295BL | 4533 | 17.10 | 3414 | 21.28 | 1734 | * | 23.53 |
| 02 | PB167295BS | 4802 | 17.09 | 3163 | 21.28 | 2660 | | 23.52 |
| 03 | TT174I1-20250320 | 5199 | 17.09 | 3937 | 21.28 | 3340 | | 23.52 |
| 04 | TT162S1-20250320 | 5161 | 17.09 | 4055 | 21.28 | 3123 | | 23.52 |
| 05 | RW09-MW01D1-20250320 | 5278 | 17.09 | 3898 | 21.28 | 3267 | | 23.52 |
| 06 | RW09-MW01D2-20250320 | 5014 | 17.09 | 3745 | 21.28 | 3124 | | 23.52 |
| 07 | RW09-MW01D3-20250320 | 5189 | 17.09 | 3677 | 21.28 | 2995 | | 23.52 |
| 08 | TT150S1-20250320 | 5311 | 17.09 | 3784 | 21.28 | 3106 | | 23.52 |
| 09 | FB03-20250321 | 5610 | 17.09 | 4075 | 21.28 | 3144 | | 23.52 |

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.: Q1629 SAS No.: Q1629 SDG NO.: Q1629

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 03/31/2025

Lab File ID: BN036809.D Time Analyzed: 10:39

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 | 1888 | 7.695 | 4656 | 10.48 | 2798 | 14.33 |
| | UPPER LIMIT | 3776 | 8.195 | 9312 | 10.977 | 5596 | 14.834 |
| | LOWER LIMIT | 944 | 7.195 | 2328 | 9.977 | 1399 | 13.834 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | RW09-MW01S-20250320 | 1749 | 7.70 | 4433 | 10.48 | 2707 | 14.33 |
| 02 | RW09-MW01S-20250320MS | 1333 | 7.70 | 3452 | 10.48 | 2071 | 14.33 |
| 03 | RW09-MW01S-20250320MSD | 1372 | 7.70 | 3583 | 10.48 | 2162 | 14.33 |

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.

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

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1629 SAS No.: Q1629 SDG NO.: Q1629

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 03/31/2025

Lab File ID: BN036809.D Time Analyzed: 10:39

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 | 5809 | 17.086 | 4586 | 21.277 | 3945 | 23.522 |
| | UPPER LIMIT | 11618 | 17.586 | 9172 | 21.777 | 7890 | 24.022 |
| | LOWER LIMIT | 2904.5 | 16.586 | 2293 | 20.777 | 1972.5 | 23.022 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | RW09-MW01S-20250320 | 5735 | 17.09 | 4630 | 21.28 | 4169 | 23.52 |
| 02 | RW09-MW01S-20250320MS | 4565 | 17.09 | 3721 | 21.28 | 3243 | 23.51 |
| 03 | RW09-MW01S-20250320MSD | 4671 | 17.09 | 3683 | 21.28 | 3184 | 23.52 |

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

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: | 03/20/25 |
| Project: | NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258 | Date Received: | 03/21/25 |
| Client Sample ID: | TT174I1-20250320 | SDG No.: | Q1629 |
| Lab Sample ID: | Q1629-01 | 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 |
|---|---|---|---|---|
| BN036797.D | 1 | 03/25/25 08:41 | 03/29/25 06:19 | PB167295 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 123-91-1 | 1,4-Dioxane | 0.70 | | 0.070 | 0.20 | 0.20 | ug/L |
| **SURROGATES** | | | | | | | |
| 7297-45-2 | 2-Methylnaphthalene-d10 | 0.32 | | 30 - 150 | | 79% | SPK: 0.4 |
| 93951-69-0 | Fluoranthene-d10 | 0.41 | | 30 - 150 | | 103% | SPK: 0.4 |
| 4165-60-0 | Nitrobenzene-d5 | 0.30 | | 55 - 111 | | 74% | SPK: 0.4 |
| 321-60-8 | 2-Fluorobiphenyl | 0.31 | | 53 - 106 | | 79% | SPK: 0.4 |
| 1718-51-0 | Terphenyl-d14 | 0.41 | | 58 - 132 | | 102% | SPK: 0.4 |
| **INTERNAL STANDARDS** | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 1890 | 7.696 | | | | |
| 1146-65-2 | Naphthalene-d8 | 4300 | 10.487 | | | | |
| 15067-26-2 | Acenaphthene-d10 | 2640 | 14.334 | | | | |
| 1517-22-2 | Phenanthrene-d10 | 5200 | 17.086 | | | | |
| 1719-03-5 | Chrysene-d12 | 3940 | 21.277 | | | | |
| 1520-96-3 | Perylene-d12 | 3340 | 23.516 | | | | |

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\BN032825\
Data File : BN036797.D
Acq On : 29 Mar 2025 06:19
Operator : RC/JU
Sample : Q1629-01
Misc :
ALS Vial : 28 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
TT174I1-20250320

Quant Time: Mar 31 01:58:07 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

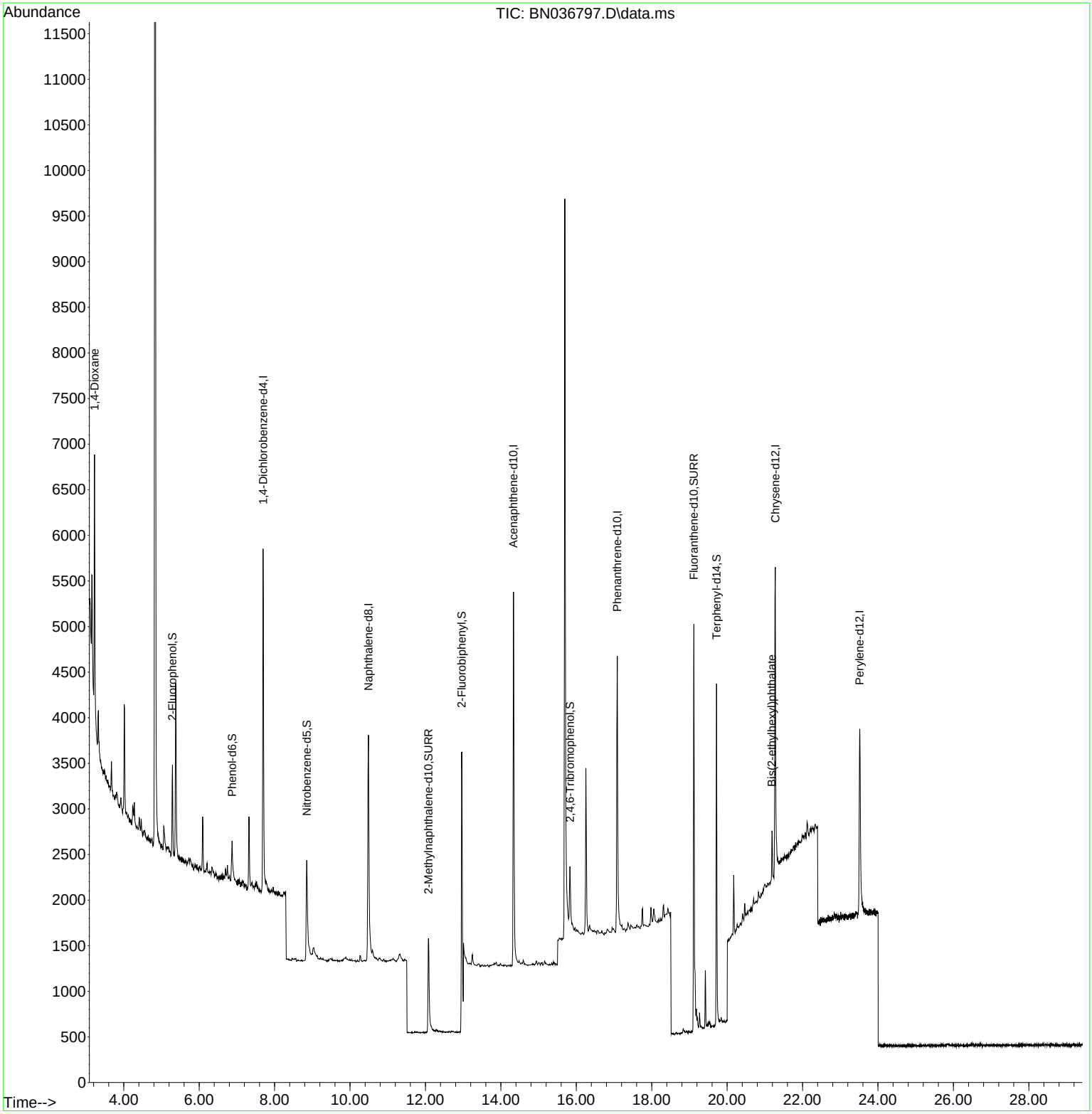
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.696 | 152 | 1885 | 0.400 | ng | -0.03 |
| 7) Naphthalene-d8 | 10.487 | 136 | 4295 | 0.400 | ng | -0.02 |
| 13) Acenaphthene-d10 | 14.334 | 164 | 2635 | 0.400 | ng | -0.03 |
| 19) Phenanthrene-d10 | 17.086 | 188 | 5199 | 0.400 | ng | -0.02 |
| 29) Chrysene-d12 | 21.277 | 240 | 3937 | 0.400 | ng | -0.02 |
| 35) Perylene-d12 | 23.516 | 264 | 3340 | 0.400 | ng | -0.04 |
| System Monitoring Compounds | | | | | | |
| 4) 2-Fluorophenol | 5.291 | 112 | 680 | 0.155 | ng | -0.02 |
| 5) Phenol-d6 | 6.872 | 99 | 438 | 0.081 | ng | -0.03 |
| 8) Nitrobenzene-d5 | 8.854 | 82 | 1384 | 0.296 | ng | -0.02 |
| 11) 2-Methylnaphthalene-d10 | 12.080 | 152 | 2027 | 0.317 | ng | -0.03 |
| 14) 2,4,6-Tribromophenol | 15.833 | 330 | 434 | 0.363 | ng | -0.02 |
| 15) 2-Fluorobiphenyl | 12.963 | 172 | 4814 | 0.314 | ng | -0.03 |
| 27) Fluoranthene-d10 | 19.118 | 212 | 5488 | 0.412 | ng | -0.02 |
| 31) Terphenyl-d14 | 19.717 | 244 | 3865 | 0.410 | ng | -0.03 |
| Target Compounds | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.225 | 88 | 1464 | 0.700 | ng | # 81 |
| 34) Bis(2-ethylhexyl)phtha... | 21.187 | 149 | 640 | 0.066 | ng | # 94 |

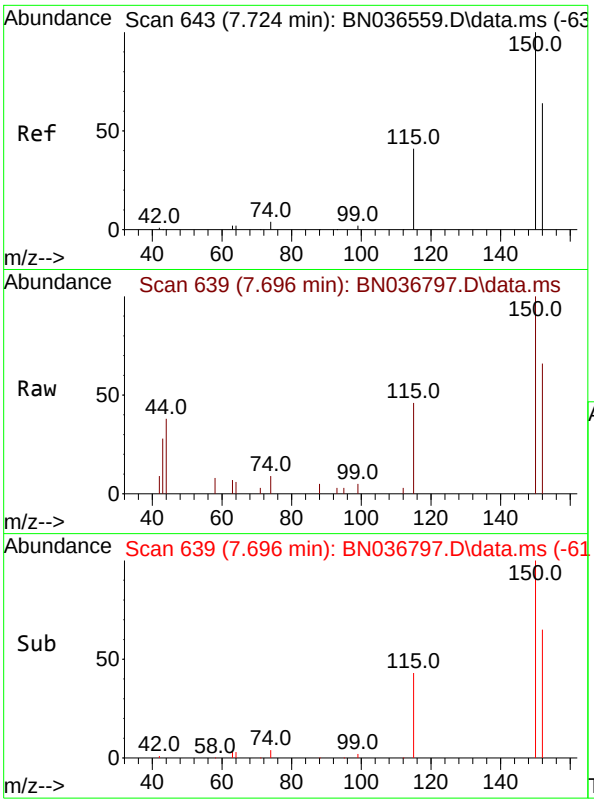
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032825\
Data File : BN036797.D
Acq On : 29 Mar 2025 06:19
Operator : RC/JU
Sample : Q1629-01
Misc :
ALS Vial : 28 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
TT174I1-20250320

Quant Time: Mar 31 01:58:07 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration



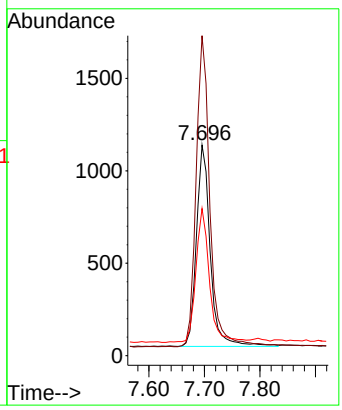


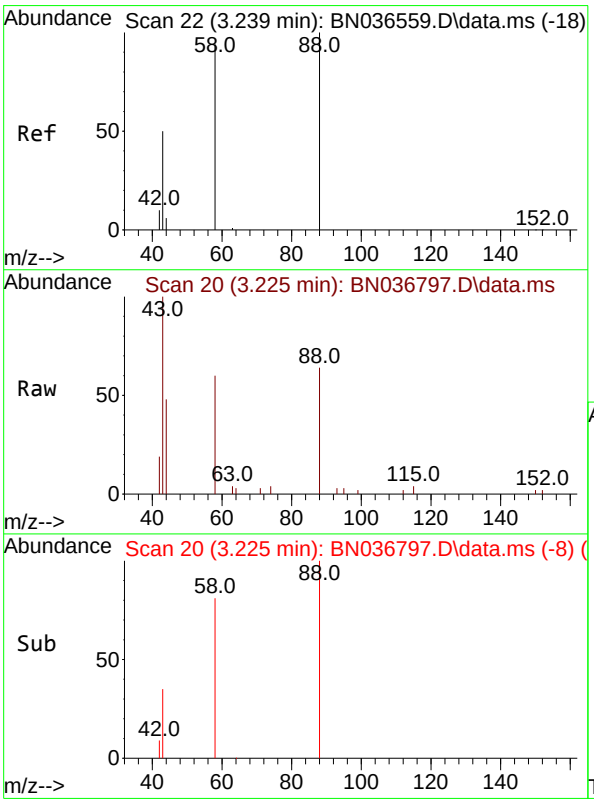

#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.696 min Scan# 6
Delta R.T. -0.028 min
Lab File: BN036797.D
Acq: 29 Mar 2025 06:19

**Instrument :**
BNA_N
**ClientSampleId :**
TT174I1-20250320

Tgt Ion:152 Resp: 1885

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 152.0 | 123.7 | 185.5 |
| 115 | 69.9 | 54.3 | 81.5 |

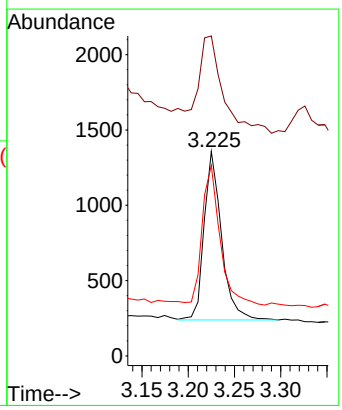


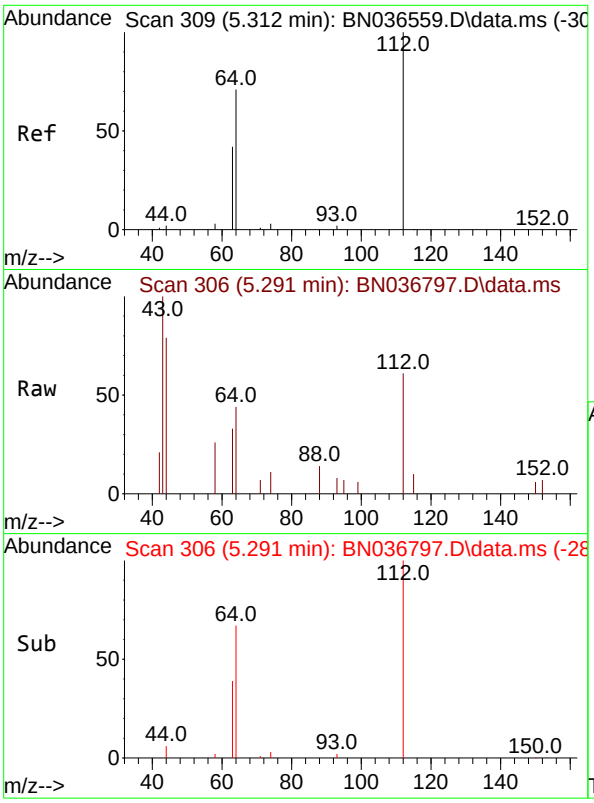




#2
1,4-Dioxane
Concen: 0.700 ng
RT: 3.225 min Scan# 20
Delta R.T. -0.014 min
Lab File: BN036797.D
Acq: 29 Mar 2025 06:19

Tgt Ion: 88 Resp: 1464

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 82.0 | 37.8 | 56.8# |
| 58 | 85.0 | 67.4 | 101.2 |



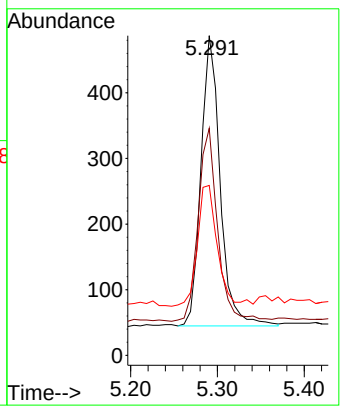


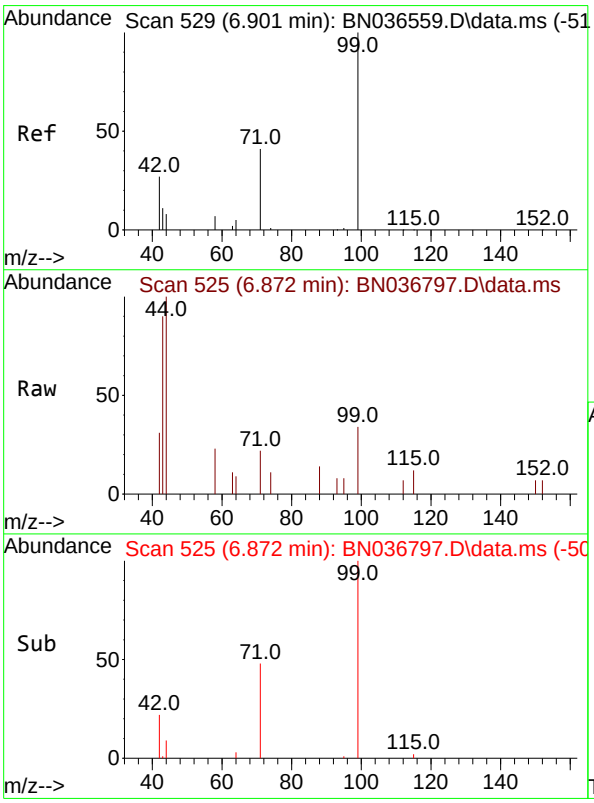

#4
2-Fluorophenol
Concen: 0.155 ng
RT: 5.291 min Scan# 3
Delta R.T. -0.022 min
Lab File: BN036797.D
Acq: 29 Mar 2025 06:19

**Instrument :**
BNA_N
**ClientSampleId :**
TT174I1-20250320

Tgt Ion:112 Resp: 680

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 67.4 | 53.1 | 79.7 |
| 63 | 42.6 | 31.8 | 47.8 |

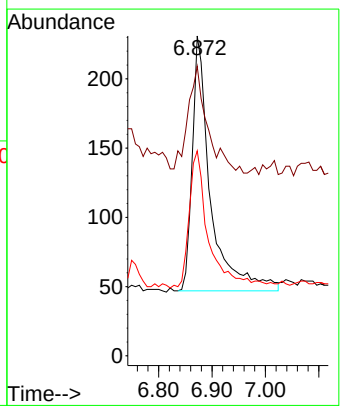


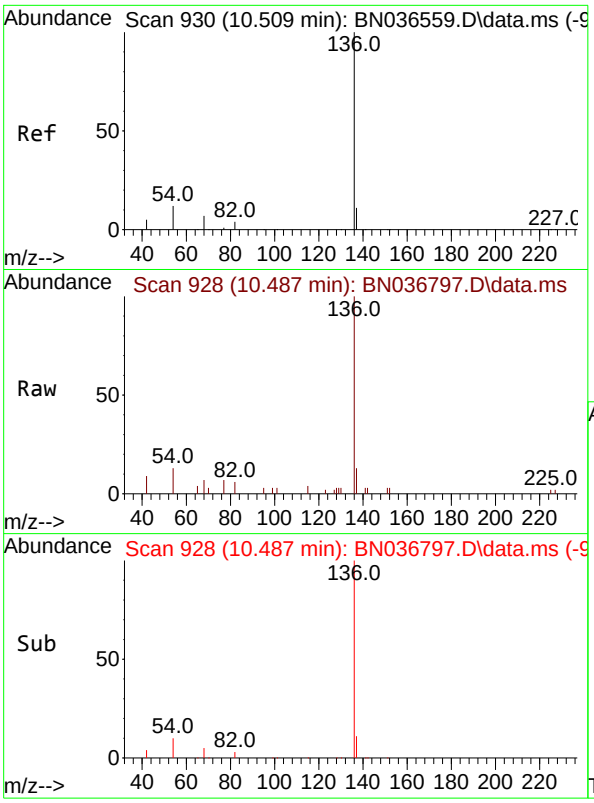




#5
Phenol-d6
Concen: 0.081 ng
RT: 6.872 min Scan# 525
Delta R.T. -0.029 min
Lab File: BN036797.D
Acq: 29 Mar 2025 06:19

Tgt Ion: 99 Resp: 438

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 45.2 | 26.5 | 39.7# |
| 71 | 58.0 | 34.1 | 51.1# |



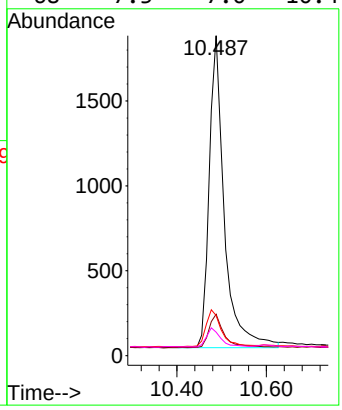


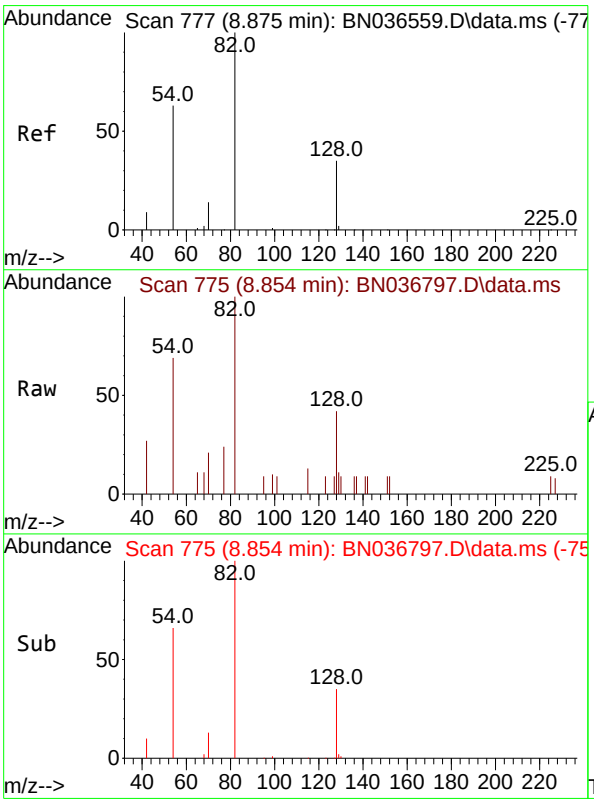

#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.487 min Scan# 9
Delta R.T. -0.021 min
Lab File: BN036797.D
Acq: 29 Mar 2025 06:19

**Instrument :**
BNA_N
**ClientSampleId :**
TT174I1-20250320

Tgt Ion:136 Resp: 4295

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 12.9 | 10.3 | 15.5 |
| 54 | 12.5 | 11.5 | 17.3 |
| 68 | 7.3 | 7.0 | 10.4 |

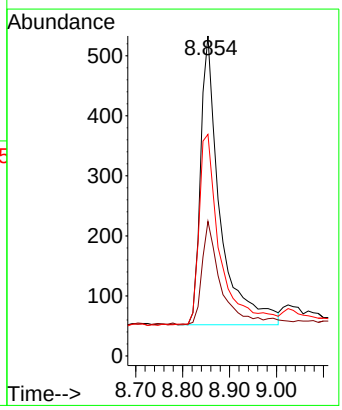


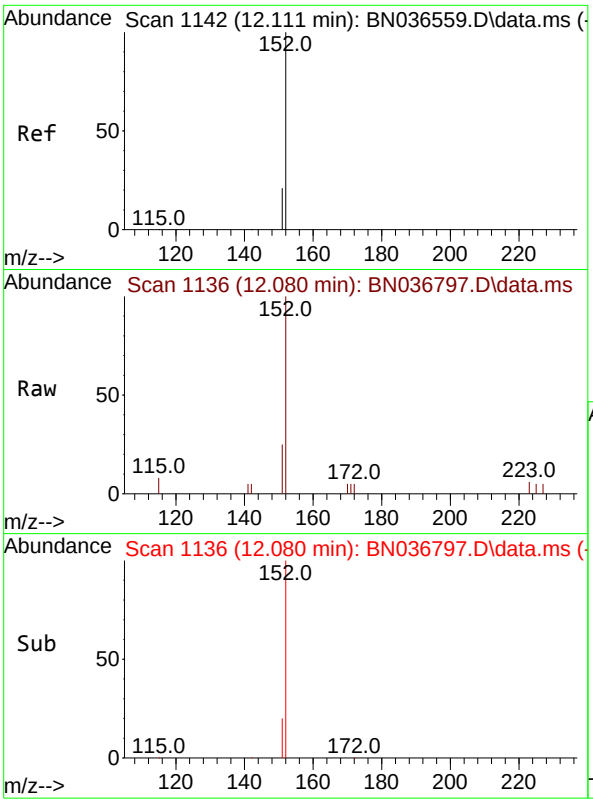




#8
Nitrobenzene-d5
Concen: 0.296 ng
RT: 8.854 min Scan# 775
Delta R.T. -0.021 min
Lab File: BN036797.D
Acq: 29 Mar 2025 06:19

Tgt Ion: 82 Resp: 1384

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 42.0 | 30.6 | 45.8 |
| 54 | 69.2 | 52.2 | 78.4 |



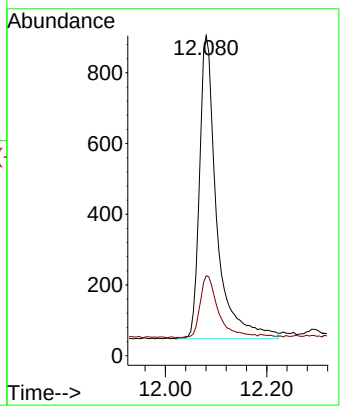


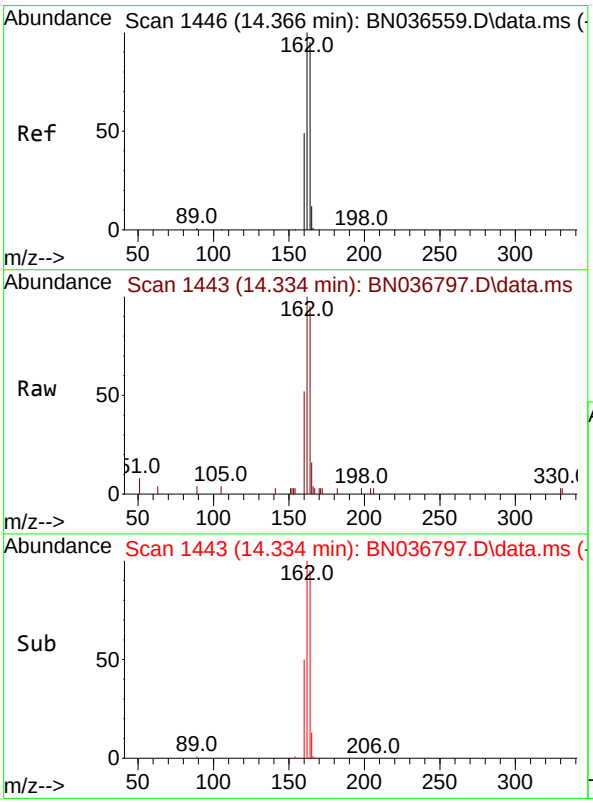

#11
2-Methylnaphthalene-d10
Concen: 0.317 ng
RT: 12.080 min Scan# 11
Delta R.T. -0.030 min
Lab File: BN036797.D
Acq: 29 Mar 2025 06:19

**Instrument :**
BNA_N
**ClientSampleId :**
TT174I1-20250320

Tgt Ion:152 Resp: 2027

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 21.8 | 17.0 | 25.6 |

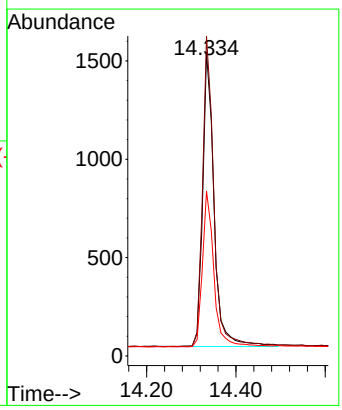


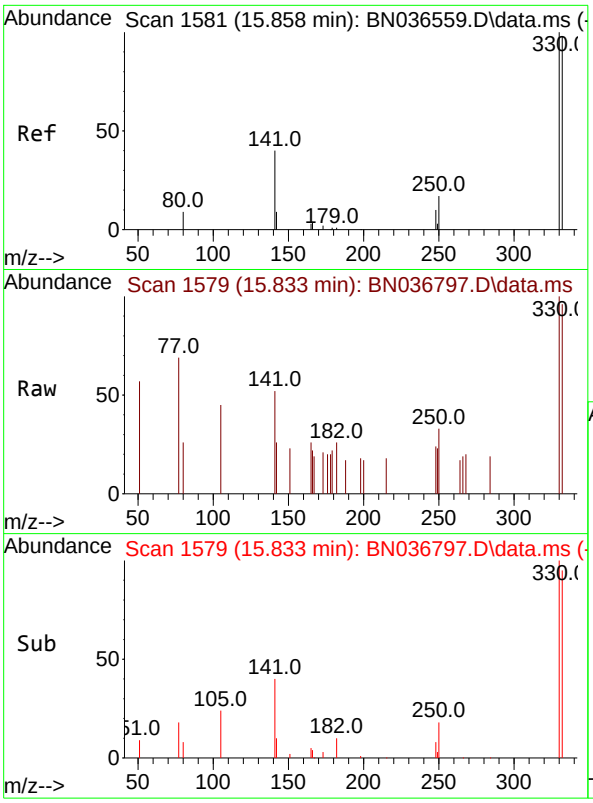




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.334 min Scan# 1443
Delta R.T. -0.032 min
Lab File: BN036797.D
Acq: 29 Mar 2025 06:19

Tgt Ion:164 Resp: 2635

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 105.4 | 84.2 | 126.2 |
| 160 | 54.4 | 42.2 | 63.2 |



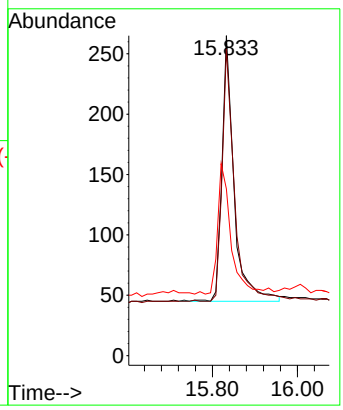


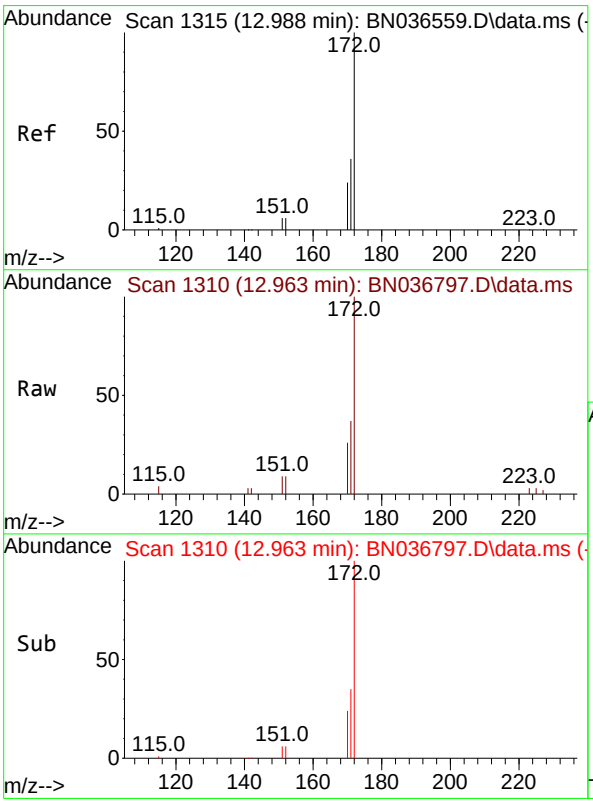

#14
2,4,6-Tribromophenol
Concen: 0.363 ng
RT: 15.833 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036797.D
Acq: 29 Mar 2025 06:19

**Instrument :**
BNA_N
**ClientSampleId :**
TT174l1-20250320

Tgt Ion:330 Resp: 434

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 97.0 | 75.2 | 112.8 |
| 141 | 54.1 | 43.4 | 65.2 |

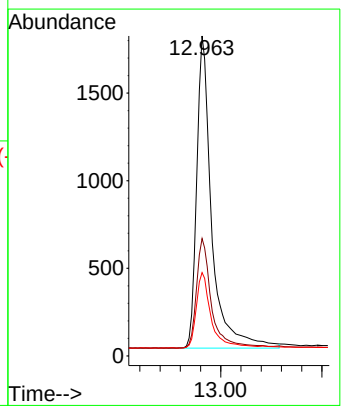


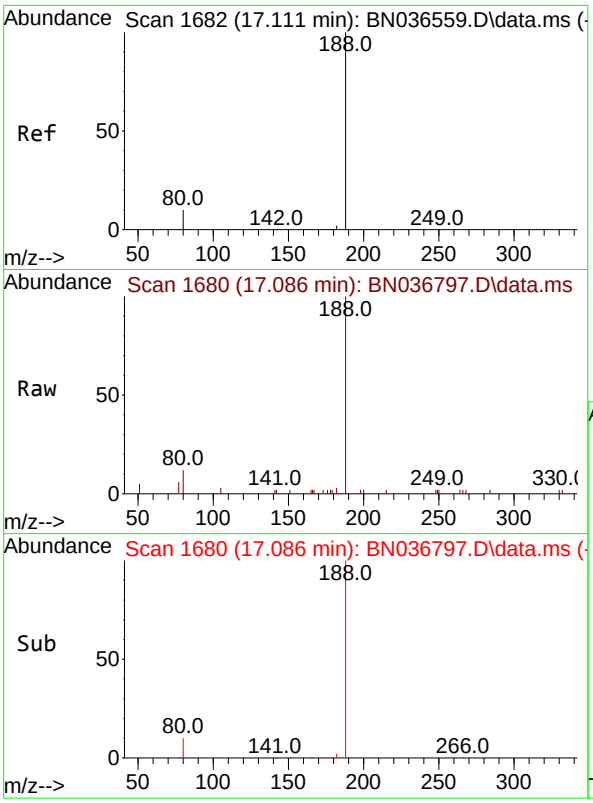




#15
2-Fluorobiphenyl
Concen: 0.314 ng
RT: 12.963 min Scan# 1310
Delta R.T. -0.025 min
Lab File: BN036797.D
Acq: 29 Mar 2025 06:19

Tgt Ion:172 Resp: 4814

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 36.7 | 29.5 | 44.3 |
| 170 | 26.1 | 20.2 | 30.4 |



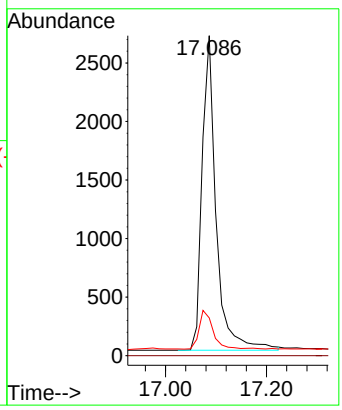


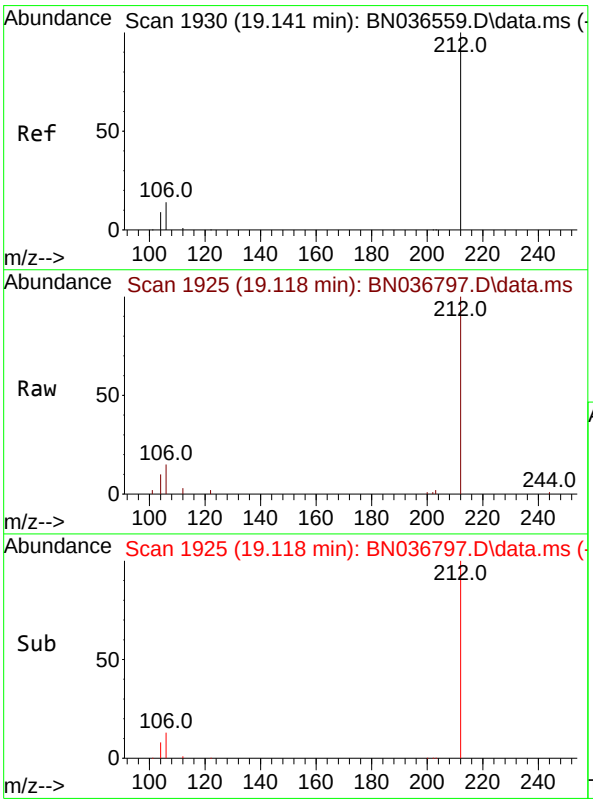

#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.086 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036797.D
Acq: 29 Mar 2025 06:19

**Instrument :**
BNA_N
**ClientSampleId :**
TT174I1-20250320

Tgt Ion:188 Resp: 5199

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 11.8 | 8.8 | 13.2 |

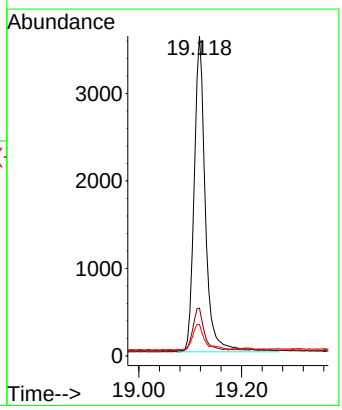


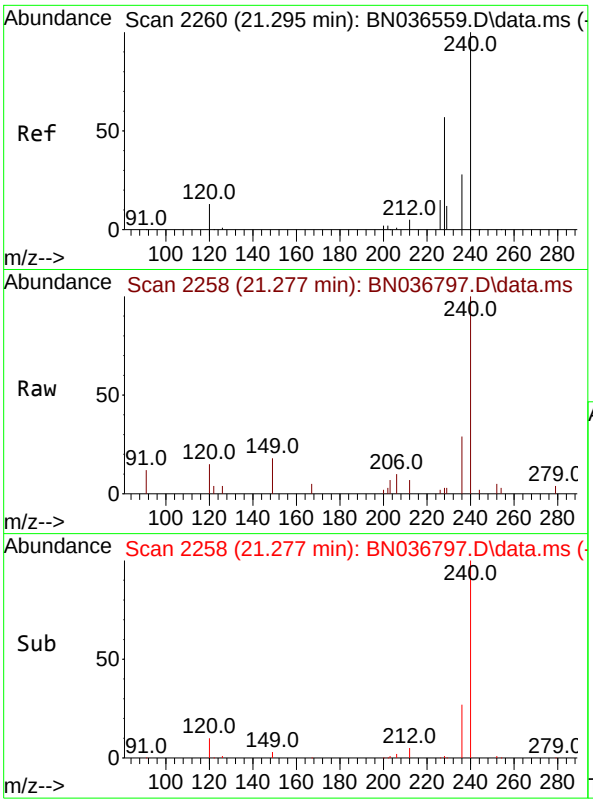




#27
Fluoranthene-d10
Concen: 0.412 ng
RT: 19.118 min Scan# 1925
Delta R.T. -0.023 min
Lab File: BN036797.D
Acq: 29 Mar 2025 06:19

Tgt Ion:212 Resp: 5488

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 13.7 | 11.8 | 17.6 |
| 104 | 8.8 | 7.3 | 10.9 |



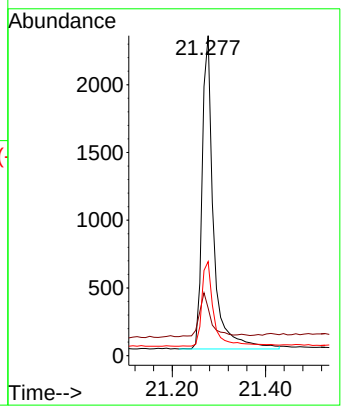


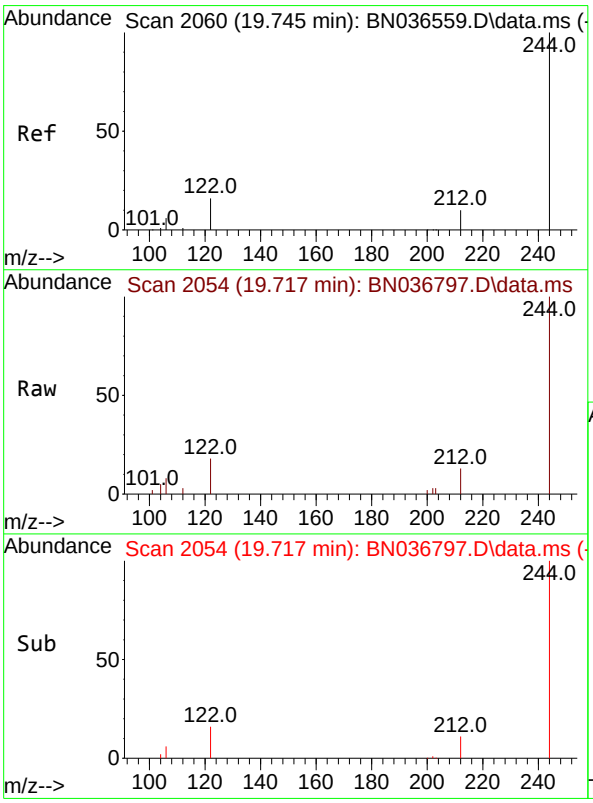

#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036797.D
Acq: 29 Mar 2025 06:19

**Instrument :**
BNA_N
**ClientSampleId :**
TT174I1-20250320

Tgt Ion:240 Resp: 3937

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 14.9 | 14.6 | 22.0 |
| 236 | 29.4 | 24.1 | 36.1 |

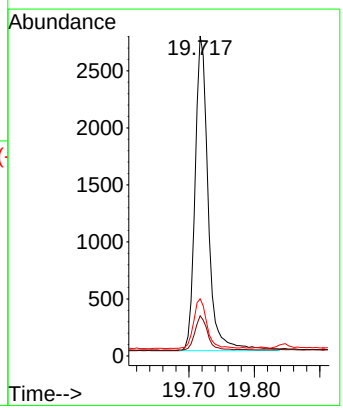


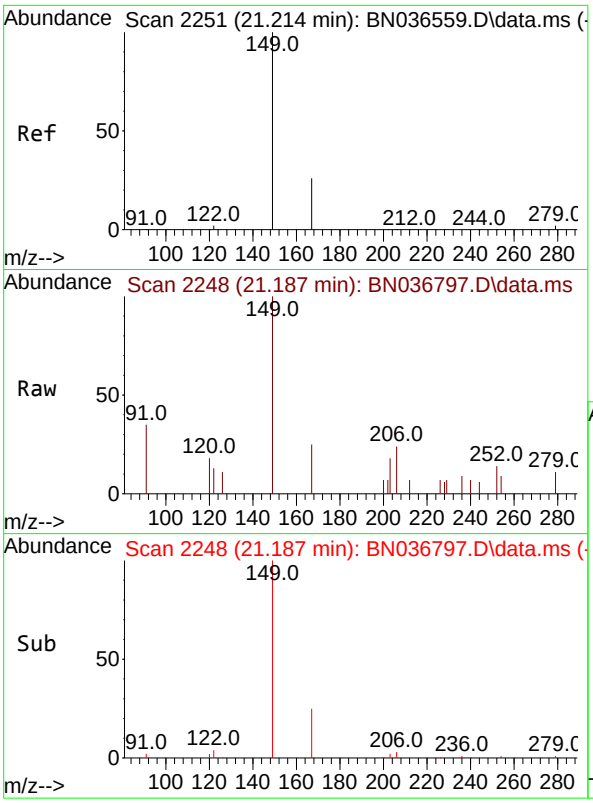




#31
Terphenyl-d14
Concen: 0.410 ng
RT: 19.717 min Scan# 2054
Delta R.T. -0.028 min
Lab File: BN036797.D
Acq: 29 Mar 2025 06:19

Tgt Ion:244 Resp: 3865

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 12.5 | 9.6 | 14.4 |
| 122 | 17.9 | 13.9 | 20.9 |



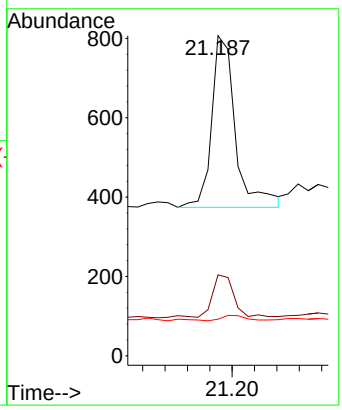


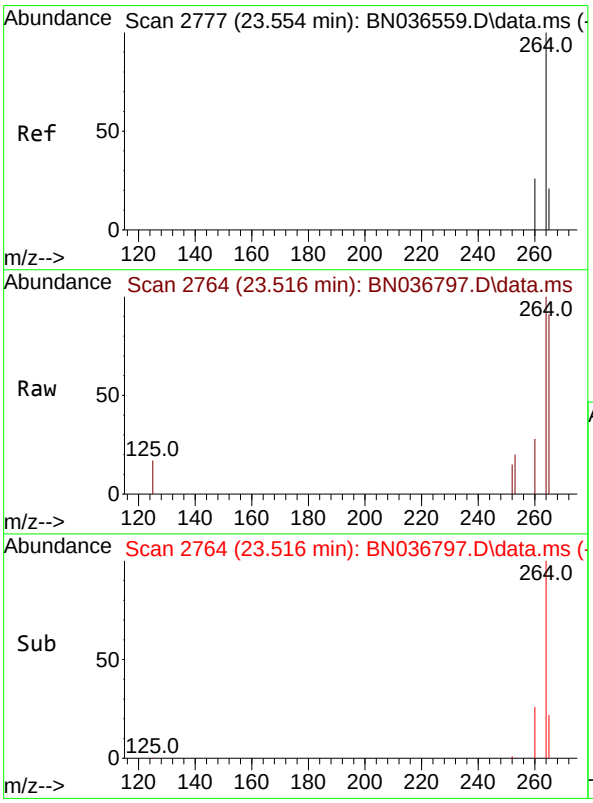

#34
Bis(2-ethylhexyl)phthalate
Concen: 0.066 ng
RT: 21.187 min Scan# 2
Delta R.T. -0.027 min
Lab File: BN036797.D
Acq: 29 Mar 2025 06:19

**Instrument :**
BNA_N
**ClientSampleId :**
TT174I1-20250320

Tgt Ion:149 Resp: 640

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 22.5 | 20.7 | 31.1 |
| 279 | 3.1 | 3.6 | 5.4# |

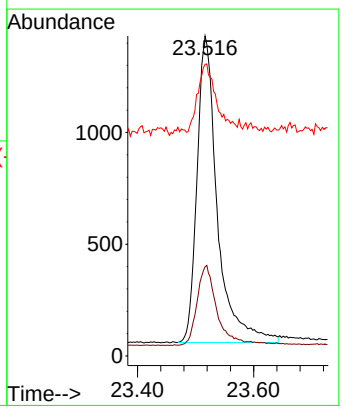



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.516 min Scan# 2764
Delta R.T. -0.038 min
Lab File: BN036797.D
Acq: 29 Mar 2025 06:19

Tgt Ion:264 Resp: 3340

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 27.9 | 22.6 | 33.8 |
| 265 | 91.1 | 88.1 | 132.1 |



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: | 03/20/25 |
| Project: | NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258 | Date Received: | 03/21/25 |
| Client Sample ID: | TT162S1-20250320 | SDG No.: | Q1629 |
| Lab Sample ID: | Q1629-02 | 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 |
|---|---|---|---|---|
| BN036798.D | 1 | 03/25/25 08:41 | 03/29/25 06:56 | PB167295 |

| 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 | 0.31 | | 30 - 150 | | 77% | SPK: 0.4 |
| 93951-69-0 | Fluoranthene-d10 | 0.42 | | 30 - 150 | | 106% | SPK: 0.4 |
| 4165-60-0 | Nitrobenzene-d5 | 0.26 | | 55 - 111 | | 66% | SPK: 0.4 |
| 321-60-8 | 2-Fluorobiphenyl | 0.29 | | 53 - 106 | | 72% | SPK: 0.4 |
| 1718-51-0 | Terphenyl-d14 | 0.42 | | 58 - 132 | | 106% | SPK: 0.4 |
| **INTERNAL STANDARDS** | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 1620 | 7.695 | | | | |
| 1146-65-2 | Naphthalene-d8 | 3710 | 10.487 | | | | |
| 15067-26-2 | Acenaphthene-d10 | 2380 | 14.334 | | | | |
| 1517-22-2 | Phenanthrene-d10 | 5160 | 17.086 | | | | |
| 1719-03-5 | Chrysene-d12 | 4060 | 21.277 | | | | |
| 1520-96-3 | Perylene-d12 | 3120 | 23.516 | | | | |

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\BN032825\
Data File : BN036798.D
Acq On : 29 Mar 2025 06:56
Operator : RC/JU
Sample : Q1629-02
Misc :
ALS Vial : 29 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
TT162S1-20250320

Quant Time: Mar 31 01:58:25 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

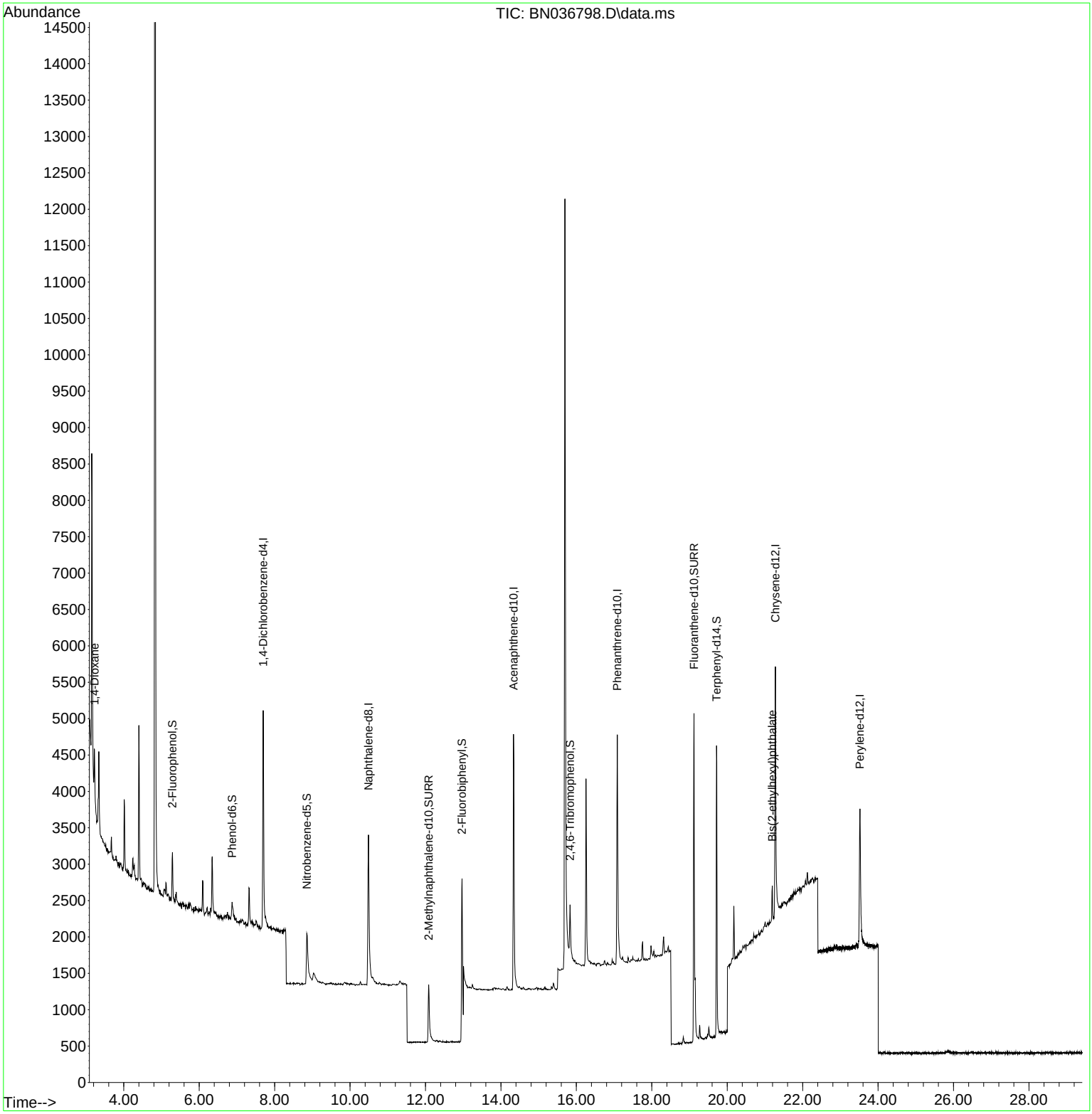
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.695 | 152 | 1621 | 0.400 | ng | -0.03 |
| 7) Naphthalene-d8 | 10.487 | 136 | 3708 | 0.400 | ng | -0.02 |
| 13) Acenaphthene-d10 | 14.334 | 164 | 2378 | 0.400 | ng | -0.03 |
| 19) Phenanthrene-d10 | 17.086 | 188 | 5161 | 0.400 | ng | -0.02 |
| 29) Chrysene-d12 | 21.277 | 240 | 4055 | 0.400 | ng | -0.02 |
| 35) Perylene-d12 | 23.516 | 264 | 3123 | 0.400 | ng | -0.04 |
| System Monitoring Compounds | | | | | | |
| 4) 2-Fluorophenol | 5.290 | 112 | 487 | 0.129 | ng | -0.02 |
| 5) Phenol-d6 | 6.872 | 99 | 301 | 0.065 | ng | -0.03 |
| 8) Nitrobenzene-d5 | 8.854 | 82 | 1064 | 0.264 | ng | -0.02 |
| 11) 2-Methylnaphthalene-d10 | 12.085 | 152 | 1700 | 0.308 | ng | -0.03 |
| 14) 2,4,6-Tribromophenol | 15.833 | 330 | 462 | 0.428 | ng | -0.02 |
| 15) 2-Fluorobiphenyl | 12.968 | 172 | 3996 | 0.289 | ng | -0.02 |
| 27) Fluoranthene-d10 | 19.118 | 212 | 5594 | 0.423 | ng | -0.02 |
| 31) Terphenyl-d14 | 19.717 | 244 | 4117 | 0.424 | ng | -0.03 |
| Target Compounds | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.225 | 88 | 422 | 0.235 | ng | # 53 |
| 34) Bis(2-ethylhexyl)phtha... | 21.196 | 149 | 580 | 0.058 | ng | 95 |

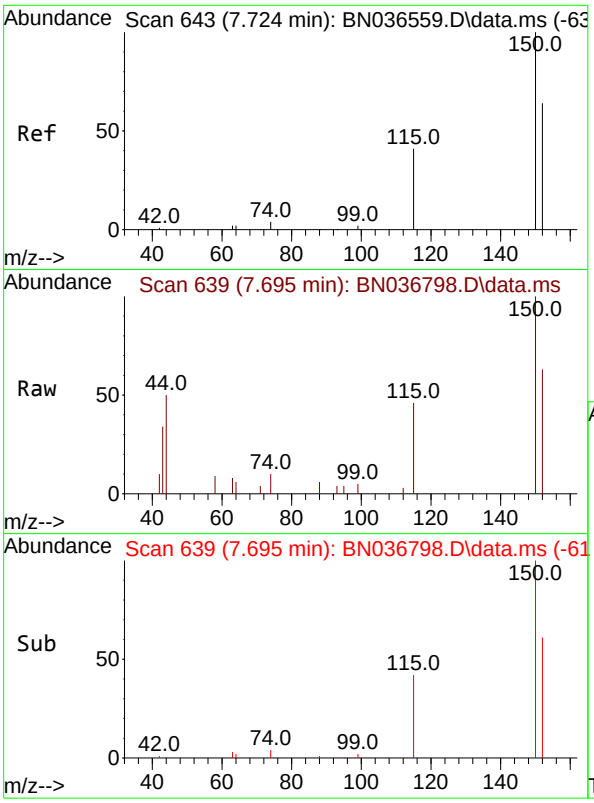
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032825\
Data File : BN036798.D
Acq On : 29 Mar 2025 06:56
Operator : RC/JU
Sample : Q1629-02
Misc :
ALS Vial : 29 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
TT162S1-20250320

Quant Time: Mar 31 01:58:25 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration



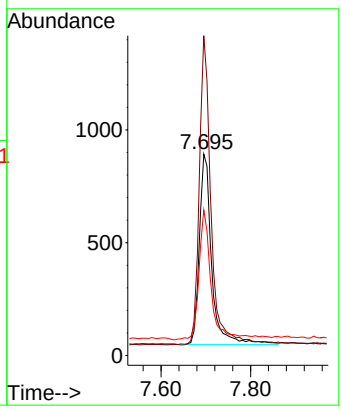


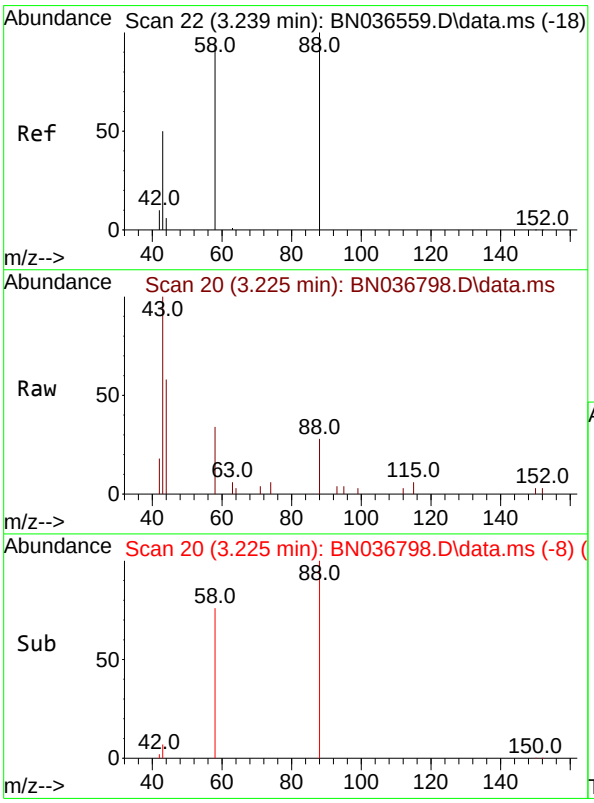

#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.695 min Scan# 6
Delta R.T. -0.029 min
Lab File: BN036798.D
Acq: 29 Mar 2025 06:56

**Instrument :**
BNA_N
**ClientSampleId :**
TT162S1-20250320

Tgt Ion:152 Resp: 1621

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 158.8 | 123.7 | 185.5 |
| 115 | 72.3 | 54.3 | 81.5 |

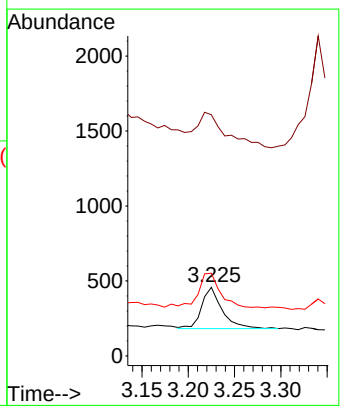


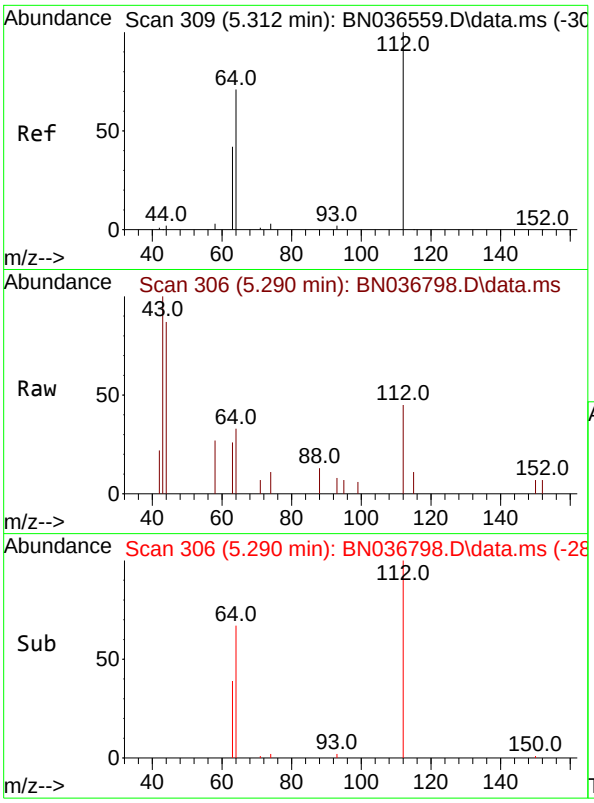




#2
1,4-Dioxane
Concen: 0.235 ng
RT: 3.225 min Scan# 20
Delta R.T. -0.014 min
Lab File: BN036798.D
Acq: 29 Mar 2025 06:56

Tgt Ion: 88 Resp: 422

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 125.1 | 37.8 | 56.8# |
| 58 | 92.4 | 67.4 | 101.2 |



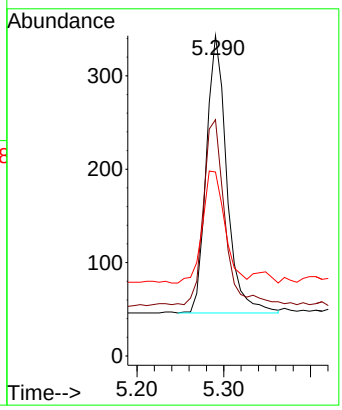


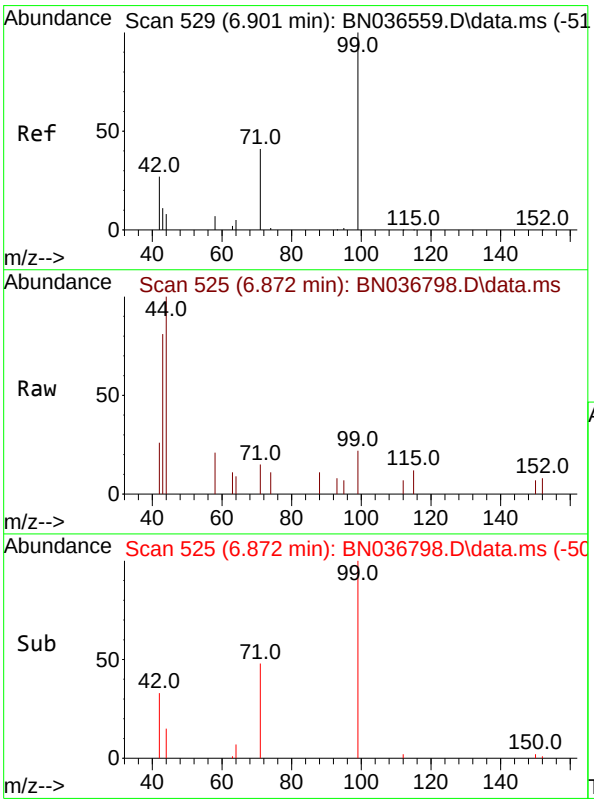

#4
2-Fluorophenol
Concen: 0.129 ng
RT: 5.290 min Scan# 3
Delta R.T. -0.022 min
Lab File: BN036798.D
Acq: 29 Mar 2025 06:56

**Instrument :**
BNA_N
**ClientSampleId :**
TT162S1-20250320

Tgt Ion:112 Resp: 487

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 71.0 | 53.1 | 79.7 |
| 63 | 43.7 | 31.8 | 47.8 |

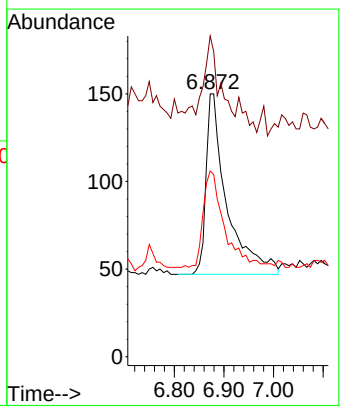


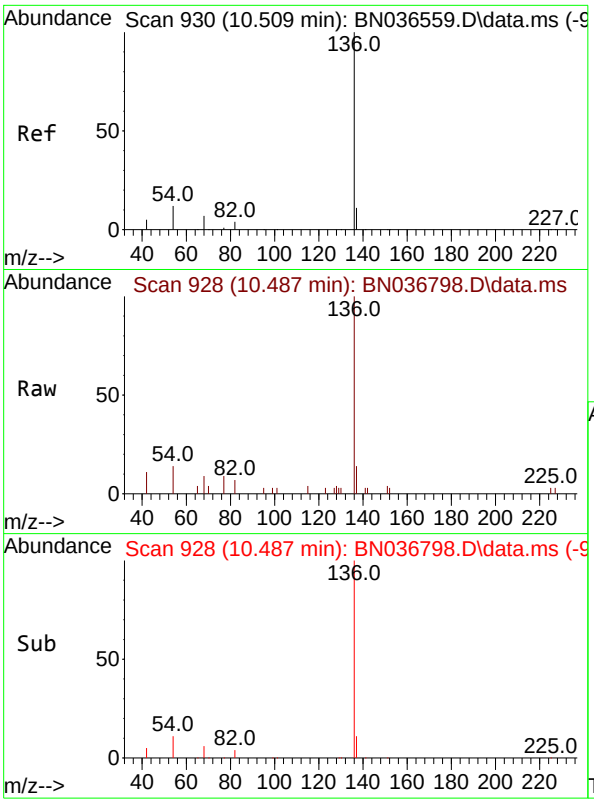




#5
Phenol-d6
Concen: 0.065 ng
RT: 6.872 min Scan# 525
Delta R.T. -0.029 min
Lab File: BN036798.D
Acq: 29 Mar 2025 06:56

Tgt Ion: 99 Resp: 301

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 30.2 | 26.5 | 39.7 |
| 71 | 55.5 | 34.1 | 51.1# |



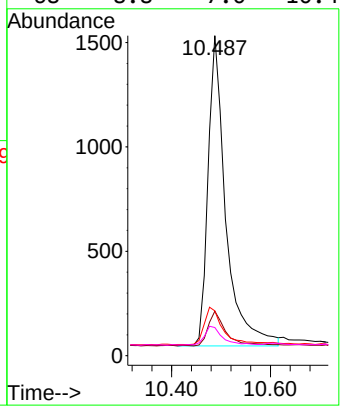


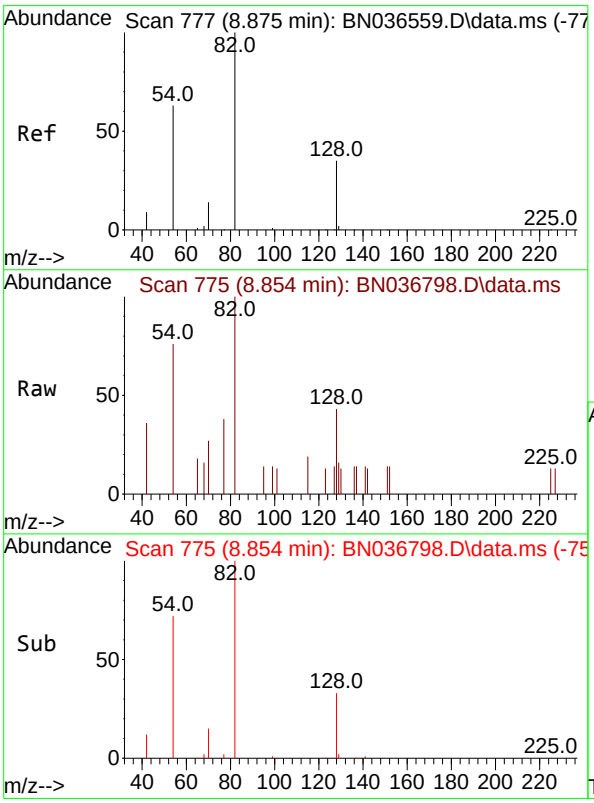

#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.487 min Scan# 9
Delta R.T. -0.021 min
Lab File: BN036798.D
Acq: 29 Mar 2025 06:56

**Instrument :**
BNA_N
**ClientSampleId :**
TT162S1-20250320

Tgt Ion:136 Resp: 3708

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 13.9 | 10.3 | 15.5 |
| 54 | 14.0 | 11.5 | 17.3 |
| 68 | 8.8 | 7.0 | 10.4 |

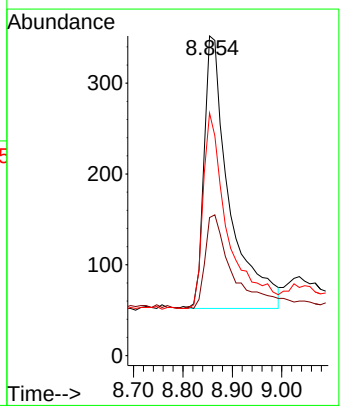


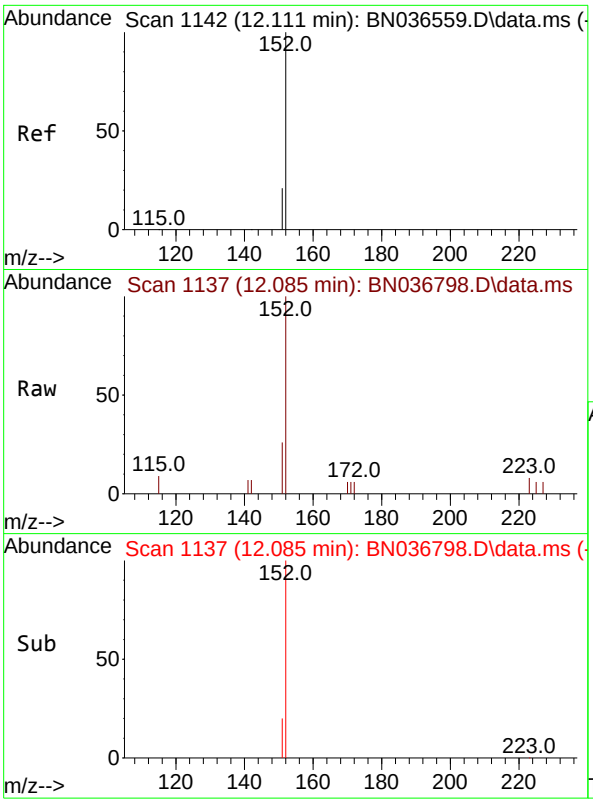




#8
Nitrobenzene-d5
Concen: 0.264 ng
RT: 8.854 min Scan# 775
Delta R.T. -0.021 min
Lab File: BN036798.D
Acq: 29 Mar 2025 06:56

Tgt Ion: 82 Resp: 1064

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 43.2 | 30.6 | 45.8 |
| 54 | 75.9 | 52.2 | 78.4 |



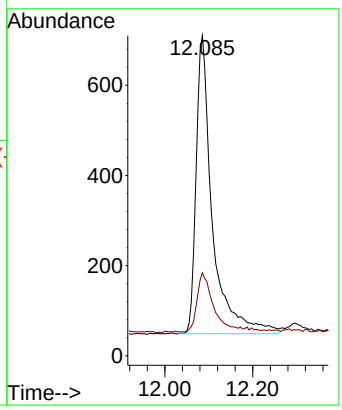


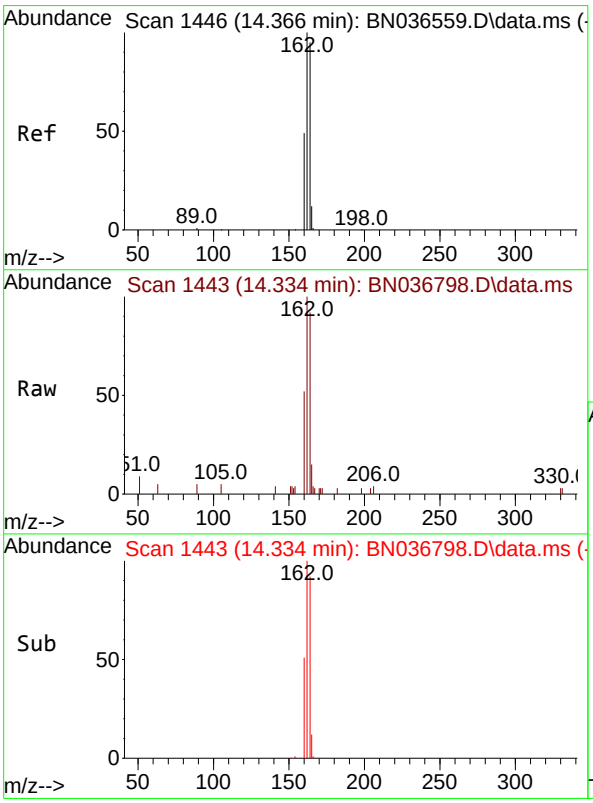

#11
2-Methylnaphthalene-d10
Concen: 0.308 ng
RT: 12.085 min Scan# 11
Delta R.T. -0.025 min
Lab File: BN036798.D
Acq: 29 Mar 2025 06:56

**Instrument :**
BNA_N
**ClientSampleId :**
TT162S1-20250320

Tgt Ion:152 Resp: 1700

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.0 | 17.0 | 25.6 |

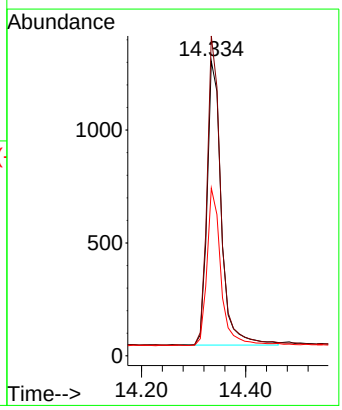


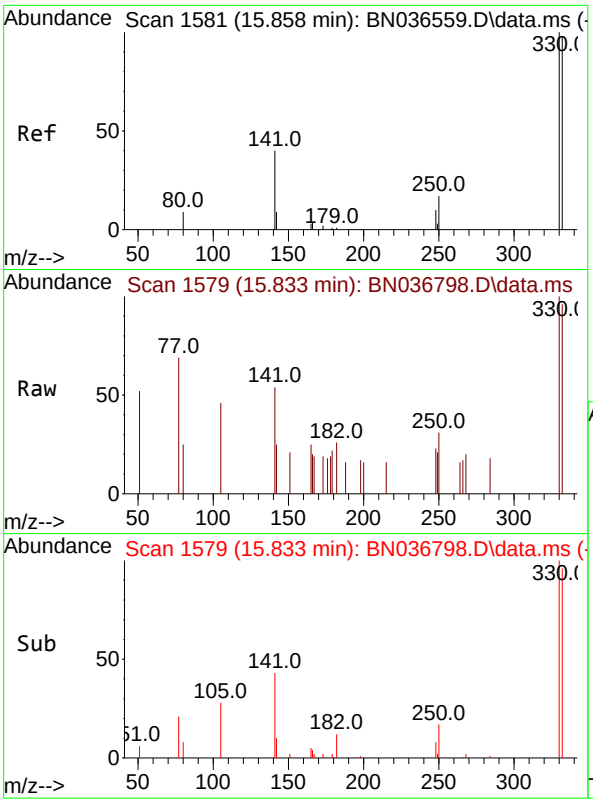




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.334 min Scan# 1443
Delta R.T. -0.032 min
Lab File: BN036798.D
Acq: 29 Mar 2025 06:56

Tgt Ion:164 Resp: 2378

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 108.6 | 84.2 | 126.2 |
| 160 | 56.9 | 42.2 | 63.2 |



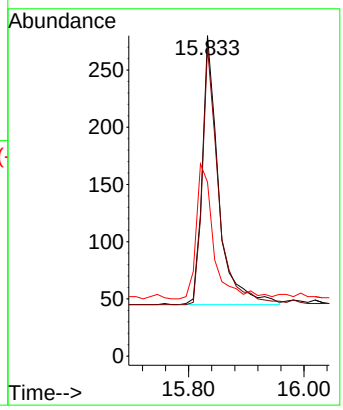


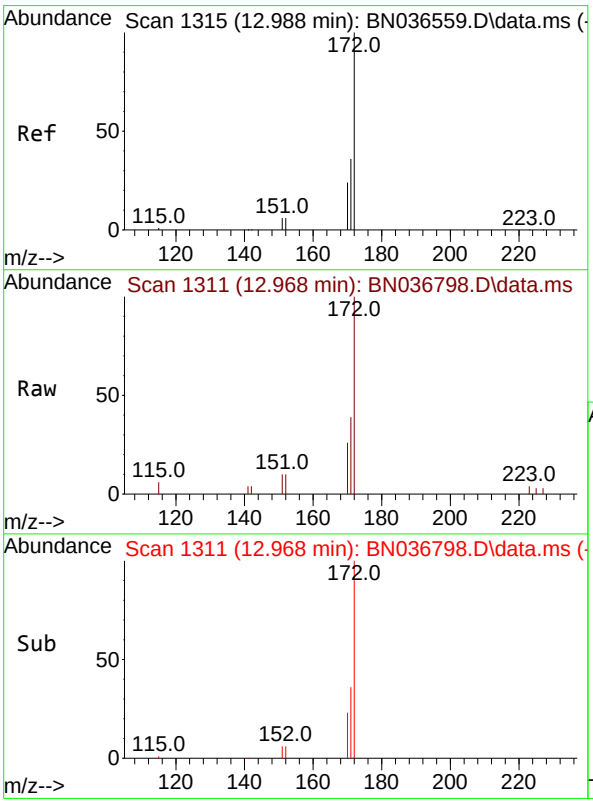

#14
2,4,6-Tribromophenol
Concen: 0.428 ng
RT: 15.833 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036798.D
Acq: 29 Mar 2025 06:56

**Instrument :**
BNA_N
**ClientSampleId :**
TT162S1-20250320

Tgt Ion:330 Resp: 462

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 95.0 | 75.2 | 112.8 |
| 141 | 53.9 | 43.4 | 65.2 |

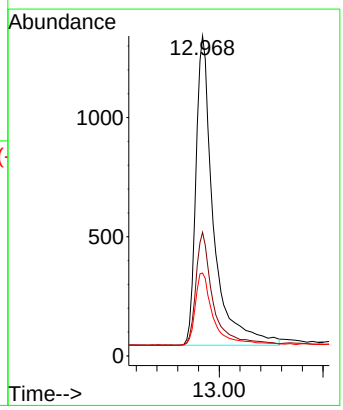


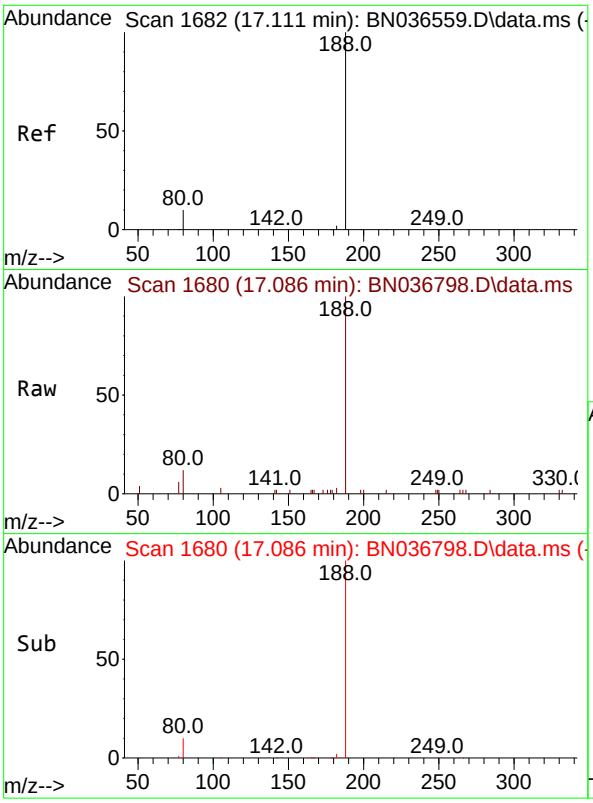




#15
2-Fluorobiphenyl
Concen: 0.289 ng
RT: 12.968 min Scan# 1311
Delta R.T. -0.020 min
Lab File: BN036798.D
Acq: 29 Mar 2025 06:56

Tgt Ion:172 Resp: 3996

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 38.7 | 29.5 | 44.3 |
| 170 | 25.9 | 20.2 | 30.4 |



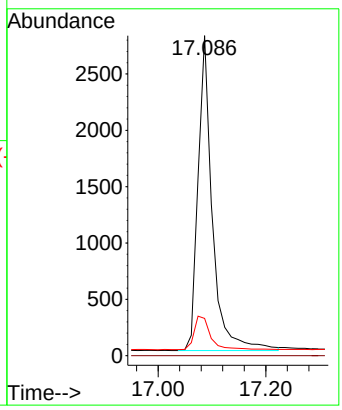


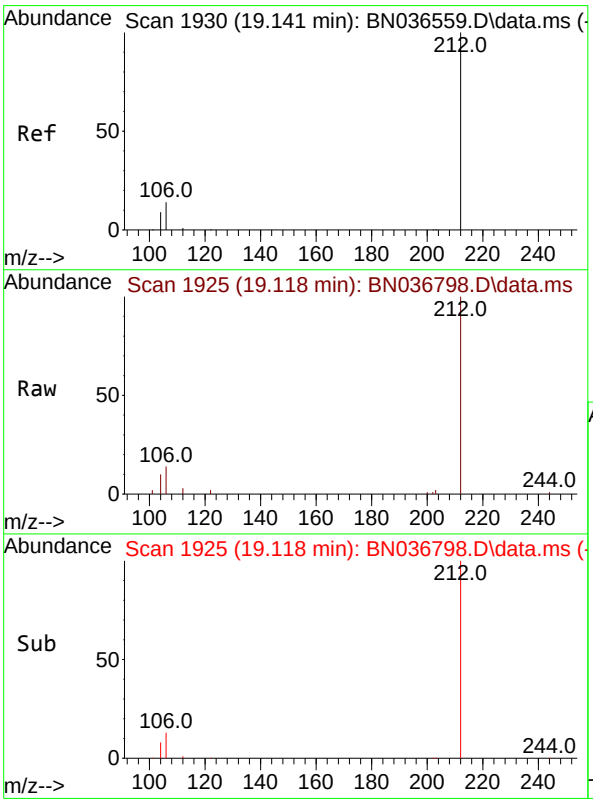

#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.086 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036798.D
Acq: 29 Mar 2025 06:56

**Instrument :**
BNA_N
**ClientSampleId :**
TT162S1-20250320

Tgt Ion:188 Resp: 5161

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 11.7 | 8.8 | 13.2 |

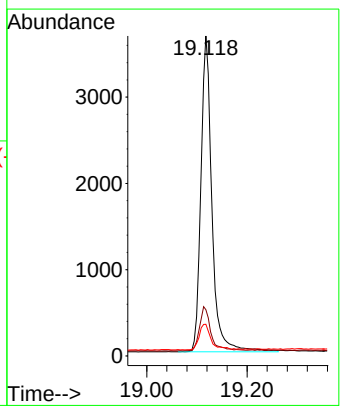


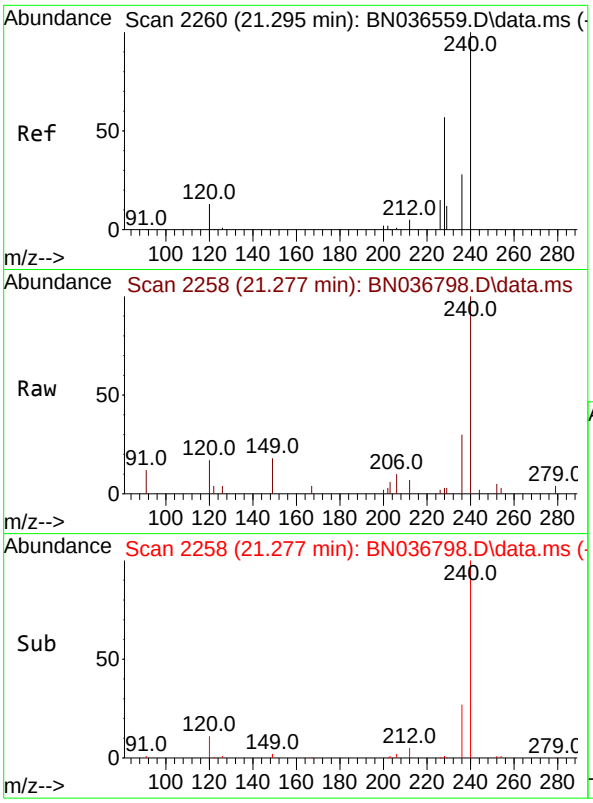




#27
Fluoranthene-d10
Concen: 0.423 ng
RT: 19.118 min Scan# 1925
Delta R.T. -0.023 min
Lab File: BN036798.D
Acq: 29 Mar 2025 06:56

Tgt Ion:212 Resp: 5594

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 14.4 | 11.8 | 17.6 |
| 104 | 8.8 | 7.3 | 10.9 |



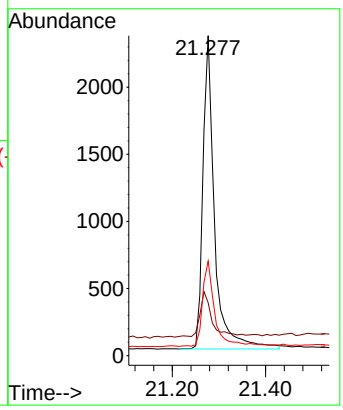


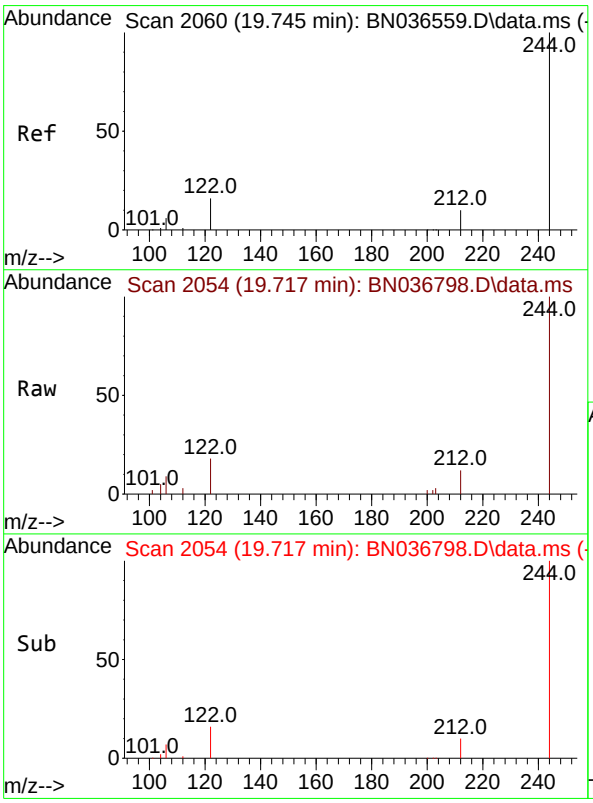

#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036798.D
Acq: 29 Mar 2025 06:56

**Instrument :**
BNA_N
**ClientSampleId :**
TT162S1-20250320

Tgt Ion:240 Resp: 4055

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 16.5 | 14.6 | 22.0 |
| 236 | 29.5 | 24.1 | 36.1 |

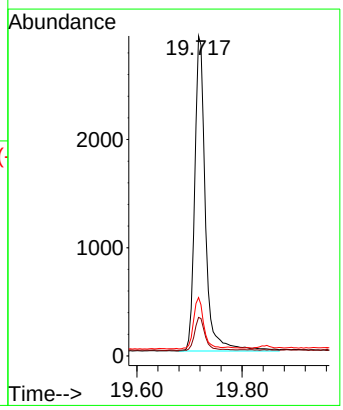


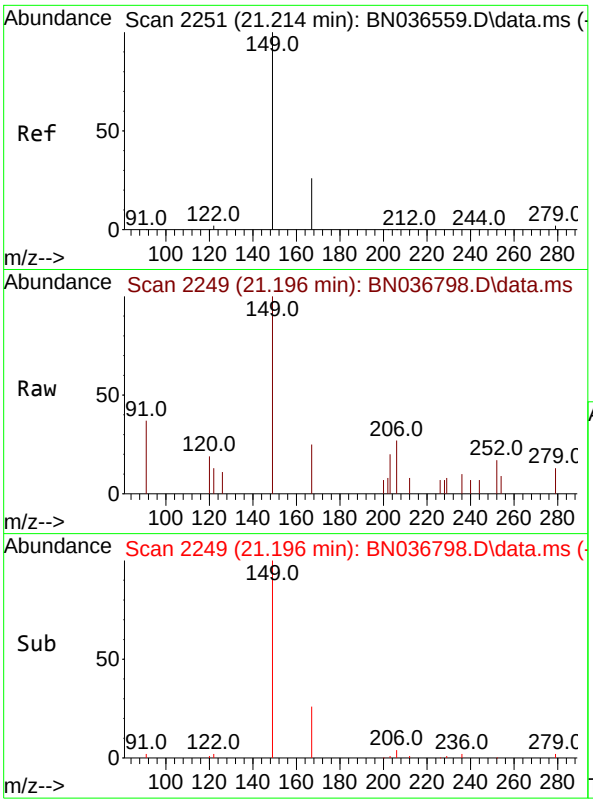




#31
Terphenyl-d14
Concen: 0.424 ng
RT: 19.717 min Scan# 2054
Delta R.T. -0.028 min
Lab File: BN036798.D
Acq: 29 Mar 2025 06:56

Tgt Ion:244 Resp: 4117

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 12.0 | 9.6 | 14.4 |
| 122 | 18.3 | 13.9 | 20.9 |



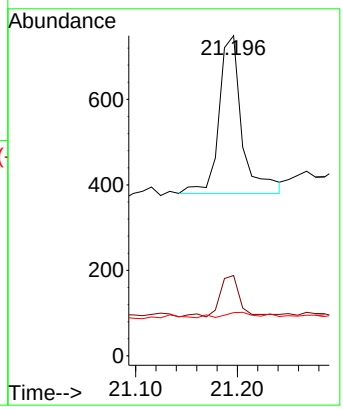


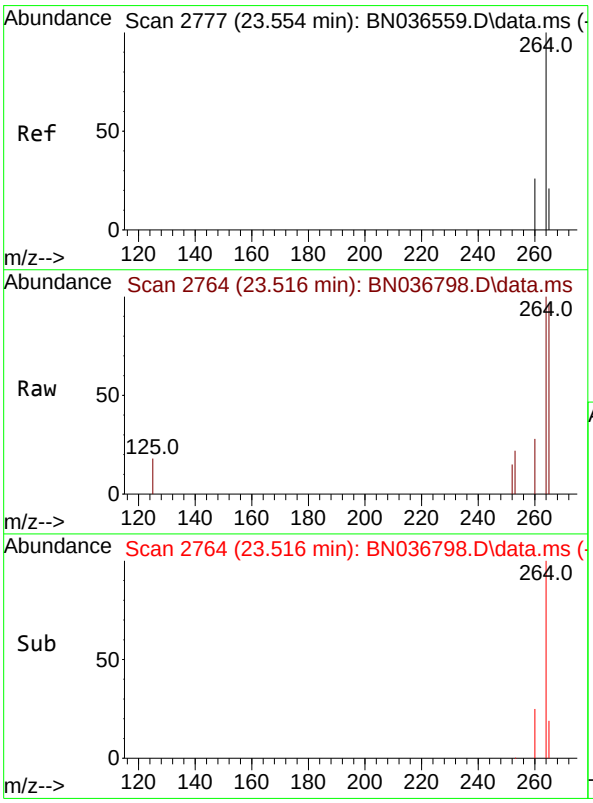

#34
Bis(2-ethylhexyl)phthalate
Concen: 0.058 ng
RT: 21.196 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036798.D
Acq: 29 Mar 2025 06:56

**Instrument :**
BNA_N
**ClientSampleId :**
TT162S1-20250320

Tgt Ion:149 Resp: 580

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 22.9 | 20.7 | 31.1 |
| 279 | 4.5 | 3.6 | 5.4 |

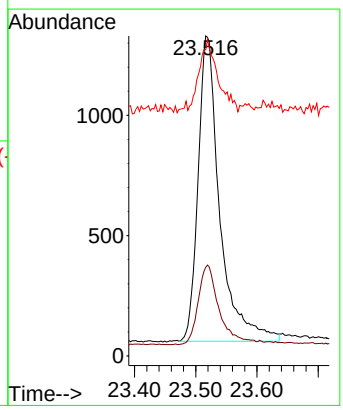



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.516 min Scan# 2764
Delta R.T. -0.038 min
Lab File: BN036798.D
Acq: 29 Mar 2025 06:56

Tgt Ion:264 Resp: 3123

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 27.7 | 22.6 | 33.8 |
| 265 | 95.6 | 88.1 | 132.1 |



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: | 03/20/25 |
| Project: | NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258 | Date Received: | 03/21/25 |
| Client Sample ID: | TT188S1-20250320 | SDG No.: | Q1629 |
| Lab Sample ID: | Q1629-03 | 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 |
|---|---|---|---|---|
| BN036768.D | 1 | 03/25/25 08:41 | 03/28/25 11:34 | PB167295 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 123-91-1 | 1,4-Dioxane | 0.15 | J | 0.070 | 0.20 | 0.20 | ug/L |
| **SURROGATES** | | | | | | | |
| 7297-45-2 | 2-Methylnaphthalene-d10 | 0.32 | | 30 - 150 | | 80% | SPK: 0.4 |
| 93951-69-0 | Fluoranthene-d10 | 0.44 | | 30 - 150 | | 110% | SPK: 0.4 |
| 4165-60-0 | Nitrobenzene-d5 | 0.30 | | 55 - 111 | | 74% | SPK: 0.4 |
| 321-60-8 | 2-Fluorobiphenyl | 0.32 | | 53 - 106 | | 81% | SPK: 0.4 |
| 1718-51-0 | Terphenyl-d14 | 0.38 | | 58 - 132 | | 94% | SPK: 0.4 |
| **INTERNAL STANDARDS** | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 1850 | 7.696 | | | | |
| 1146-65-2 | Naphthalene-d8 | 4440 | 10.488 | | | | |
| 15067-26-2 | Acenaphthene-d10 | 2730 | 14.334 | | | | |
| 1517-22-2 | Phenanthrene-d10 | 6130 | 17.087 | | | | |
| 1719-03-5 | Chrysene-d12 | 5470 | 21.277 | | | | |
| 1520-96-3 | Perylene-d12 | 4750 | 23.519 | | | | |

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\BN032725\
Data File : BN036768.D
Acq On : 28 Mar 2025 11:34
Operator : RC/JU
Sample : Q1629-03
Misc :
ALS Vial : 33 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
TT188S1-20250320

Quant Time: Mar 28 12:21:28 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

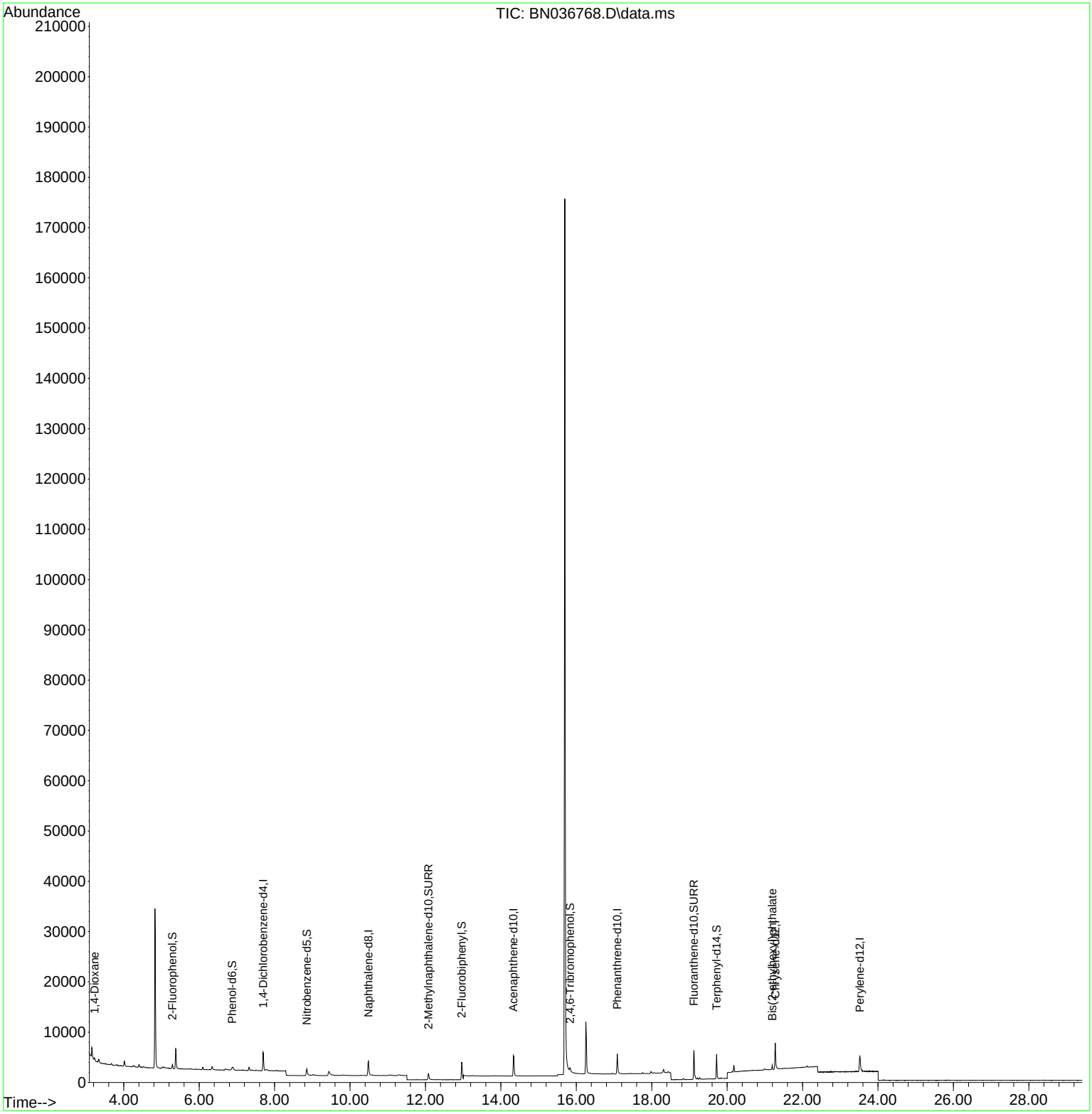
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.696 | 152 | 1850 | 0.400 | ng | -0.03 |
| 7) Naphthalene-d8 | 10.488 | 136 | 4438 | 0.400 | ng | -0.02 |
| 13) Acenaphthene-d10 | 14.334 | 164 | 2727 | 0.400 | ng | -0.03 |
| 19) Phenanthrene-d10 | 17.087 | 188 | 6125 | 0.400 | ng | -0.02 |
| 29) Chrysene-d12 | 21.277 | 240 | 5473 | 0.400 | ng | -0.02 |
| 35) Perylene-d12 | 23.519 | 264 | 4747 | 0.400 | ng | #-0.03 |
| System Monitoring Compounds | | | | | | |
| 4) 2-Fluorophenol | 5.291 | 112 | 575 | 0.133 | ng | -0.02 |
| 5) Phenol-d6 | 6.872 | 99 | 399 | 0.075 | ng | -0.03 |
| 8) Nitrobenzene-d5 | 8.854 | 82 | 1429 | 0.296 | ng | -0.02 |
| 11) 2-Methylnaphthalene-d10 | 12.081 | 152 | 2118 | 0.321 | ng | -0.03 |
| 14) 2,4,6-Tribromophenol | 15.833 | 330 | 439 | 0.355 | ng | -0.02 |
| 15) 2-Fluorobiphenyl | 12.963 | 172 | 5133 | 0.324 | ng | -0.03 |
| 27) Fluoranthene-d10 | 19.118 | 212 | 6928 | 0.441 | ng | -0.02 |
| 31) Terphenyl-d14 | 19.722 | 244 | 4946 | 0.377 | ng | -0.02 |
| Target Compounds | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.225 | 88 | 302 | 0.147 | ng | # 35 |
| 34) Bis(2-ethylhexyl)phtha... | 21.196 | 149 | 813 | 0.060 | ng | 99 |

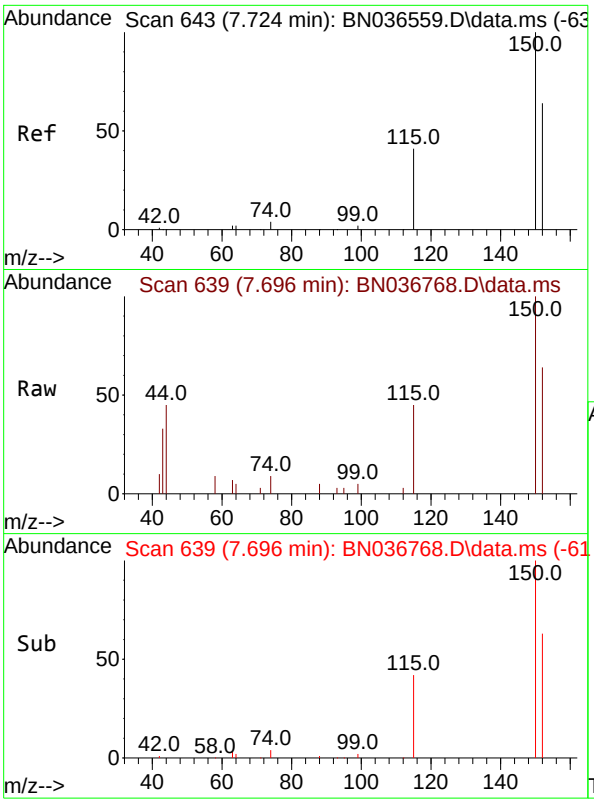
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036768.D
Acq On : 28 Mar 2025 11:34
Operator : RC/JU
Sample : Q1629-03
Misc :
ALS Vial : 33 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
TT188S1-20250320

Quant Time: Mar 28 12:21:28 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration



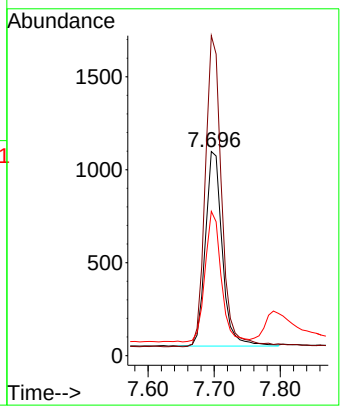


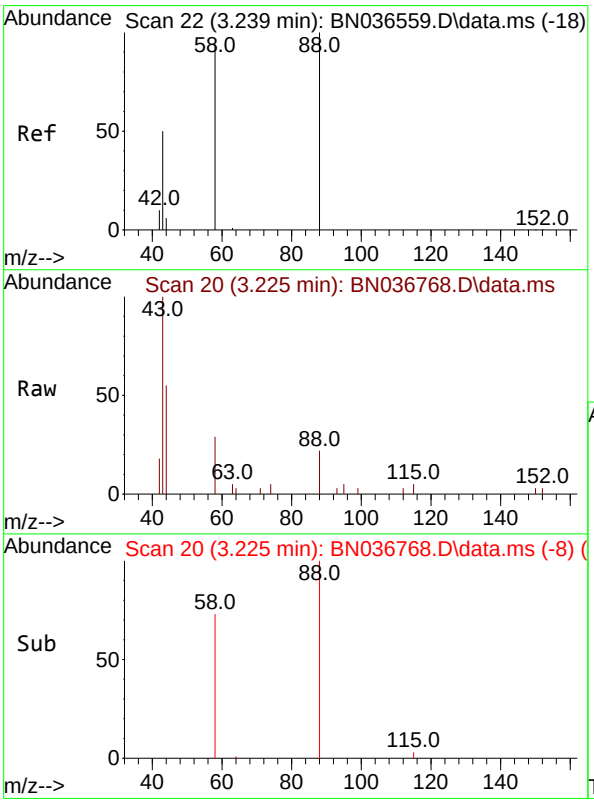

#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.696 min Scan# 6
Delta R.T. -0.028 min
Lab File: BN036768.D
Acq: 28 Mar 2025 11:34

**Instrument :**
BNA_N
**ClientSampleId :**
TT188S1-20250320

Tgt Ion:152 Resp: 1850

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 156.7 | 123.7 | 185.5 |
| 115 | 70.7 | 54.3 | 81.5 |

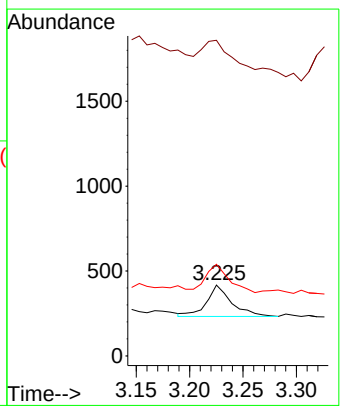


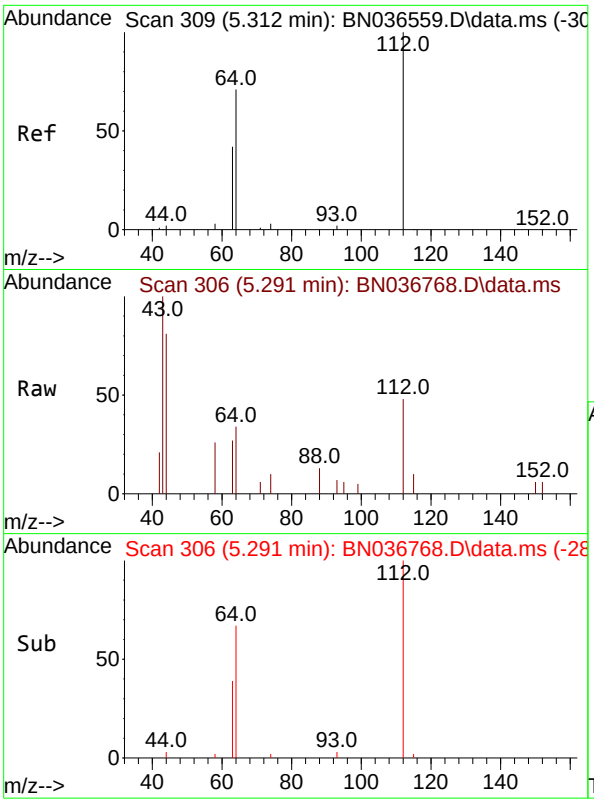




#2
1,4-Dioxane
Concen: 0.147 ng
RT: 3.225 min Scan# 20
Delta R.T. -0.014 min
Lab File: BN036768.D
Acq: 28 Mar 2025 11:34

Tgt Ion: 88 Resp: 302

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 164.6 | 37.8 | 56.8# |
| 58 | 81.8 | 67.4 | 101.2 |



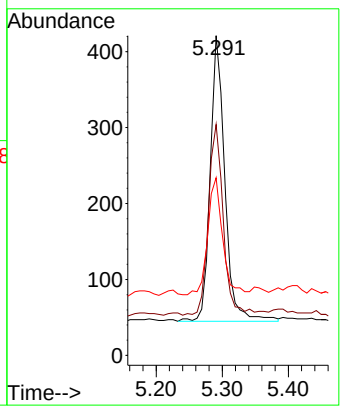


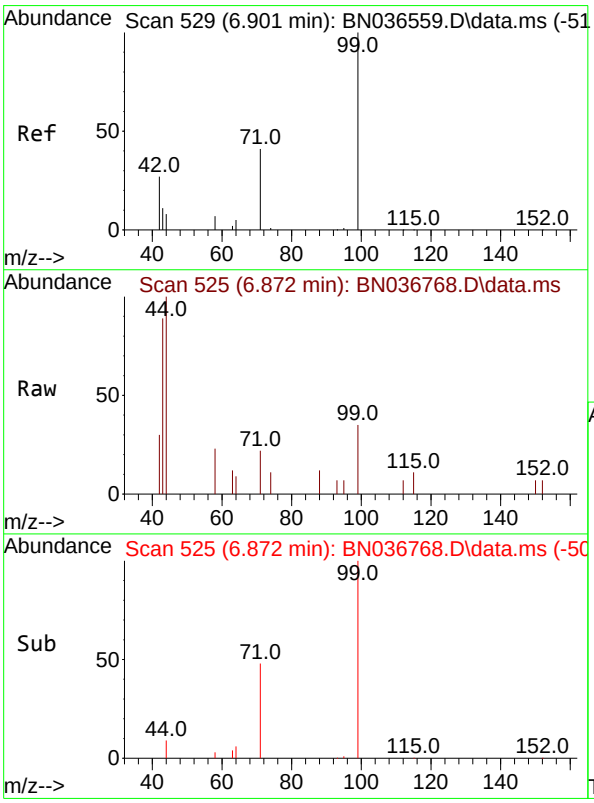

#4
2-Fluorophenol
Concen: 0.133 ng
RT: 5.291 min Scan# 3
Delta R.T. -0.021 min
Lab File: BN036768.D
Acq: 28 Mar 2025 11:34

**Instrument :**
BNA_N
**ClientSampleId :**
TT188S1-20250320

Tgt Ion:112 Resp: 575

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 68.0 | 53.1 | 79.7 |
| 63 | 41.2 | 31.8 | 47.8 |

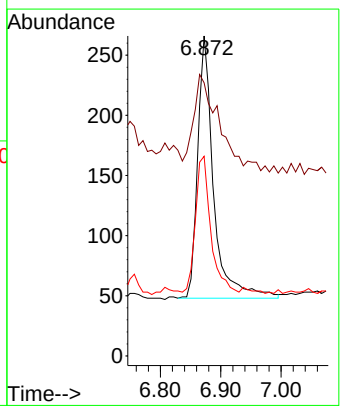


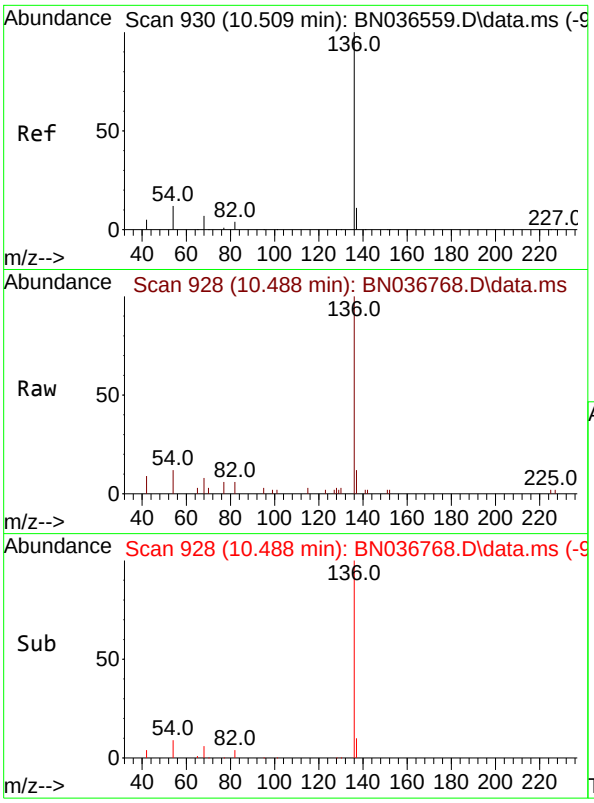




#5
Phenol-d6
Concen: 0.075 ng
RT: 6.872 min Scan# 525
Delta R.T. -0.029 min
Lab File: BN036768.D
Acq: 28 Mar 2025 11:34

Tgt Ion: 99 Resp: 399

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 60.9 | 26.5 | 39.7# |
| 71 | 51.4 | 34.1 | 51.1# |



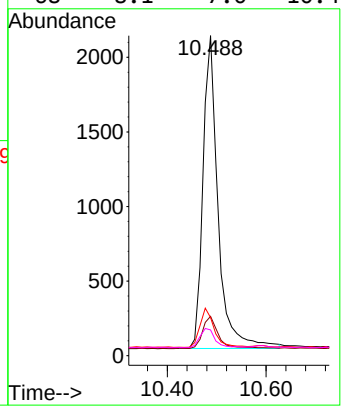


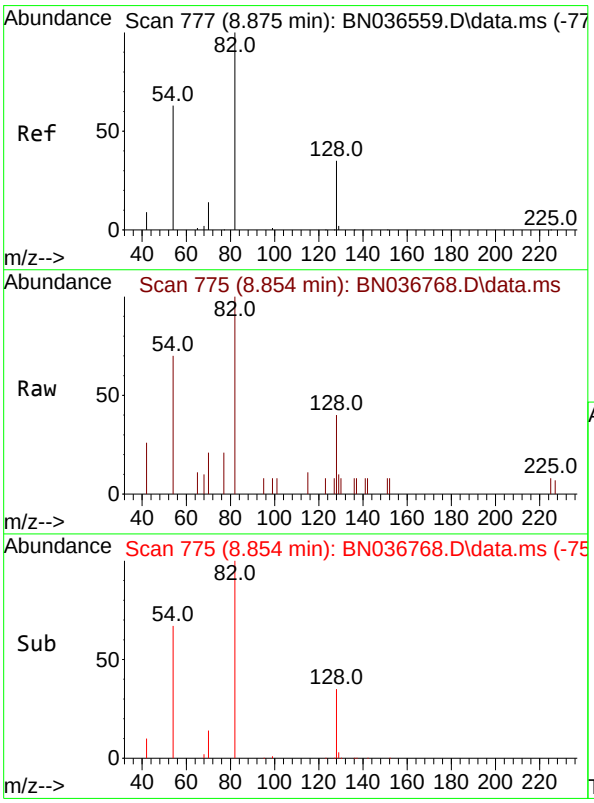

#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.488 min Scan# 9
Delta R.T. -0.021 min
Lab File: BN036768.D
Acq: 28 Mar 2025 11:34

**Instrument :**
BNA_N
**ClientSampleId :**
TT188S1-20250320

Tgt Ion:136 Resp: 4438

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 12.3 | 10.3 | 15.5 |
| 54 | 11.9 | 11.5 | 17.3 |
| 68 | 8.1 | 7.0 | 10.4 |

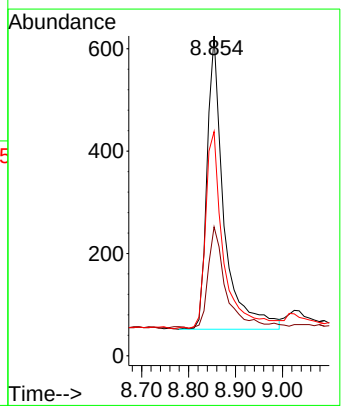


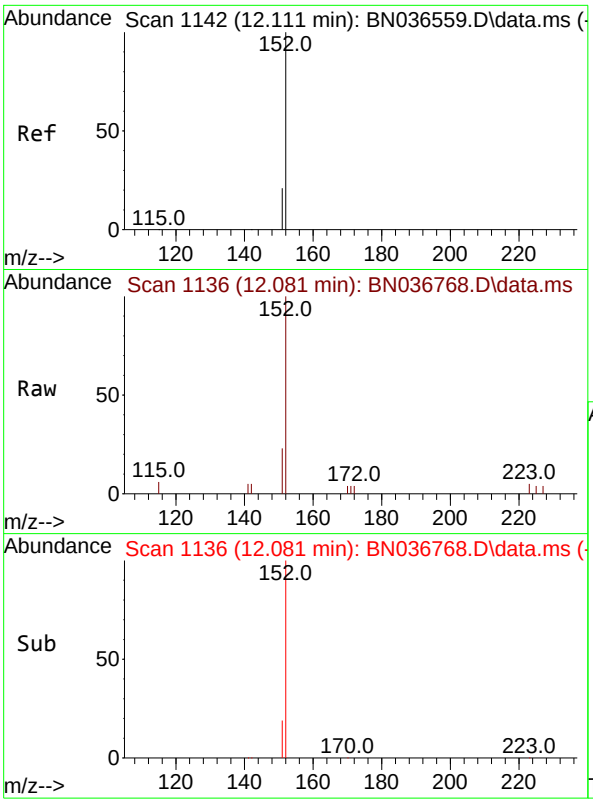




#8
Nitrobenzene-d5
Concen: 0.296 ng
RT: 8.854 min Scan# 775
Delta R.T. -0.021 min
Lab File: BN036768.D
Acq: 28 Mar 2025 11:34

Tgt Ion: 82 Resp: 1429

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 40.3 | 30.6 | 45.8 |
| 54 | 70.1 | 52.2 | 78.4 |



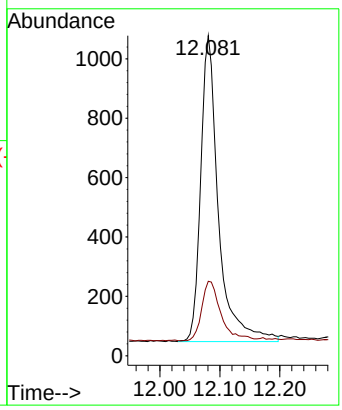


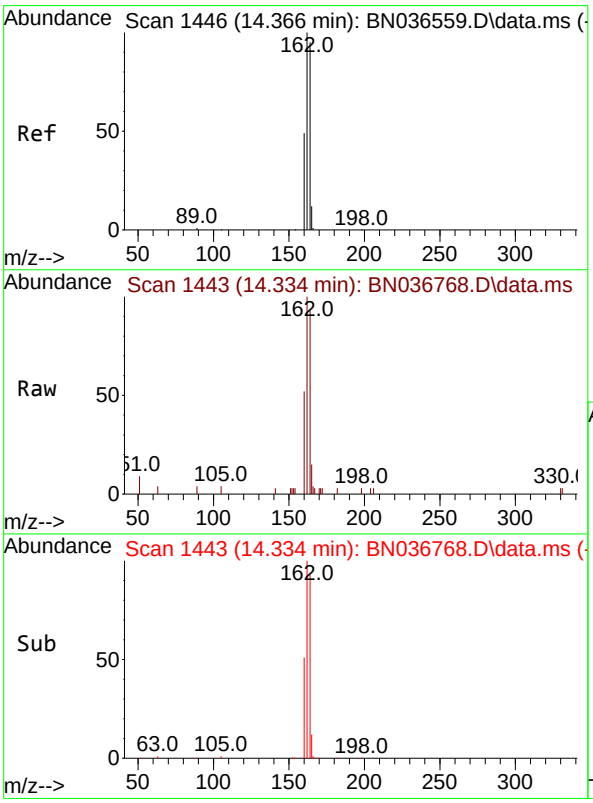

#11
2-Methylnaphthalene-d10
Concen: 0.321 ng
RT: 12.081 min Scan# 11
Delta R.T. -0.030 min
Lab File: BN036768.D
Acq: 28 Mar 2025 11:34

**Instrument :**
BNA_N
**ClientSampleId :**
TT188S1-20250320

Tgt Ion:152 Resp: 2118

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 21.2 | 17.0 | 25.6 |

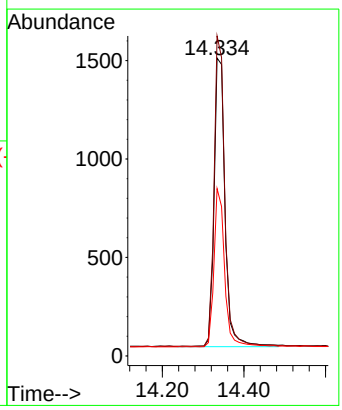


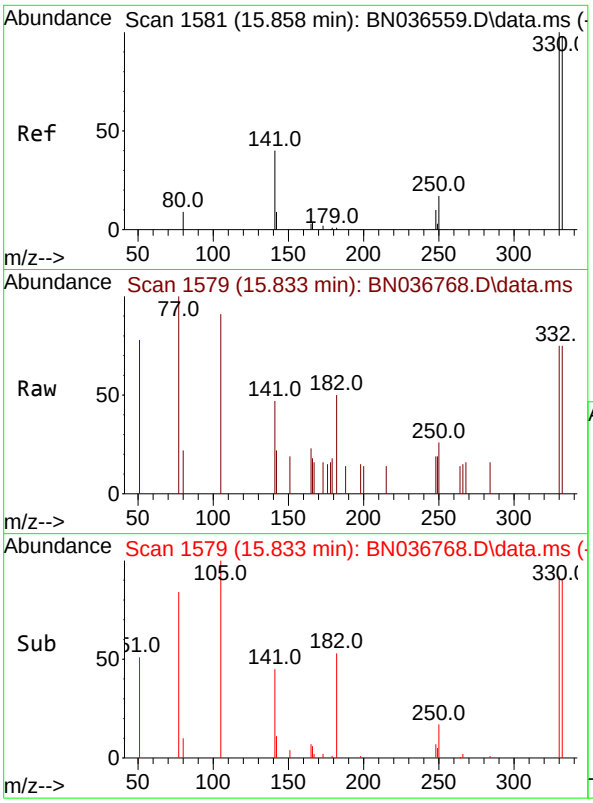




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.334 min Scan# 1443
Delta R.T. -0.032 min
Lab File: BN036768.D
Acq: 28 Mar 2025 11:34

Tgt Ion:164 Resp: 2727

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 107.4 | 84.2 | 126.2 |
| 160 | 56.2 | 42.2 | 63.2 |



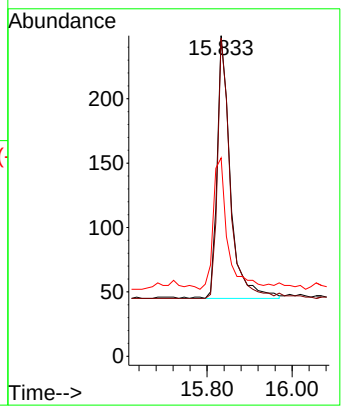


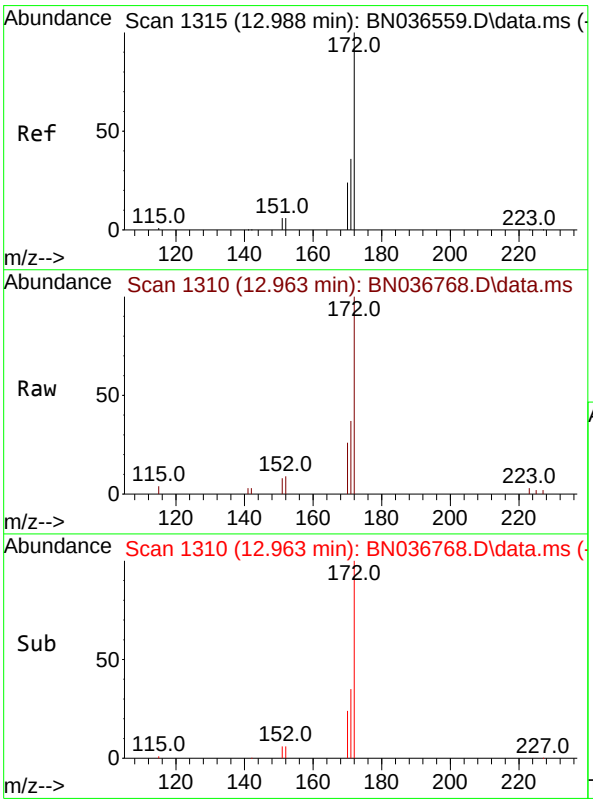

#14
2,4,6-Tribromophenol
Concen: 0.355 ng
RT: 15.833 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036768.D
Acq: 28 Mar 2025 11:34

**Instrument :**
BNA_N
**ClientSampleId :**
TT188S1-20250320

Tgt Ion:330 Resp: 439

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 94.8 | 75.2 | 112.8 |
| 141 | 54.2 | 43.4 | 65.2 |

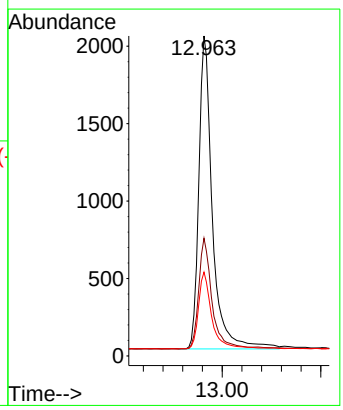


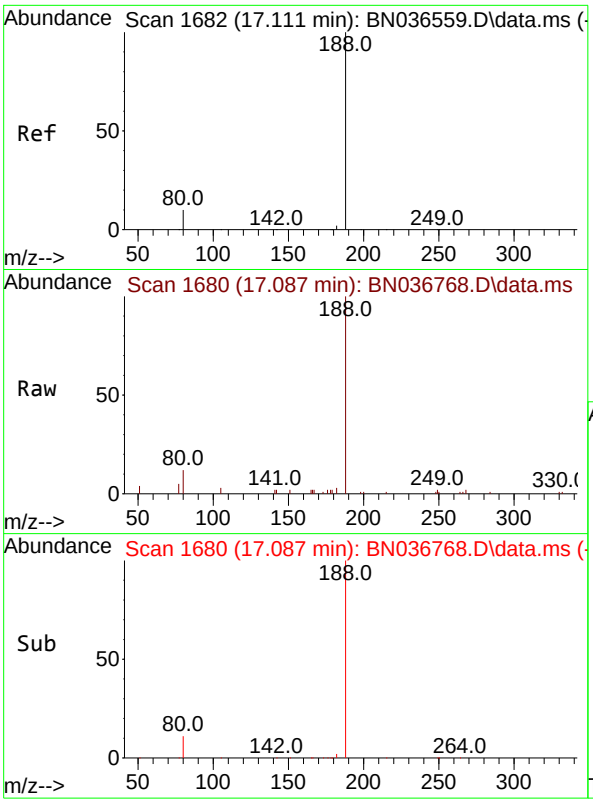




#15
2-Fluorobiphenyl
Concen: 0.324 ng
RT: 12.963 min Scan# 1310
Delta R.T. -0.025 min
Lab File: BN036768.D
Acq: 28 Mar 2025 11:34

Tgt Ion:172 Resp: 5133

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 36.8 | 29.5 | 44.3 |
| 170 | 26.2 | 20.2 | 30.4 |



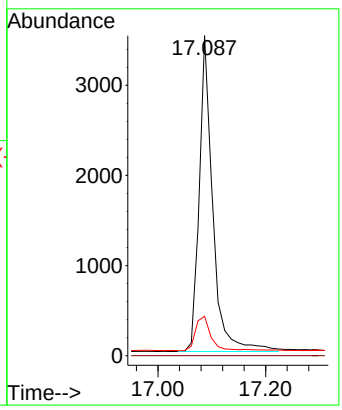


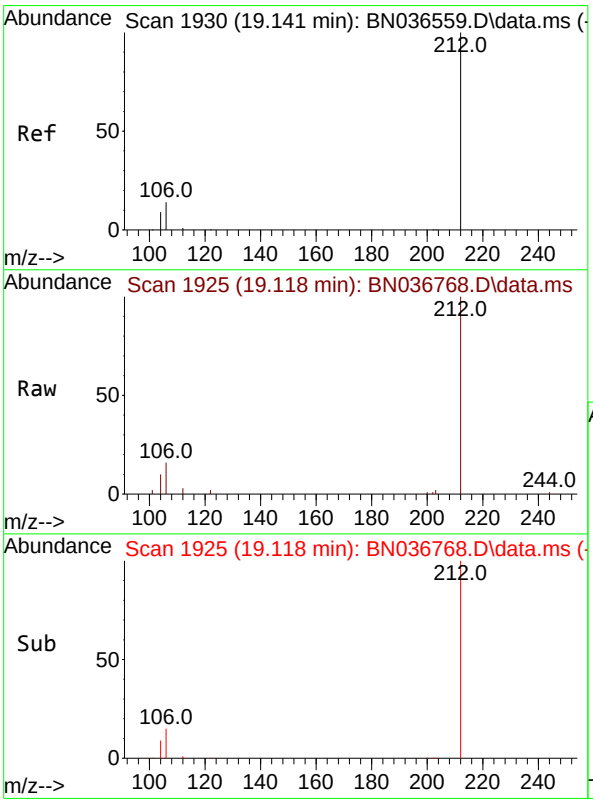

#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.087 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036768.D
Acq: 28 Mar 2025 11:34

**Instrument :**
BNA_N
**ClientSampleId :**
TT188S1-20250320

Tgt Ion:188 Resp: 6125

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 12.3 | 8.8 | 13.2 |

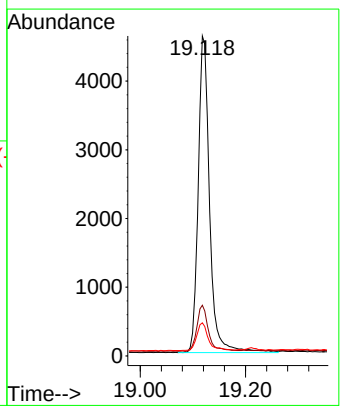


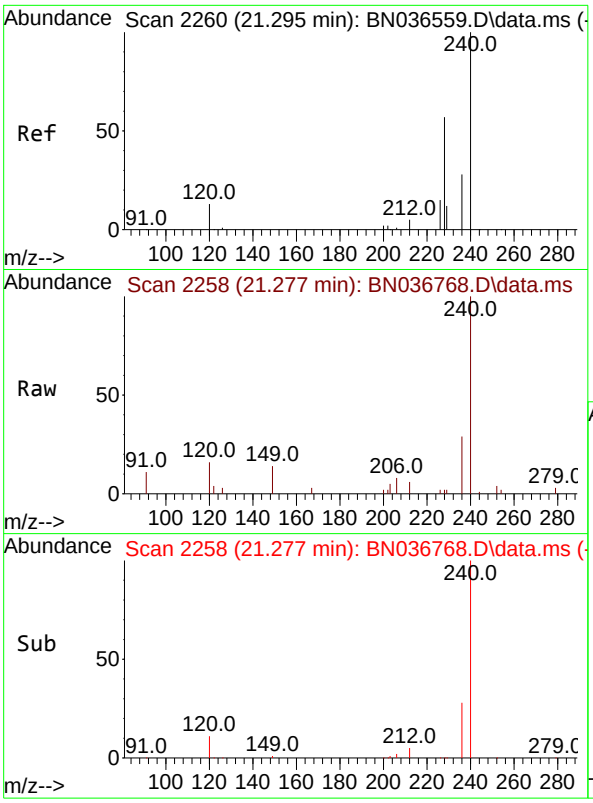




#27
Fluoranthene-d10
Concen: 0.441 ng
RT: 19.118 min Scan# 1925
Delta R.T. -0.023 min
Lab File: BN036768.D
Acq: 28 Mar 2025 11:34

Tgt Ion:212 Resp: 6928

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 14.6 | 11.8 | 17.6 |
| 104 | 8.9 | 7.3 | 10.9 |



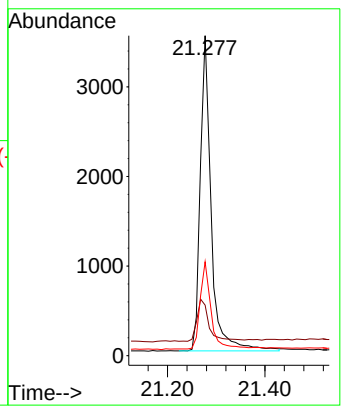


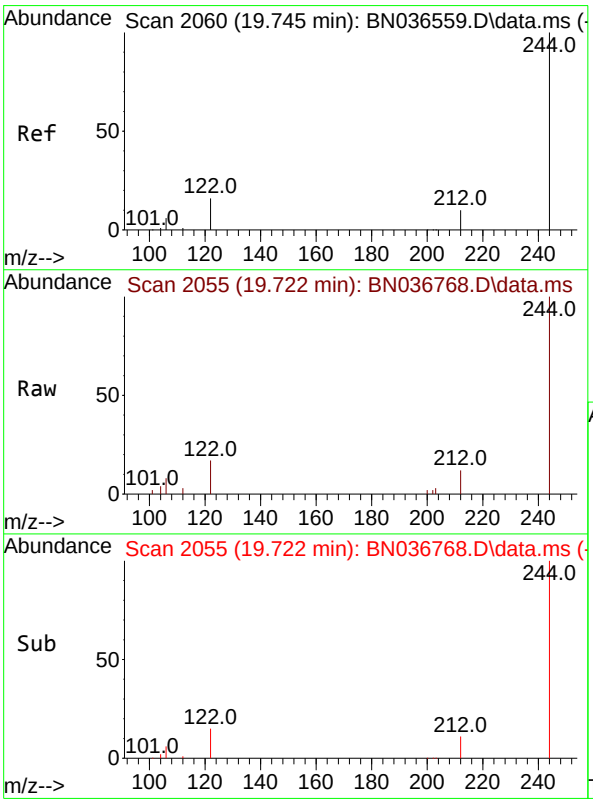

#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036768.D
Acq: 28 Mar 2025 11:34

**Instrument :**
BNA_N
**ClientSampleId :**
TT188S1-20250320

Tgt Ion:240 Resp: 5473

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 15.8 | 14.6 | 22.0 |
| 236 | 29.4 | 24.1 | 36.1 |

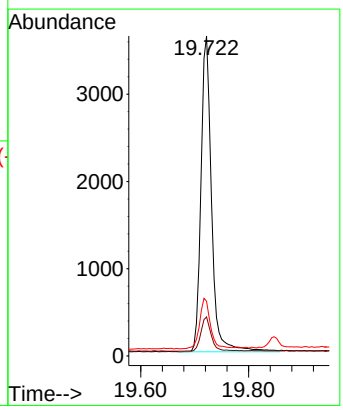


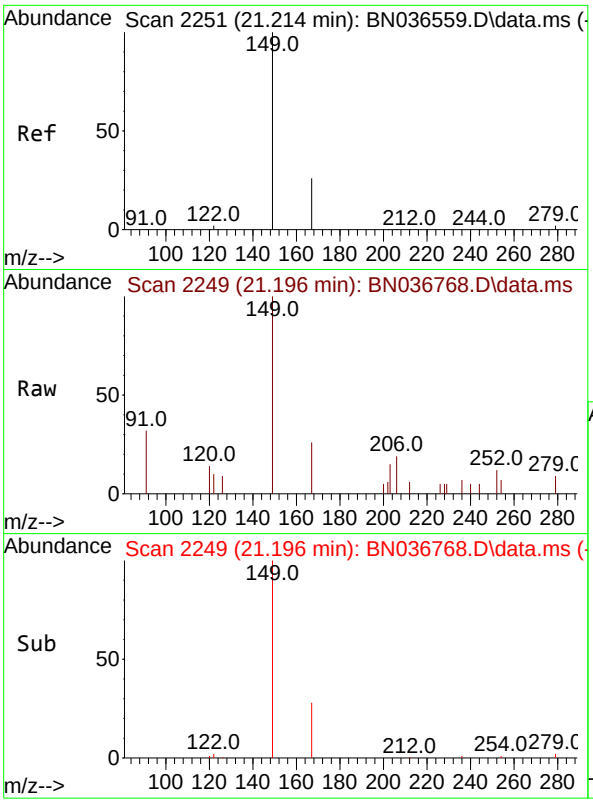




#31
Terphenyl-d14
Concen: 0.377 ng
RT: 19.722 min Scan# 2055
Delta R.T. -0.023 min
Lab File: BN036768.D
Acq: 28 Mar 2025 11:34

Tgt Ion:244 Resp: 4946

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 12.2 | 9.6 | 14.4 |
| 122 | 17.1 | 13.9 | 20.9 |



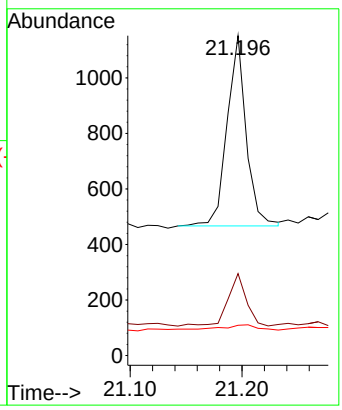


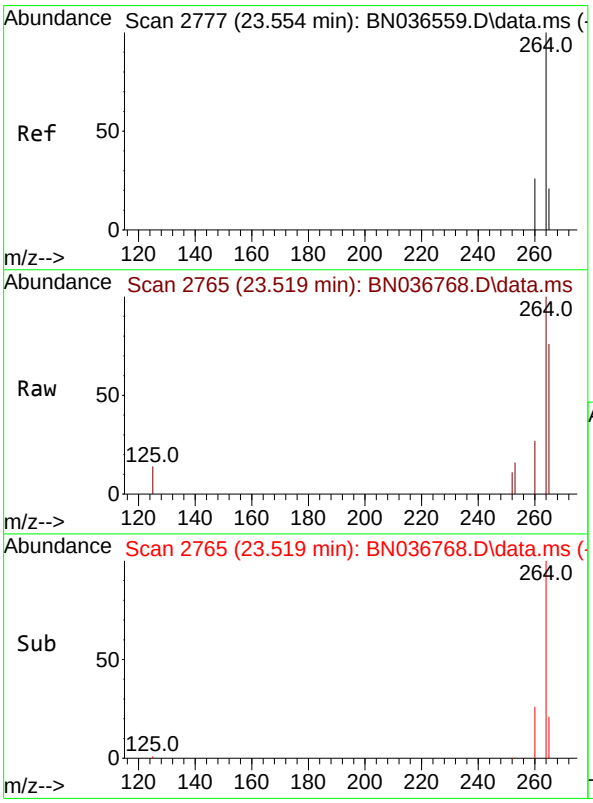

#34
Bis(2-ethylhexyl)phthalate
Concen: 0.060 ng
RT: 21.196 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036768.D
Acq: 28 Mar 2025 11:34

**Instrument :**
BNA_N
**ClientSampleId :**
TT188S1-20250320

Tgt Ion:149 Resp: 813

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 26.7 | 20.7 | 31.1 |
| 279 | 4.7 | 3.6 | 5.4 |

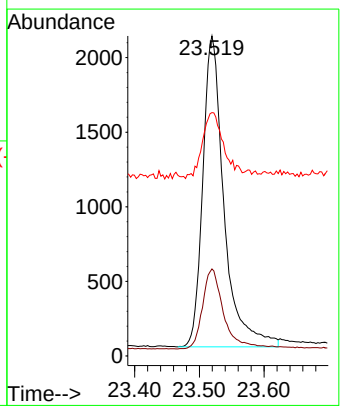



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.519 min Scan# 2765
Delta R.T. -0.035 min
Lab File: BN036768.D
Acq: 28 Mar 2025 11:34

Tgt Ion:264 Resp: 4747

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 27.2 | 22.6 | 33.8 |
| 265 | 76.0 | 88.1 | 132.1# |



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: | 03/20/25 |
| Project: | NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258 | Date Received: | 03/21/25 |
| Client Sample ID: | RW09-MW01D1-20250320 | SDG No.: | Q1629 |
| Lab Sample ID: | Q1629-07 | 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 |
|---|---|---|---|---|
| BN036803.D | 1 | 03/25/25 08:41 | 03/29/25 09:57 | PB167295 |

| 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 | 0.34 | | 30 - 150 | | 86% | SPK: 0.4 |
| 93951-69-0 | Fluoranthene-d10 | 0.43 | | 30 - 150 | | 107% | SPK: 0.4 |
| 4165-60-0 | Nitrobenzene-d5 | 0.29 | | 55 - 111 | | 72% | SPK: 0.4 |
| 321-60-8 | 2-Fluorobiphenyl | 0.34 | | 53 - 106 | | 84% | SPK: 0.4 |
| 1718-51-0 | Terphenyl-d14 | 0.45 | | 58 - 132 | | 111% | SPK: 0.4 |
| **INTERNAL STANDARDS** | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 1720 | 7.696 | | | | |
| 1146-65-2 | Naphthalene-d8 | 4160 | 10.487 | | | | |
| 15067-26-2 | Acenaphthene-d10 | 2580 | 14.334 | | | | |
| 1517-22-2 | Phenanthrene-d10 | 5280 | 17.086 | | | | |
| 1719-03-5 | Chrysene-d12 | 3900 | 21.277 | | | | |
| 1520-96-3 | Perylene-d12 | 3270 | 23.516 | | | | |

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\BN032825\
Data File : BN036803.D
Acq On : 29 Mar 2025 09:57
Operator : RC/JU
Sample : Q1629-07
Misc :
ALS Vial : 34 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01D1-20250320

**Manual Integrations APPROVED**
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

Quant Time: Mar 31 01:59:55 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.696 | 152 | 1719 | 0.400 | ng | -0.03 |
| 7) Naphthalene-d8 | 10.487 | 136 | 4159 | 0.400 | ng | -0.02 |
| 13) Acenaphthene-d10 | 14.334 | 164 | 2581 | 0.400 | ng | -0.03 |
| 19) Phenanthrene-d10 | 17.086 | 188 | 5278 | 0.400 | ng | -0.02 |
| 29) Chrysene-d12 | 21.277 | 240 | 3898 | 0.400 | ng | #-0.02 |
| 35) Perylene-d12 | 23.516 | 264 | 3267 | 0.400 | ng | #-0.04 |
| System Monitoring Compounds | | | | | | |
| 4) 2-Fluorophenol | 5.291 | 112 | 650 | 0.162 | ng | -0.02 |
| 5) Phenol-d6 | 6.872 | 99 | 448 | 0.091 | ng | -0.03 |
| 8) Nitrobenzene-d5 | 8.854 | 82 | 1305 | 0.288 | ng | -0.02 |
| 11) 2-Methylnaphthalene-d10 | 12.075 | 152 | 2119 | 0.343 | ng | -0.04 |
| 14) 2,4,6-Tribromophenol | 15.833 | 330 | 489 | 0.418 | ng | -0.02 |
| 15) 2-Fluorobiphenyl | 12.963 | 172 | 5067 | 0.337 | ng | -0.03 |
| 27) Fluoranthene-d10 | 19.118 | 212 | 5789 | 0.428 | ng | -0.02 |
| 31) Terphenyl-d14 | 19.717 | 244 | 4157 | 0.445 | ng | -0.03 |
| Target Compounds | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.225 | 88 | 659 | 0.346 | ng | # 62 |
| 34) Bis(2-ethylhexyl)phtha... | 21.196 | 149 | 793m | 0.082 | ng | |

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

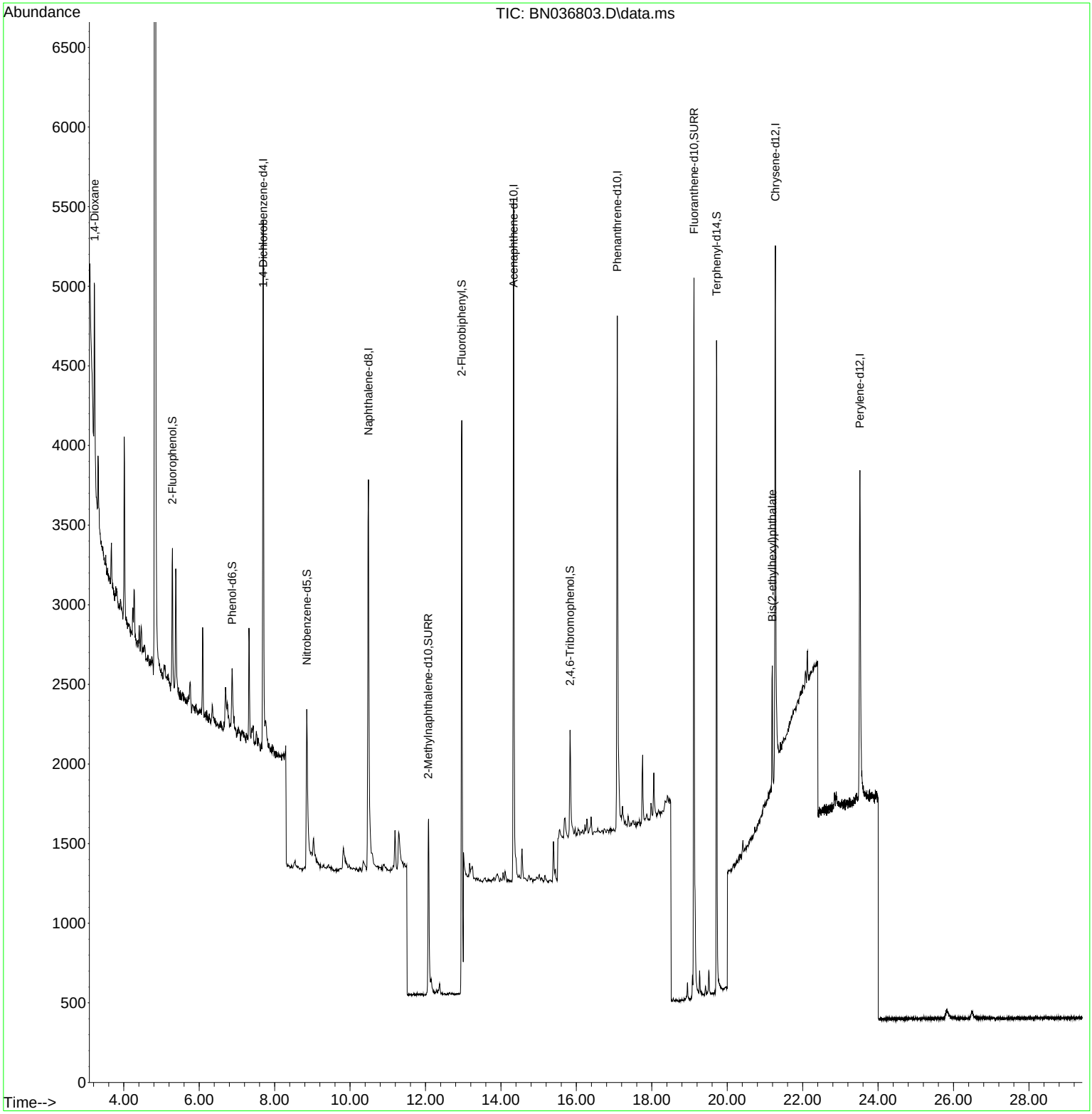
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032825\
Data File : BN036803.D
Acq On : 29 Mar 2025 09:57
Operator : RC/JU
Sample : Q1629-07
Misc :
ALS Vial : 34 Sample Multiplier: 1

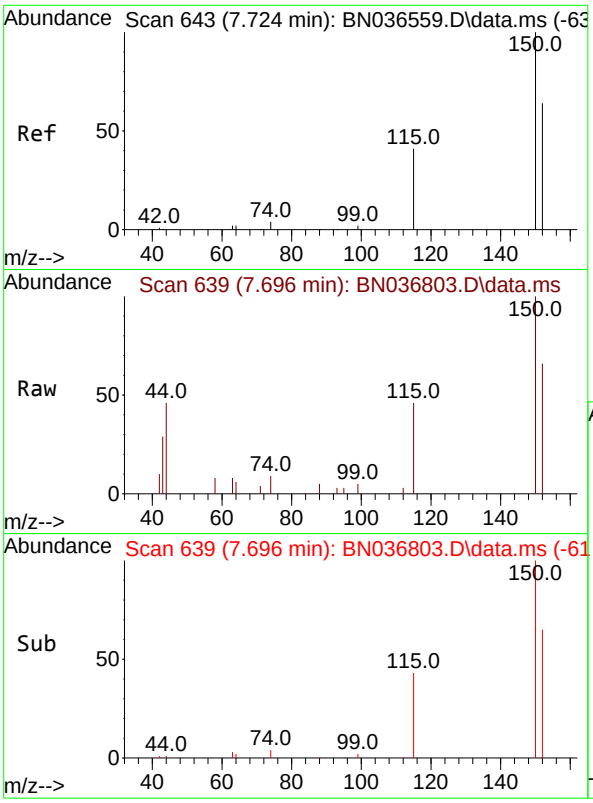
Quant Time: Mar 31 01:59:55 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01D1-20250320

**Manual Integrations APPROVED**

Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

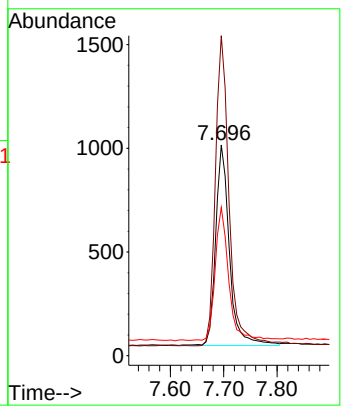





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.696 min Scan# 6
Delta R.T. -0.028 min
Lab File: BN036803.D
Acq: 29 Mar 2025 09:57

Tgt Ion:152 Resp: 171

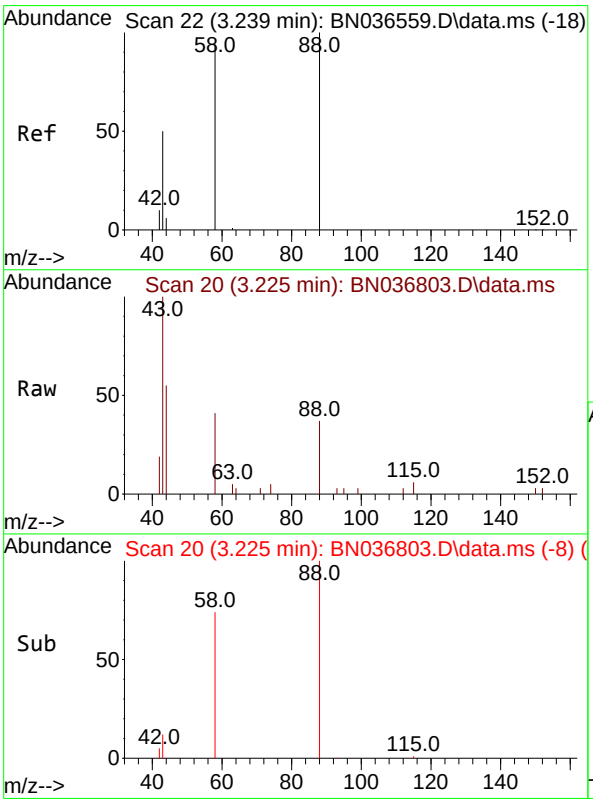
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 151.9 | 123.7 | 185.5 |
| 115 | 70.4 | 54.3 | 81.5 |




**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01D1-20250320

**Manual Integrations**
**APPROVED**

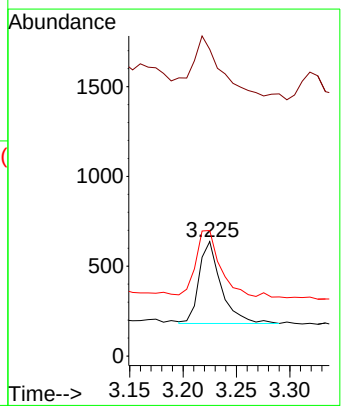
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

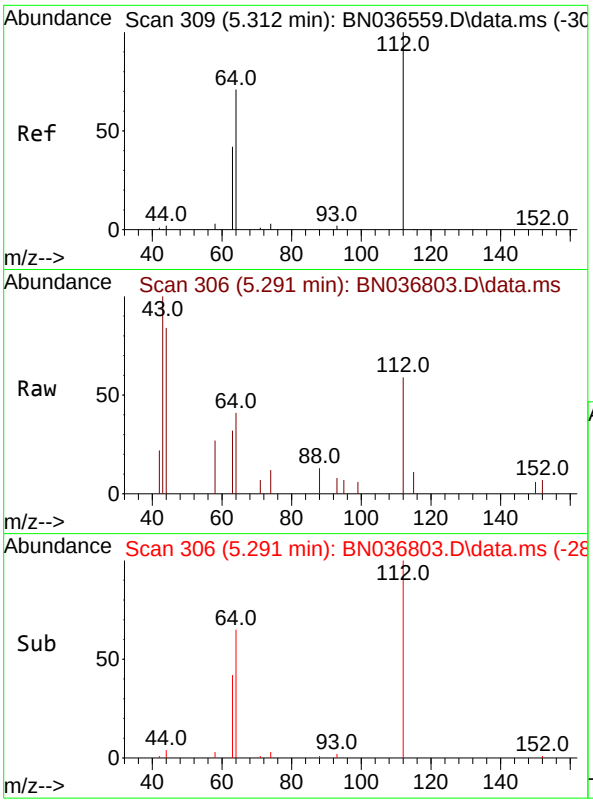



#2
1,4-Dioxane
Concen: 0.346 ng
RT: 3.225 min Scan# 20
Delta R.T. -0.014 min
Lab File: BN036803.D
Acq: 29 Mar 2025 09:57

Tgt Ion: 88 Resp: 659

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 115.2 | 37.8 | 56.8# |
| 58 | 87.3 | 67.4 | 101.2 |






#4
2-Fluorophenol
Concen: 0.162 ng
RT: 5.291 min Scan# 3(
Delta R.T. -0.022 min
Lab File: BN036803.D
Acq: 29 Mar 2025 09:57

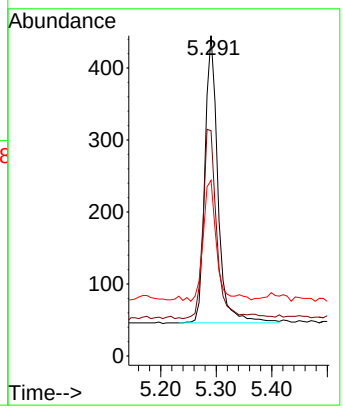
Tgt Ion:112 Resp: 65(

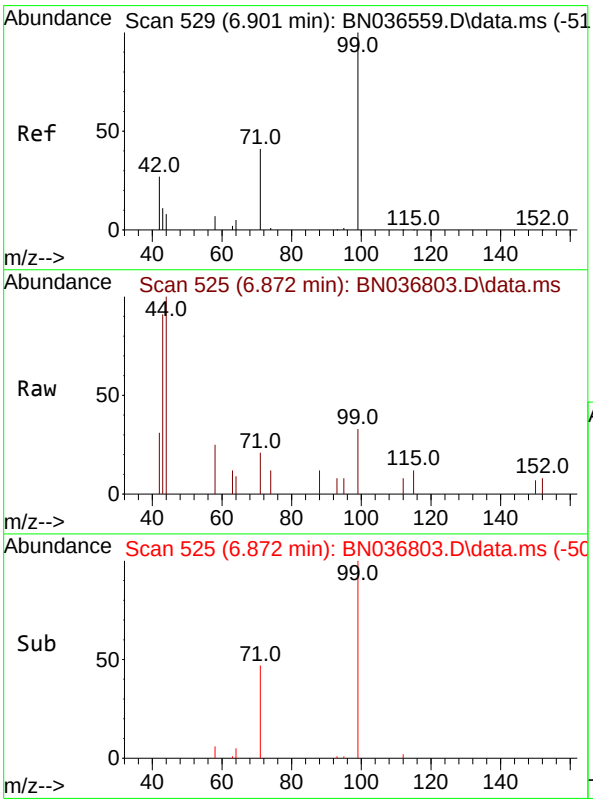
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 68.3 | 53.1 | 79.7 |
| 63 | 42.0 | 31.8 | 47.8 |

**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01D1-20250320

**Manual Integrations**
**APPROVED**

Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

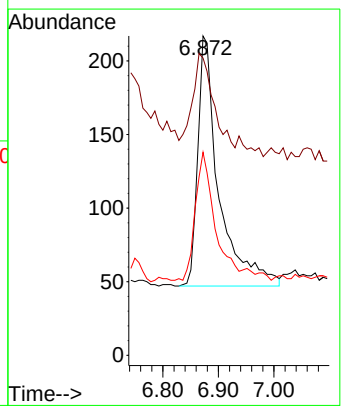


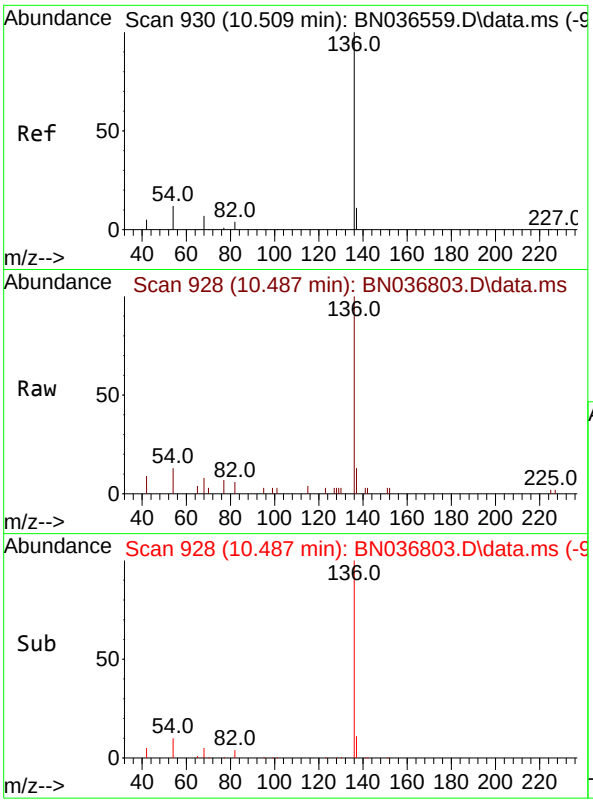




#5
Phenol-d6
Concen: 0.091 ng
RT: 6.872 min Scan# 525
Delta R.T. -0.029 min
Lab File: BN036803.D
Acq: 29 Mar 2025 09:57

Tgt Ion: 99 Resp: 448

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 35.9 | 26.5 | 39.7 |
| 71 | 50.4 | 34.1 | 51.1 |

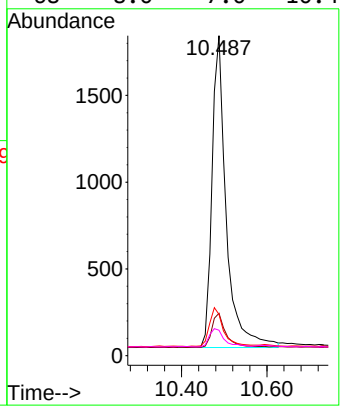





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.487 min Scan# 9
Delta R.T. -0.021 min
Lab File: BN036803.D
Acq: 29 Mar 2025 09:57

Tgt Ion:136 Resp: 415

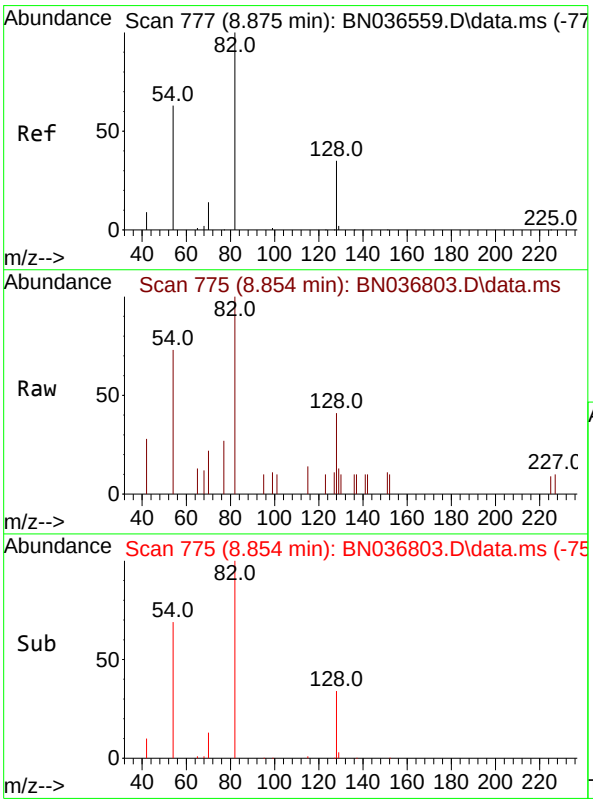
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 13.3 | 10.3 | 15.5 |
| 54 | 12.9 | 11.5 | 17.3 |
| 68 | 8.0 | 7.0 | 10.4 |




**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01D1-20250320

**Manual Integrations**
**APPROVED**

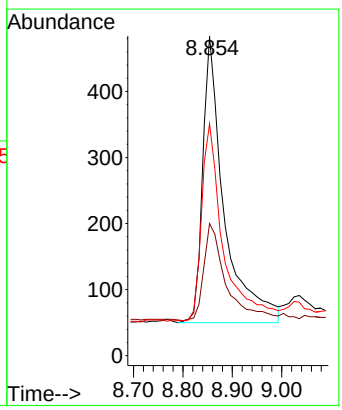
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

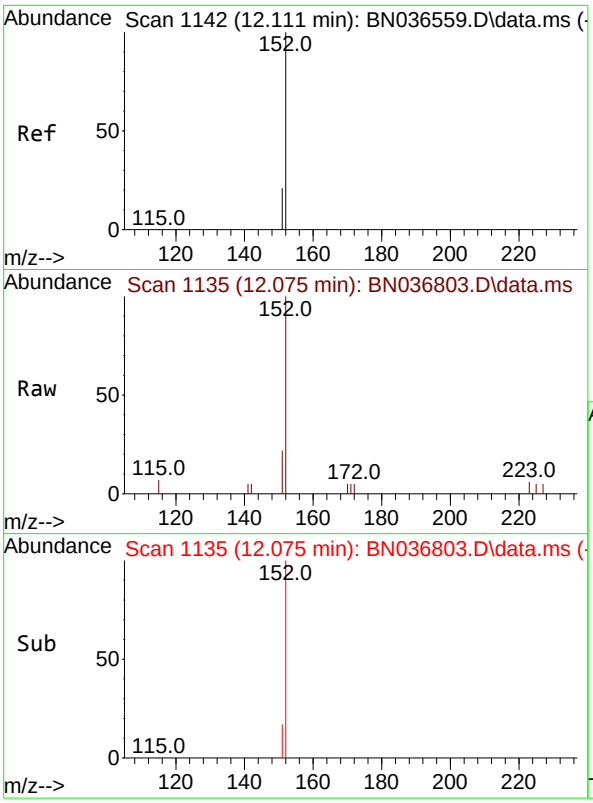



#8
Nitrobenzene-d5
Concen: 0.288 ng
RT: 8.854 min Scan# 775
Delta R.T. -0.021 min
Lab File: BN036803.D
Acq: 29 Mar 2025 09:57

Tgt Ion: 82 Resp: 1305

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 41.3 | 30.6 | 45.8 |
| 54 | 72.5 | 52.2 | 78.4 |






#11
2-Methylnaphthalene-d10
Concen: 0.343 ng
RT: 12.075 min Scan# 11
Delta R.T. -0.035 min
Lab File: BN036803.D
Acq: 29 Mar 2025 09:57

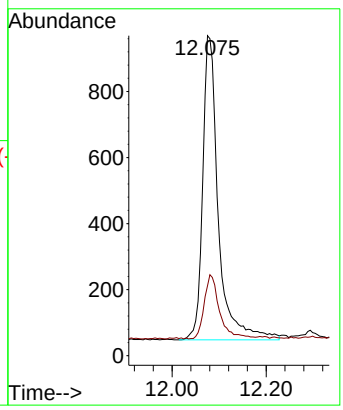
Tgt Ion:152 Resp: 211

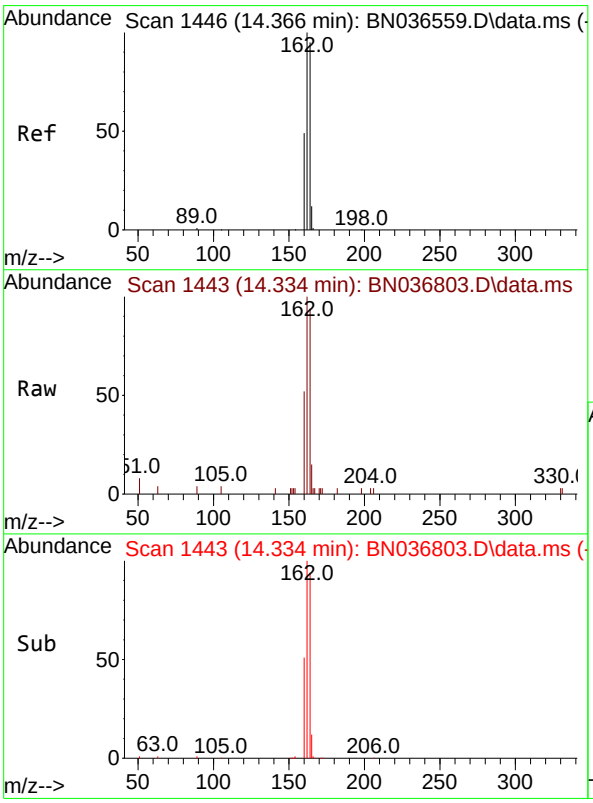
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.8 | 17.0 | 25.6 |

**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01D1-20250320

**Manual Integrations**
**APPROVED**

Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

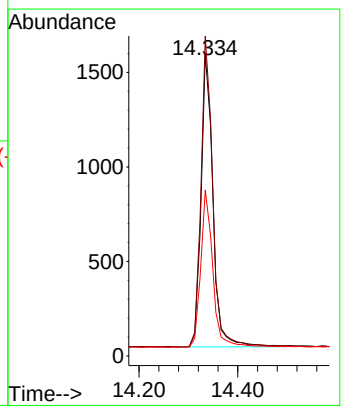


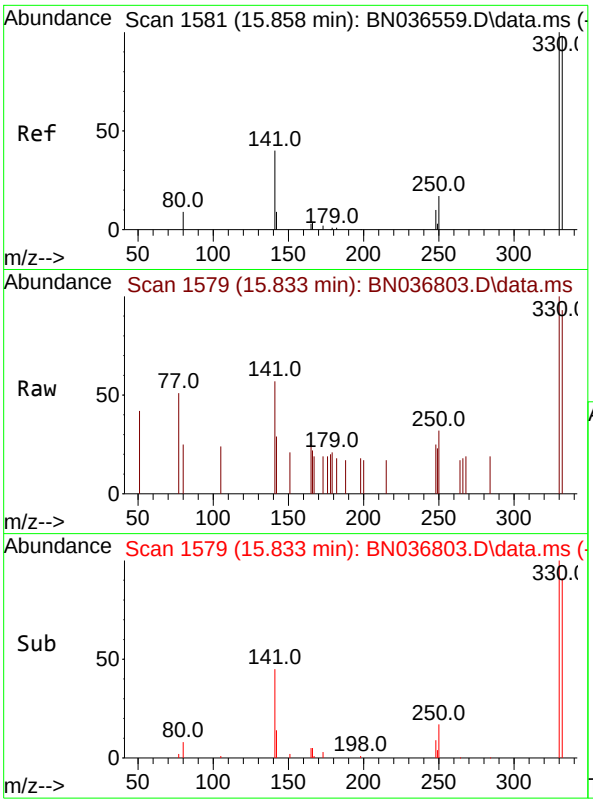




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.334 min Scan# 1443
Delta R.T. -0.032 min
Lab File: BN036803.D
Acq: 29 Mar 2025 09:57

Tgt Ion:164 Resp: 2581

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 105.9 | 84.2 | 126.2 |
| 160 | 55.0 | 42.2 | 63.2 |

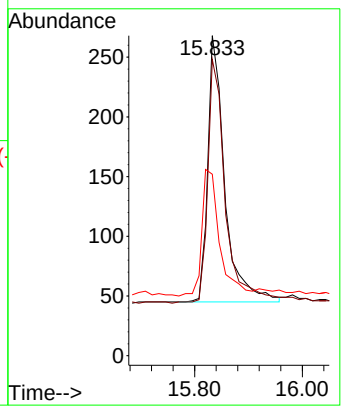





#14
2,4,6-Tribromophenol
Concen: 0.418 ng
RT: 15.833 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036803.D
Acq: 29 Mar 2025 09:57

Tgt Ion:330 Resp: 48

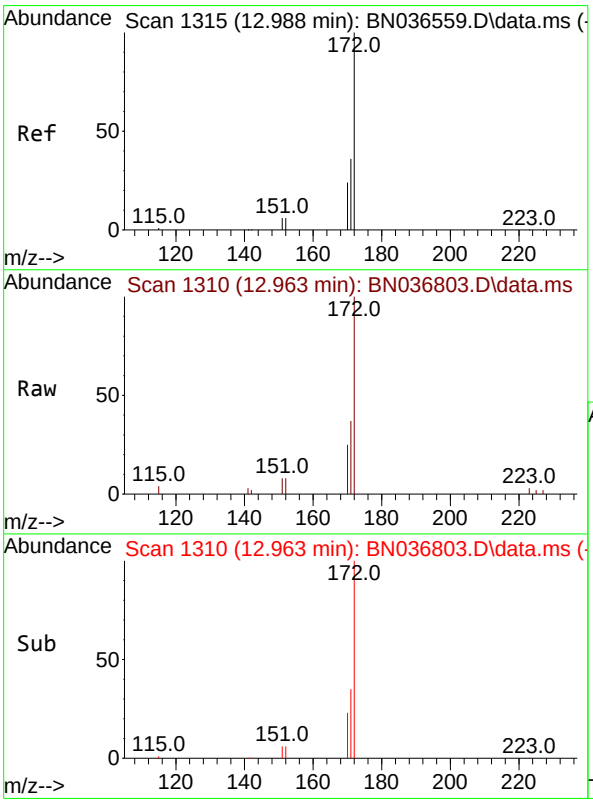
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 95.1 | 75.2 | 112.8 |
| 141 | 49.5 | 43.4 | 65.2 |




**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01D1-20250320

**Manual Integrations**
**APPROVED**

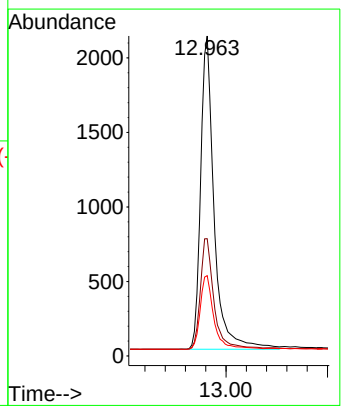
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

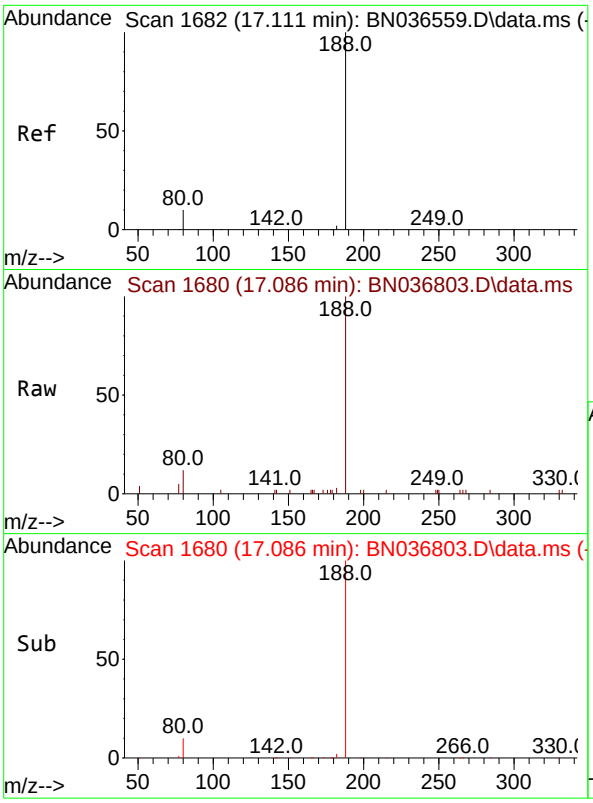



#15
2-Fluorobiphenyl
Concen: 0.337 ng
RT: 12.963 min Scan# 1310
Delta R.T. -0.025 min
Lab File: BN036803.D
Acq: 29 Mar 2025 09:57

Tgt Ion:172 Resp: 5067

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 36.7 | 29.5 | 44.3 |
| 170 | 25.1 | 20.2 | 30.4 |






#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.086 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036803.D
Acq: 29 Mar 2025 09:57

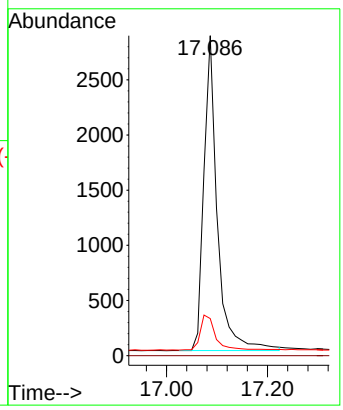
Tgt Ion:188 Resp: 527

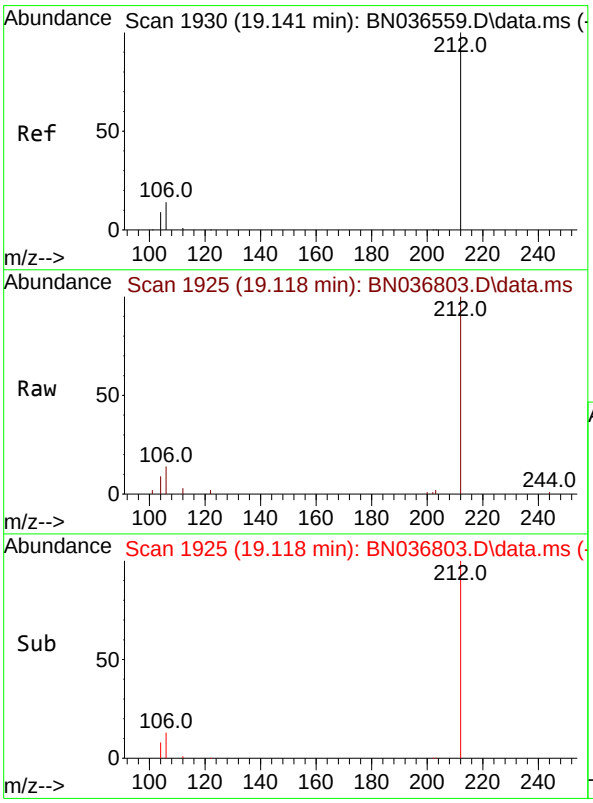
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 11.6 | 8.8 | 13.2 |

**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01D1-20250320

**Manual Integrations**
**APPROVED**

Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

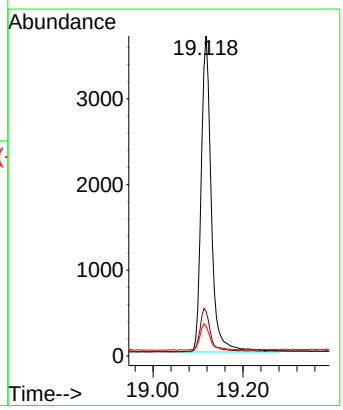


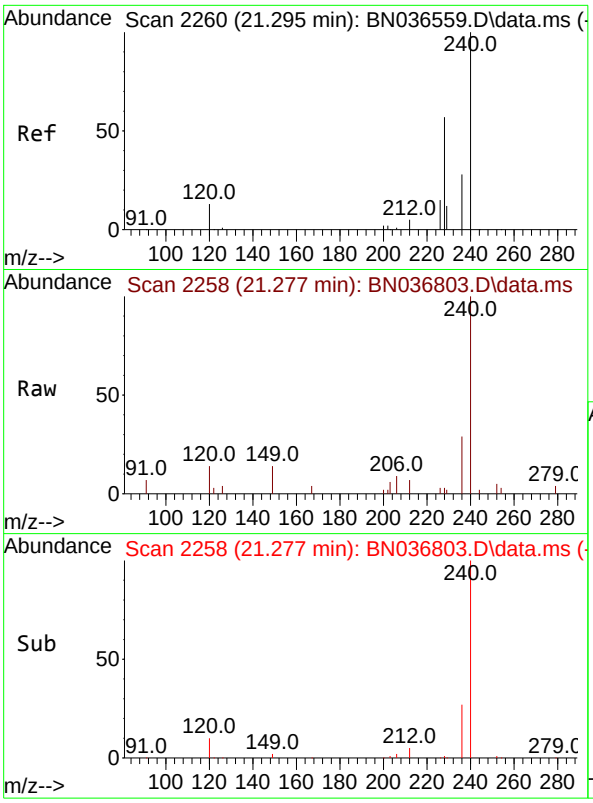




#27
Fluoranthene-d10
Concen: 0.428 ng
RT: 19.118 min Scan# 1925
Delta R.T. -0.023 min
Lab File: BN036803.D
Acq: 29 Mar 2025 09:57

Tgt Ion:212 Resp: 5789

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 13.9 | 11.8 | 17.6 |
| 104 | 8.3 | 7.3 | 10.9 |






#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036803.D
Acq: 29 Mar 2025 09:57

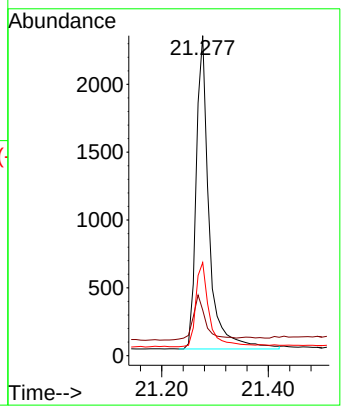
**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01D1-20250320

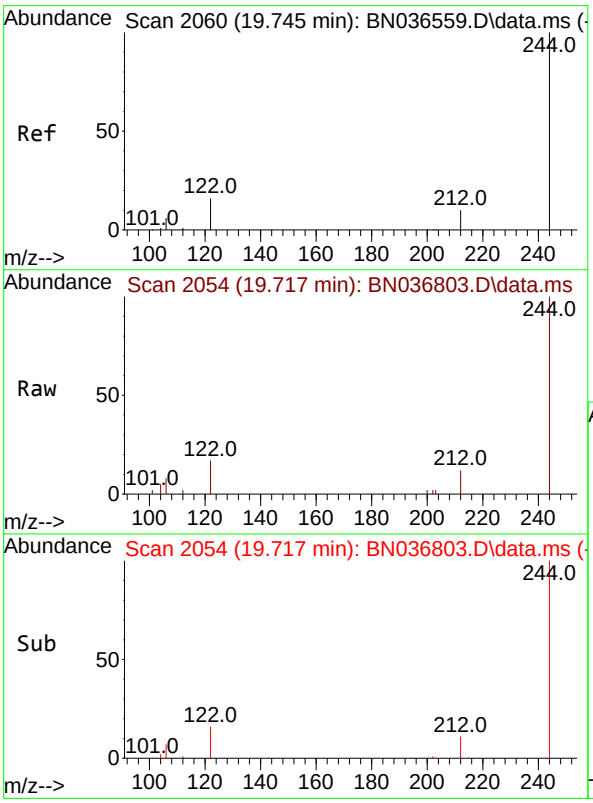
Tgt Ion:240 Resp: 389

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 14.2 | 14.6 | 22.0 |
| 236 | 29.1 | 24.1 | 36.1 |

**Manual Integrations**
**APPROVED**

Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

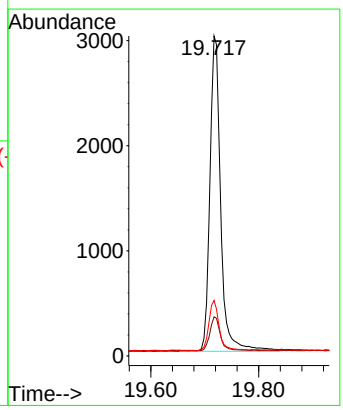


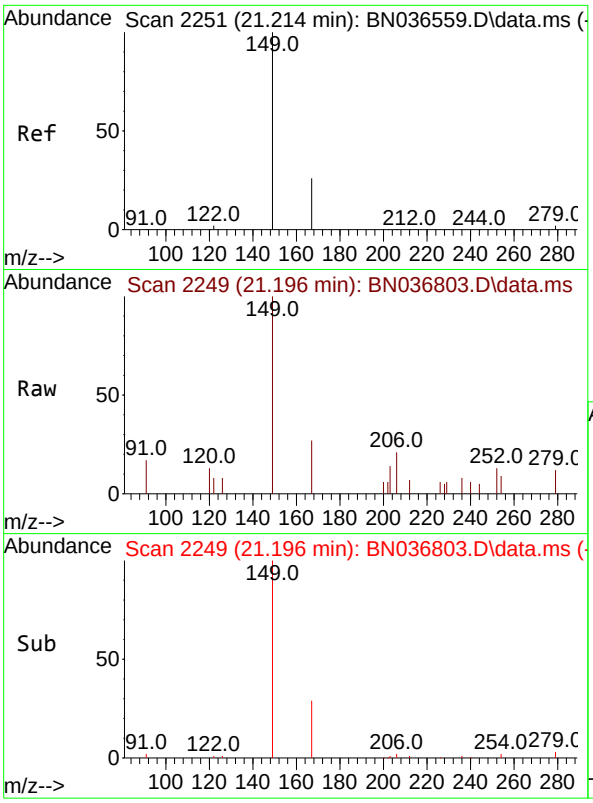




#31
Terphenyl-d14
Concen: 0.445 ng
RT: 19.717 min Scan# 2054
Delta R.T. -0.028 min
Lab File: BN036803.D
Acq: 29 Mar 2025 09:57

Tgt Ion:244 Resp: 4157

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 12.3 | 9.6 | 14.4 |
| 122 | 17.3 | 13.9 | 20.9 |

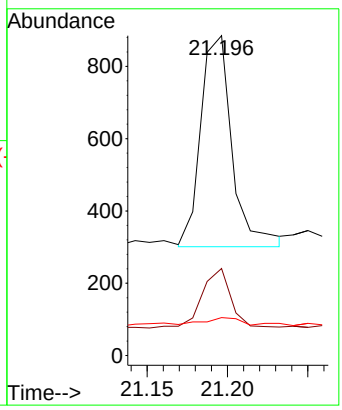





#34
Bis(2-ethylhexyl)phthalate
Concen: 0.082 ng m
RT: 21.196 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036803.D
Acq: 29 Mar 2025 09:57

Tgt Ion:149 Resp: 79

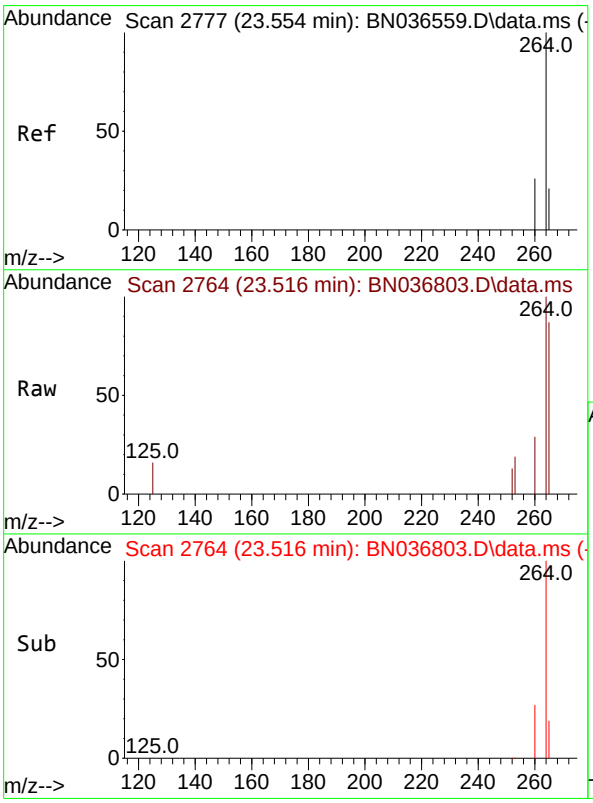
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 26.2 | 20.7 | 31.1 |
| 279 | 6.1 | 3.6 | 5.4# |




**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01D1-20250320

**Manual Integrations**
**APPROVED**

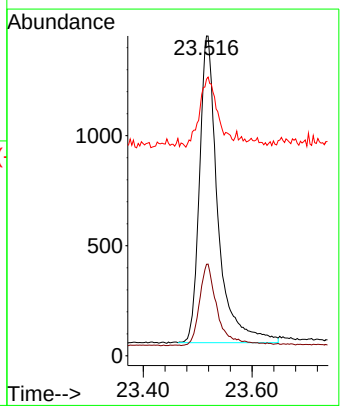
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.516 min Scan# 2764
Delta R.T. -0.038 min
Lab File: BN036803.D
Acq: 29 Mar 2025 09:57

Tgt Ion:264 Resp: 3267

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 28.6 | 22.6 | 33.8 |
| 265 | 86.5 | 88.1 | 132.1# |



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: | 03/20/25 |
| Project: | NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258 | Date Received: | 03/21/25 |
| Client Sample ID: | RW09-MW01D2-20250320 | SDG No.: | Q1629 |
| Lab Sample ID: | Q1629-08 | 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 |
|---|---|---|---|---|
| BN036799.D | 1 | 03/25/25 08:41 | 03/29/25 07:32 | PB167295 |

| 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 | 0.30 | | 30 - 150 | | 75% | SPK: 0.4 |
| 93951-69-0 | Fluoranthene-d10 | 0.39 | | 30 - 150 | | 97% | SPK: 0.4 |
| 4165-60-0 | Nitrobenzene-d5 | 0.26 | | 55 - 111 | | 64% | SPK: 0.4 |
| 321-60-8 | 2-Fluorobiphenyl | 0.25 | | 53 - 106 | | 63% | SPK: 0.4 |
| 1718-51-0 | Terphenyl-d14 | 0.38 | | 58 - 132 | | 94% | SPK: 0.4 |
| **INTERNAL STANDARDS** | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 1590 | 7.696 | | | | |
| 1146-65-2 | Naphthalene-d8 | 3760 | 10.488 | | | | |
| 15067-26-2 | Acenaphthene-d10 | 2610 | 14.334 | | | | |
| 1517-22-2 | Phenanthrene-d10 | 5010 | 17.087 | | | | |
| 1719-03-5 | Chrysene-d12 | 3750 | 21.277 | | | | |
| 1520-96-3 | Perylene-d12 | 3120 | 23.519 | | | | |

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\BN032825\
Data File : BN036799.D
Acq On : 29 Mar 2025 07:32
Operator : RC/JU
Sample : Q1629-08
Misc :
ALS Vial : 30 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01D2-20250320

Quant Time: Mar 31 01:58:53 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

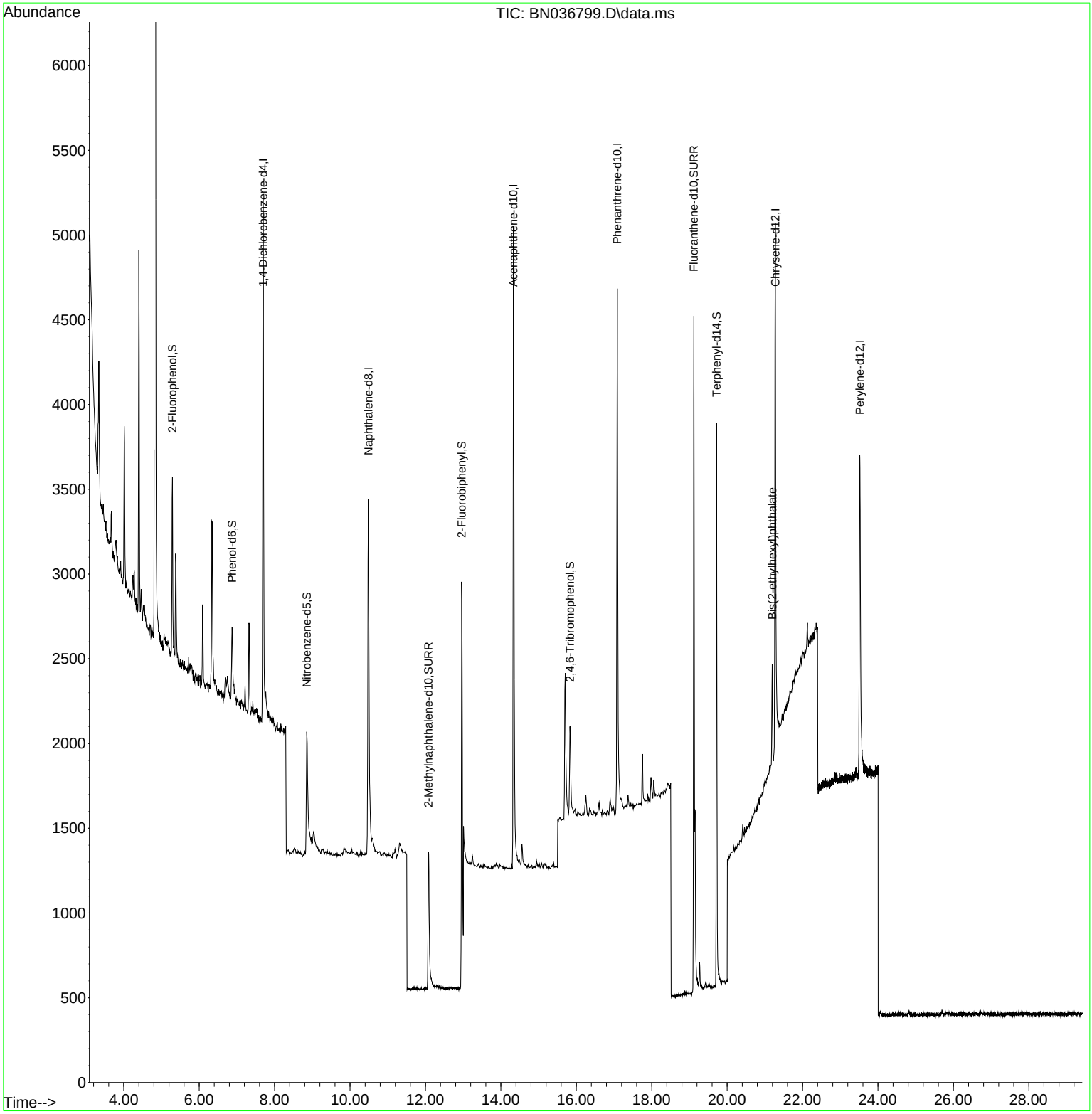
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.696 | 152 | 1587 | 0.400 | ng | -0.03 |
| 7) Naphthalene-d8 | 10.488 | 136 | 3759 | 0.400 | ng | -0.02 |
| 13) Acenaphthene-d10 | 14.334 | 164 | 2611 | 0.400 | ng | -0.03 |
| 19) Phenanthrene-d10 | 17.087 | 188 | 5014 | 0.400 | ng | -0.02 |
| 29) Chrysene-d12 | 21.277 | 240 | 3745 | 0.400 | ng | -0.02 |
| 35) Perylene-d12 | 23.519 | 264 | 3124 | 0.400 | ng | -0.03 |
| System Monitoring Compounds | | | | | | |
| 4) 2-Fluorophenol | 5.291 | 112 | 768 | 0.208 | ng | -0.02 |
| 5) Phenol-d6 | 6.872 | 99 | 509 | 0.111 | ng | -0.03 |
| 8) Nitrobenzene-d5 | 8.854 | 82 | 1047 | 0.256 | ng | -0.02 |
| 11) 2-Methylnaphthalene-d10 | 12.081 | 152 | 1685 | 0.301 | ng | -0.03 |
| 14) 2,4,6-Tribromophenol | 15.833 | 330 | 391 | 0.330 | ng | -0.02 |
| 15) 2-Fluorobiphenyl | 12.963 | 172 | 3853 | 0.254 | ng | -0.03 |
| 27) Fluoranthene-d10 | 19.118 | 212 | 4963 | 0.386 | ng | -0.02 |
| 31) Terphenyl-d14 | 19.722 | 244 | 3396 | 0.378 | ng | -0.02 |
| Target Compounds | | | | | | Qvalue |
| 34) Bis(2-ethylhexyl)phtha... | 21.196 | 149 | 610 | 0.066 | ng | 92 |

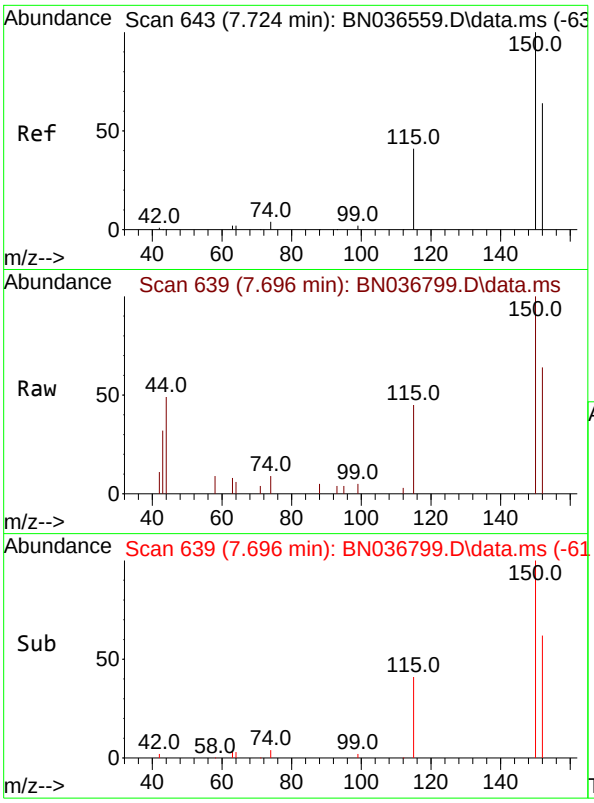
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032825\
Data File : BN036799.D
Acq On : 29 Mar 2025 07:32
Operator : RC/JU
Sample : Q1629-08
Misc :
ALS Vial : 30 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01D2-20250320

Quant Time: Mar 31 01:58:53 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration



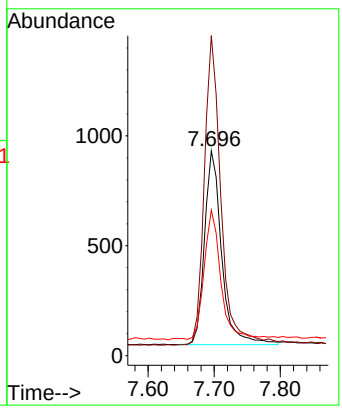


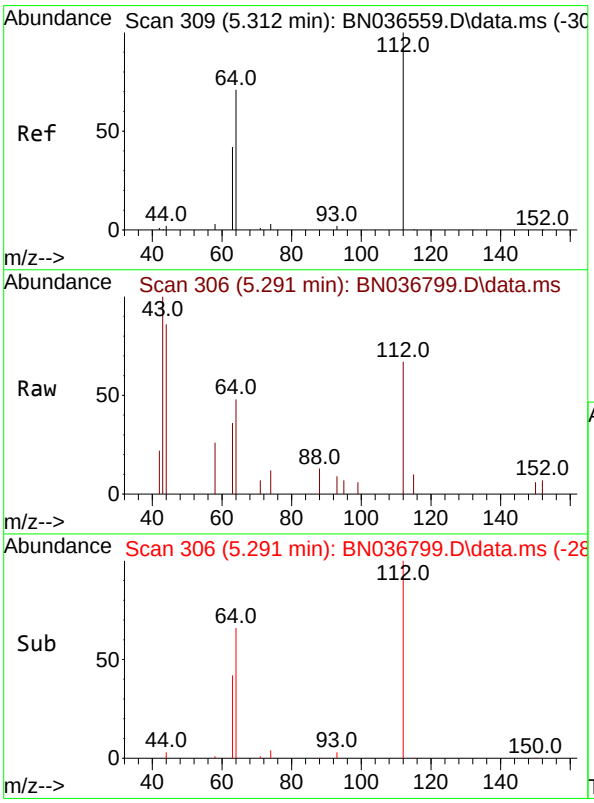

#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.696 min Scan# 6
Delta R.T. -0.028 min
Lab File: BN036799.D
Acq: 29 Mar 2025 07:32

**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01D2-20250320

Tgt Ion:152 Resp: 1587

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 156.2 | 123.7 | 185.5 |
| 115 | 71.0 | 54.3 | 81.5 |

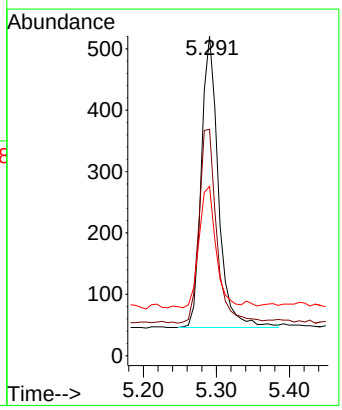


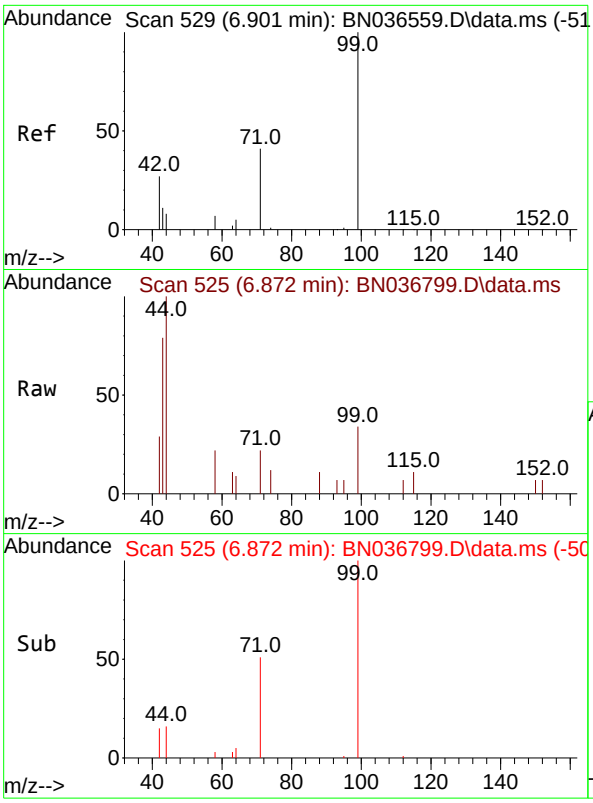




#4
2-Fluorophenol
Concen: 0.208 ng
RT: 5.291 min Scan# 306
Delta R.T. -0.021 min
Lab File: BN036799.D
Acq: 29 Mar 2025 07:32

Tgt Ion:112 Resp: 768

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 68.8 | 53.1 | 79.7 |
| 63 | 41.8 | 31.8 | 47.8 |



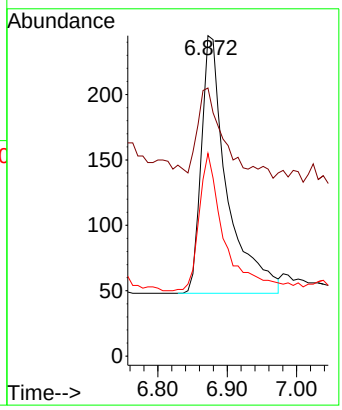


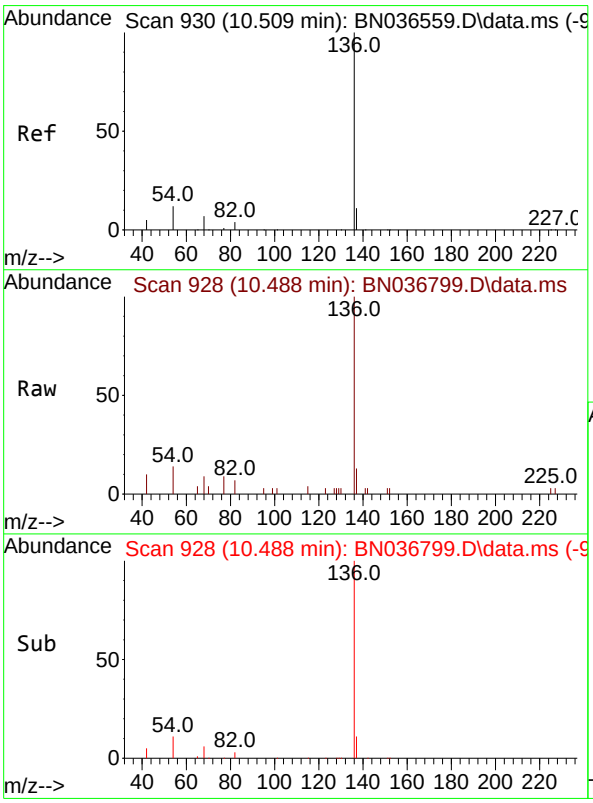

#5
Phenol-d6
Concen: 0.111 ng
RT: 6.872 min Scan# 5
Delta R.T. -0.029 min
Lab File: BN036799.D
Acq: 29 Mar 2025 07:32

**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01D2-20250320

Tgt Ion: 99 Resp: 509

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 28.9 | 26.5 | 39.7 |
| 71 | 53.0 | 34.1 | 51.1# |

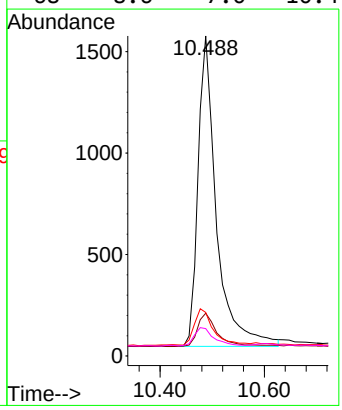


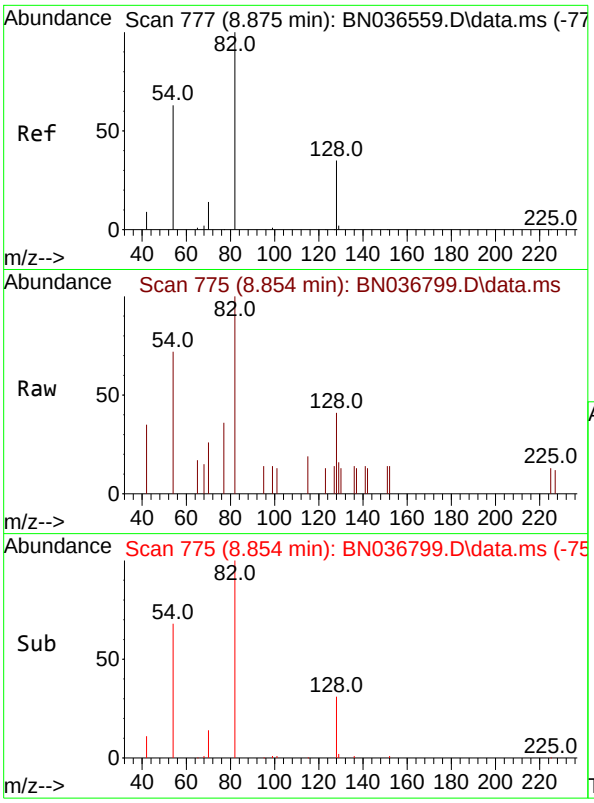




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.488 min Scan# 928
Delta R.T. -0.021 min
Lab File: BN036799.D
Acq: 29 Mar 2025 07:32

Tgt Ion:136 Resp: 3759

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 13.4 | 10.3 | 15.5 |
| 54 | 13.6 | 11.5 | 17.3 |
| 68 | 8.6 | 7.0 | 10.4 |



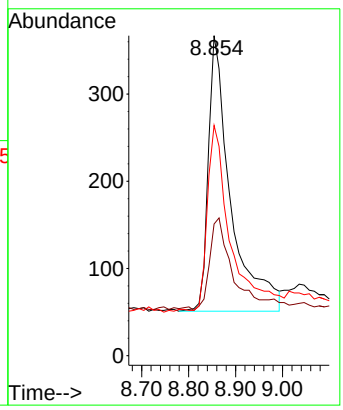


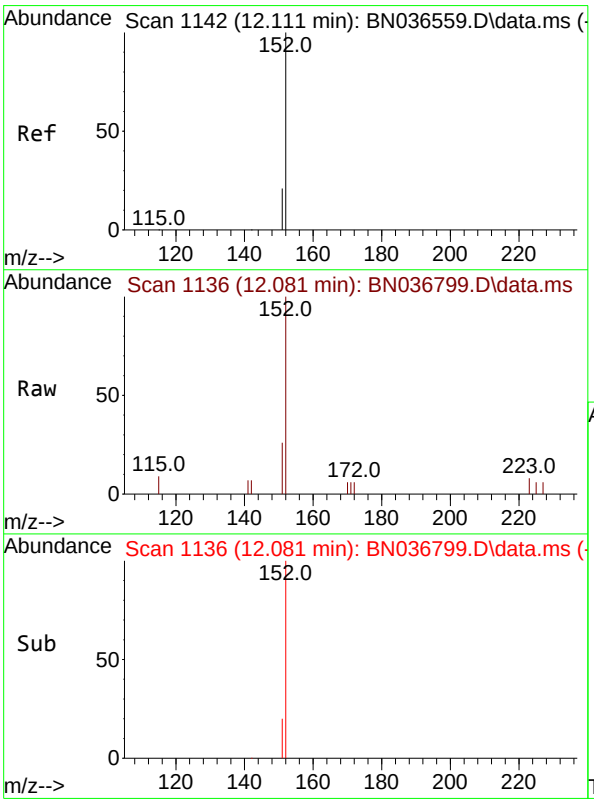

#8
Nitrobenzene-d5
Concen: 0.256 ng
RT: 8.854 min Scan# 7
Delta R.T. -0.021 min
Lab File: BN036799.D
Acq: 29 Mar 2025 07:32

**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01D2-20250320

Tgt Ion: 82 Resp: 1047

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 41.1 | 30.6 | 45.8 |
| 54 | 71.9 | 52.2 | 78.4 |

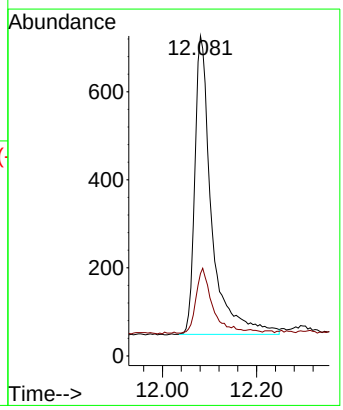


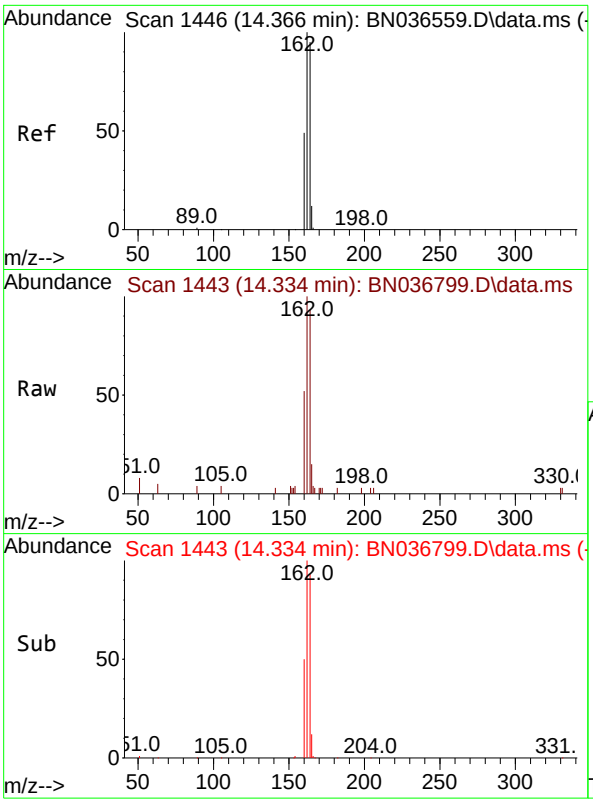




#11
2-Methylnaphthalene-d10
Concen: 0.301 ng
RT: 12.081 min Scan# 1136
Delta R.T. -0.030 min
Lab File: BN036799.D
Acq: 29 Mar 2025 07:32

Tgt Ion:152 Resp: 1685

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.9 | 17.0 | 25.6 |



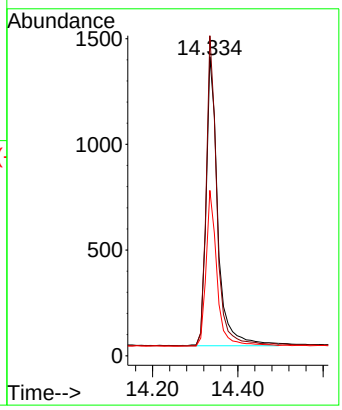


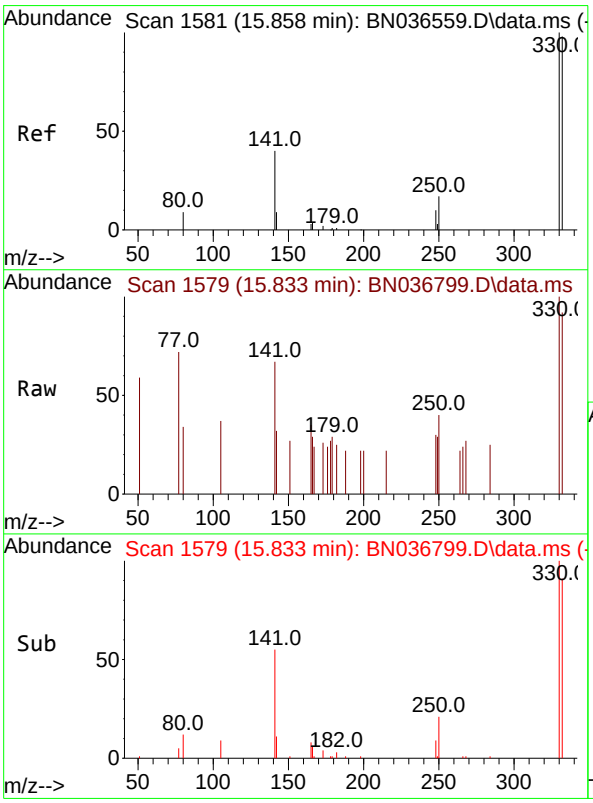

#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.334 min Scan# 14
Delta R.T. -0.032 min
Lab File: BN036799.D
Acq: 29 Mar 2025 07:32

**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01D2-20250320

Tgt Ion:164 Resp: 2611

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 107.0 | 84.2 | 126.2 |
| 160 | 55.3 | 42.2 | 63.2 |

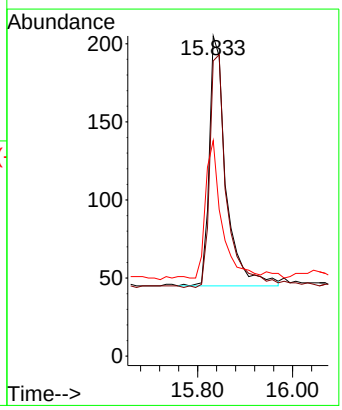


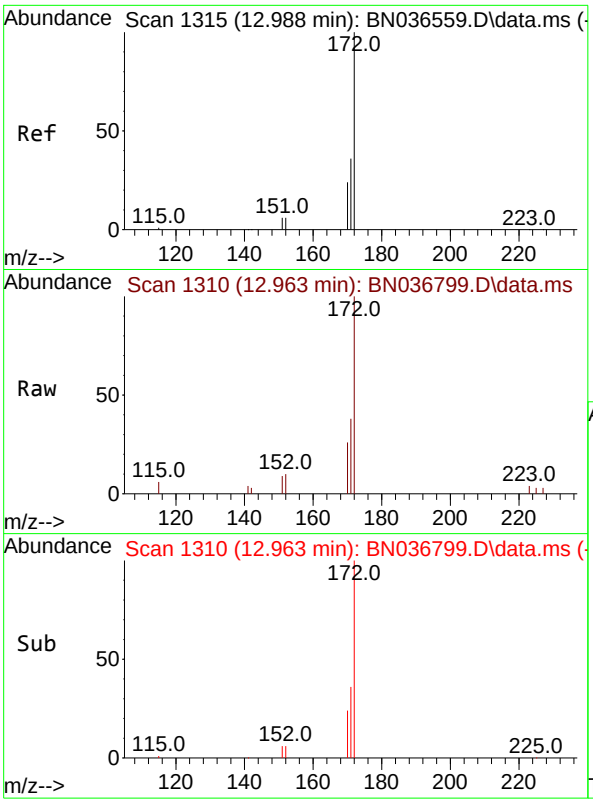




#14
2,4,6-Tribromophenol
Concen: 0.330 ng
RT: 15.833 min Scan# 1579
Delta R.T. -0.025 min
Lab File: BN036799.D
Acq: 29 Mar 2025 07:32

Tgt Ion:330 Resp: 391

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 95.7 | 75.2 | 112.8 |
| 141 | 52.9 | 43.4 | 65.2 |



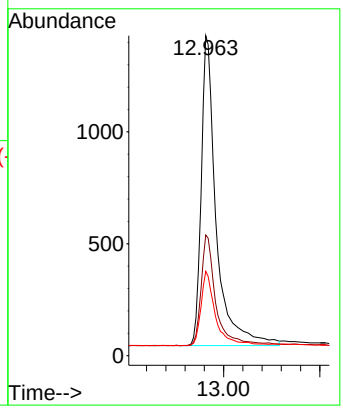


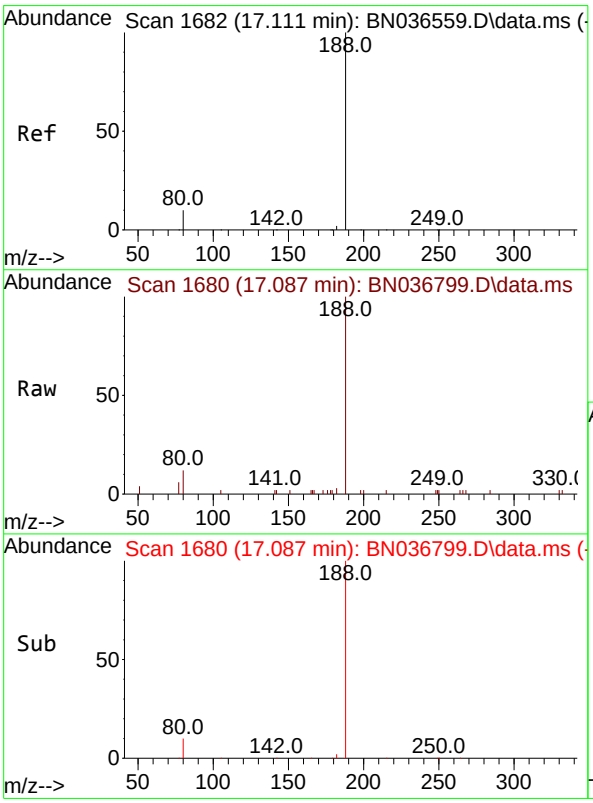

#15
2-Fluorobiphenyl
Concen: 0.254 ng
RT: 12.963 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036799.D
Acq: 29 Mar 2025 07:32

**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01D2-20250320

Tgt Ion:172 Resp: 3853

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 37.7 | 29.5 | 44.3 |
| 170 | 26.4 | 20.2 | 30.4 |

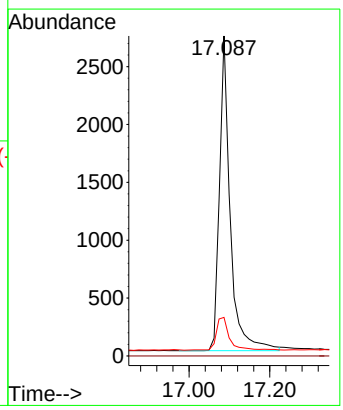


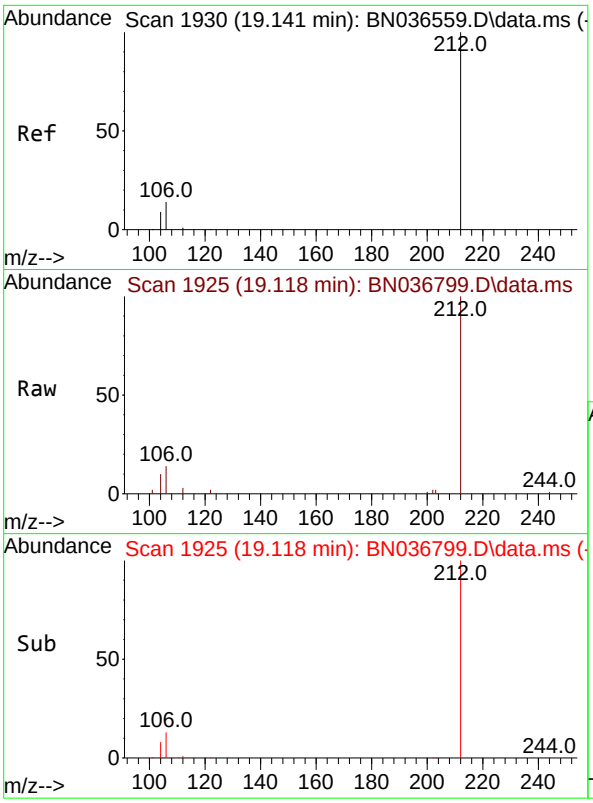




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.087 min Scan# 1680
Delta R.T. -0.025 min
Lab File: BN036799.D
Acq: 29 Mar 2025 07:32

Tgt Ion:188 Resp: 5014

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 12.0 | 8.8 | 13.2 |



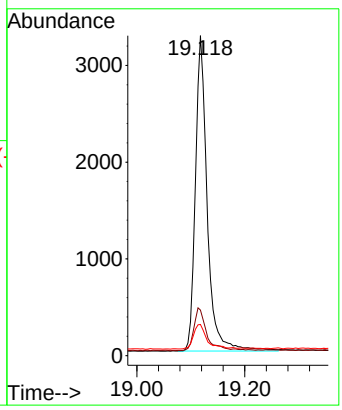


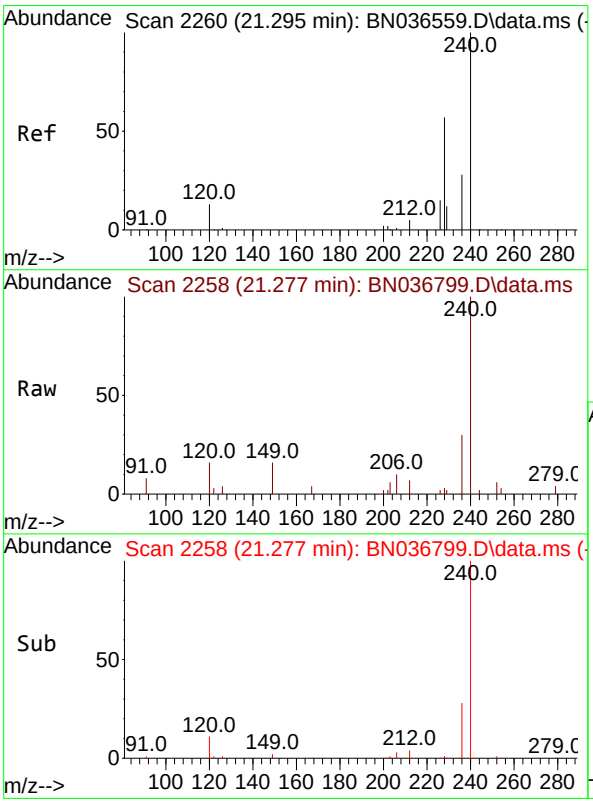

#27
Fluoranthene-d10
Concen: 0.386 ng
RT: 19.118 min Scan# 1
Delta R.T. -0.023 min
Lab File: BN036799.D
Acq: 29 Mar 2025 07:32

**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01D2-20250320

Tgt Ion:212 Resp: 4963

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 14.7 | 11.8 | 17.6 |
| 104 | 8.6 | 7.3 | 10.9 |

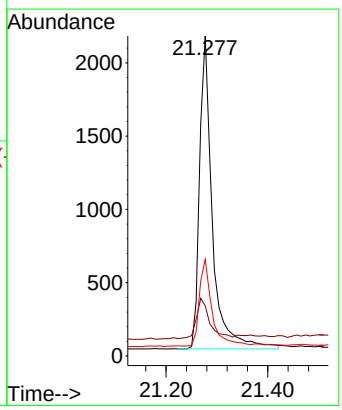


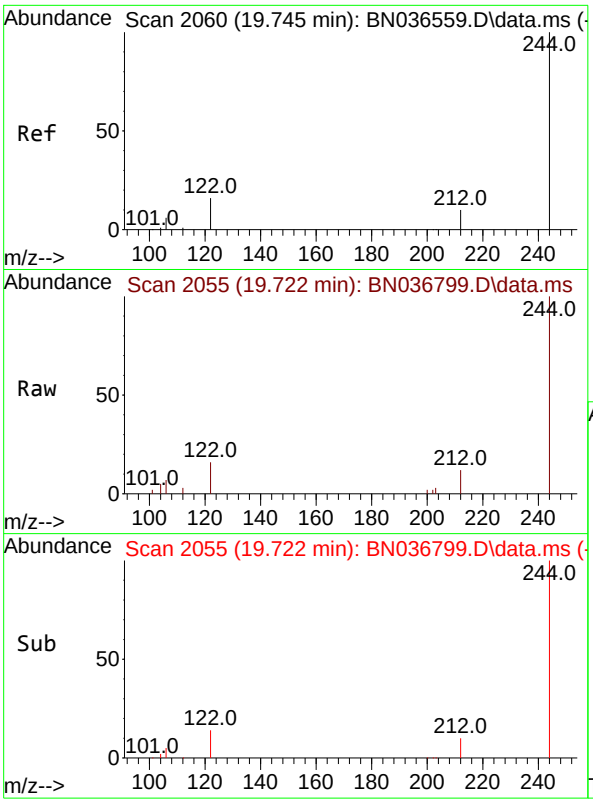




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 2258
Delta R.T. -0.018 min
Lab File: BN036799.D
Acq: 29 Mar 2025 07:32

Tgt Ion:240 Resp: 3745

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 15.7 | 14.6 | 22.0 |
| 236 | 30.2 | 24.1 | 36.1 |



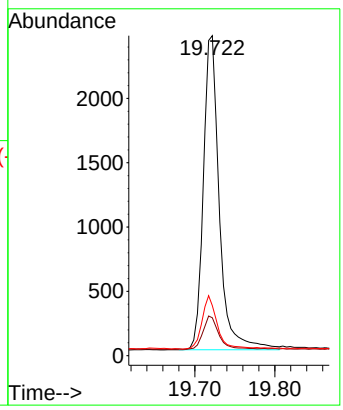


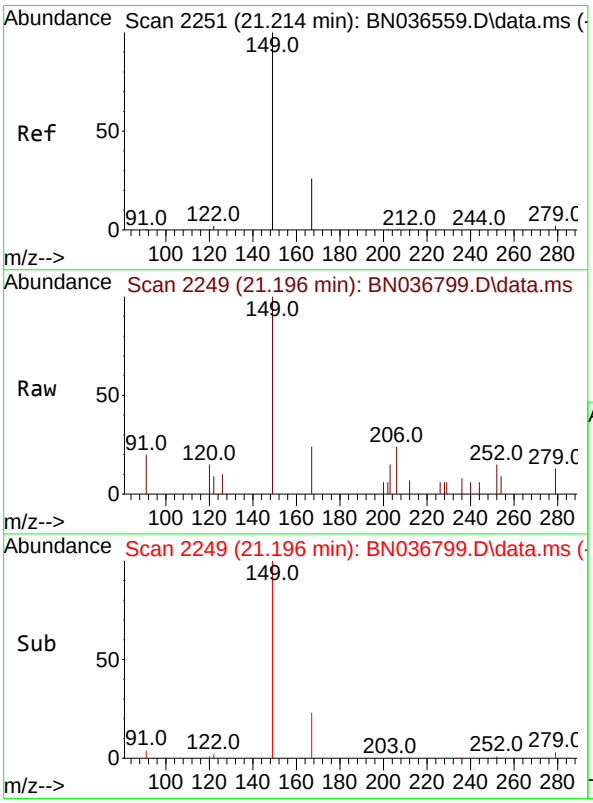

#31
Terphenyl-d14
Concen: 0.378 ng
RT: 19.722 min Scan# 2
Delta R.T. -0.023 min
Lab File: BN036799.D
Acq: 29 Mar 2025 07:32

**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01D2-20250320

Tgt Ion:244 Resp: 3396

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 11.8 | 9.6 | 14.4 |
| 122 | 15.6 | 13.9 | 20.9 |

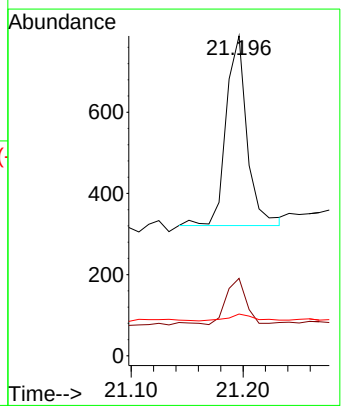


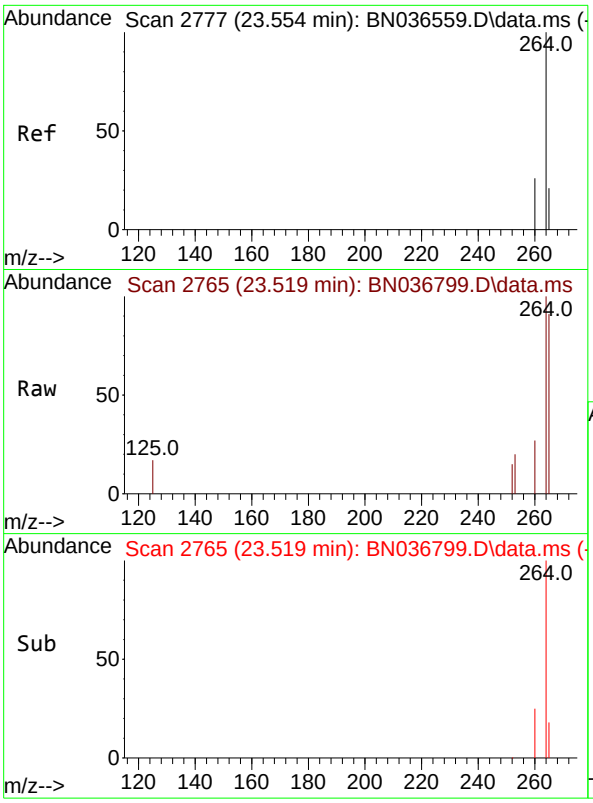




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.066 ng
RT: 21.196 min Scan# 2249
Delta R.T. -0.018 min
Lab File: BN036799.D
Acq: 29 Mar 2025 07:32

Tgt Ion:149 Resp: 610

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 21.3 | 20.7 | 31.1 |
| 279 | 4.4 | 3.6 | 5.4 |



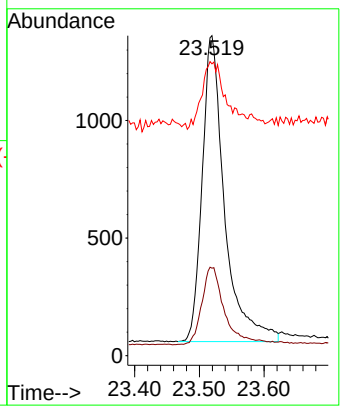



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.519 min Scan# 2
Delta R.T. -0.035 min
Lab File: BN036799.D
Acq: 29 Mar 2025 07:32

**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01D2-20250320

Tgt Ion:264 Resp: 3124

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 27.3 | 22.6 | 33.8 |
| 265 | 91.2 | 88.1 | 132.1 |



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: | 03/20/25 |
| Project: | NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258 | Date Received: | 03/21/25 |
| Client Sample ID: | RW09-MW01D3-20250320 | SDG No.: | Q1629 |
| Lab Sample ID: | Q1629-09 | 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 |
|---|---|---|---|---|
| BN036800.D | 1 | 03/25/25 08:41 | 03/29/25 08:08 | PB167295 |

| 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 | | 92% | SPK: 0.4 |
| 93951-69-0 | Fluoranthene-d10 | 0.41 | | 30 - 150 | | 102% | SPK: 0.4 |
| 4165-60-0 | Nitrobenzene-d5 | 0.32 | | 55 - 111 | | 79% | SPK: 0.4 |
| 321-60-8 | 2-Fluorobiphenyl | 0.36 | | 53 - 106 | | 89% | SPK: 0.4 |
| 1718-51-0 | Terphenyl-d14 | 0.43 | | 58 - 132 | | 108% | SPK: 0.4 |
| **INTERNAL STANDARDS** | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 1640 | 7.695 | | | | |
| 1146-65-2 | Naphthalene-d8 | 3880 | 10.477 | | | | |
| 15067-26-2 | Acenaphthene-d10 | 2530 | 14.334 | | | | |
| 1517-22-2 | Phenanthrene-d10 | 5190 | 17.086 | | | | |
| 1719-03-5 | Chrysene-d12 | 3680 | 21.277 | | | | |
| 1520-96-3 | Perylene-d12 | 3000 | 23.516 | | | | |

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\BN032825\
Data File : BN036800.D
Acq On : 29 Mar 2025 08:08
Operator : RC/JU
Sample : Q1629-09
Misc :
ALS Vial : 31 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01D3-20250320

Quant Time: Mar 31 01:59:08 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

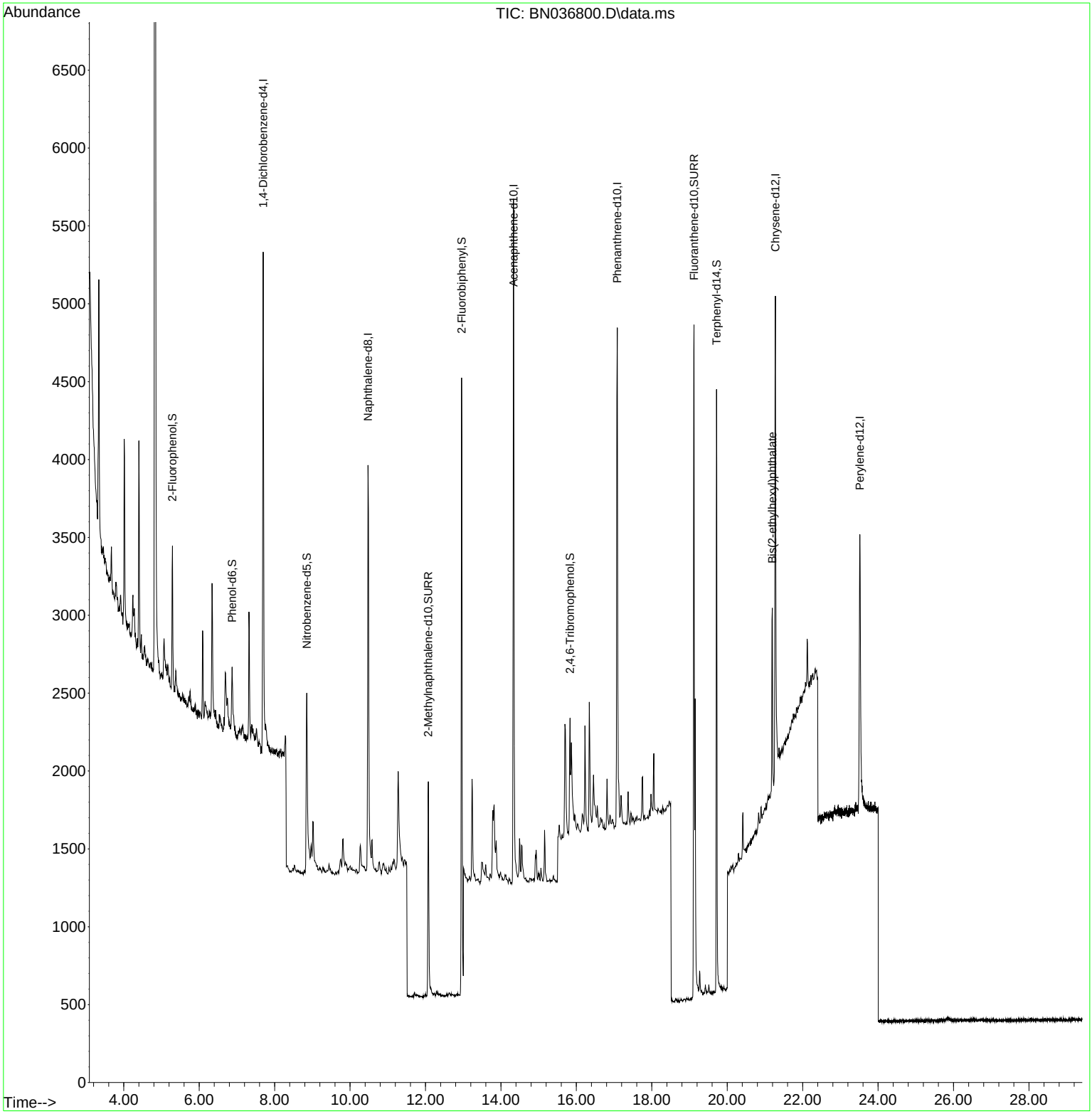
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.695 | 152 | 1638 | 0.400 | ng | -0.03 |
| 7) Naphthalene-d8 | 10.477 | 136 | 3883 | 0.400 | ng | -0.03 |
| 13) Acenaphthene-d10 | 14.334 | 164 | 2532 | 0.400 | ng | -0.03 |
| 19) Phenanthrene-d10 | 17.086 | 188 | 5189 | 0.400 | ng | -0.02 |
| 29) Chrysene-d12 | 21.277 | 240 | 3677 | 0.400 | ng | #-0.02 |
| 35) Perylene-d12 | 23.516 | 264 | 2995 | 0.400 | ng | -0.04 |
| System Monitoring Compounds | | | | | | |
| 4) 2-Fluorophenol | 5.290 | 112 | 672 | 0.176 | ng | -0.02 |
| 5) Phenol-d6 | 6.872 | 99 | 435 | 0.092 | ng | -0.03 |
| 8) Nitrobenzene-d5 | 8.854 | 82 | 1333 | 0.316 | ng | -0.02 |
| 11) 2-Methylnaphthalene-d10 | 12.075 | 152 | 2132 | 0.369 | ng | -0.04 |
| 14) 2,4,6-Tribromophenol | 15.833 | 330 | 471 | 0.410 | ng | -0.02 |
| 15) 2-Fluorobiphenyl | 12.958 | 172 | 5254 | 0.357 | ng | -0.03 |
| 27) Fluoranthene-d10 | 19.118 | 212 | 5440 | 0.409 | ng | -0.02 |
| 31) Terphenyl-d14 | 19.717 | 244 | 3816 | 0.433 | ng | -0.03 |
| Target Compounds | | | | | | Qvalue |
| 34) Bis(2-ethylhexyl)phtha... | 21.196 | 149 | 1338 | 0.147 | ng | # 97 |

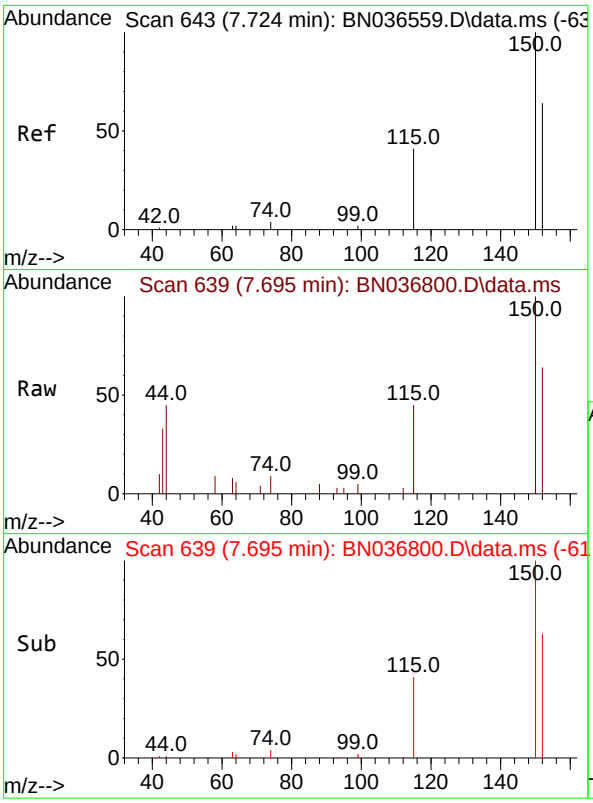
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032825\
Data File : BN036800.D
Acq On : 29 Mar 2025 08:08
Operator : RC/JU
Sample : Q1629-09
Misc :
ALS Vial : 31 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01D3-20250320

Quant Time: Mar 31 01:59:08 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration



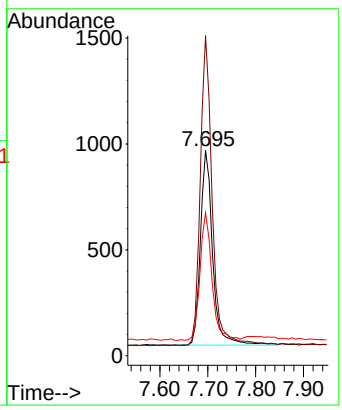


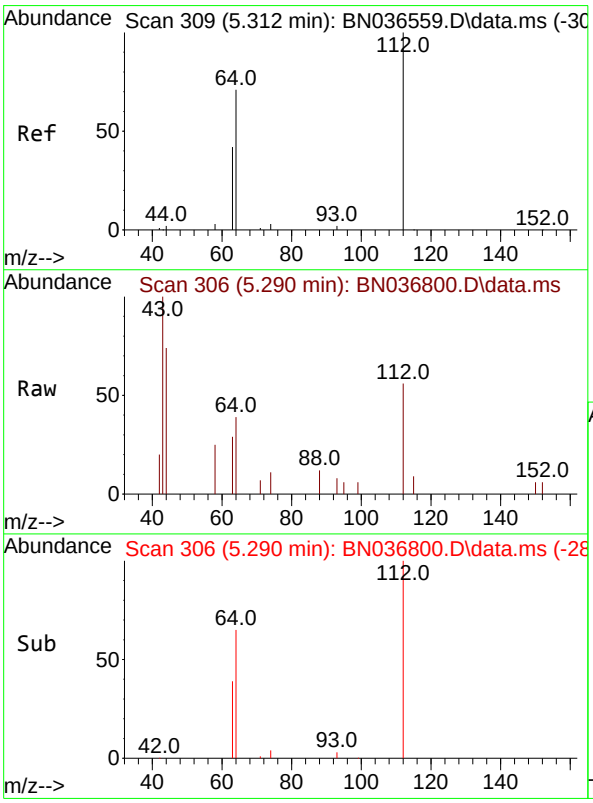

#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.695 min Scan# 6
Delta R.T. -0.029 min
Lab File: BN036800.D
Acq: 29 Mar 2025 08:08

**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01D3-20250320

Tgt Ion:152 Resp: 1638

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 155.9 | 123.7 | 185.5 |
| 115 | 69.7 | 54.3 | 81.5 |

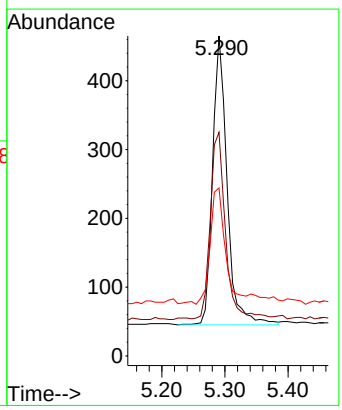


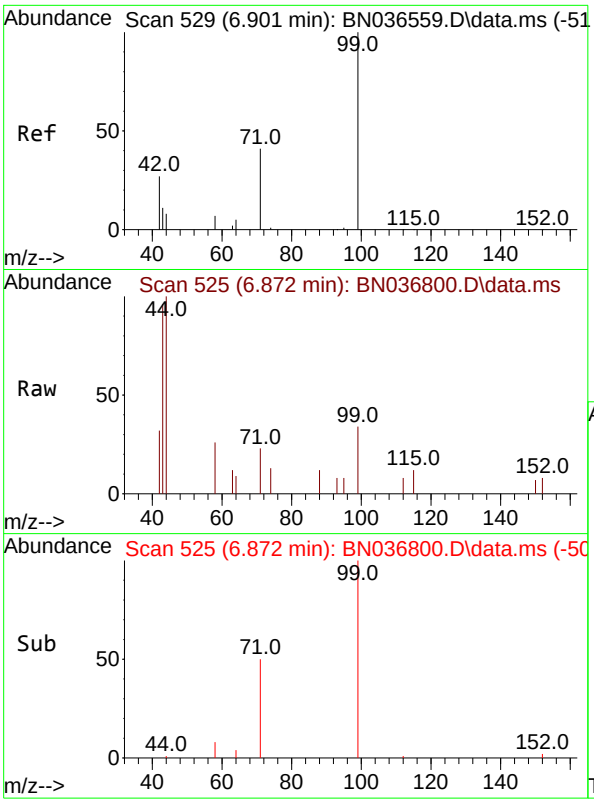




#4
2-Fluorophenol
Concen: 0.176 ng
RT: 5.290 min Scan# 306
Delta R.T. -0.022 min
Lab File: BN036800.D
Acq: 29 Mar 2025 08:08

Tgt Ion:112 Resp: 672

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 67.0 | 53.1 | 79.7 |
| 63 | 40.6 | 31.8 | 47.8 |



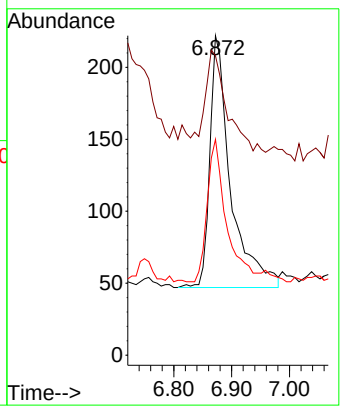


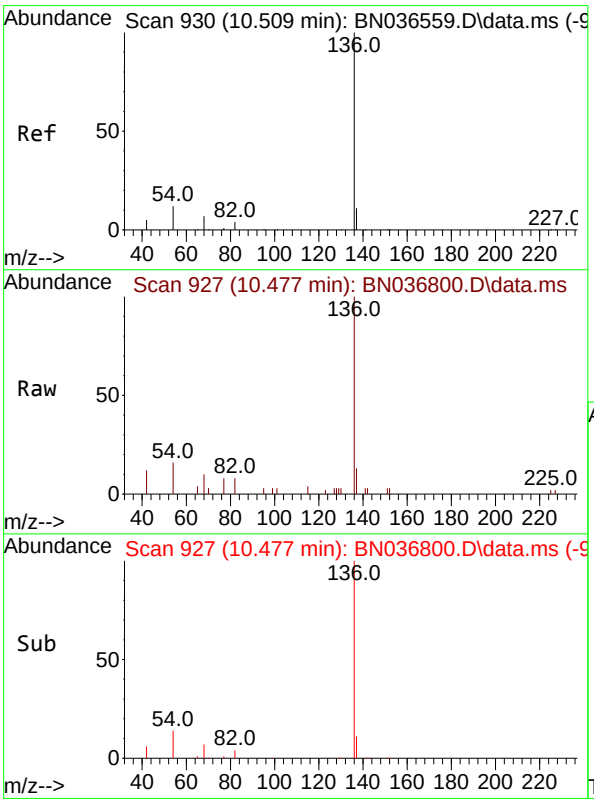

#5
Phenol-d6
Concen: 0.092 ng
RT: 6.872 min Scan# 5
Delta R.T. -0.029 min
Lab File: BN036800.D
Acq: 29 Mar 2025 08:08

**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01D3-20250320

Tgt Ion: 99 Resp: 435

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 44.1 | 26.5 | 39.7# |
| 71 | 52.0 | 34.1 | 51.1# |

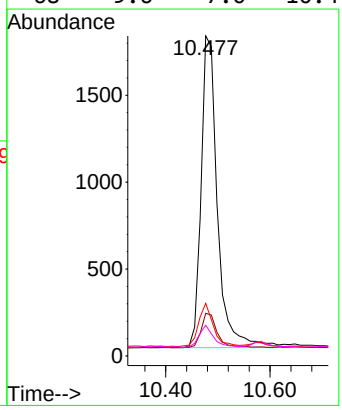


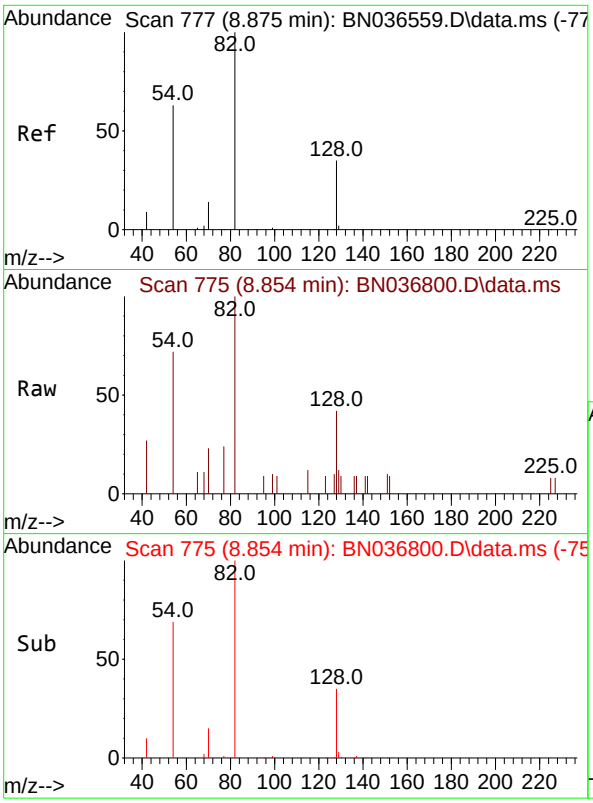




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.477 min Scan# 927
Delta R.T. -0.032 min
Lab File: BN036800.D
Acq: 29 Mar 2025 08:08

Tgt Ion:136 Resp: 3883

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 13.3 | 10.3 | 15.5 |
| 54 | 16.5 | 11.5 | 17.3 |
| 68 | 9.6 | 7.0 | 10.4 |



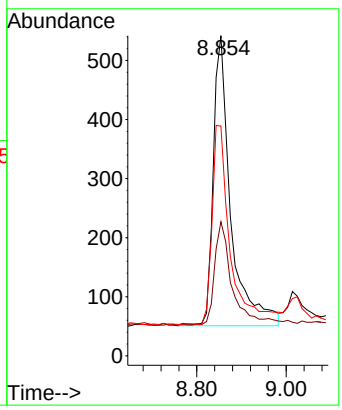


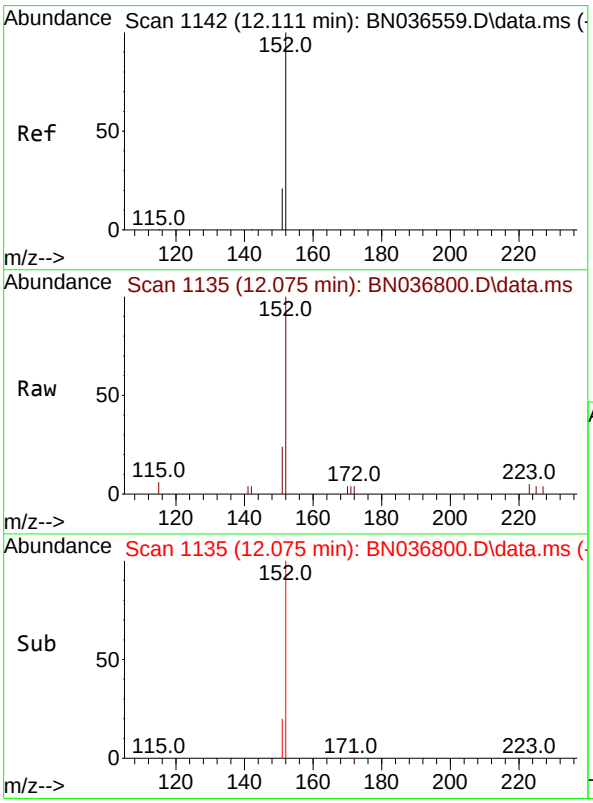

#8
Nitrobenzene-d5
Concen: 0.316 ng
RT: 8.854 min Scan# 7
Delta R.T. -0.021 min
Lab File: BN036800.D
Acq: 29 Mar 2025 08:08

**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01D3-20250320

Tgt Ion: 82 Resp: 1333

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 41.9 | 30.6 | 45.8 |
| 54 | 71.8 | 52.2 | 78.4 |

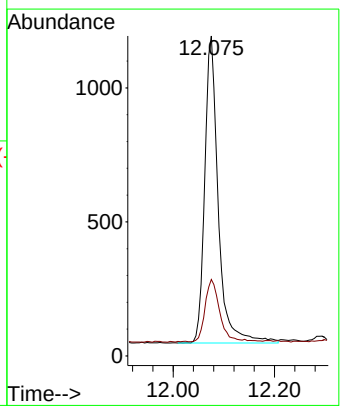


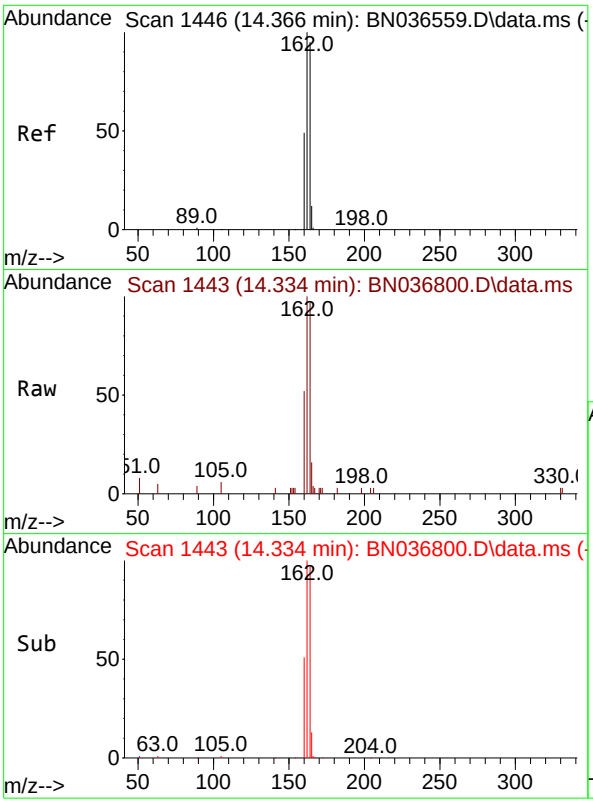




#11
2-Methylnaphthalene-d10
Concen: 0.369 ng
RT: 12.075 min Scan# 1135
Delta R.T. -0.035 min
Lab File: BN036800.D
Acq: 29 Mar 2025 08:08

Tgt Ion:152 Resp: 2132

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 21.9 | 17.0 | 25.6 |



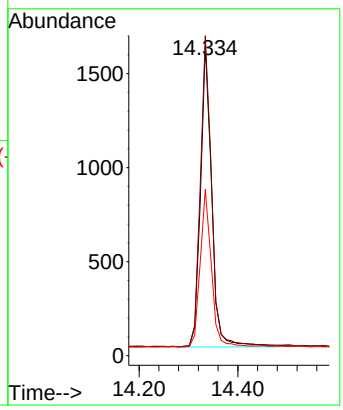


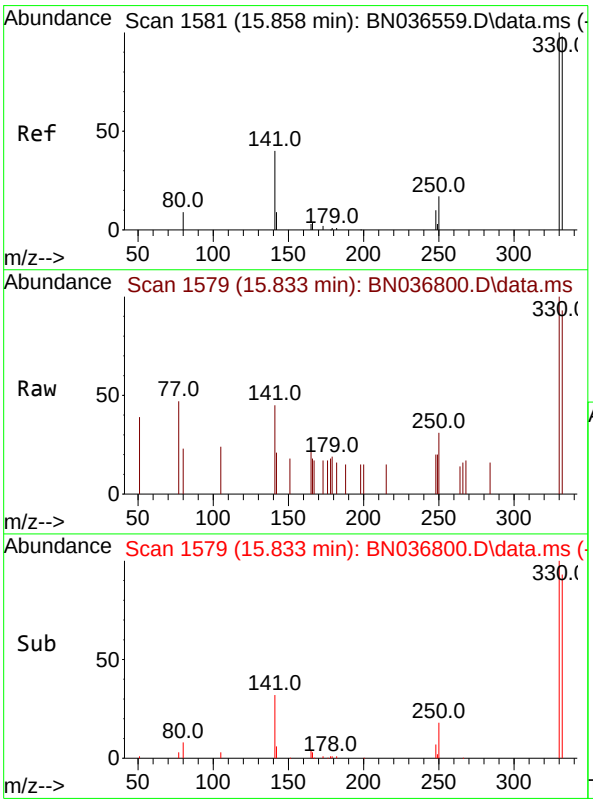

#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.334 min Scan# 14
Delta R.T. -0.032 min
Lab File: BN036800.D
Acq: 29 Mar 2025 08:08

**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01D3-20250320

Tgt Ion:164 Resp: 2532

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 103.2 | 84.2 | 126.2 |
| 160 | 53.6 | 42.2 | 63.2 |

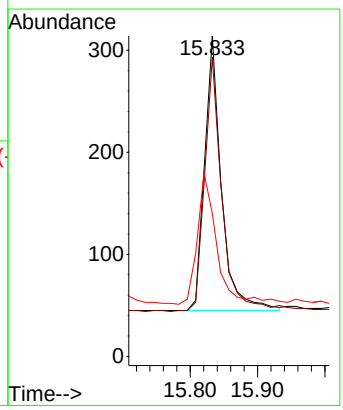


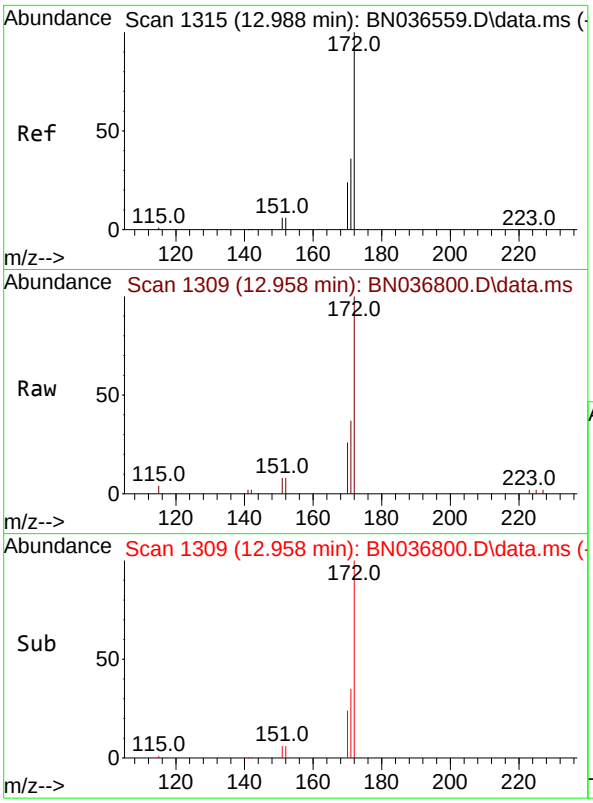




#14
2,4,6-Tribromophenol
Concen: 0.410 ng
RT: 15.833 min Scan# 1579
Delta R.T. -0.025 min
Lab File: BN036800.D
Acq: 29 Mar 2025 08:08

Tgt Ion:330 Resp: 471

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 96.2 | 75.2 | 112.8 |
| 141 | 55.4 | 43.4 | 65.2 |



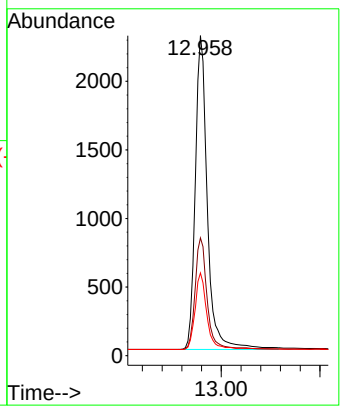


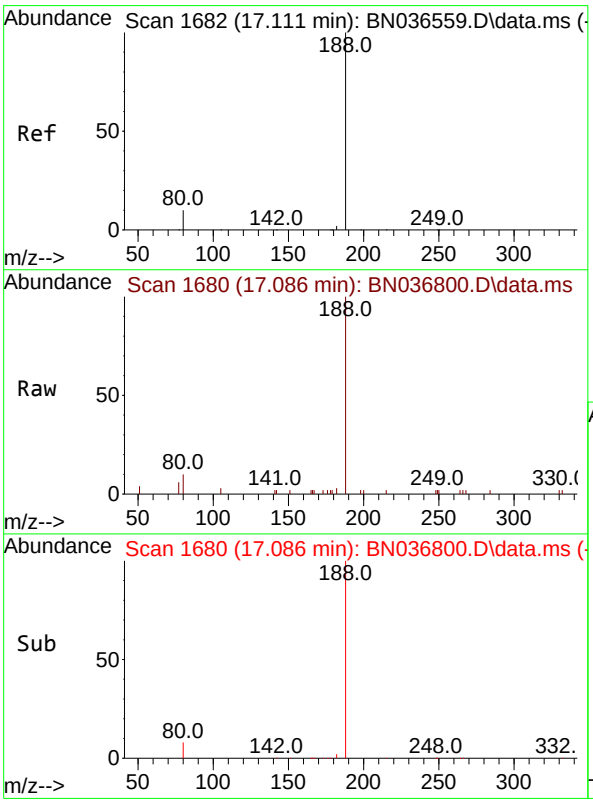

#15
2-Fluorobiphenyl
Concen: 0.357 ng
RT: 12.958 min Scan# 1
Delta R.T. -0.030 min
Lab File: BN036800.D
Acq: 29 Mar 2025 08:08

**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01D3-20250320

Tgt Ion:172 Resp: 5254

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 36.8 | 29.5 | 44.3 |
| 170 | 25.8 | 20.2 | 30.4 |

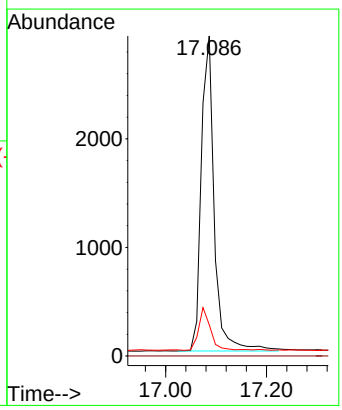


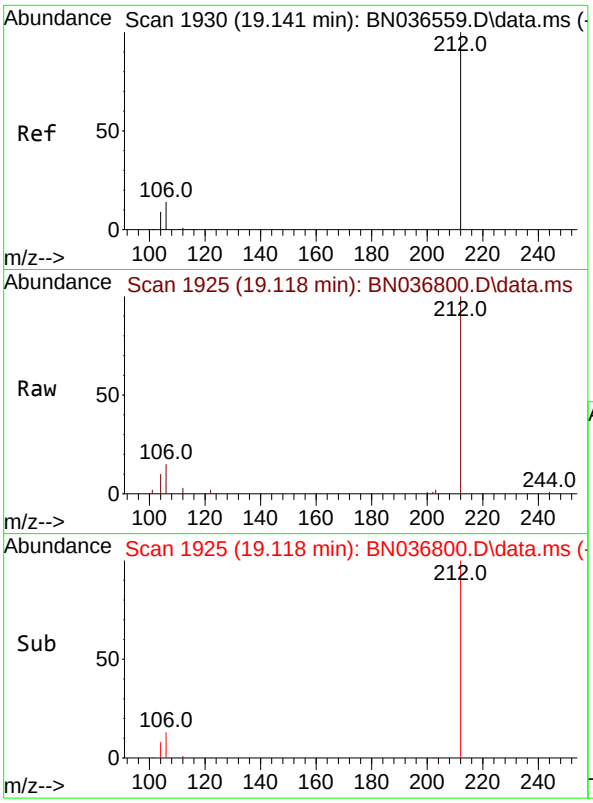




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.086 min Scan# 1680
Delta R.T. -0.025 min
Lab File: BN036800.D
Acq: 29 Mar 2025 08:08

Tgt Ion:188 Resp: 5189

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 9.8 | 8.8 | 13.2 |



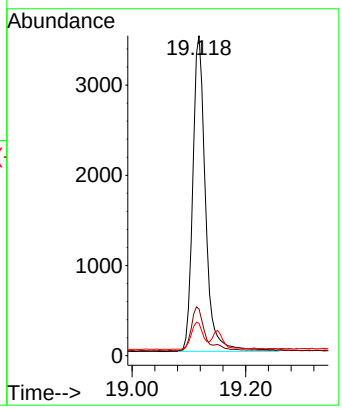


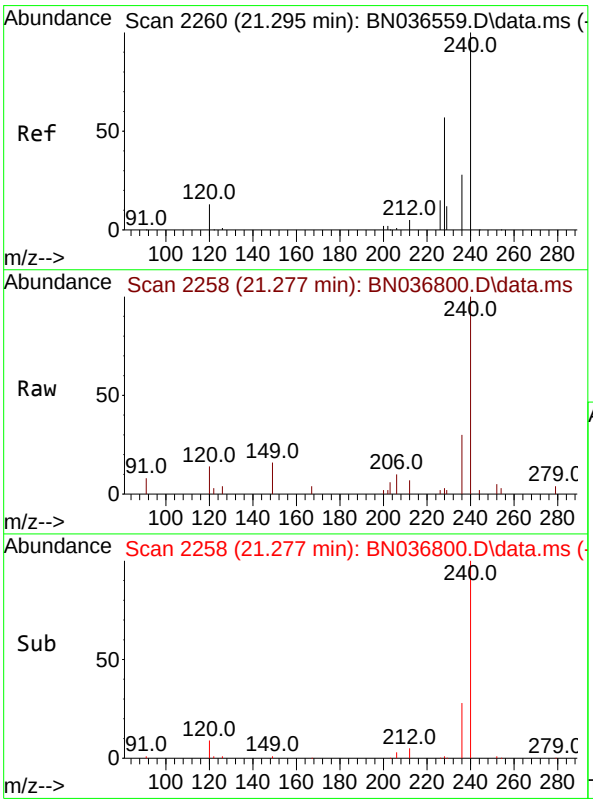

#27
Fluoranthene-d10
Concen: 0.409 ng
RT: 19.118 min Scan# 1
Delta R.T. -0.023 min
Lab File: BN036800.D
Acq: 29 Mar 2025 08:08

**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01D3-20250320

Tgt Ion:212 Resp: 5440

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 15.2 | 11.8 | 17.6 |
| 104 | 8.4 | 7.3 | 10.9 |

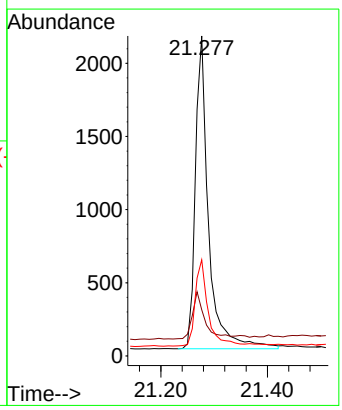


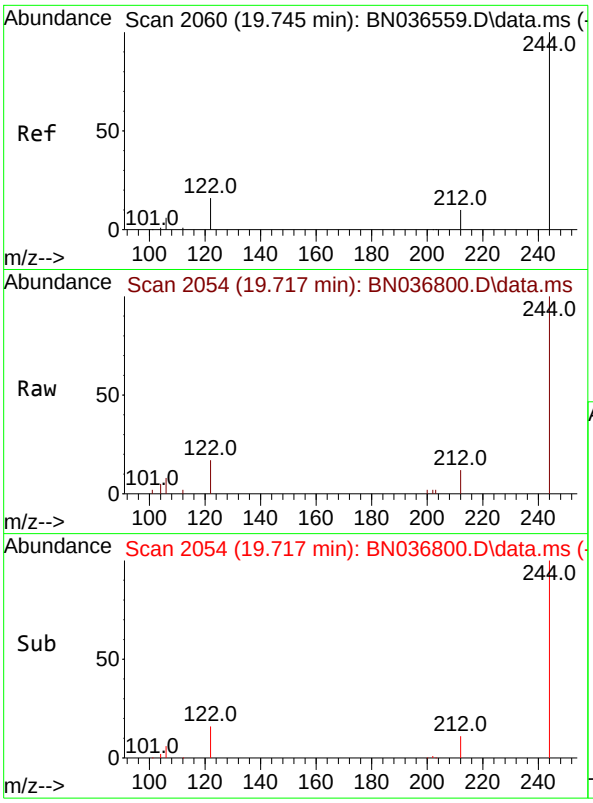




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 2258
Delta R.T. -0.018 min
Lab File: BN036800.D
Acq: 29 Mar 2025 08:08

Tgt Ion:240 Resp: 3677

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 14.4 | 14.6 | 22.0# |
| 236 | 30.0 | 24.1 | 36.1 |



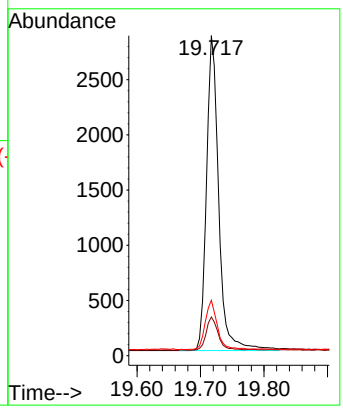


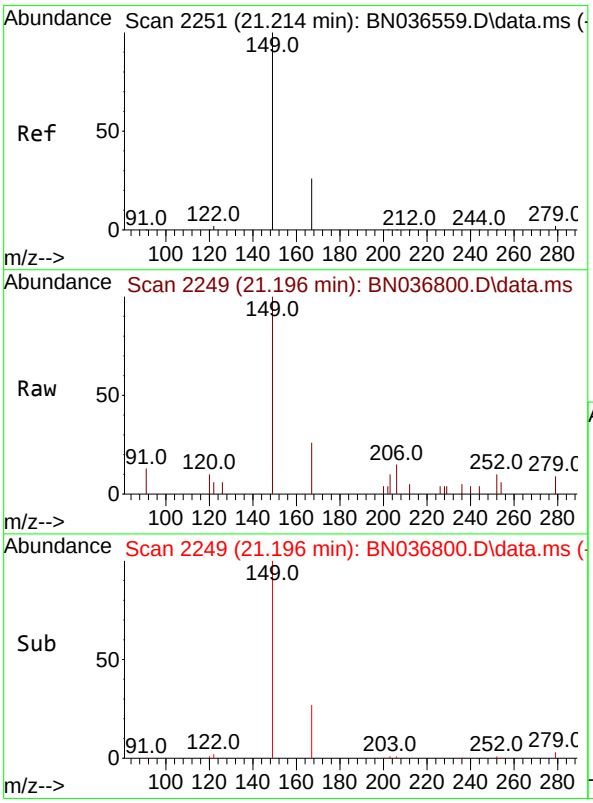

#31
Terphenyl-d14
Concen: 0.433 ng
RT: 19.717 min Scan# 2
Delta R.T. -0.028 min
Lab File: BN036800.D
Acq: 29 Mar 2025 08:08

**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01D3-20250320

Tgt Ion:244 Resp: 3816

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 12.1 | 9.6 | 14.4 |
| 122 | 17.3 | 13.9 | 20.9 |

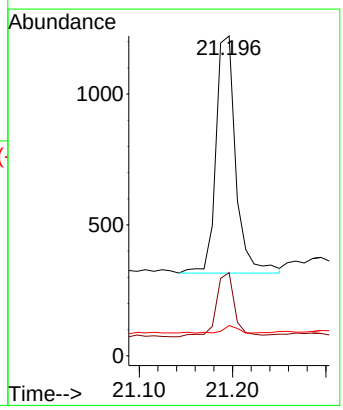


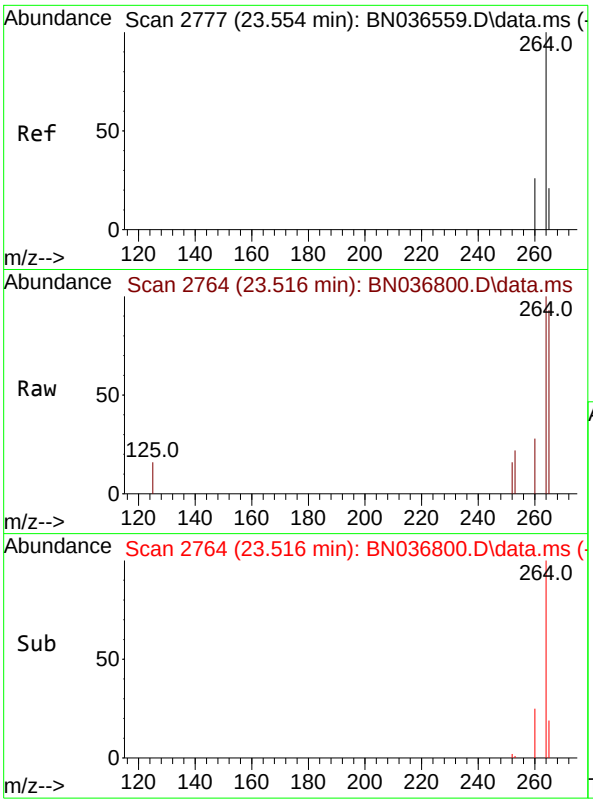




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.147 ng
RT: 21.196 min Scan# 2249
Delta R.T. -0.018 min
Lab File: BN036800.D
Acq: 29 Mar 2025 08:08

Tgt Ion:149 Resp: 1338

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 25.0 | 20.7 | 31.1 |
| 279 | 2.4 | 3.6 | 5.4# |



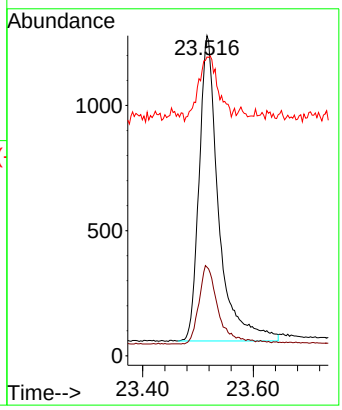



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.516 min Scan# 2
Delta R.T. -0.038 min
Lab File: BN036800.D
Acq: 29 Mar 2025 08:08

**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01D3-20250320

Tgt Ion:264 Resp: 2995

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 27.7 | 22.6 | 33.8 |
| 265 | 93.4 | 88.1 | 132.1 |



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: | 03/20/25 |
| Project: | NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258 | Date Received: | 03/21/25 |
| Client Sample ID: | TT150S1-20250320 | SDG No.: | Q1629 |
| Lab Sample ID: | Q1629-10 | 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 |
|---|---|---|---|---|
| BN036801.D | 1 | 03/25/25 08:41 | 03/29/25 08:44 | PB167295 |

| 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 | 0.41 | | 30 - 150 | | 102% | SPK: 0.4 |
| 4165-60-0 | Nitrobenzene-d5 | 0.29 | | 55 - 111 | | 72% | SPK: 0.4 |
| 321-60-8 | 2-Fluorobiphenyl | 0.34 | | 53 - 106 | | 84% | SPK: 0.4 |
| 1718-51-0 | Terphenyl-d14 | 0.43 | | 58 - 132 | | 108% | SPK: 0.4 |
| **INTERNAL STANDARDS** | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 1640 | 7.696 | | | | |
| 1146-65-2 | Naphthalene-d8 | 3930 | 10.477 | | | | |
| 15067-26-2 | Acenaphthene-d10 | 2500 | 14.334 | | | | |
| 1517-22-2 | Phenanthrene-d10 | 5310 | 17.087 | | | | |
| 1719-03-5 | Chrysene-d12 | 3780 | 21.277 | | | | |
| 1520-96-3 | Perylene-d12 | 3110 | 23.516 | | | | |

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\BN032825\
Data File : BN036801.D
Acq On : 29 Mar 2025 08:44
Operator : RC/JU
Sample : Q1629-10
Misc :
ALS Vial : 32 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
TT150S1-20250320

Quant Time: Mar 31 01:59:26 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

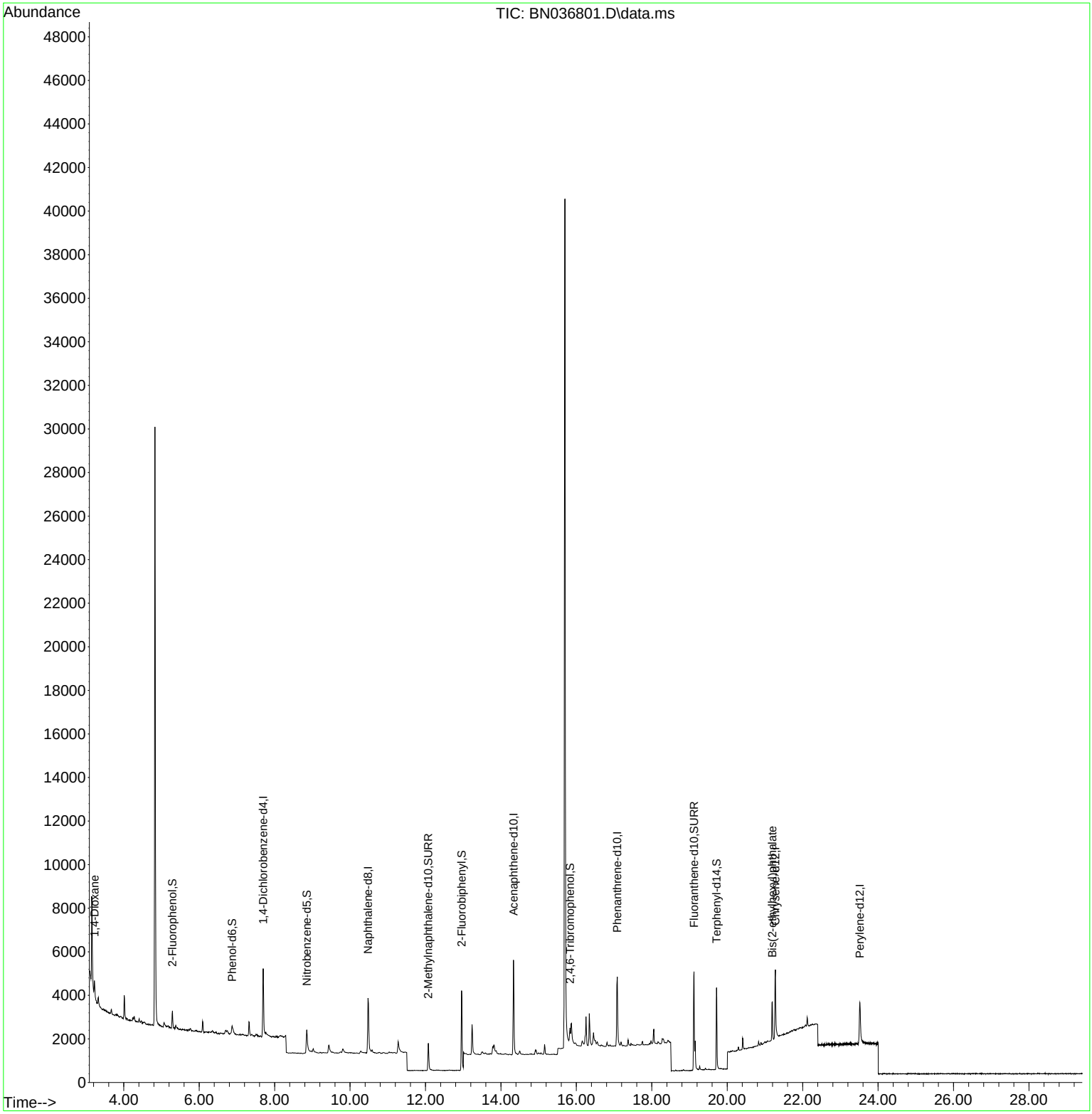
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.696 | 152 | 1638 | 0.400 | ng | -0.03 |
| 7) Naphthalene-d8 | 10.477 | 136 | 3931 | 0.400 | ng | -0.03 |
| 13) Acenaphthene-d10 | 14.334 | 164 | 2498 | 0.400 | ng | -0.03 |
| 19) Phenanthrene-d10 | 17.087 | 188 | 5311 | 0.400 | ng | -0.02 |
| 29) Chrysene-d12 | 21.277 | 240 | 3784 | 0.400 | ng | #-0.02 |
| 35) Perylene-d12 | 23.516 | 264 | 3106 | 0.400 | ng | -0.04 |
| System Monitoring Compounds | | | | | | |
| 4) 2-Fluorophenol | 5.291 | 112 | 574 | 0.150 | ng | -0.02 |
| 5) Phenol-d6 | 6.872 | 99 | 404 | 0.086 | ng | -0.03 |
| 8) Nitrobenzene-d5 | 8.854 | 82 | 1234 | 0.289 | ng | -0.02 |
| 11) 2-Methylnaphthalene-d10 | 12.076 | 152 | 1961 | 0.335 | ng | -0.04 |
| 14) 2,4,6-Tribromophenol | 15.833 | 330 | 432 | 0.381 | ng | -0.02 |
| 15) 2-Fluorobiphenyl | 12.958 | 172 | 4892 | 0.337 | ng | -0.03 |
| 27) Fluoranthene-d10 | 19.118 | 212 | 5561 | 0.409 | ng | -0.02 |
| 31) Terphenyl-d14 | 19.717 | 244 | 3909 | 0.431 | ng | -0.03 |
| Target Compounds | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.225 | 88 | 439 | 0.242 | ng | # 46 |
| 34) Bis(2-ethylhexyl)phtha... | 21.196 | 149 | 1981 | 0.211 | ng | # 95 |

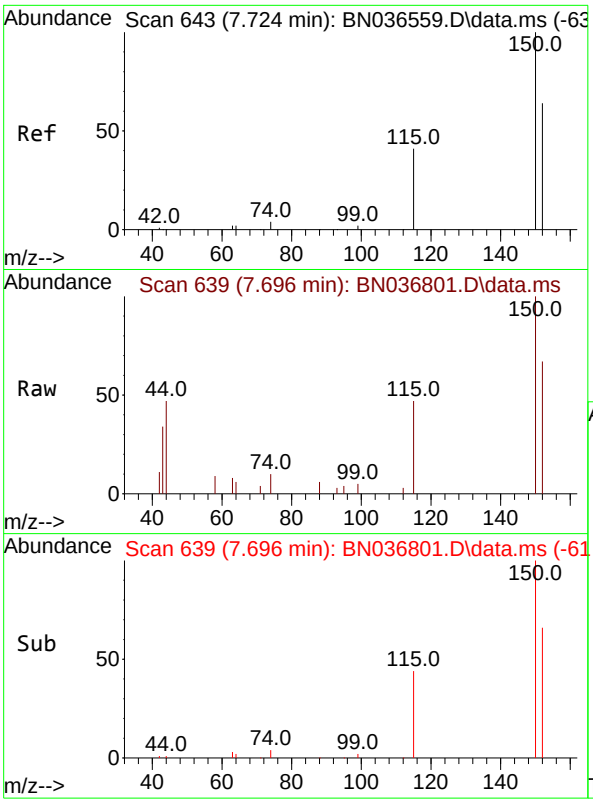
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032825\
Data File : BN036801.D
Acq On : 29 Mar 2025 08:44
Operator : RC/JU
Sample : Q1629-10
Misc :
ALS Vial : 32 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
TT150S1-20250320

Quant Time: Mar 31 01:59:26 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration



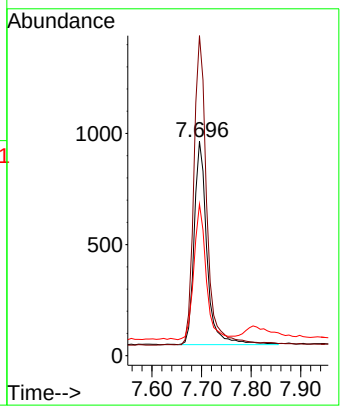


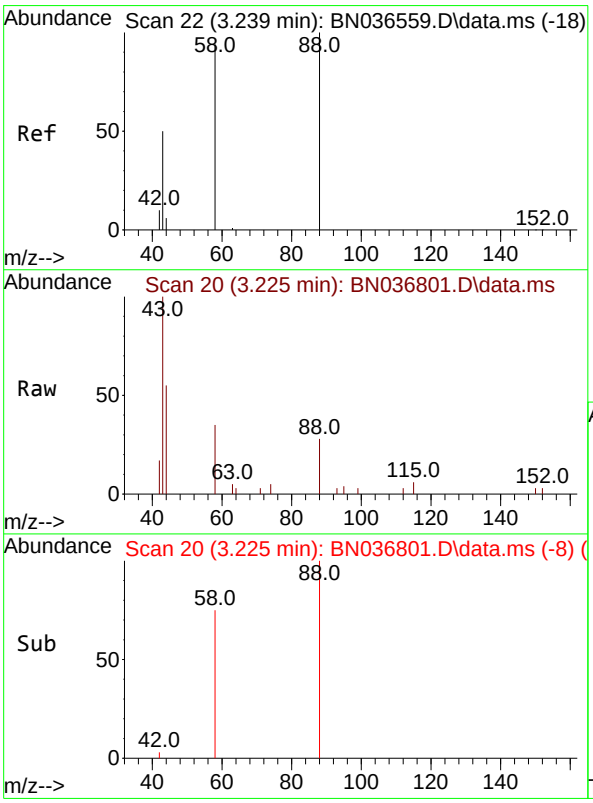

#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.696 min Scan# 6
Delta R.T. -0.028 min
Lab File: BN036801.D
Acq: 29 Mar 2025 08:44

**Instrument :**
BNA_N
**ClientSampleId :**
TT150S1-20250320

Tgt Ion:152 Resp: 1638

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 149.4 | 123.7 | 185.5 |
| 115 | 70.7 | 54.3 | 81.5 |

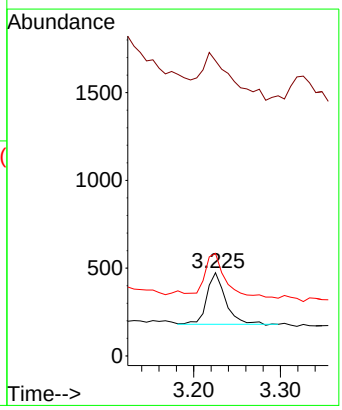


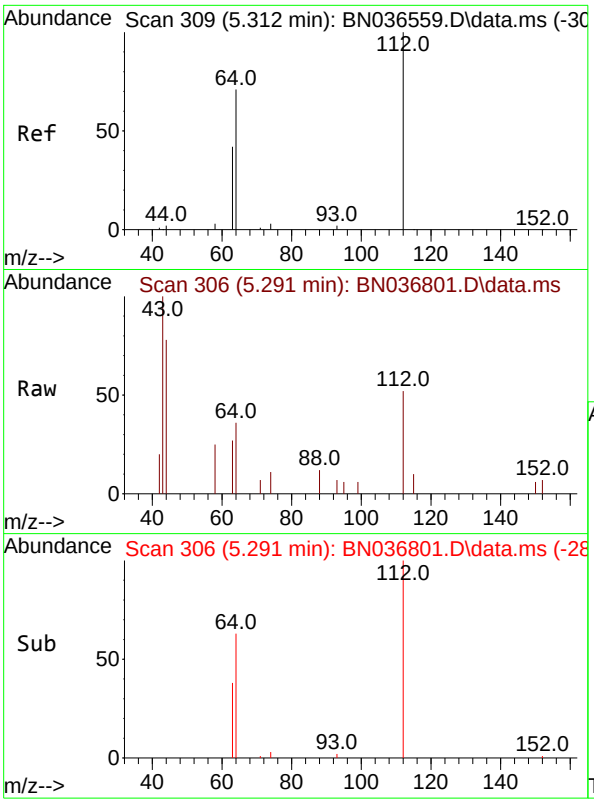




#2
1,4-Dioxane
Concen: 0.242 ng
RT: 3.225 min Scan# 20
Delta R.T. -0.014 min
Lab File: BN036801.D
Acq: 29 Mar 2025 08:44

Tgt Ion: 88 Resp: 439

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 126.9 | 37.8 | 56.8# |
| 58 | 100.0 | 67.4 | 101.2 |



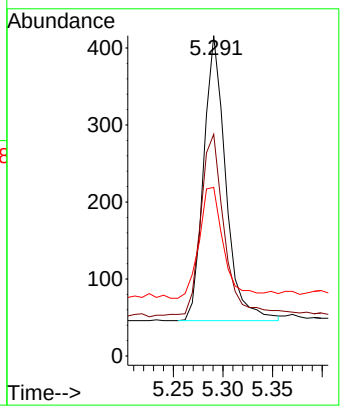


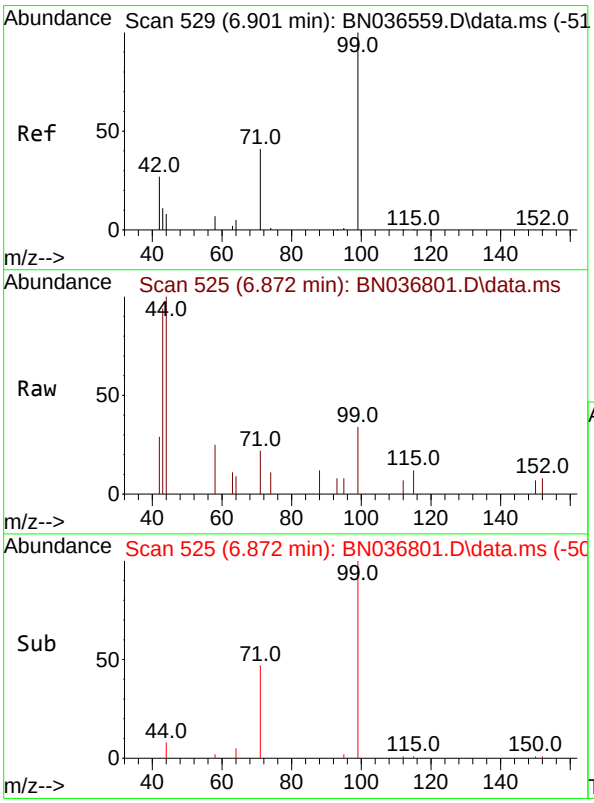

#4
2-Fluorophenol
Concen: 0.150 ng
RT: 5.291 min Scan# 3
Delta R.T. -0.021 min
Lab File: BN036801.D
Acq: 29 Mar 2025 08:44

**Instrument :**
BNA_N
**ClientSampleId :**
TT150S1-20250320

Tgt Ion:112 Resp: 574

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 72.8 | 53.1 | 79.7 |
| 63 | 43.0 | 31.8 | 47.8 |

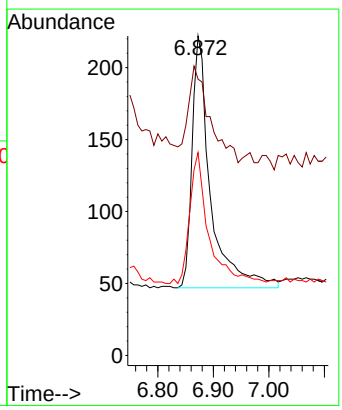


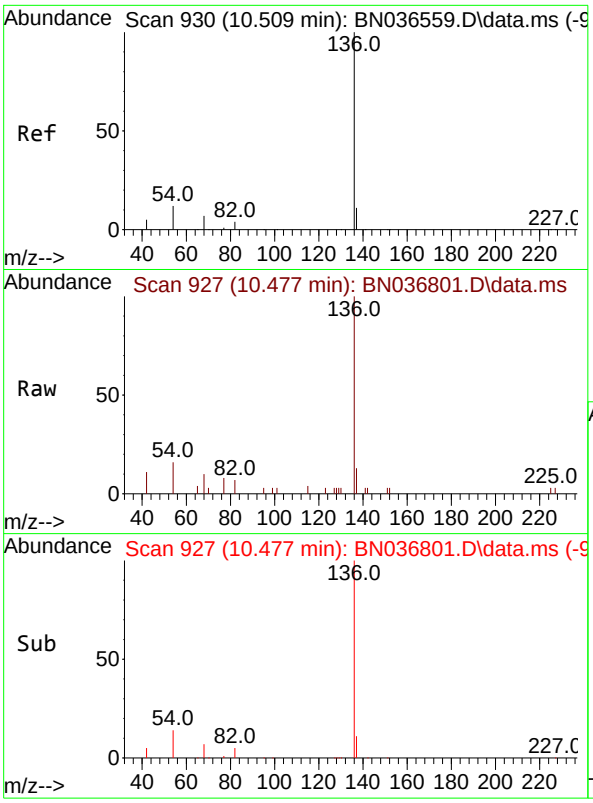




#5
Phenol-d6
Concen: 0.086 ng
RT: 6.872 min Scan# 525
Delta R.T. -0.029 min
Lab File: BN036801.D
Acq: 29 Mar 2025 08:44

Tgt Ion: 99 Resp: 404

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 44.3 | 26.5 | 39.7# |
| 71 | 53.0 | 34.1 | 51.1# |



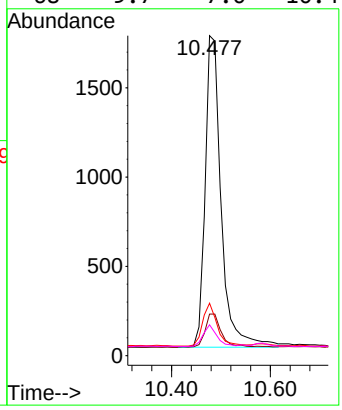


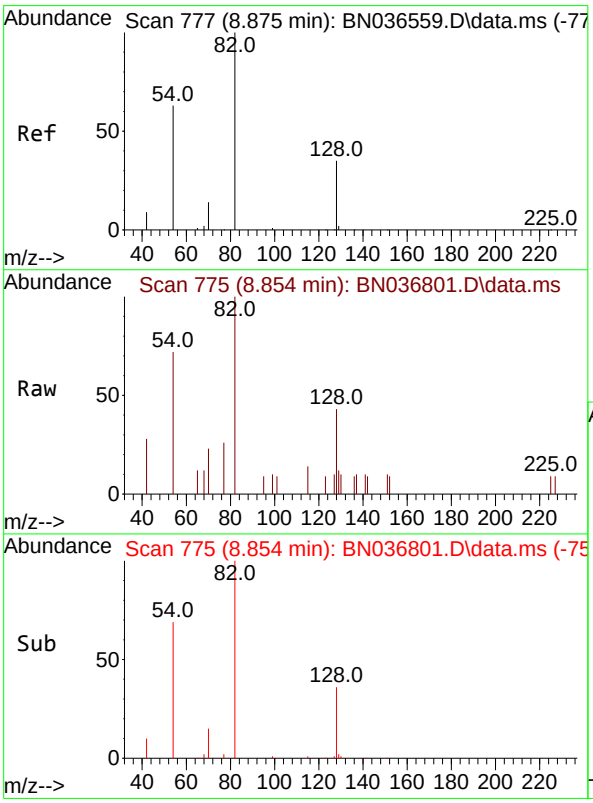

#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.477 min Scan# 9
Delta R.T. -0.032 min
Lab File: BN036801.D
Acq: 29 Mar 2025 08:44

**Instrument :**
BNA_N
**ClientSampleId :**
TT150S1-20250320

Tgt Ion:136 Resp: 3931

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 13.0 | 10.3 | 15.5 |
| 54 | 16.4 | 11.5 | 17.3 |
| 68 | 9.7 | 7.0 | 10.4 |

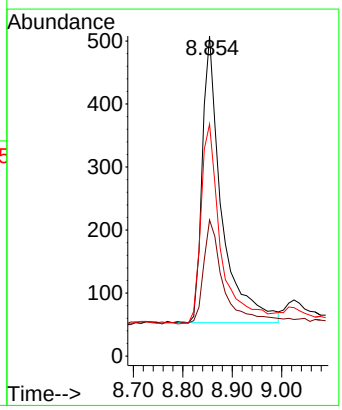


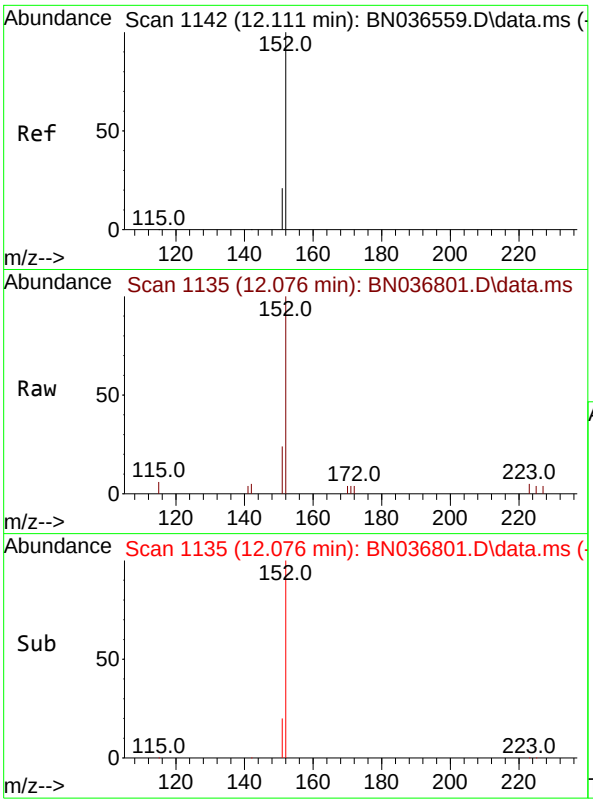




#8
Nitrobenzene-d5
Concen: 0.289 ng
RT: 8.854 min Scan# 775
Delta R.T. -0.021 min
Lab File: BN036801.D
Acq: 29 Mar 2025 08:44

Tgt Ion: 82 Resp: 1234

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 42.5 | 30.6 | 45.8 |
| 54 | 72.4 | 52.2 | 78.4 |



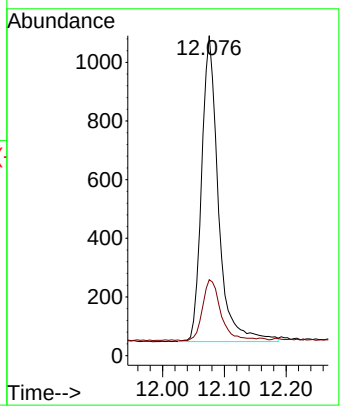


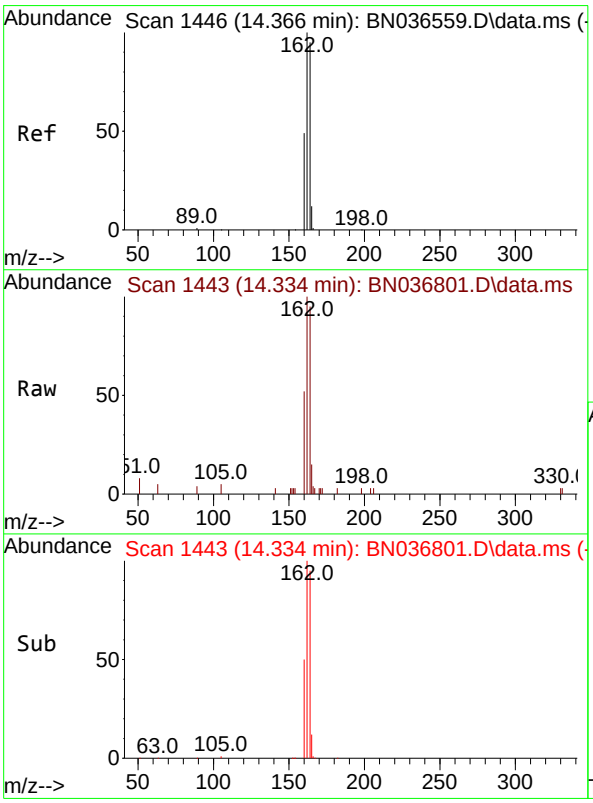

#11
2-Methylnaphthalene-d10
Concen: 0.335 ng
RT: 12.076 min Scan# 11
Delta R.T. -0.035 min
Lab File: BN036801.D
Acq: 29 Mar 2025 08:44

**Instrument :**
BNA_N
**ClientSampleId :**
TT150S1-20250320

Tgt Ion:152 Resp: 1961

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 21.8 | 17.0 | 25.6 |

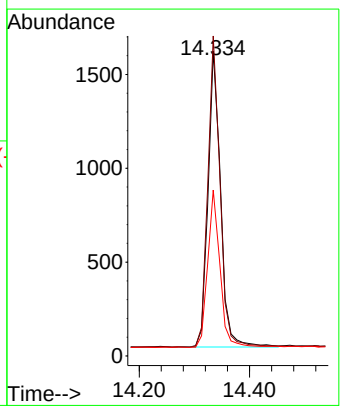


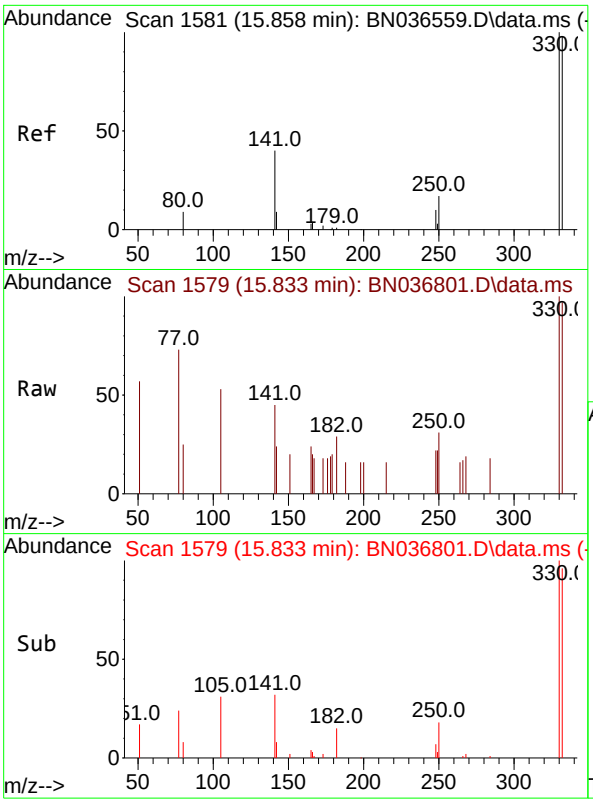




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.334 min Scan# 1443
Delta R.T. -0.032 min
Lab File: BN036801.D
Acq: 29 Mar 2025 08:44

Tgt Ion:164 Resp: 2498

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 105.0 | 84.2 | 126.2 |
| 160 | 54.4 | 42.2 | 63.2 |



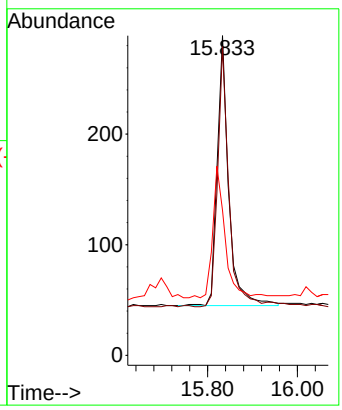


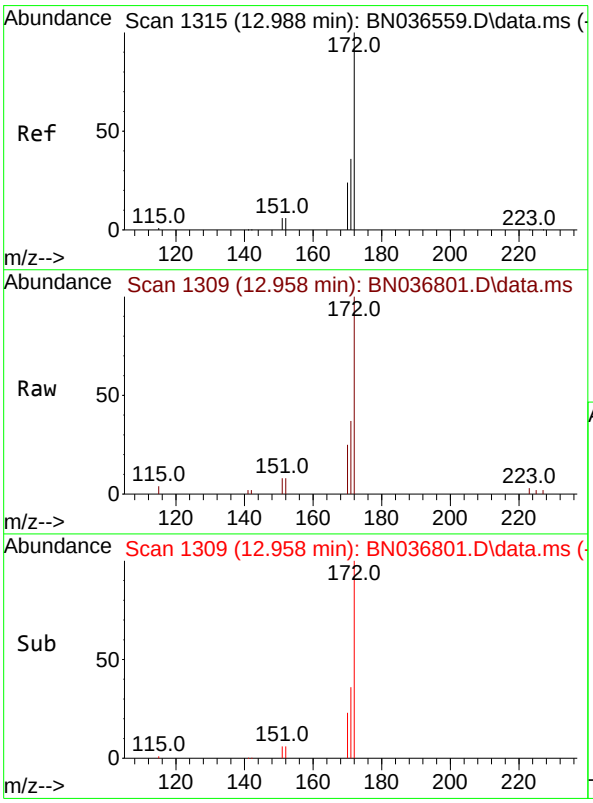

#14
2,4,6-Tribromophenol
Concen: 0.381 ng
RT: 15.833 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036801.D
Acq: 29 Mar 2025 08:44

**Instrument :**
BNA_N
**ClientSampleId :**
TT150S1-20250320

Tgt Ion:330 Resp: 432

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 95.4 | 75.2 | 112.8 |
| 141 | 53.0 | 43.4 | 65.2 |

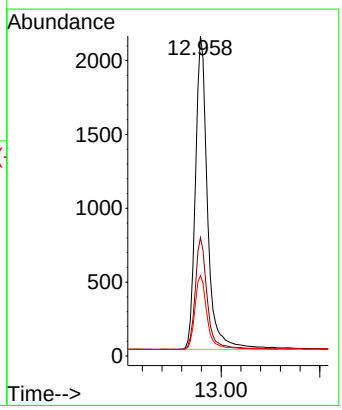


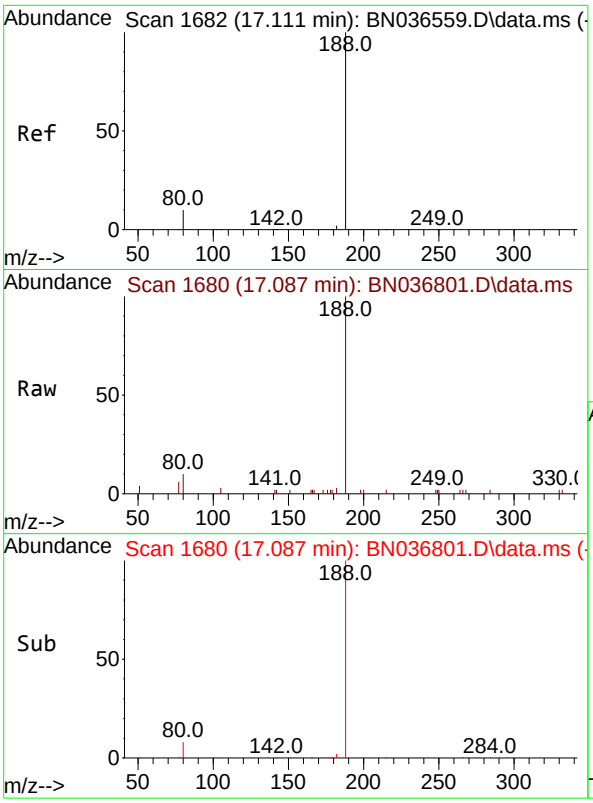




#15
2-Fluorobiphenyl
Concen: 0.337 ng
RT: 12.958 min Scan# 1309
Delta R.T. -0.030 min
Lab File: BN036801.D
Acq: 29 Mar 2025 08:44

Tgt Ion:172 Resp: 4892

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 37.0 | 29.5 | 44.3 |
| 170 | 25.1 | 20.2 | 30.4 |



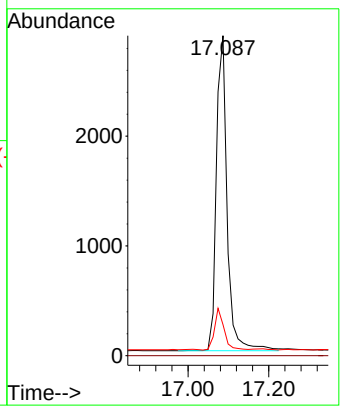


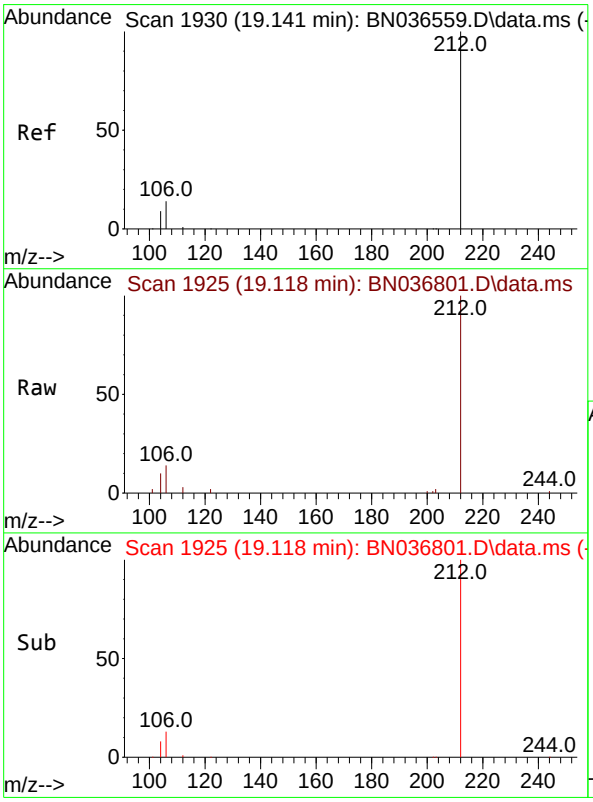

#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.087 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036801.D
Acq: 29 Mar 2025 08:44

**Instrument :**
BNA_N
**ClientSampleId :**
TT150S1-20250320

Tgt Ion:188 Resp: 5311

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 9.7 | 8.8 | 13.2 |

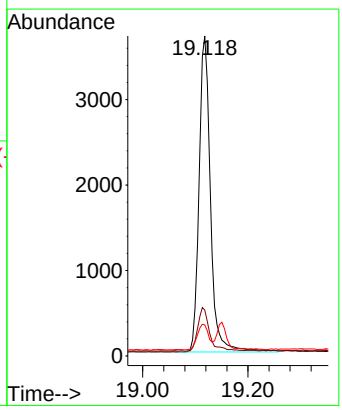


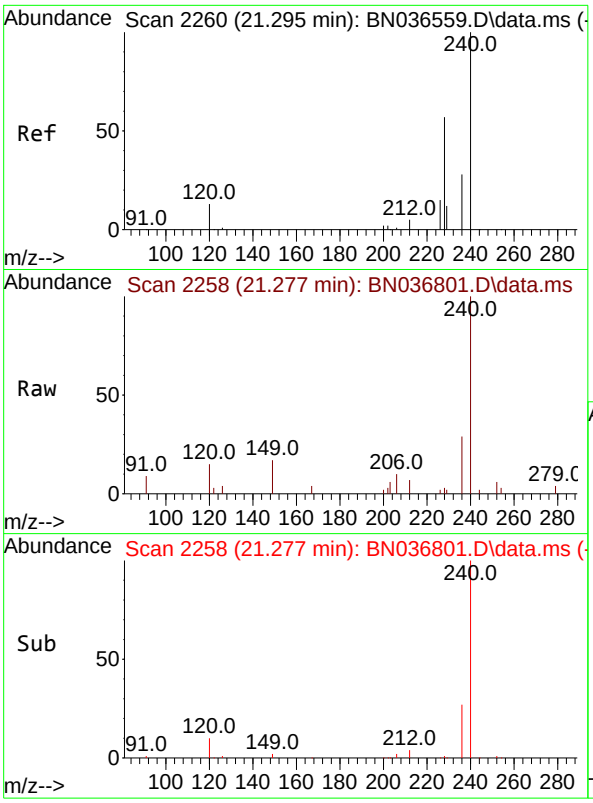




#27
Fluoranthene-d10
Concen: 0.409 ng
RT: 19.118 min Scan# 1925
Delta R.T. -0.023 min
Lab File: BN036801.D
Acq: 29 Mar 2025 08:44

Tgt Ion:212 Resp: 5561

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 14.5 | 11.8 | 17.6 |
| 104 | 8.0 | 7.3 | 10.9 |



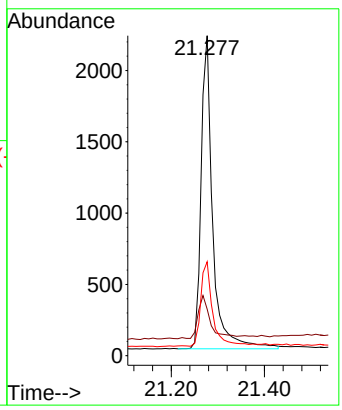


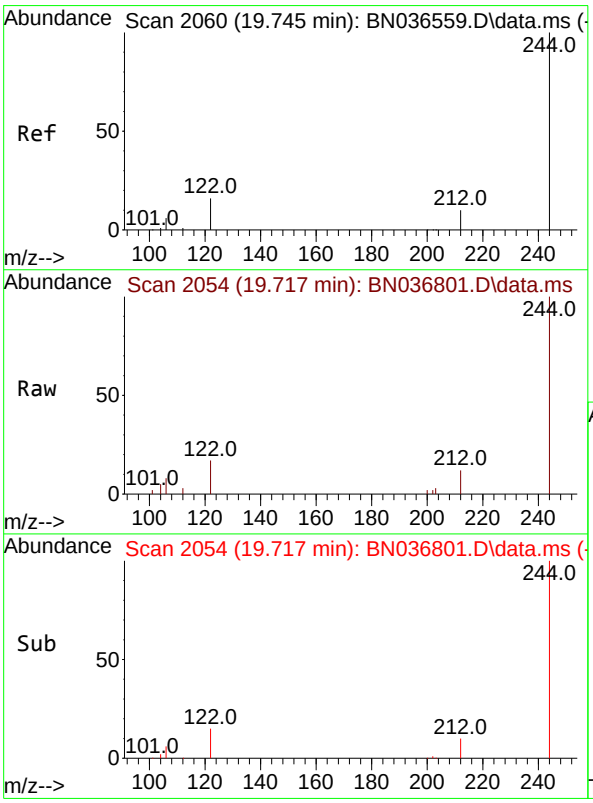

#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036801.D
Acq: 29 Mar 2025 08:44

**Instrument :**
BNA_N
**ClientSampleId :**
TT150S1-20250320

Tgt Ion:240 Resp: 3784

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 14.6 | 14.6 | 22.0# |
| 236 | 29.4 | 24.1 | 36.1 |

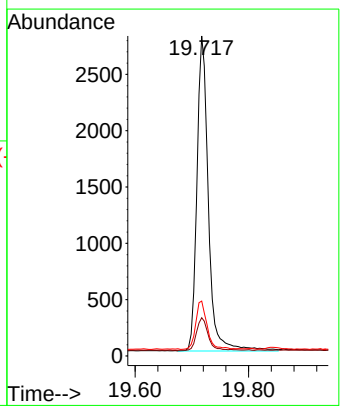


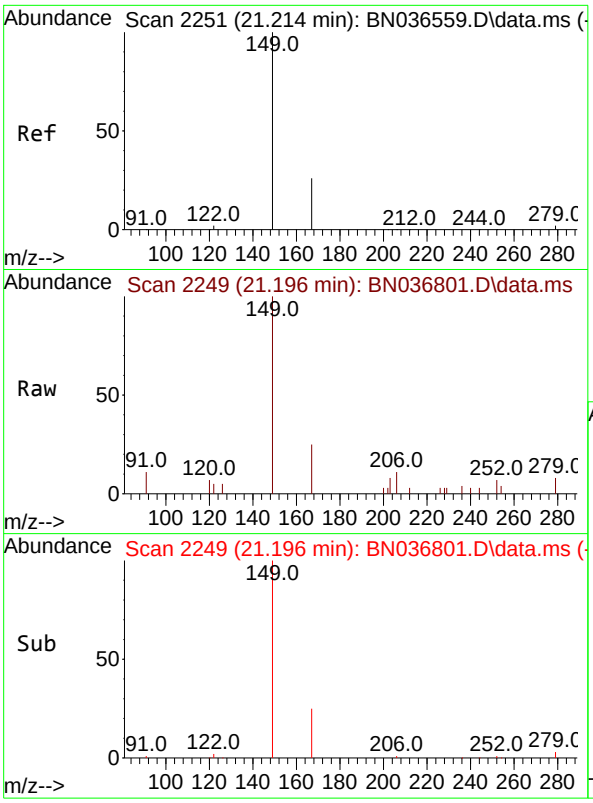




#31
Terphenyl-d14
Concen: 0.431 ng
RT: 19.717 min Scan# 2054
Delta R.T. -0.028 min
Lab File: BN036801.D
Acq: 29 Mar 2025 08:44

Tgt Ion:244 Resp: 3909

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 12.0 | 9.6 | 14.4 |
| 122 | 17.2 | 13.9 | 20.9 |



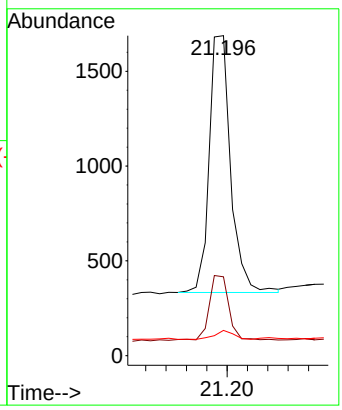


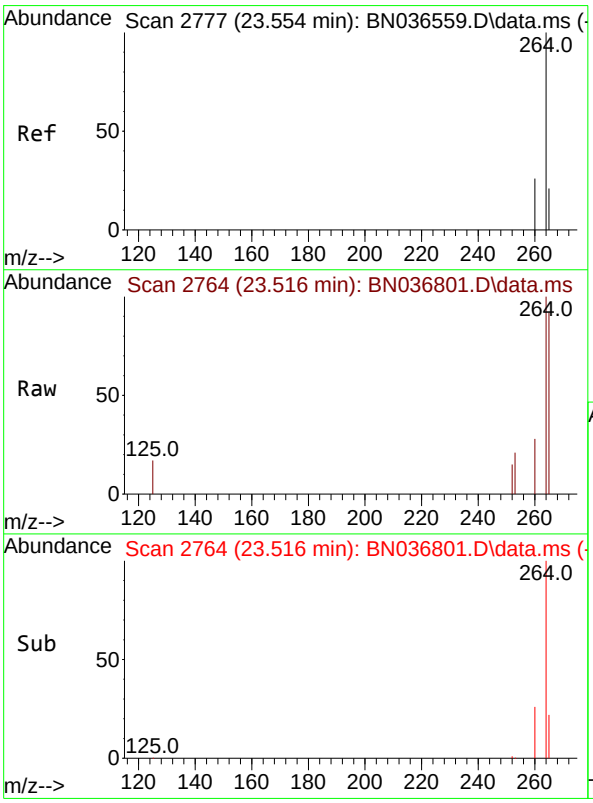

#34
Bis(2-ethylhexyl)phthalate
Concen: 0.211 ng
RT: 21.196 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036801.D
Acq: 29 Mar 2025 08:44

**Instrument :**
BNA_N
**ClientSampleId :**
TT150S1-20250320

Tgt Ion:149 Resp: 1981

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 23.1 | 20.7 | 31.1 |
| 279 | 2.9 | 3.6 | 5.4# |

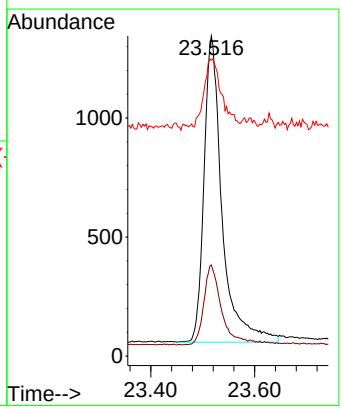



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.516 min Scan# 2764
Delta R.T. -0.038 min
Lab File: BN036801.D
Acq: 29 Mar 2025 08:44

Tgt Ion:264 Resp: 3106

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 28.5 | 22.6 | 33.8 |
| 265 | 92.4 | 88.1 | 132.1 |



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: | 03/21/25 |
| Project: | NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258 | Date Received: | 03/21/25 |
| Client Sample ID: | FB03-20250321 | SDG No.: | Q1629 |
| Lab Sample ID: | Q1629-11 | 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 |
|---|---|---|---|---|
| BN036802.D | 1 | 03/25/25 08:41 | 03/29/25 09:20 | PB167295 |

| 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 | 0.35 | | 30 - 150 | | 86% | SPK: 0.4 |
| 93951-69-0 | Fluoranthene-d10 | 0.42 | | 30 - 150 | | 104% | SPK: 0.4 |
| 4165-60-0 | Nitrobenzene-d5 | 0.31 | | 55 - 111 | | 78% | SPK: 0.4 |
| 321-60-8 | 2-Fluorobiphenyl | 0.33 | | 53 - 106 | | 82% | SPK: 0.4 |
| 1718-51-0 | Terphenyl-d14 | 0.43 | | 58 - 132 | | 108% | SPK: 0.4 |
| **INTERNAL STANDARDS** | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 1680 | 7.695 | | | | |
| 1146-65-2 | Naphthalene-d8 | 4130 | 10.477 | | | | |
| 15067-26-2 | Acenaphthene-d10 | 2700 | 14.334 | | | | |
| 1517-22-2 | Phenanthrene-d10 | 5610 | 17.086 | | | | |
| 1719-03-5 | Chrysene-d12 | 4080 | 21.277 | | | | |
| 1520-96-3 | Perylene-d12 | 3140 | 23.516 | | | | |

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\BN032825\
Data File : BN036802.D
Acq On : 29 Mar 2025 09:20
Operator : RC/JU
Sample : Q1629-11
Misc :
ALS Vial : 33 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
FB03-20250321

Quant Time: Mar 31 01:59:42 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

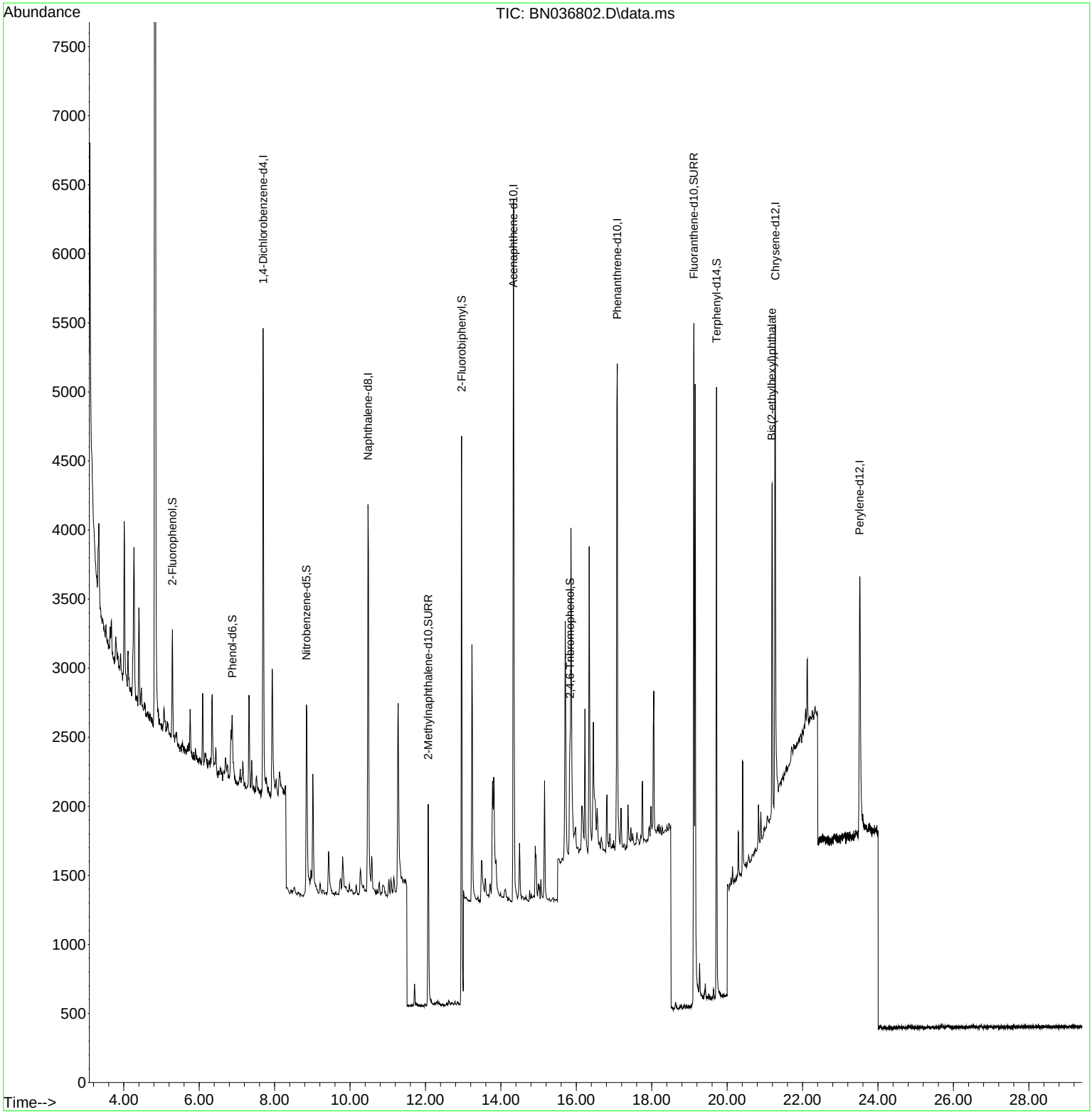
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.695 | 152 | 1678 | 0.400 | ng | -0.03 |
| 7) Naphthalene-d8 | 10.477 | 136 | 4131 | 0.400 | ng | -0.03 |
| 13) Acenaphthene-d10 | 14.334 | 164 | 2695 | 0.400 | ng | -0.03 |
| 19) Phenanthrene-d10 | 17.086 | 188 | 5610 | 0.400 | ng | -0.02 |
| 29) Chrysene-d12 | 21.277 | 240 | 4075 | 0.400 | ng | #-0.02 |
| 35) Perylene-d12 | 23.516 | 264 | 3144 | 0.400 | ng | -0.04 |
| System Monitoring Compounds | | | | | | |
| 4) 2-Fluorophenol | 5.290 | 112 | 588 | 0.150 | ng | -0.02 |
| 5) Phenol-d6 | 6.879 | 99 | 394 | 0.082 | ng | -0.02 |
| 8) Nitrobenzene-d5 | 8.843 | 82 | 1400 | 0.312 | ng | -0.03 |
| 11) 2-Methylnaphthalene-d10 | 12.075 | 152 | 2125 | 0.346 | ng | -0.04 |
| 14) 2,4,6-Tribromophenol | 15.833 | 330 | 500 | 0.409 | ng | -0.02 |
| 15) 2-Fluorobiphenyl | 12.958 | 172 | 5138 | 0.328 | ng | -0.03 |
| 27) Fluoranthene-d10 | 19.118 | 212 | 5960 | 0.415 | ng | -0.02 |
| 31) Terphenyl-d14 | 19.717 | 244 | 4217 | 0.432 | ng | -0.03 |
| Target Compounds | | | | | | Qvalue |
| 34) Bis(2-ethylhexyl)phtha... | 21.187 | 149 | 2789 | 0.276 | ng | # 96 |

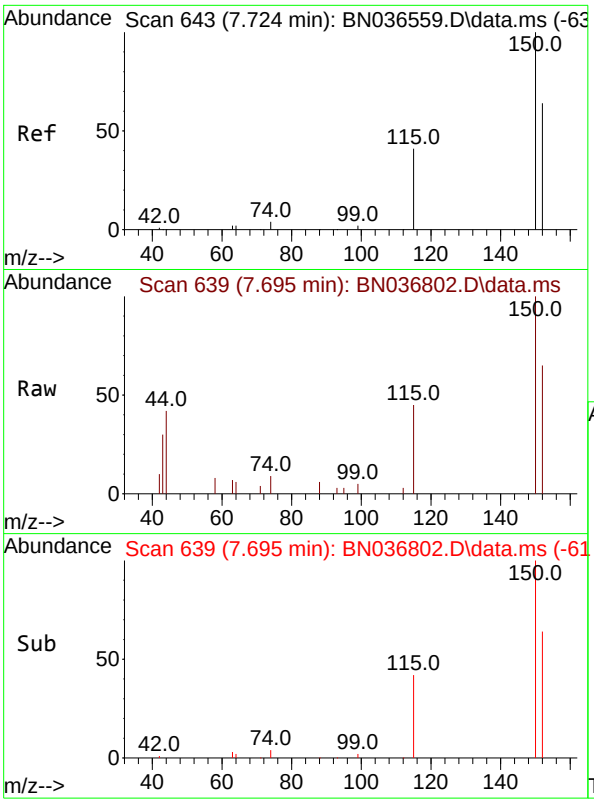
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032825\
Data File : BN036802.D
Acq On : 29 Mar 2025 09:20
Operator : RC/JU
Sample : Q1629-11
Misc :
ALS Vial : 33 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
FB03-20250321

Quant Time: Mar 31 01:59:42 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration



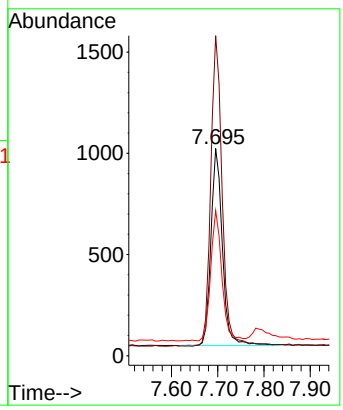


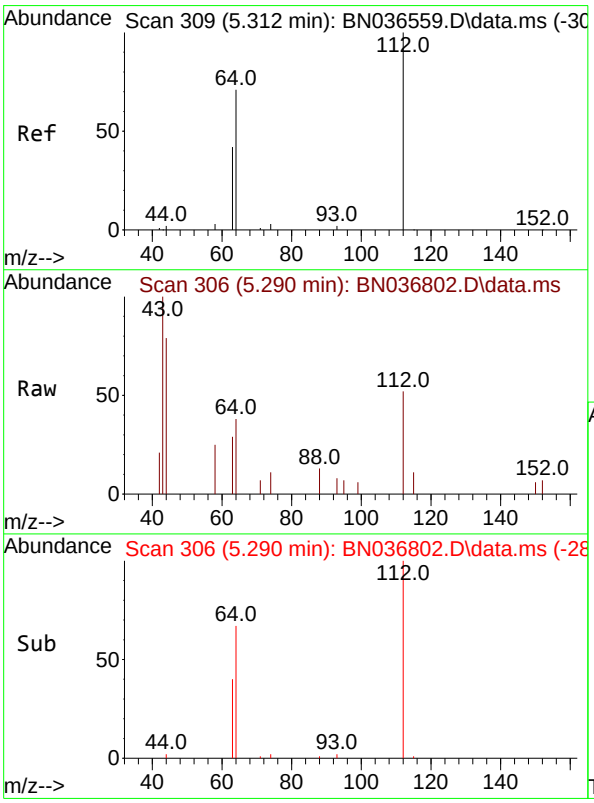

#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.695 min Scan# 6
Delta R.T. -0.029 min
Lab File: BN036802.D
Acq: 29 Mar 2025 09:20

**Instrument :**
BNA_N
**ClientSampleId :**
FB03-20250321

Tgt Ion:152 Resp: 1678

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 154.4 | 123.7 | 185.5 |
| 115 | 70.0 | 54.3 | 81.5 |

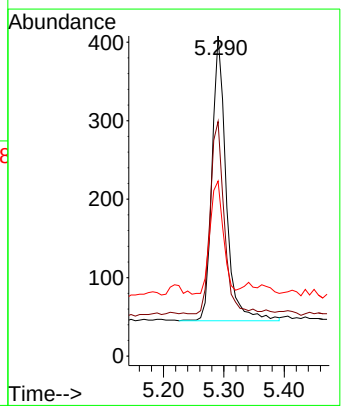


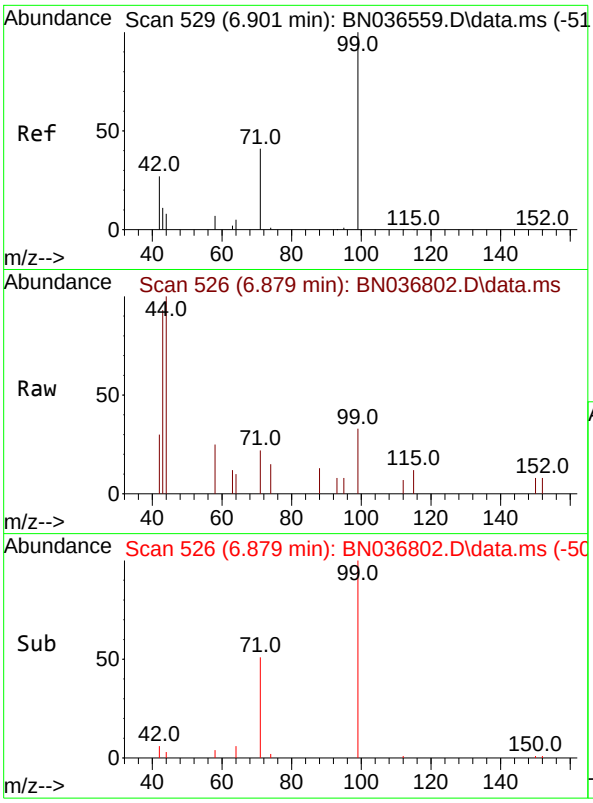




#4
2-Fluorophenol
Concen: 0.150 ng
RT: 5.290 min Scan# 306
Delta R.T. -0.022 min
Lab File: BN036802.D
Acq: 29 Mar 2025 09:20

Tgt Ion:112 Resp: 588

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 66.8 | 53.1 | 79.7 |
| 63 | 37.8 | 31.8 | 47.8 |



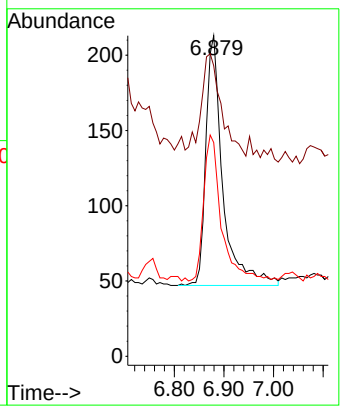


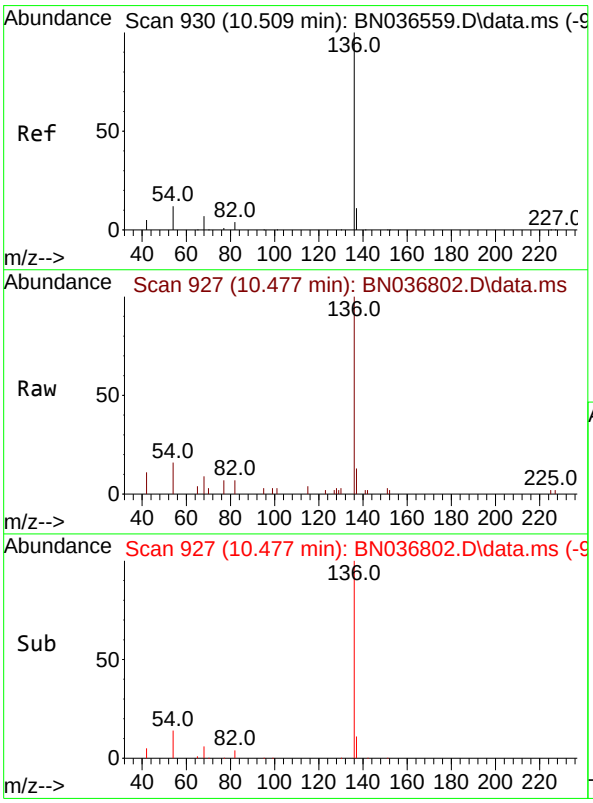

#5
Phenol-d6
Concen: 0.082 ng
RT: 6.879 min Scan# 5
Delta R.T. -0.022 min
Lab File: BN036802.D
Acq: 29 Mar 2025 09:20

**Instrument :**
BNA_N
**ClientSampleId :**
FB03-20250321

Tgt Ion: 99 Resp: 394

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 49.2 | 26.5 | 39.7# |
| 71 | 61.2 | 34.1 | 51.1# |

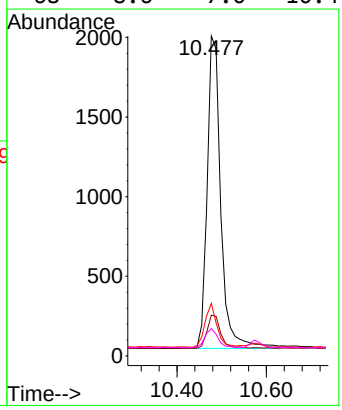


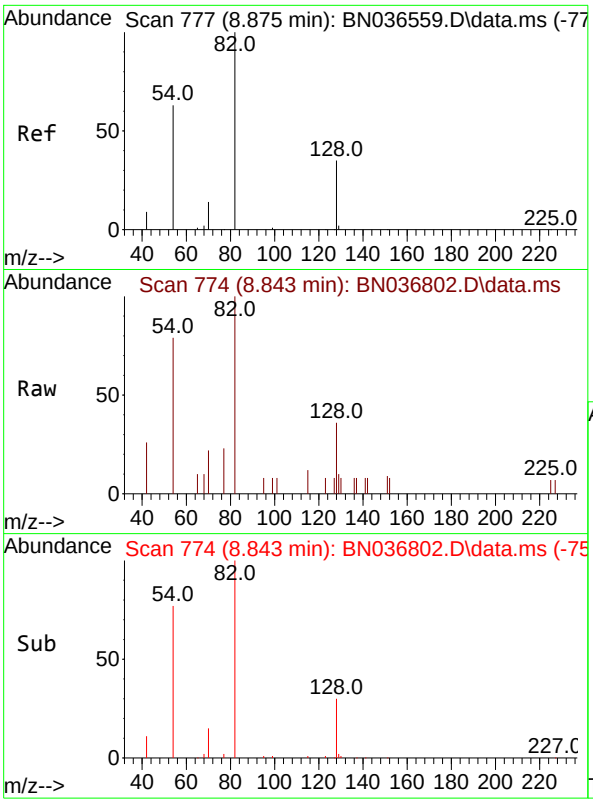




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.477 min Scan# 927
Delta R.T. -0.032 min
Lab File: BN036802.D
Acq: 29 Mar 2025 09:20

Tgt Ion:136 Resp: 4131

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 12.7 | 10.3 | 15.5 |
| 54 | 16.4 | 11.5 | 17.3 |
| 68 | 8.6 | 7.0 | 10.4 |



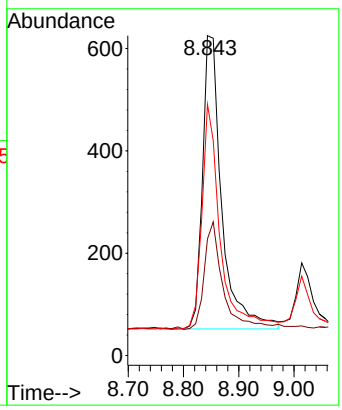


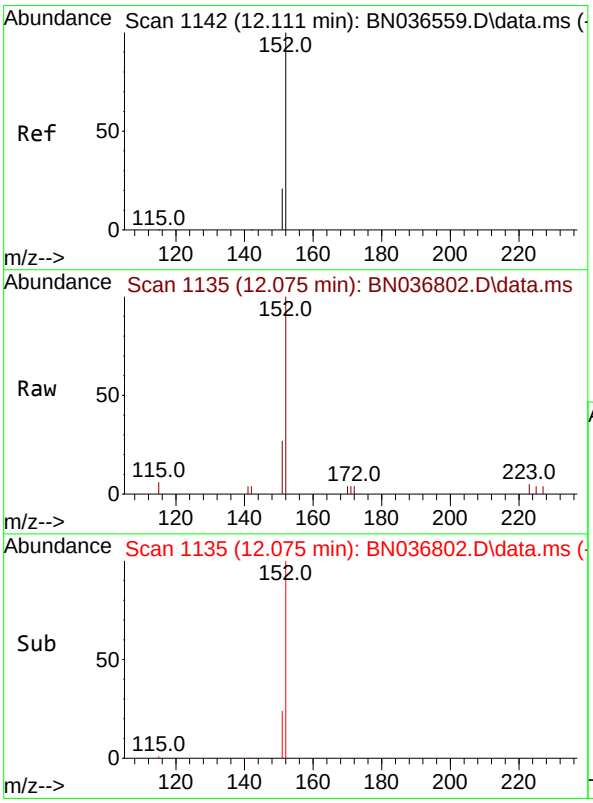

#8
Nitrobenzene-d5
Concen: 0.312 ng
RT: 8.843 min Scan# 7
Delta R.T. -0.032 min
Lab File: BN036802.D
Acq: 29 Mar 2025 09:20

**Instrument :**
BNA_N
**ClientSampleId :**
FB03-20250321

Tgt Ion: 82 Resp: 1400

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 36.5 | 30.6 | 45.8 |
| 54 | 78.6 | 52.2 | 78.4# |

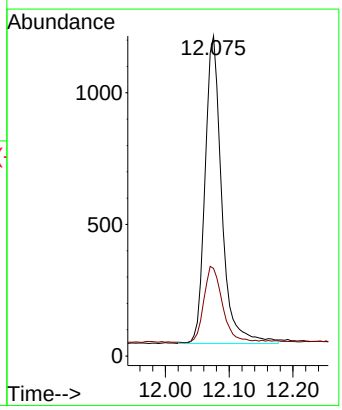


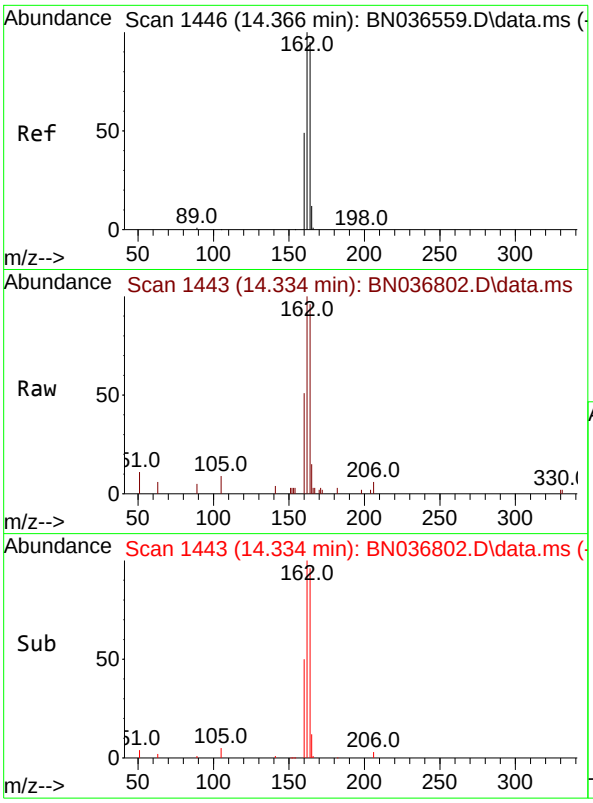




#11
2-Methylnaphthalene-d10
Concen: 0.346 ng
RT: 12.075 min Scan# 1135
Delta R.T. -0.035 min
Lab File: BN036802.D
Acq: 29 Mar 2025 09:20

Tgt Ion:152 Resp: 2125

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 27.6 | 17.0 | 25.6# |



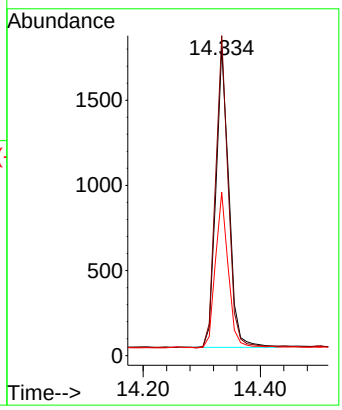


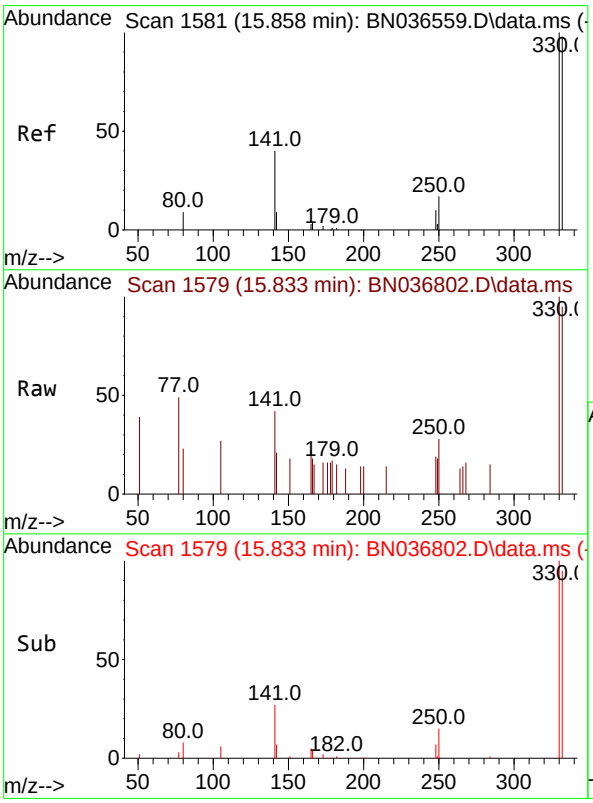

#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.334 min Scan# 14
Delta R.T. -0.032 min
Lab File: BN036802.D
Acq: 29 Mar 2025 09:20

**Instrument :**
BNA_N
**ClientSampleId :**
FB03-20250321

Tgt Ion:164 Resp: 2695

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 103.9 | 84.2 | 126.2 |
| 160 | 53.0 | 42.2 | 63.2 |

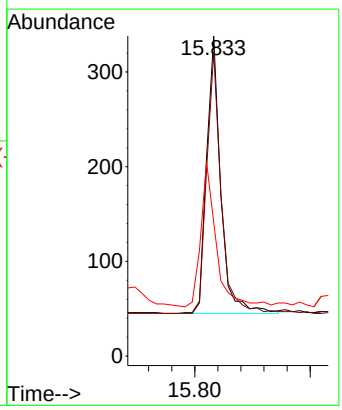


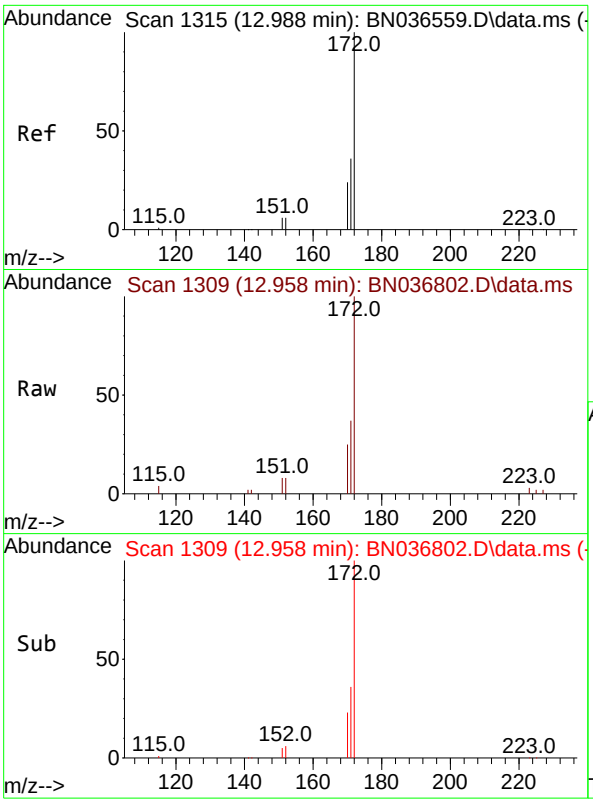




#14
2,4,6-Tribromophenol
Concen: 0.409 ng
RT: 15.833 min Scan# 1579
Delta R.T. -0.025 min
Lab File: BN036802.D
Acq: 29 Mar 2025 09:20

Tgt Ion:330 Resp: 500

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 95.6 | 75.2 | 112.8 |
| 141 | 56.6 | 43.4 | 65.2 |



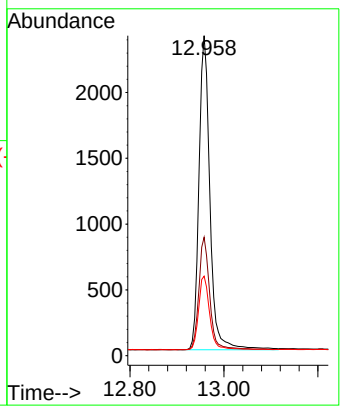


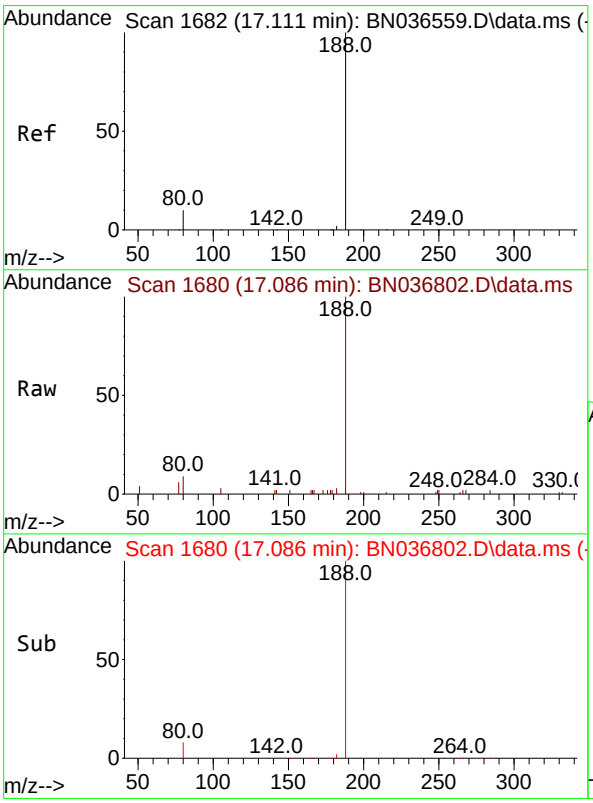

#15
2-Fluorobiphenyl
Concen: 0.328 ng
RT: 12.958 min Scan# 1
Delta R.T. -0.030 min
Lab File: BN036802.D
Acq: 29 Mar 2025 09:20

**Instrument :**
BNA_N
**ClientSampleId :**
FB03-20250321

Tgt Ion:172 Resp: 5138

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 37.0 | 29.5 | 44.3 |
| 170 | 24.8 | 20.2 | 30.4 |

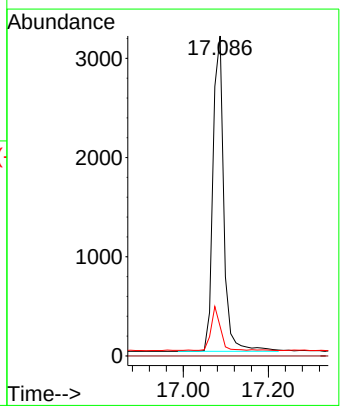


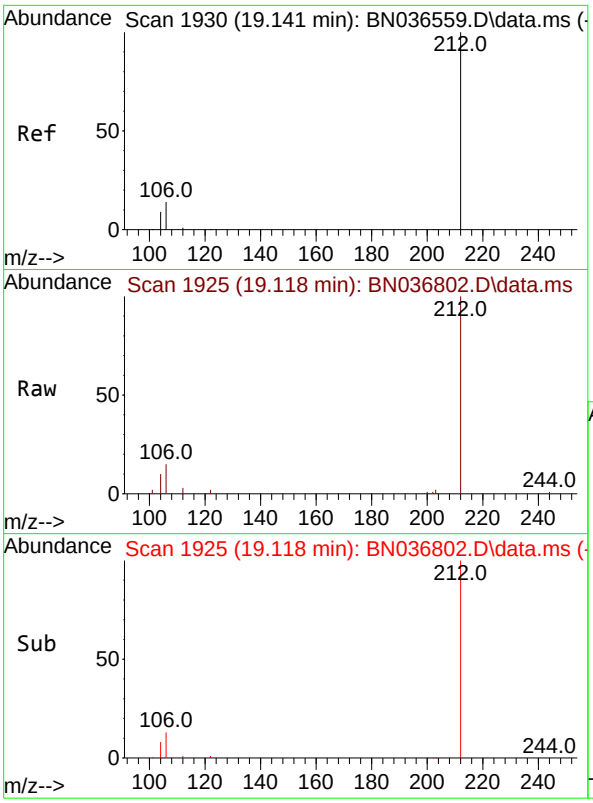




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.086 min Scan# 1680
Delta R.T. -0.025 min
Lab File: BN036802.D
Acq: 29 Mar 2025 09:20

Tgt Ion:188 Resp: 5610

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 9.2 | 8.8 | 13.2 |



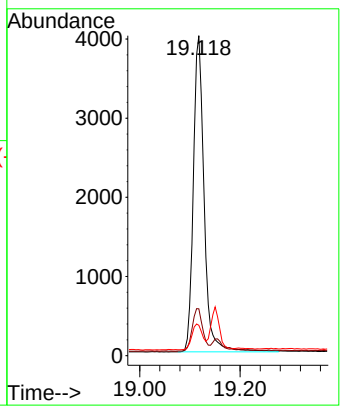


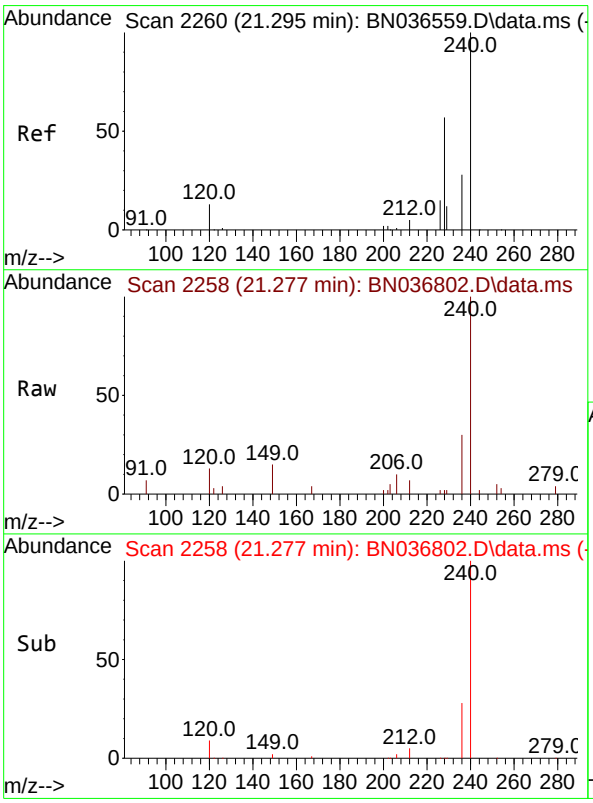

#27
Fluoranthene-d10
Concen: 0.415 ng
RT: 19.118 min Scan# 1
Delta R.T. -0.023 min
Lab File: BN036802.D
Acq: 29 Mar 2025 09:20

**Instrument :**
BNA_N
**ClientSampleId :**
FB03-20250321

Tgt Ion:212 Resp: 5960

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 13.5 | 11.8 | 17.6 |
| 104 | 8.0 | 7.3 | 10.9 |

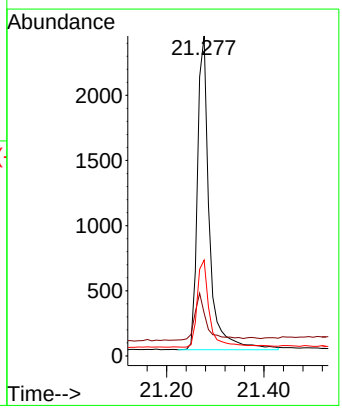


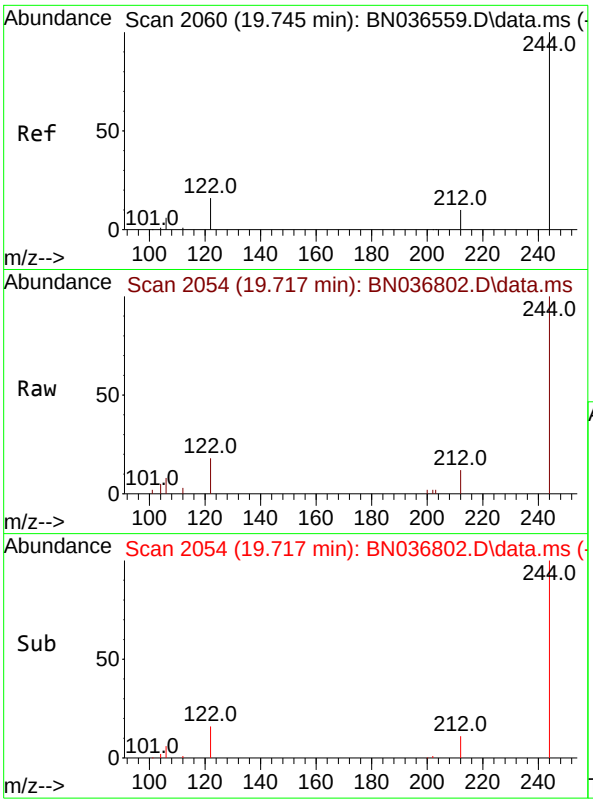




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 2258
Delta R.T. -0.018 min
Lab File: BN036802.D
Acq: 29 Mar 2025 09:20

Tgt Ion:240 Resp: 4075

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 13.4 | 14.6 | 22.0# |
| 236 | 30.0 | 24.1 | 36.1 |



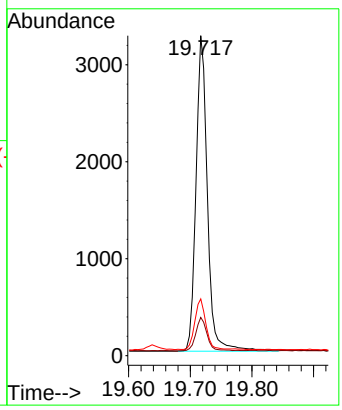


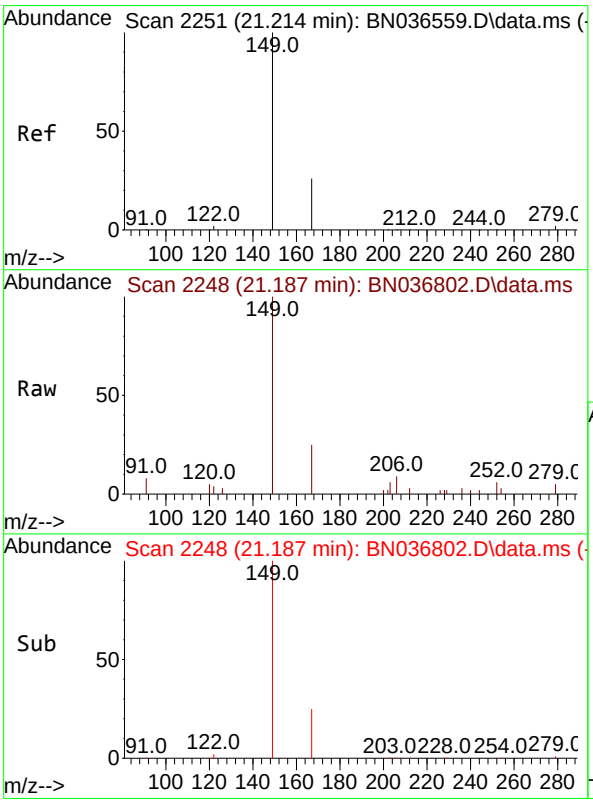

#31
Terphenyl-d14
Concen: 0.432 ng
RT: 19.717 min Scan# 2
Delta R.T. -0.028 min
Lab File: BN036802.D
Acq: 29 Mar 2025 09:20

**Instrument :**
BNA_N
**ClientSampleId :**
FB03-20250321

Tgt Ion:244 Resp: 4217

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 11.9 | 9.6 | 14.4 |
| 122 | 17.7 | 13.9 | 20.9 |

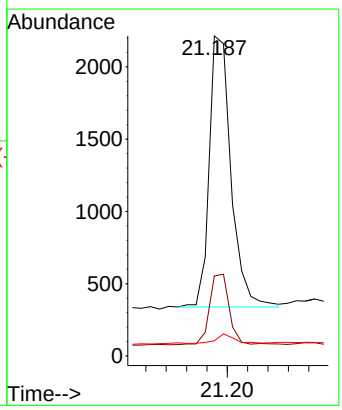


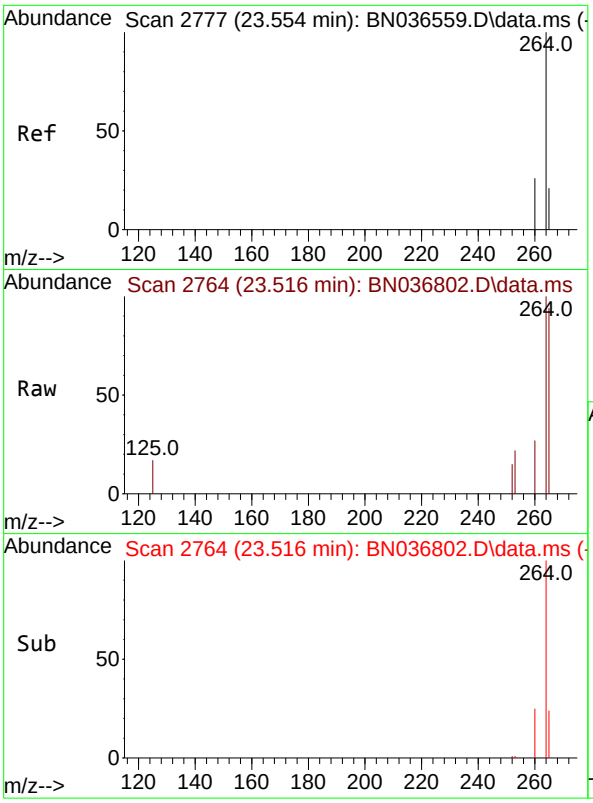




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.276 ng
RT: 21.187 min Scan# 2248
Delta R.T. -0.027 min
Lab File: BN036802.D
Acq: 29 Mar 2025 09:20

Tgt Ion:149 Resp: 2789

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 23.7 | 20.7 | 31.1 |
| 279 | 2.9 | 3.6 | 5.4# |



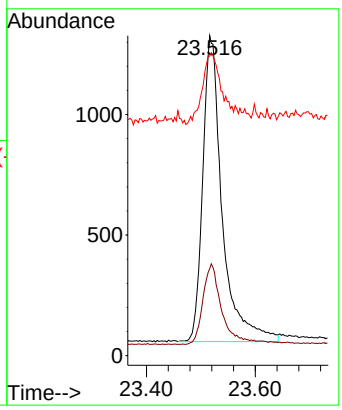



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.516 min Scan# 2
Delta R.T. -0.038 min
Lab File: BN036802.D
Acq: 29 Mar 2025 09:20

**Instrument :**
BNA_N
**ClientSampleId :**
FB03-20250321

Tgt Ion:264 Resp: 3144

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 27.2 | 22.6 | 33.8 |
| 265 | 93.6 | 88.1 | 132.1 |



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: | 03/20/25 |
| Project: | NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258 | Date Received: | 03/21/25 |
| Client Sample ID: | RW09-MW01S-20250320 | SDG No.: | Q1629 |
| Lab Sample ID: | Q1629-14 | 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 |
|---|---|---|---|---|
| BN036811.D | 1 | 03/25/25 08:41 | 03/31/25 11:51 | PB167295 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 123-91-1 | 1,4-Dioxane | 0.40 | | 0.070 | 0.20 | 0.20 | ug/L |
| **SURROGATES** | | | | | | | |
| 7297-45-2 | 2-Methylnaphthalene-d10 | 0.32 | | 30 - 150 | | 80% | SPK: 0.4 |
| 93951-69-0 | Fluoranthene-d10 | 0.44 | | 30 - 150 | | 109% | SPK: 0.4 |
| 4165-60-0 | Nitrobenzene-d5 | 0.29 | | 55 - 111 | | 72% | SPK: 0.4 |
| 321-60-8 | 2-Fluorobiphenyl | 0.33 | | 53 - 106 | | 82% | SPK: 0.4 |
| 1718-51-0 | Terphenyl-d14 | 0.42 | | 58 - 132 | | 105% | SPK: 0.4 |
| **INTERNAL STANDARDS** | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 1750 | 7.696 | | | | |
| 1146-65-2 | Naphthalene-d8 | 4430 | 10.477 | | | | |
| 15067-26-2 | Acenaphthene-d10 | 2710 | 14.334 | | | | |
| 1517-22-2 | Phenanthrene-d10 | 5740 | 17.087 | | | | |
| 1719-03-5 | Chrysene-d12 | 4630 | 21.277 | | | | |
| 1520-96-3 | Perylene-d12 | 4170 | 23.516 | | | | |

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\BN033125\
Data File : BN036811.D
Acq On : 31 Mar 2025 11:51
Operator : RC/JU
Sample : Q1629-14
Misc :
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01S-20250320

Quant Time: Mar 31 12:14:28 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

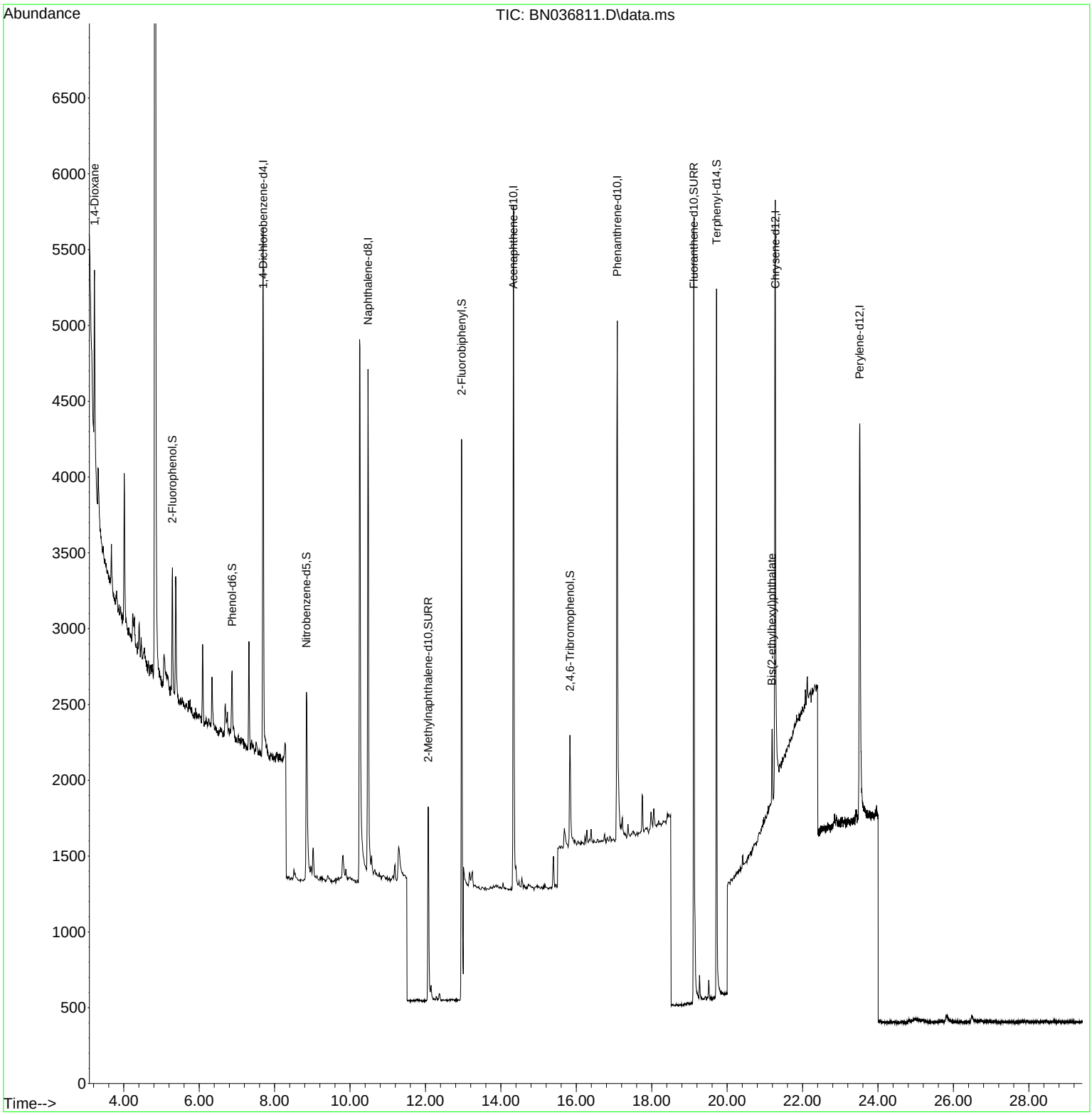
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.696 | 152 | 1749 | 0.400 | ng | -0.03 |
| 7) Naphthalene-d8 | 10.477 | 136 | 4433 | 0.400 | ng | -0.03 |
| 13) Acenaphthene-d10 | 14.334 | 164 | 2707 | 0.400 | ng | -0.03 |
| 19) Phenanthrene-d10 | 17.087 | 188 | 5735 | 0.400 | ng | -0.02 |
| 29) Chrysene-d12 | 21.277 | 240 | 4630 | 0.400 | ng | #-0.02 |
| 35) Perylene-d12 | 23.516 | 264 | 4169 | 0.400 | ng | #-0.04 |
| System Monitoring Compounds | | | | | | |
| 4) 2-Fluorophenol | 5.291 | 112 | 611 | 0.150 | ng | -0.02 |
| 5) Phenol-d6 | 6.872 | 99 | 412 | 0.082 | ng | -0.03 |
| 8) Nitrobenzene-d5 | 8.843 | 82 | 1380 | 0.286 | ng | -0.03 |
| 11) 2-Methylnaphthalene-d10 | 12.075 | 152 | 2108 | 0.320 | ng | -0.04 |
| 14) 2,4,6-Tribromophenol | 15.833 | 330 | 509 | 0.414 | ng | -0.02 |
| 15) 2-Fluorobiphenyl | 12.958 | 172 | 5153 | 0.327 | ng | -0.03 |
| 27) Fluoranthene-d10 | 19.118 | 212 | 6429 | 0.437 | ng | -0.02 |
| 31) Terphenyl-d14 | 19.717 | 244 | 4685 | 0.422 | ng | -0.03 |
| Target Compounds | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.225 | 88 | 779 | 0.402 | ng | # 66 |
| 34) Bis(2-ethylhexyl)phtha... | 21.187 | 149 | 502 | 0.044 | ng | # 94 |

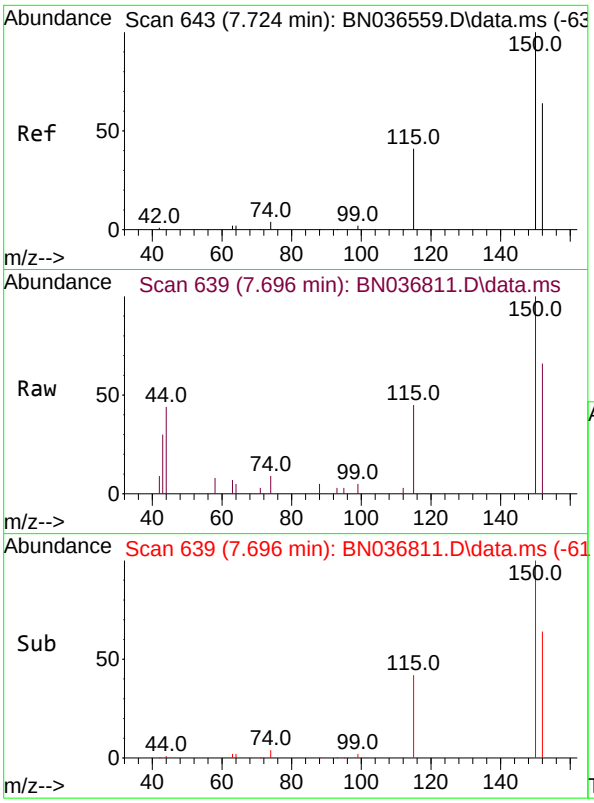
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN033125\
Data File : BN036811.D
Acq On : 31 Mar 2025 11:51
Operator : RC/JU
Sample : Q1629-14
Misc :
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01S-20250320

Quant Time: Mar 31 12:14:28 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration



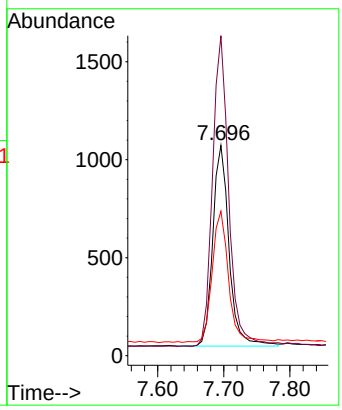


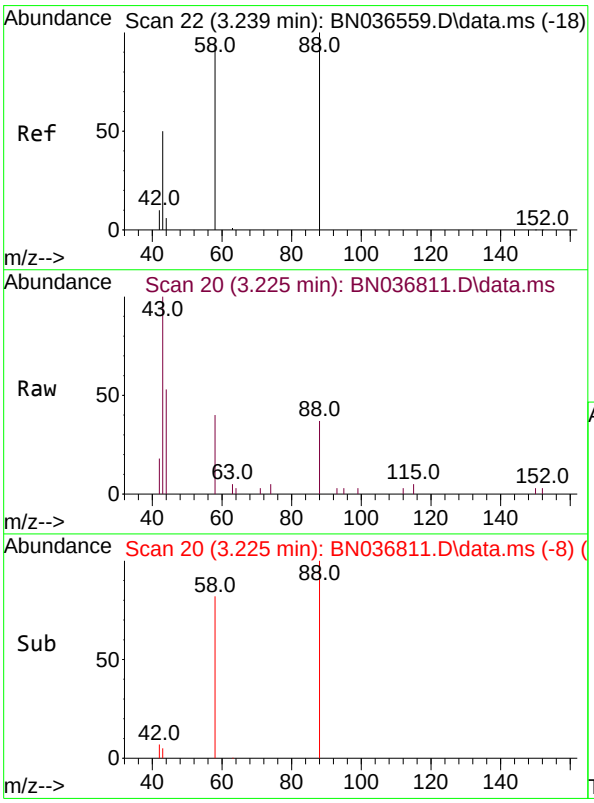

#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.696 min Scan# 6
Delta R.T. -0.028 min
Lab File: BN036811.D
Acq: 31 Mar 2025 11:51

**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01S-20250320

Tgt Ion:152 Resp: 1749

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 152.2 | 123.7 | 185.5 |
| 115 | 68.7 | 54.3 | 81.5 |

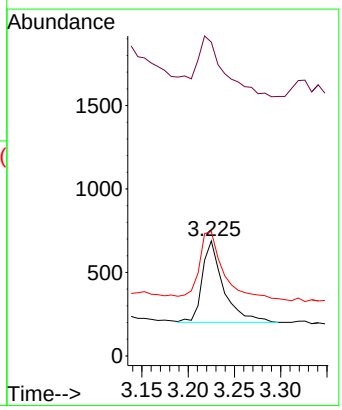


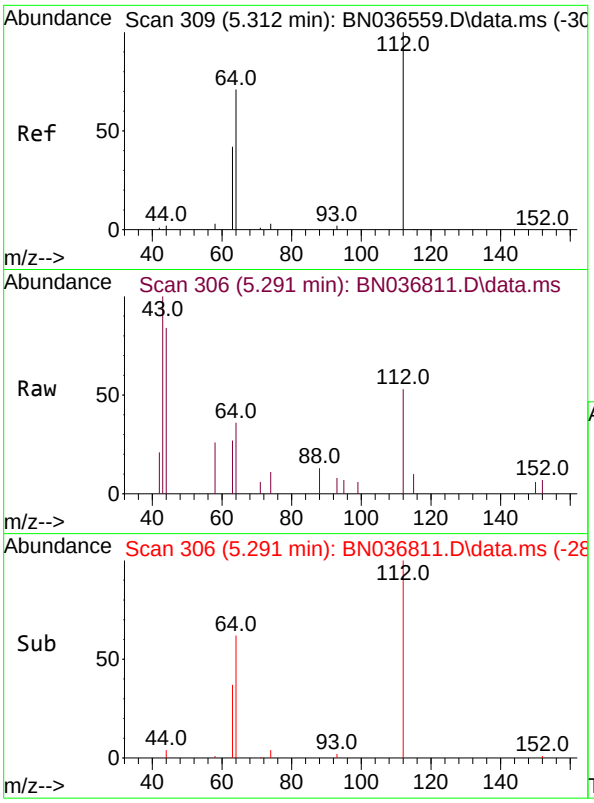




#2
1,4-Dioxane
Concen: 0.402 ng
RT: 3.225 min Scan# 20
Delta R.T. -0.014 min
Lab File: BN036811.D
Acq: 31 Mar 2025 11:51

Tgt Ion: 88 Resp: 779

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 101.3 | 37.8 | 56.8# |
| 58 | 90.9 | 67.4 | 101.2 |



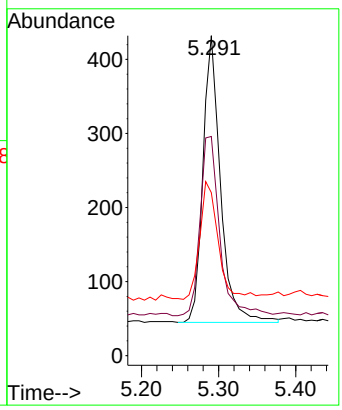


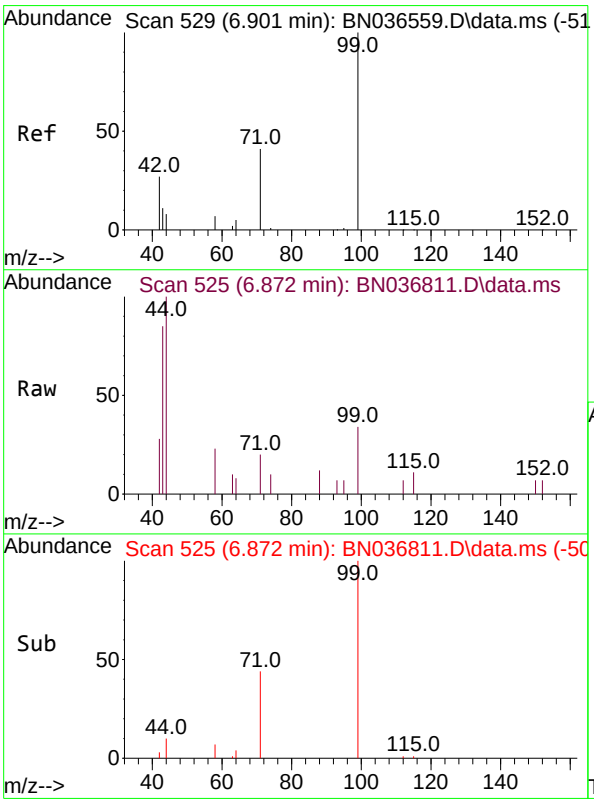

#4
2-Fluorophenol
Concen: 0.150 ng
RT: 5.291 min Scan# 3
Delta R.T. -0.022 min
Lab File: BN036811.D
Acq: 31 Mar 2025 11:51

**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01S-20250320

Tgt Ion:112 Resp: 611

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 70.0 | 53.1 | 79.7 |
| 63 | 44.8 | 31.8 | 47.8 |

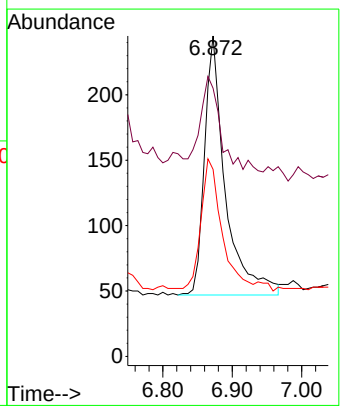


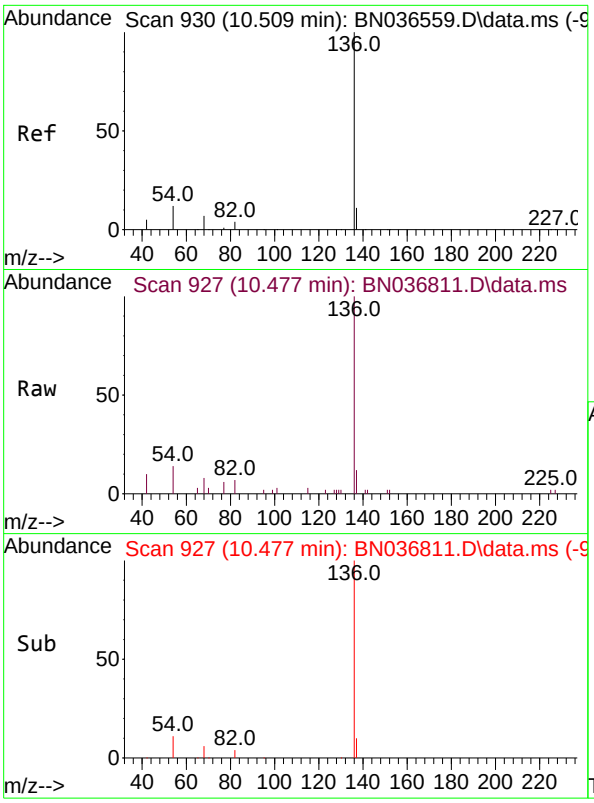




#5
Phenol-d6
Concen: 0.082 ng
RT: 6.872 min Scan# 525
Delta R.T. -0.029 min
Lab File: BN036811.D
Acq: 31 Mar 2025 11:51

Tgt Ion: 99 Resp: 412

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 37.1 | 26.5 | 39.7 |
| 71 | 48.5 | 34.1 | 51.1 |



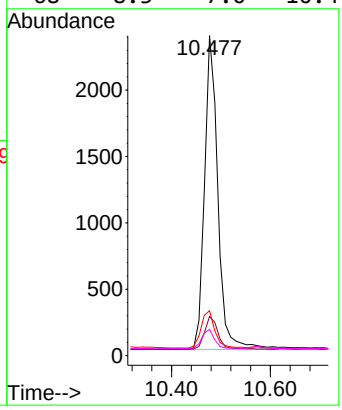


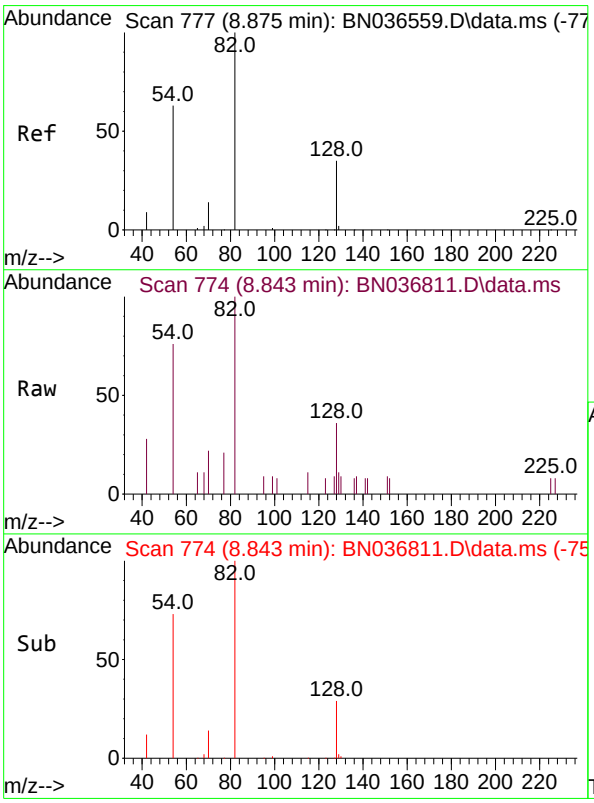

#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.477 min Scan# 9
Delta R.T. -0.032 min
Lab File: BN036811.D
Acq: 31 Mar 2025 11:51

**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01S-20250320

Tgt Ion:136 Resp: 4433

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 12.3 | 10.3 | 15.5 |
| 54 | 14.1 | 11.5 | 17.3 |
| 68 | 8.3 | 7.0 | 10.4 |

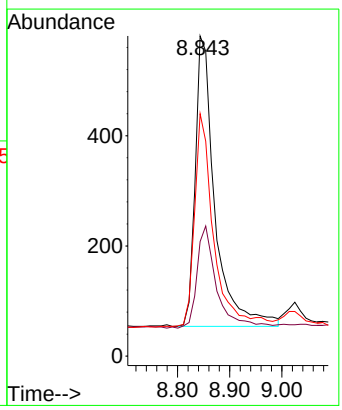


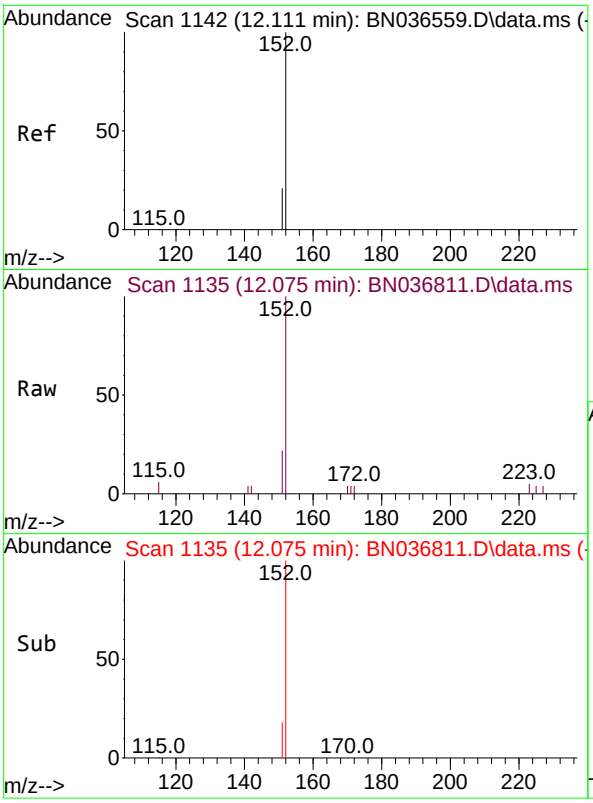




#8
Nitrobenzene-d5
Concen: 0.286 ng
RT: 8.843 min Scan# 774
Delta R.T. -0.032 min
Lab File: BN036811.D
Acq: 31 Mar 2025 11:51

Tgt Ion: 82 Resp: 1380

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 35.8 | 30.6 | 45.8 |
| 54 | 75.7 | 52.2 | 78.4 |



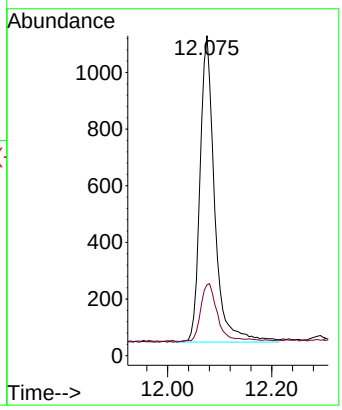


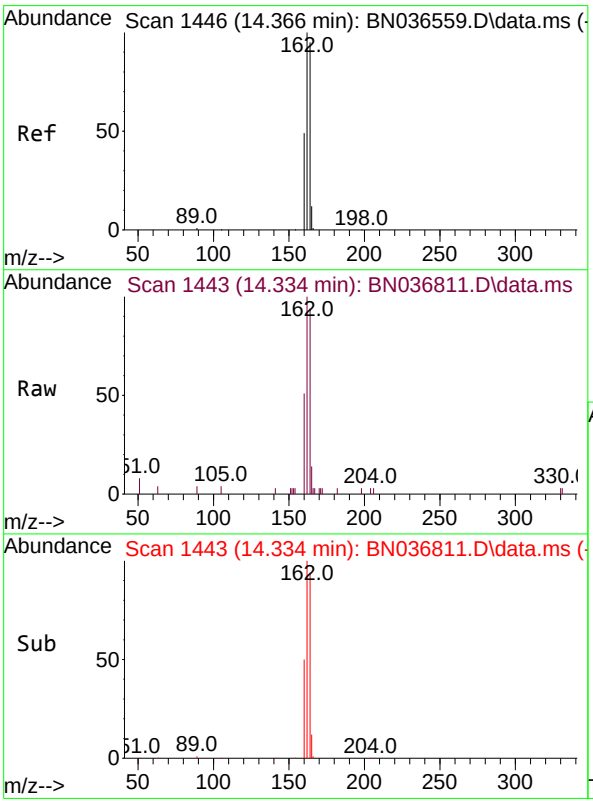

#11
2-Methylnaphthalene-d10
Concen: 0.320 ng
RT: 12.075 min Scan# 11
Delta R.T. -0.035 min
Lab File: BN036811.D
Acq: 31 Mar 2025 11:51

**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01S-20250320

Tgt Ion:152 Resp: 2108

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 21.3 | 17.0 | 25.6 |

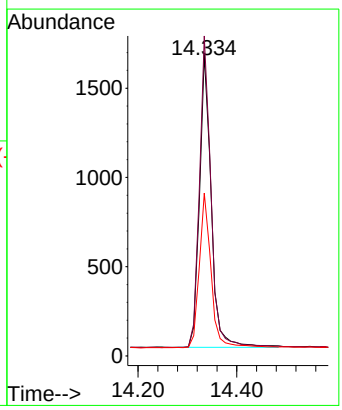


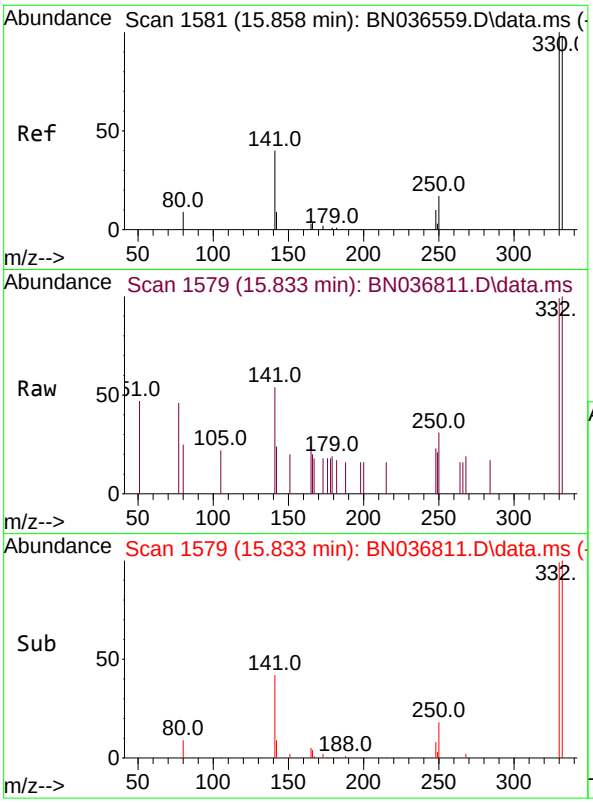




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.334 min Scan# 1443
Delta R.T. -0.032 min
Lab File: BN036811.D
Acq: 31 Mar 2025 11:51

Tgt Ion:164 Resp: 2707

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 106.3 | 84.2 | 126.2 |
| 160 | 54.2 | 42.2 | 63.2 |



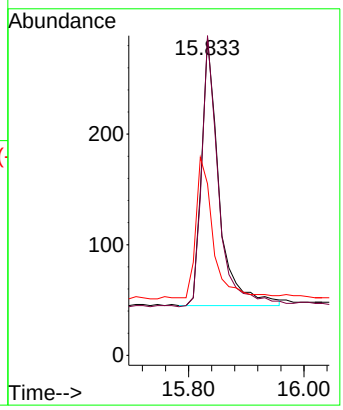


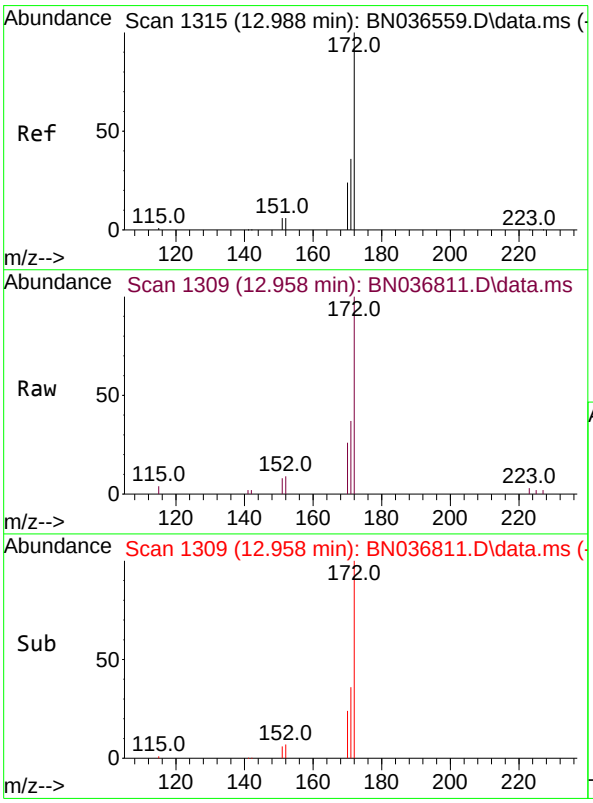

#14
2,4,6-Tribromophenol
Concen: 0.414 ng
RT: 15.833 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036811.D
Acq: 31 Mar 2025 11:51

**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01S-20250320

Tgt Ion:330 Resp: 509

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 98.6 | 75.2 | 112.8 |
| 141 | 51.9 | 43.4 | 65.2 |

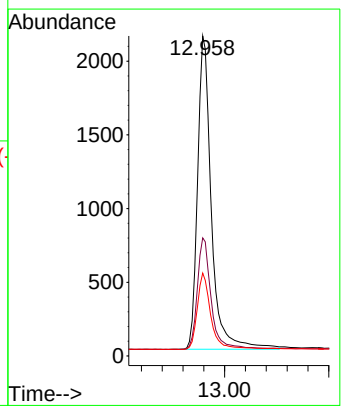


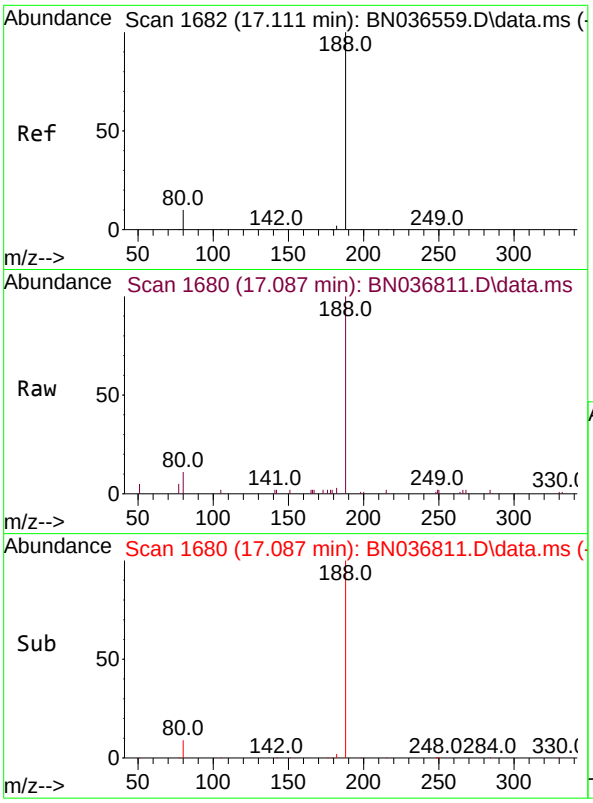




#15
2-Fluorobiphenyl
Concen: 0.327 ng
RT: 12.958 min Scan# 1309
Delta R.T. -0.030 min
Lab File: BN036811.D
Acq: 31 Mar 2025 11:51

Tgt Ion:172 Resp: 5153

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 36.9 | 29.5 | 44.3 |
| 170 | 25.9 | 20.2 | 30.4 |



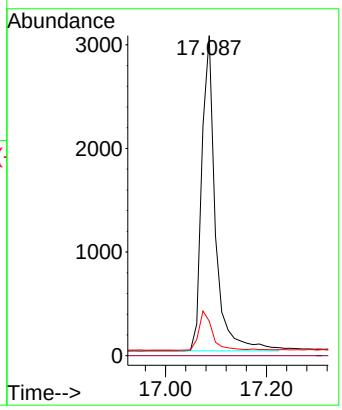


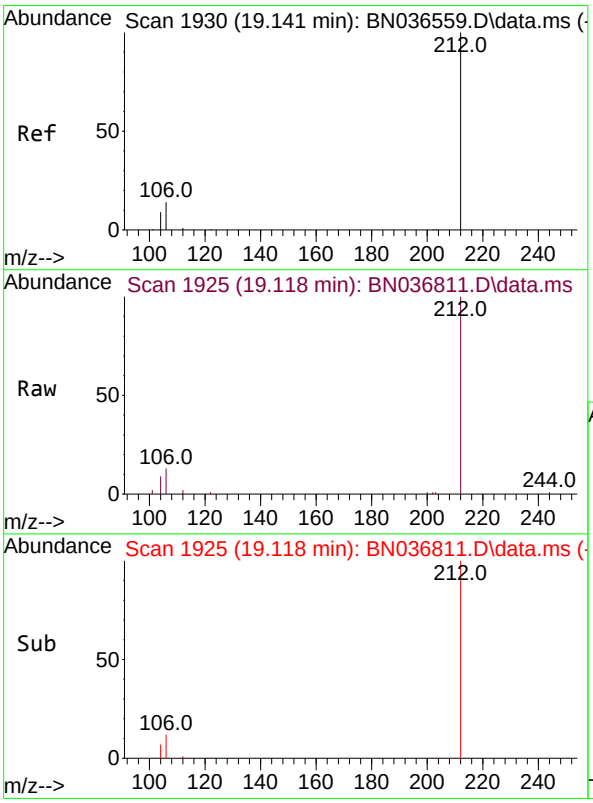

#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.087 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036811.D
Acq: 31 Mar 2025 11:51

**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01S-20250320

Tgt Ion:188 Resp: 5735

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 10.8 | 8.8 | 13.2 |

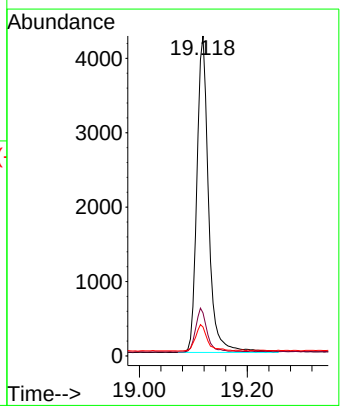


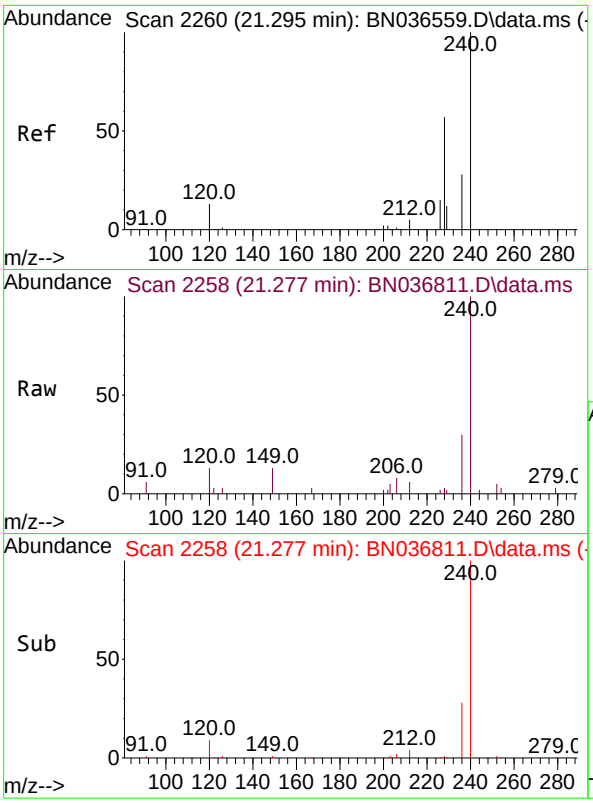




#27
Fluoranthene-d10
Concen: 0.437 ng
RT: 19.118 min Scan# 1925
Delta R.T. -0.023 min
Lab File: BN036811.D
Acq: 31 Mar 2025 11:51

Tgt Ion:212 Resp: 6429

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 13.5 | 11.8 | 17.6 |
| 104 | 8.4 | 7.3 | 10.9 |



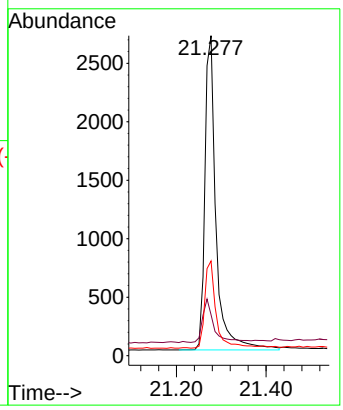


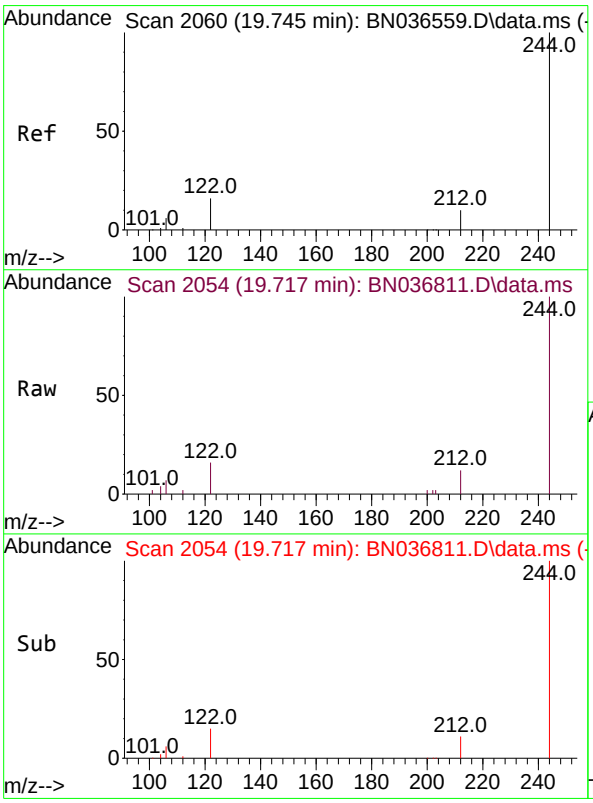

#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036811.D
Acq: 31 Mar 2025 11:51

**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01S-20250320

Tgt Ion:240 Resp: 4630

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 12.8 | 14.6 | 22.0# |
| 236 | 29.6 | 24.1 | 36.1 |

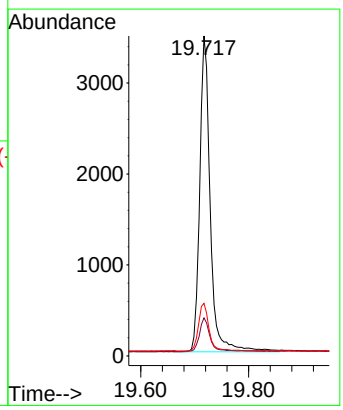


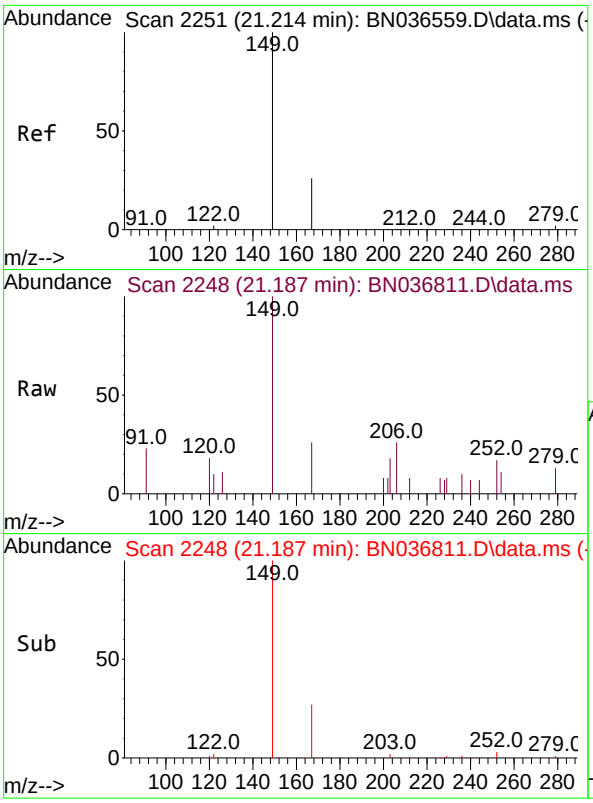




#31
Terphenyl-d14
Concen: 0.422 ng
RT: 19.717 min Scan# 2054
Delta R.T. -0.028 min
Lab File: BN036811.D
Acq: 31 Mar 2025 11:51

Tgt Ion:244 Resp: 4685

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 11.9 | 9.6 | 14.4 |
| 122 | 16.5 | 13.9 | 20.9 |



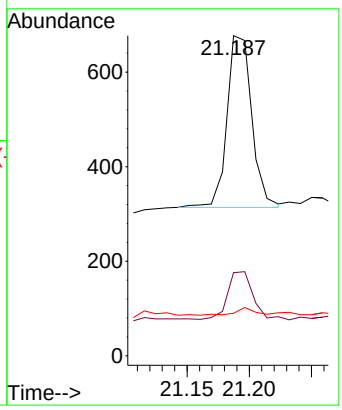


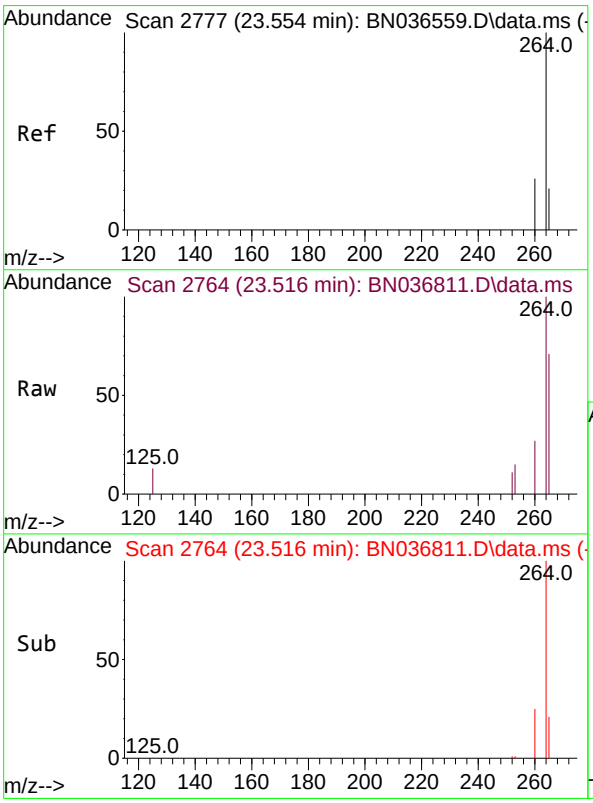

#34
Bis(2-ethylhexyl)phthalate
Concen: 0.044 ng
RT: 21.187 min Scan# 2
Delta R.T. -0.027 min
Lab File: BN036811.D
Acq: 31 Mar 2025 11:51

**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01S-20250320

Tgt Ion:149 Resp: 502

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 29.1 | 20.7 | 31.1 |
| 279 | 3.4 | 3.6 | 5.4# |

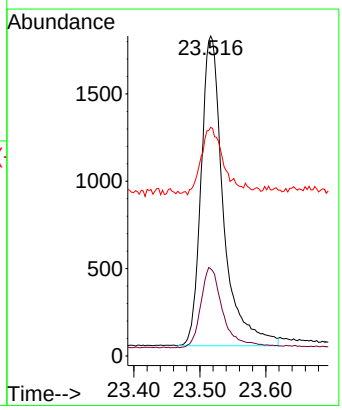



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.516 min Scan# 2764
Delta R.T. -0.038 min
Lab File: BN036811.D
Acq: 31 Mar 2025 11:51

Tgt Ion:264 Resp: 4169

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 27.2 | 22.6 | 33.8 |
| 265 | 71.5 | 88.1 | 132.1# |



# CALIBRATION SUMMARY

Response Factor Report BNA_N

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
Method File : 8270-SIM-BN031025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Mon Mar 10 16:06:28 2025
Response Via : Initial Calibration

Calibration Files
0.1 =BN036557.D 0.2 =BN036558.D 0.4 =BN036559.D 0.8 =BN036560.D 1.6 =BN036561.D 3.2 =BN036562.D 5.0 =BN036563.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 | 0.434 | 0.439 | 0.498 | 0.451 | 0.440 | 0.445 | 0.399 | 0.444 | 6.60 |
| 3) | | n-Nitrosodimet... | 1.112 | 0.874 | 0.935 | 0.841 | 0.850 | 0.883 | 0.789 | 0.898 | 11.64 |
| 4) | S | 2-Fluorophenol | 0.931 | 0.908 | 0.987 | 0.878 | 0.914 | 0.996 | 0.911 | 0.932 | 4.67 |
| 5) | S | Phenol-d6 | 1.243 | 1.057 | 1.128 | 1.067 | 1.133 | 1.254 | 1.180 | 1.152 | 6.79 |
| 6) | | bis(2-Chloroet... | 1.426 | 1.150 | 1.183 | 1.129 | 1.132 | 1.210 | 1.104 | 1.190 | 9.22 |
| 7) | I | Naphthalene-d8 | ----------ISTD---------- | | | | | | | | |
| 8) | S | Nitrobenzene-d5 | 0.572 | 0.396 | 0.415 | 0.401 | 0.402 | 0.450 | 0.411 | 0.435 | 14.47 |
| 9) | | Naphthalene | 1.371 | 1.125 | 1.206 | 1.111 | 1.108 | 1.222 | 1.094 | 1.177 | 8.45 |
| 10) | | Hexachlorobuta... | 0.296 | 0.283 | 0.294 | 0.267 | 0.261 | 0.286 | 0.251 | 0.277 | 6.24 |
| 11) | SURR | 2-Methylnaphth... | 0.656 | 0.549 | 0.606 | 0.562 | 0.577 | 0.633 | 0.581 | 0.595 | 6.55 |
| 12) | | 2-Methylnaphth... | 0.810 | 0.696 | 0.765 | 0.703 | 0.734 | 0.802 | 0.731 | 0.749 | 6.03 |
| 13) | I | Acenaphthene-d10 | ----------ISTD---------- | | | | | | | | |
| 14) | S | 2,4,6-Tribromo... | 0.181 | 0.160 | 0.187 | 0.169 | 0.188 | 0.197 | 0.188 | 0.182 | 7.04 |
| 15) | S | 2-Fluorobiphenyl | 2.208 | 1.982 | 2.398 | 2.350 | 2.364 | 2.566 | 2.419 | 2.327 | 7.96 |
| 16) | | Acenaphthylene | 1.882 | 1.756 | 1.938 | 1.794 | 1.834 | 2.074 | 1.935 | 1.888 | 5.66 |
| 17) | | Acenaphthene | 1.257 | 1.159 | 1.281 | 1.171 | 1.199 | 1.339 | 1.243 | 1.236 | 5.17 |
| 18) | | Fluorene | 1.629 | 1.600 | 1.764 | 1.609 | 1.670 | 1.778 | 1.650 | 1.672 | 4.32 |
| 19) | I | Phenanthrene-d10 | ----------ISTD---------- | | | | | | | | |
| 20) | | 4,6-Dinitro-2-... | | 0.057 | 0.077 | 0.075 | 0.088 | 0.110 | 0.111 | 0.086 | 24.66 |
| 21) | | 4-Bromophenyl-... | 0.243 | 0.227 | 0.274 | 0.238 | 0.241 | 0.278 | 0.253 | 0.251 | 7.53 |
| 22) | | Hexachlorobenzene | 0.306 | 0.288 | 0.336 | 0.295 | 0.283 | 0.322 | 0.289 | 0.303 | 6.58 |
| 23) | | Atrazine | 0.193 | 0.191 | 0.213 | 0.192 | 0.200 | 0.216 | 0.200 | 0.201 | 5.08 |
| 24) | | Pentachlorophenol | 0.140 | 0.116 | 0.137 | 0.122 | 0.135 | 0.161 | 0.155 | 0.138 | 11.76 |
| 25) | | Phenanthrene | 1.190 | 1.111 | 1.297 | 1.141 | 1.165 | 1.300 | 1.195 | 1.200 | 6.09 |
| 26) | | Anthracene | 1.026 | 0.971 | 1.147 | 1.033 | 1.075 | 1.215 | 1.112 | 1.083 | 7.60 |
| 27) | SURR | Fluoranthene-d10 | 1.037 | 0.955 | 1.116 | 0.956 | 1.025 | 1.087 | 1.000 | 1.025 | 5.98 |
| 28) | | Fluoranthene | 1.341 | 1.243 | 1.452 | 1.272 | 1.364 | 1.447 | 1.316 | 1.348 | 5.95 |
| 29) | I | Chrysene-d12 | ----------ISTD---------- | | | | | | | | |
| 30) | | Pyrene | 1.945 | 2.005 | 2.131 | 1.910 | 1.870 | 1.992 | 1.837 | 1.956 | 5.04 |
| 31) | S | Terphenyl-d14 | 0.962 | 0.965 | 1.028 | 0.924 | 0.915 | 0.987 | 0.926 | 0.958 | 4.23 |
| 32) | | Benzo(a)anthra... | 1.389 | 1.315 | 1.437 | 1.304 | 1.347 | 1.528 | 1.415 | 1.391 | 5.63 |
| 33) | | Chrysene | 1.486 | 1.509 | 1.610 | 1.507 | 1.462 | 1.616 | 1.448 | 1.520 | 4.44 |
| 34) | | Bis(2-ethylhex... | 1.196 | 1.100 | 1.044 | 0.865 | 0.946 | 0.912 | 0.870 | 0.990 | 12.74 |
| 35) | I | Perylene-d12 | ----------ISTD---------- | | | | | | | | |

Response Factor Report BNA_N

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
Method File : 8270-SIM-BN031025.M

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 36) | | Indeno(1,2,3-c... | 1.160 | 1.316 | 1.546 | 1.404 | 1.417 | 1.693 | 1.571 | 1.444 | 12.27 |
| 37) | | Benzo(b)fluora... | 1.311 | 1.360 | 1.547 | 1.402 | 1.477 | 1.595 | 1.498 | 1.456 | 7.04 |
| 38) | | Benzo(k)fluora... | 1.504 | 1.397 | 1.620 | 1.481 | 1.521 | 1.635 | 1.534 | 1.527 | 5.34 |
| 39) | C | Benzo(a)pyrene | 1.090 | 1.152 | 1.303 | 1.195 | 1.223 | 1.350 | 1.268 | 1.226 | 7.29 |
| 40) | | Dibenzo(a,h)an... | 0.893 | 0.981 | 1.163 | 1.126 | 1.102 | 1.351 | 1.252 | 1.124 | 13.76 |
| 41) | | Benzo(g,h,i)pe... | 1.138 | 1.213 | 1.382 | 1.250 | 1.233 | 1.449 | 1.334 | 1.286 | 8.36 |

(#) = Out of Range

Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036557.D
Acq On : 10 Mar 2025 11:42
Operator : RC/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 10 16:00:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:54:23 2025
Response via : Initial Calibration

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.1

**Manual Integrations APPROVED**
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.724 | 152 | 2755 | 0.400 | ng | | 0.00 |
| 7) Naphthalene-d8 | 10.509 | 136 | 6575 | 0.400 | ng | | 0.00 |
| 13) Acenaphthene-d10 | 14.366 | 164 | 3958 | 0.400 | ng | | 0.00 |
| 19) Phenanthrene-d10 | 17.111 | 188 | 8269 | 0.400 | ng | | 0.00 |
| 29) Chrysene-d12 | 21.295 | 240 | 5886 | 0.400 | ng | | 0.00 |
| 35) Perylene-d12 | 23.554 | 264 | 5207 | 0.400 | ng | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 4) 2-Fluorophenol | 5.312 | 112 | 641 | 0.100 | ng | | 0.00 |
| 5) Phenol-d6 | 6.901 | 99 | 856 | 0.108 | ng | | 0.00 |
| 8) Nitrobenzene-d5 | 8.875 | 82 | 940 | 0.131 | ng | | 0.00 |
| 11) 2-Methylnaphthalene-d10 | 12.111 | 152 | 1079 | 0.110 | ng | | 0.00 |
| 14) 2,4,6-Tribromophenol | 15.858 | 330 | 179 | 0.100 | ng | | 0.00 |
| 15) 2-Fluorobiphenyl | 12.993 | 172 | 2185 | 0.095 | ng | | 0.00 |
| 27) Fluoranthene-d10 | 19.141 | 212 | 2144 | 0.101 | ng | | 0.00 |
| 31) Terphenyl-d14 | 19.745 | 244 | 1416 | 0.100 | ng | | 0.00 |
| **Target Compounds** | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.247 | 88 | 299m | 0.098 | ng | | |
| 3) n-Nitrosodimethylamine | 3.557 | 42 | 766 | 0.124 | ng | # | 95 |
| 6) bis(2-Chloroethyl)ether | 7.154 | 93 | 982 | 0.120 | ng | | 98 |
| 9) Naphthalene | 10.562 | 128 | 2254 | 0.117 | ng | # | 94 |
| 10) Hexachlorobutadiene | 10.850 | 225 | 486 | 0.107 | ng | # | 100 |
| 12) 2-Methylnaphthalene | 12.187 | 142 | 1331 | 0.108 | ng | | 96 |
| 16) Acenaphthylene | 14.078 | 152 | 1862 | 0.100 | ng | | 99 |
| 17) Acenaphthene | 14.430 | 154 | 1244 | 0.102 | ng | | 99 |
| 18) Fluorene | 15.414 | 166 | 1612 | 0.097 | ng | | 99 |
| 21) 4-Bromophenyl-phenylether | 16.304 | 248 | 502 | 0.097 | ng | | 95 |
| 22) Hexachlorobenzene | 16.416 | 284 | 632 | 0.101 | ng | | 98 |
| 23) Atrazine | 16.578 | 200 | 400 | 0.096 | ng | # | 90 |
| 24) Pentachlorophenol | 16.776 | 266 | 290 | 0.102 | ng | | 98 |
| 25) Phenanthrene | 17.148 | 178 | 2459 | 0.099 | ng | | 99 |
| 26) Anthracene | 17.248 | 178 | 2121 | 0.095 | ng | | 100 |
| 28) Fluoranthene | 19.174 | 202 | 2772 | 0.099 | ng | | 97 |
| 30) Pyrene | 19.536 | 202 | 2862 | 0.099 | ng | | 100 |
| 32) Benzo(a)anthracene | 21.286 | 228 | 2044 | 0.100 | ng | | 94 |
| 33) Chrysene | 21.331 | 228 | 2187 | 0.098 | ng | | 93 |
| 34) Bis(2-ethylhexyl)phtha... | 21.214 | 149 | 1760 | 0.121 | ng | | 96 |
| 36) Indeno(1,2,3-cd)pyrene | 25.841 | 276 | 1510 | 0.080 | ng | | 98 |
| 37) Benzo(b)fluoranthene | 22.876 | 252 | 1707 | 0.090 | ng | # | 62 |
| 38) Benzo(k)fluoranthene | 22.923 | 252 | 1958 | 0.098 | ng | # | 62 |
| 39) Benzo(a)pyrene | 23.458 | 252 | 1419 | 0.089 | ng | # | 51 |
| 40) Dibenzo(a,h)anthracene | 25.861 | 278 | 1163 | 0.079 | ng | # | 59 |
| 41) Benzo(g,h,i)perylene | 26.539 | 276 | 1482 | 0.089 | ng | # | 84 |

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

ICAL Form

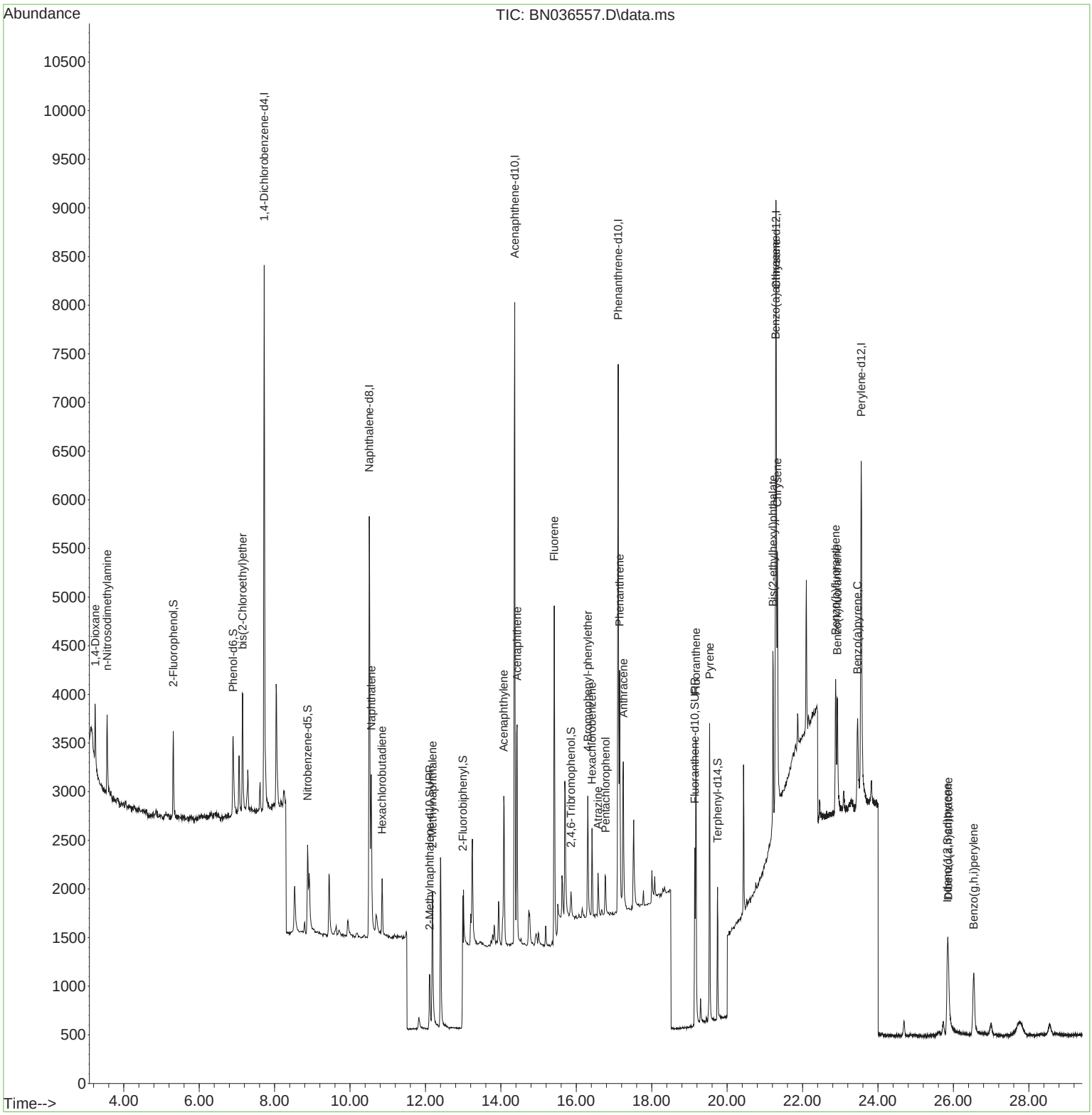
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036557.D
Acq On : 10 Mar 2025 11:42
Operator : RC/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 2 Sample Multiplier: 1

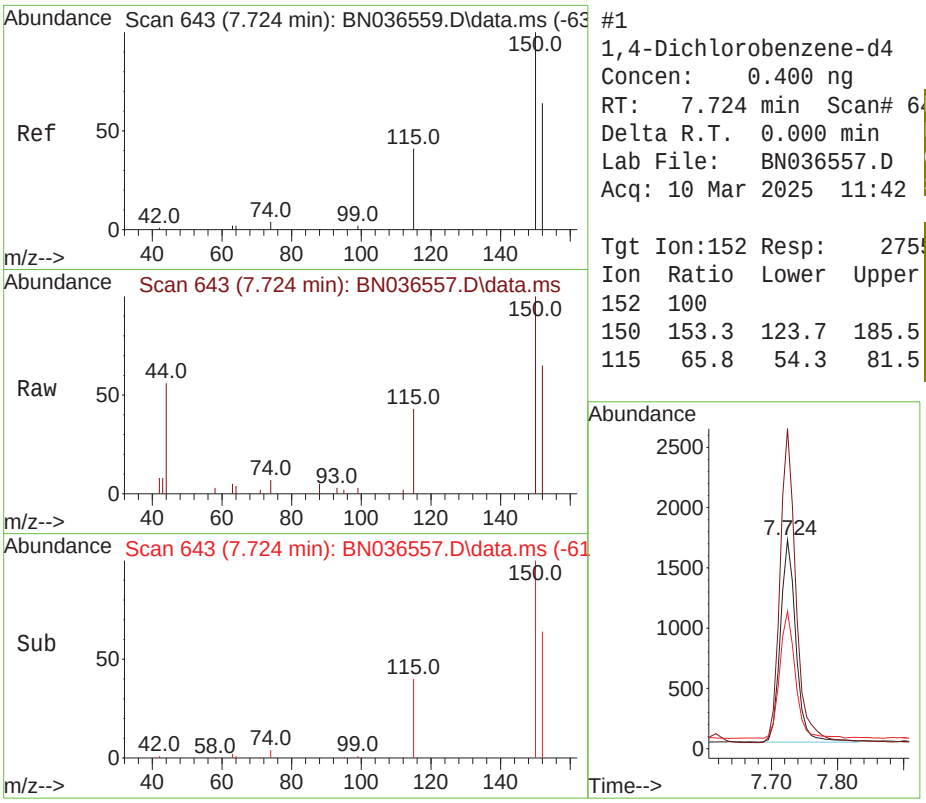
Quant Time: Mar 10 16:00:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:54:23 2025
Response via : Initial Calibration

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.1

**Manual Integrations APPROVED**

Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025






#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 6
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:152 Resp: 275

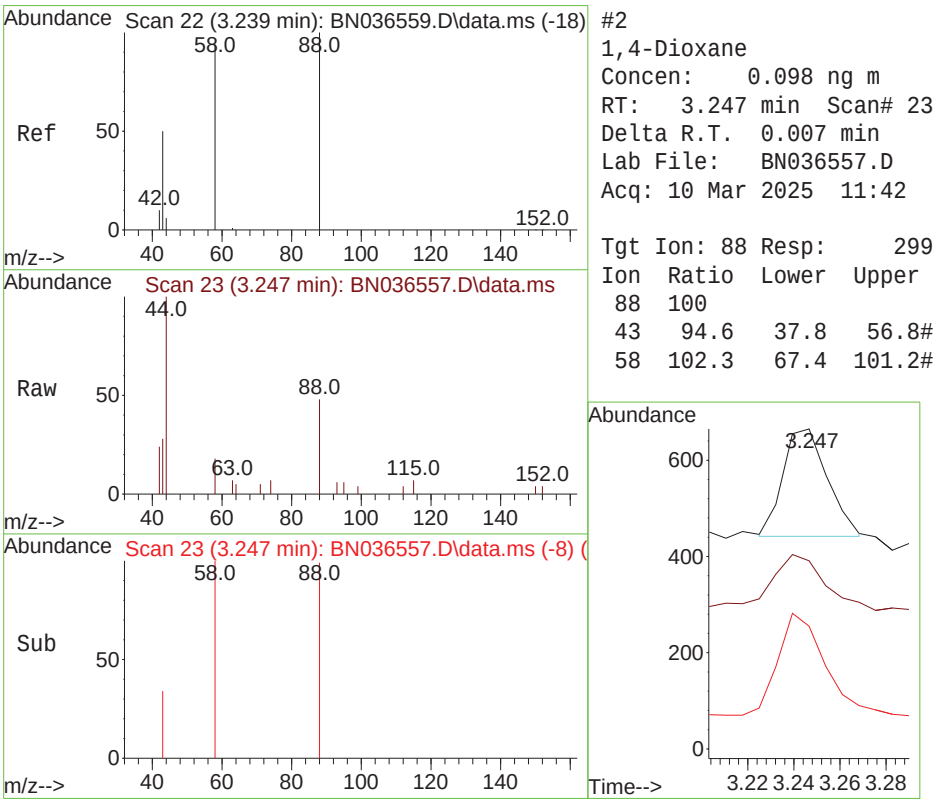
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 153.3 | 123.7 | 185.5 |
| 115 | 65.8 | 54.3 | 81.5 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.1

**Manual Integrations**
**APPROVED**

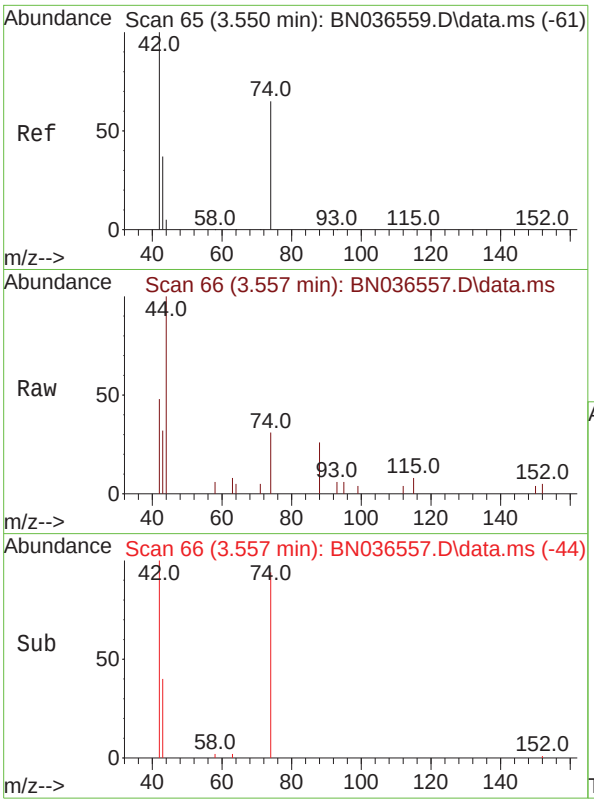
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025




#2
1,4-Dioxane
Concen: 0.098 ng m
RT: 3.247 min Scan# 23
Delta R.T. 0.007 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion: 88 Resp: 299

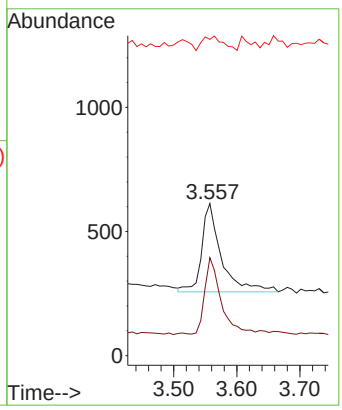
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 94.6 | 37.8 | 56.8# |
| 58 | 102.3 | 67.4 | 101.2# |




#3
n-Nitrosodimethylamine
Concen: 0.124 ng
RT: 3.557 min Scan# 6
Delta R.T. 0.007 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion: 42 Resp: 76

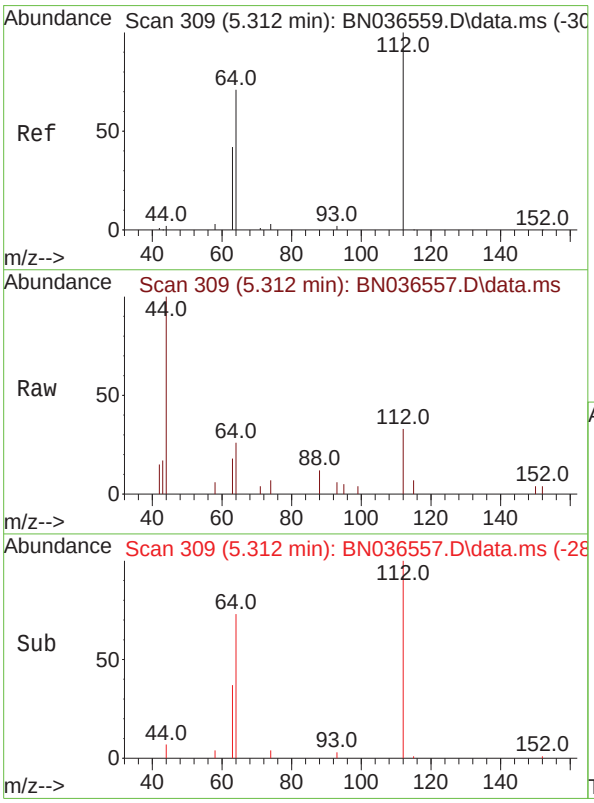
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 73.0 | 60.6 | 90.8 |
| 44 | 16.6 | 6.3 | 9.5 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.1

**Manual Integrations APPROVED**

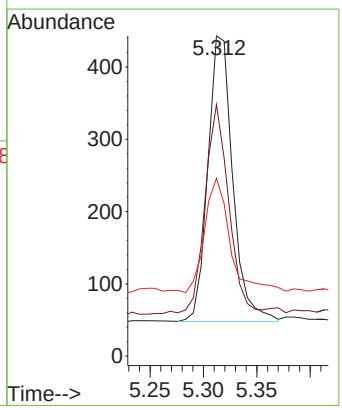
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

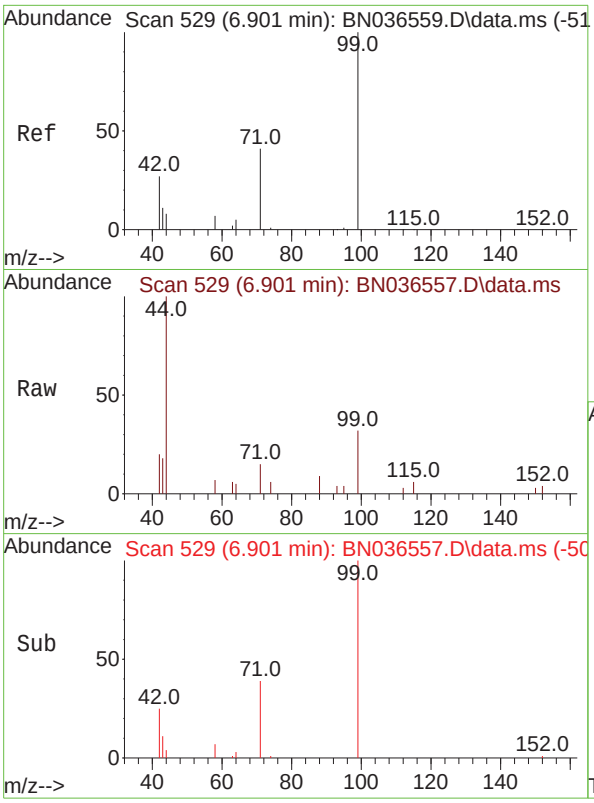



#4
2-Fluorophenol
Concen: 0.100 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:112 Resp: 641

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 70.4 | 53.1 | 79.7 |
| 63 | 40.9 | 31.8 | 47.8 |

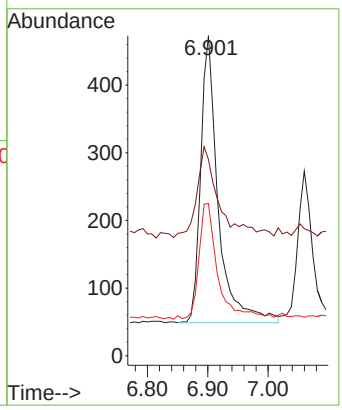





#5
Phenol-d6
Concen: 0.108 ng
RT: 6.901 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion: 99 Resp: 85

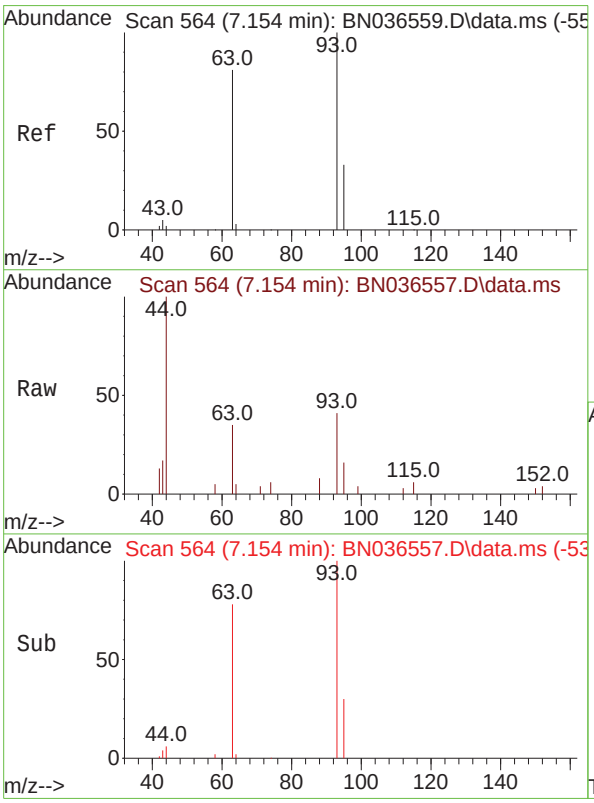
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 39.8 | 26.5 | 39.7# |
| 71 | 42.8 | 34.1 | 51.1 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.1

**Manual Integrations**
**APPROVED**

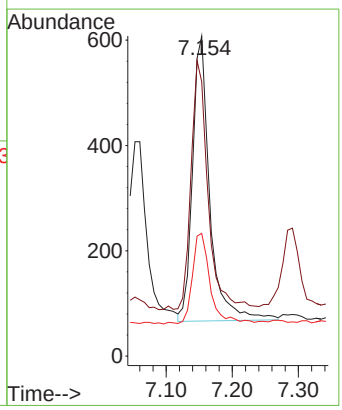
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

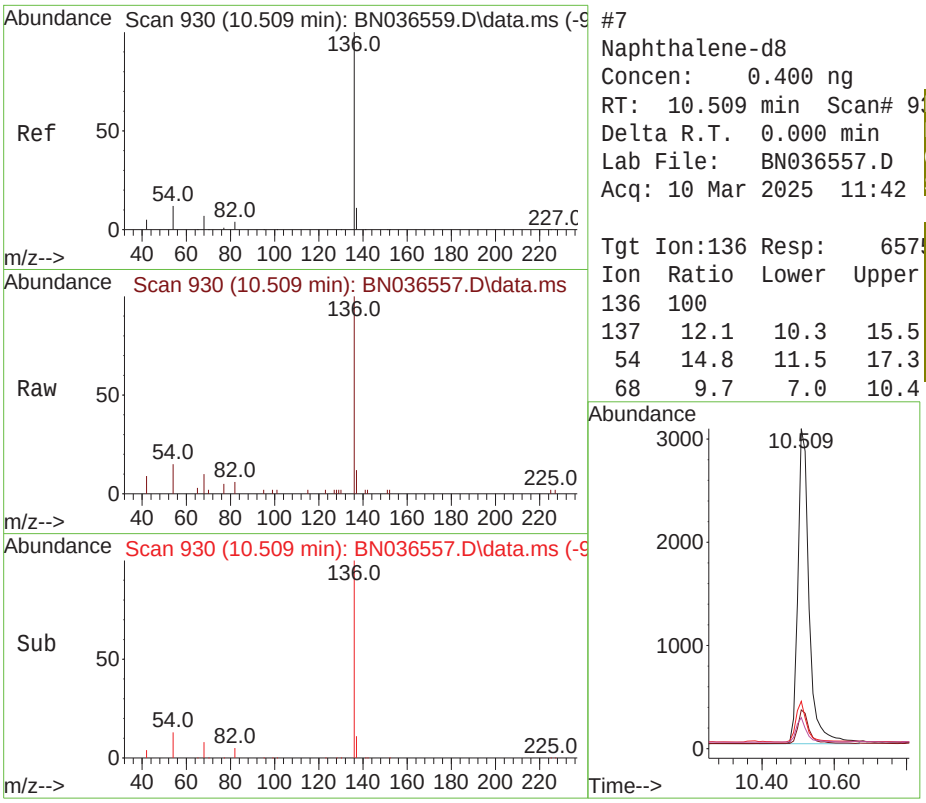



#6
bis(2-Chloroethyl)ether
Concen: 0.120 ng
RT: 7.154 min Scan# 564
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion: 93 Resp: 982

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 86.7 | 67.7 | 101.5 |
| 95 | 33.0 | 25.6 | 38.4 |






#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:136 Resp: 657

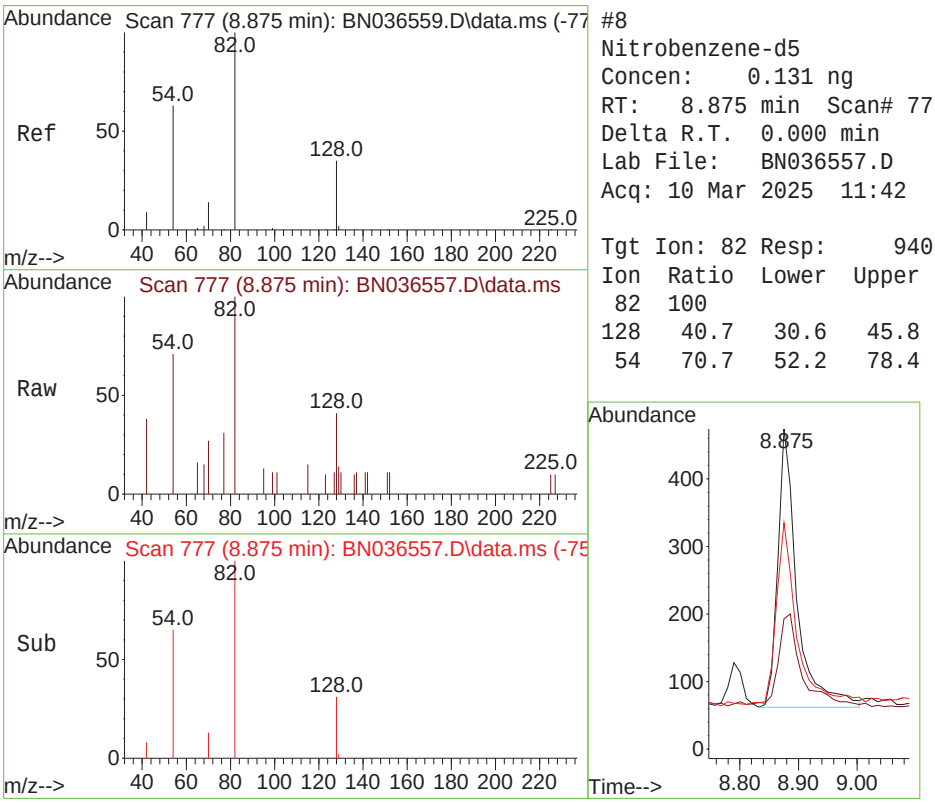
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 12.1 | 10.3 | 15.5 |
| 54 | 14.8 | 11.5 | 17.3 |
| 68 | 9.7 | 7.0 | 10.4 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.1

**Manual Integrations**
**APPROVED**

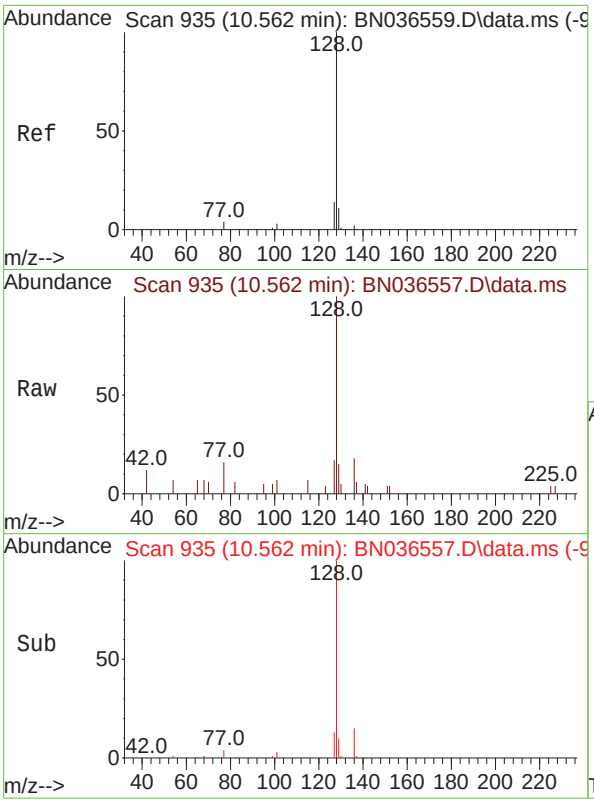
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025




#8
Nitrobenzene-d5
Concen: 0.131 ng
RT: 8.875 min Scan# 777
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion: 82 Resp: 940

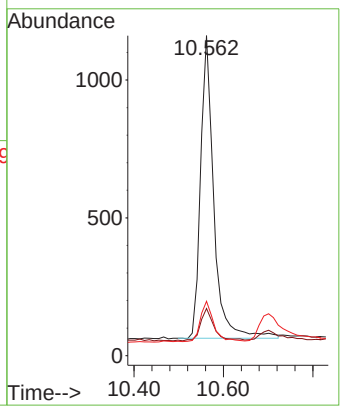
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 40.7 | 30.6 | 45.8 |
| 54 | 70.7 | 52.2 | 78.4 |




#9
Naphthalene
Concen: 0.117 ng
RT: 10.562 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:128 Resp: 225

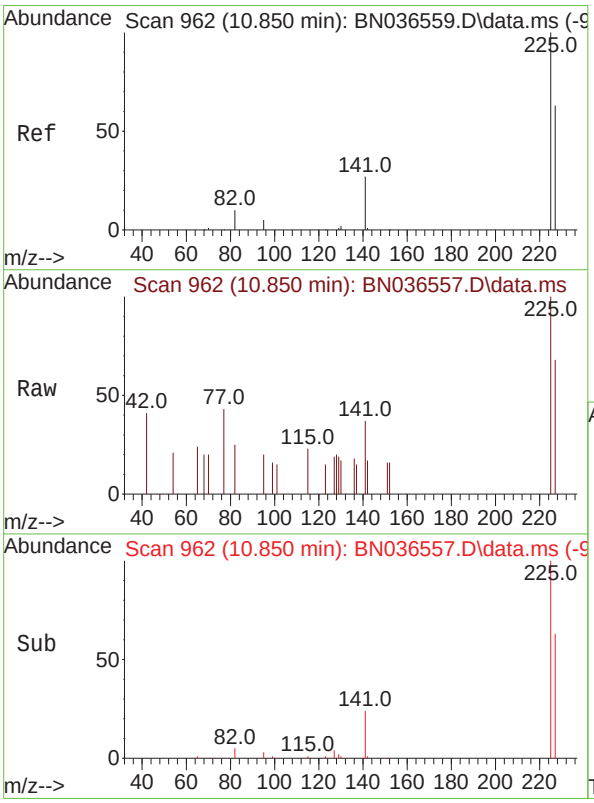
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 14.7 | 9.8 | 14.6# |
| 127 | 17.0 | 11.8 | 17.8 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.1

**Manual Integrations**
**APPROVED**

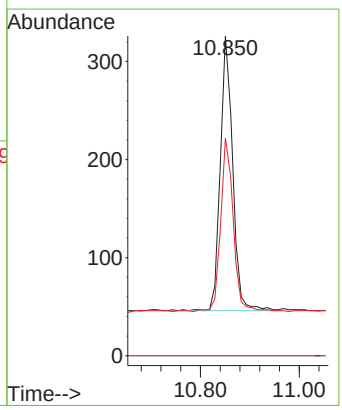
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

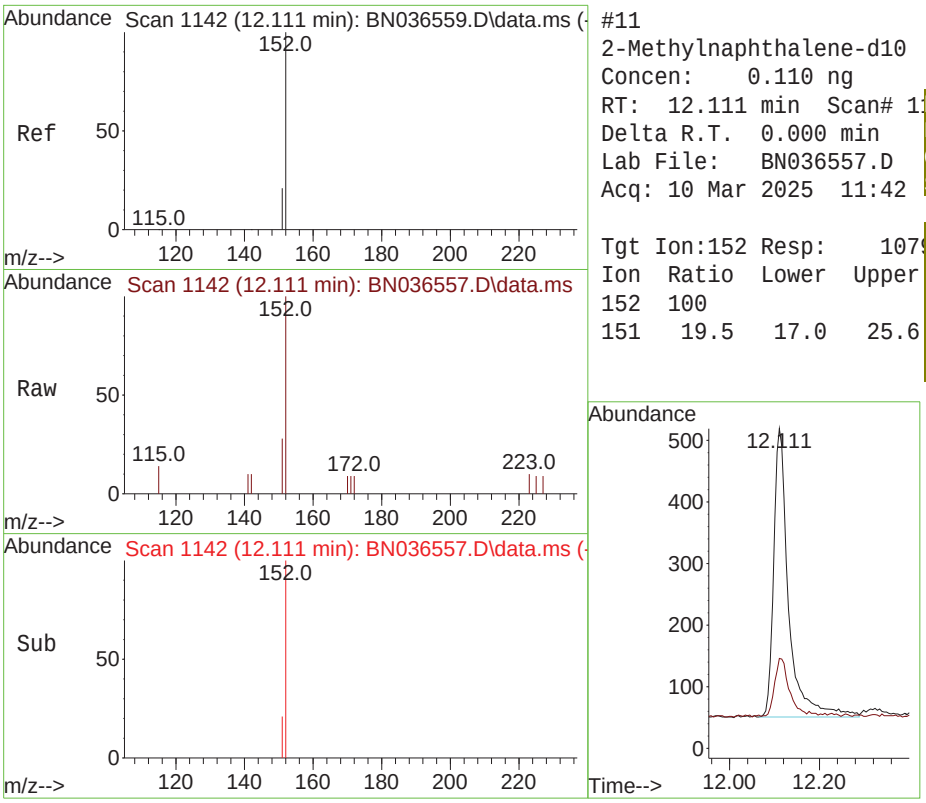



#10
Hexachlorobutadiene
Concen: 0.107 ng
RT: 10.850 min Scan# 962
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:225 Resp: 486

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 0.0 | 0.0 | 0.0 |
| 227 | 64.8 | 51.8 | 77.8 |






#11
2-Methylnaphthalene-d10
Concen: 0.110 ng
RT: 12.111 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:152 Resp: 107

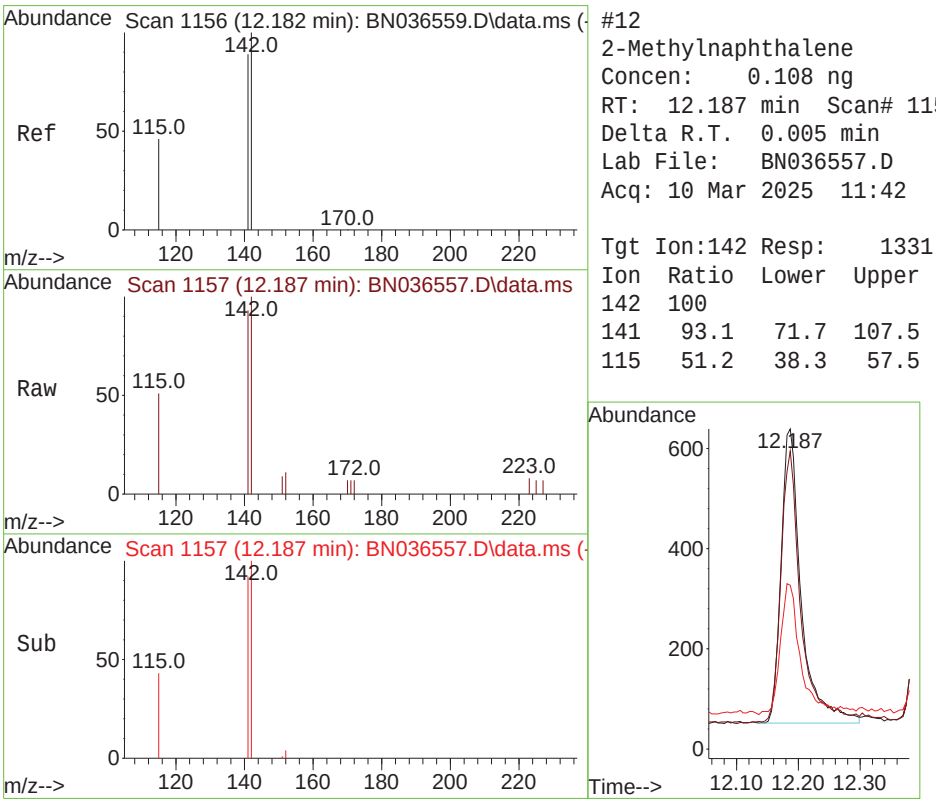
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 19.5 | 17.0 | 25.6 |

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.1

**Manual Integrations**
**APPROVED**

Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

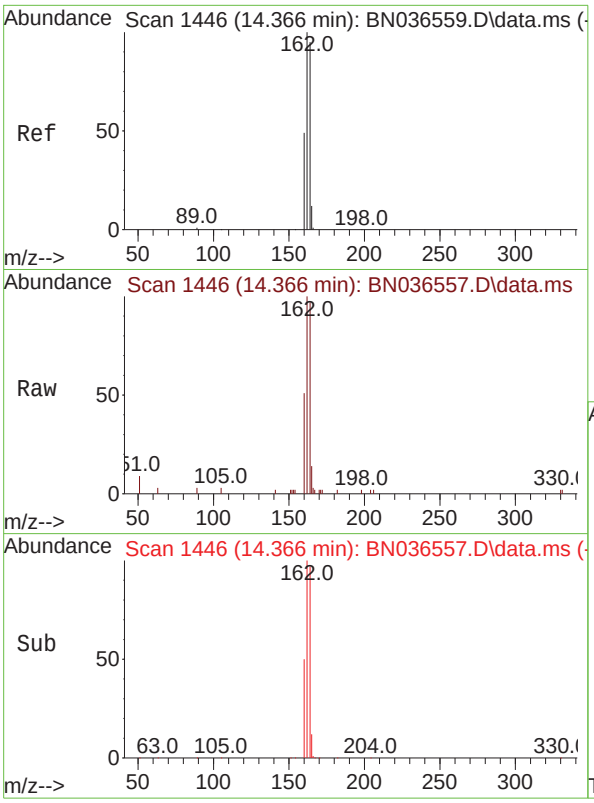



#12
2-Methylnaphthalene
Concen: 0.108 ng
RT: 12.187 min Scan# 1157
Delta R.T. 0.005 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:142 Resp: 1331

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 93.1 | 71.7 | 107.5 |
| 115 | 51.2 | 38.3 | 57.5 |




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

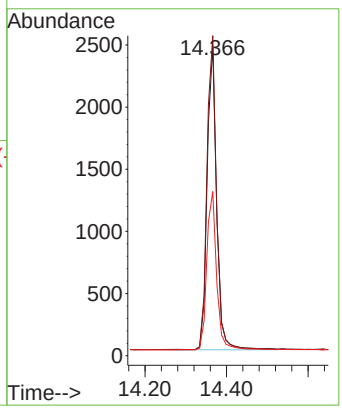
Tgt Ion:164 Resp: 395

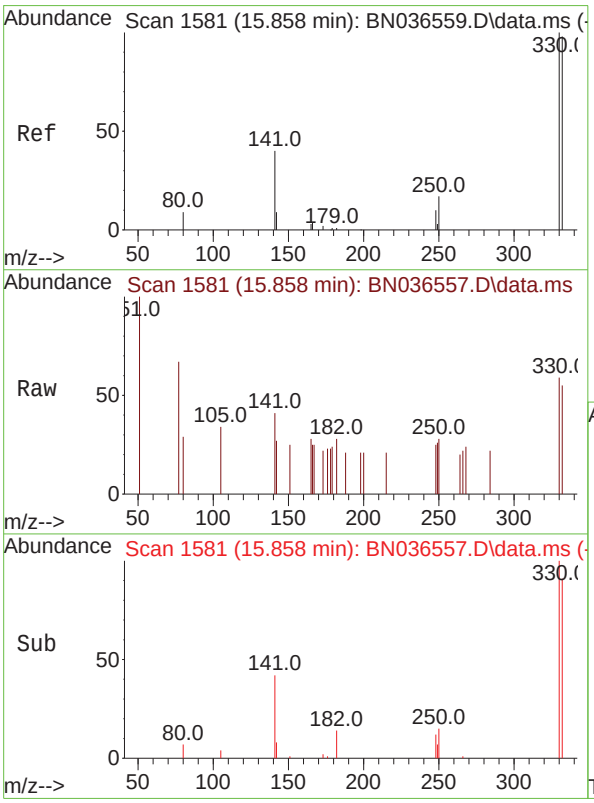
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 103.3 | 84.2 | 126.2 |
| 160 | 53.0 | 42.2 | 63.2 |

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.1

**Manual Integrations**
**APPROVED**

Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

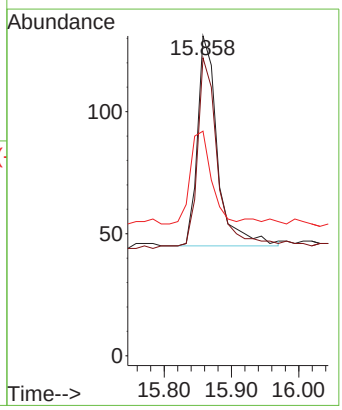


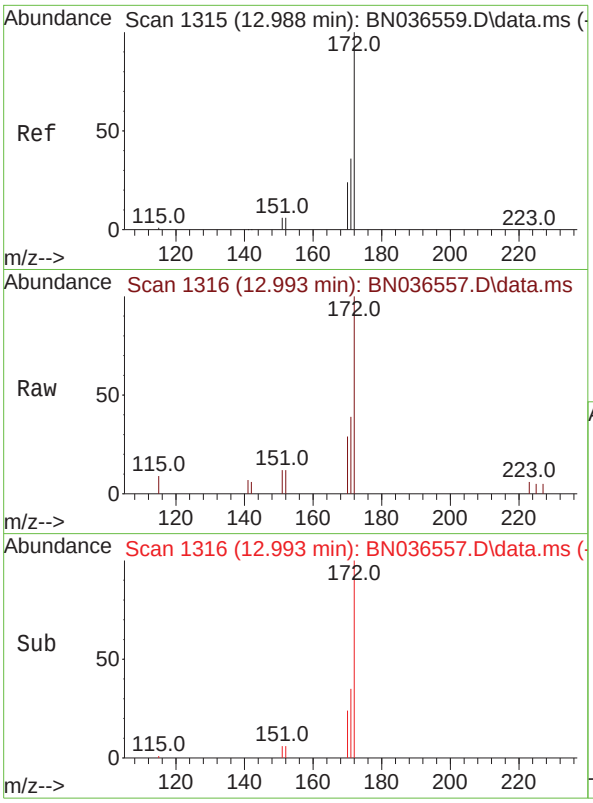




#14
2,4,6-Tribromophenol
Concen: 0.100 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:330 Resp: 179

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 96.1 | 75.2 | 112.8 |
| 141 | 46.4 | 43.4 | 65.2 |

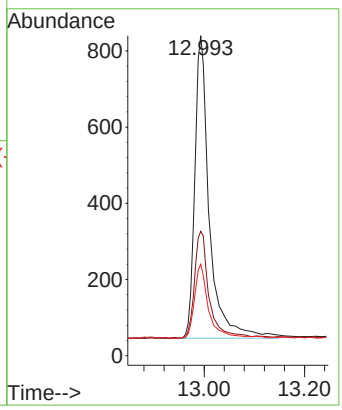





#15
2-Fluorobiphenyl
Concen: 0.095 ng
RT: 12.993 min Scan# 1
Delta R.T. 0.005 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:172 Resp: 218

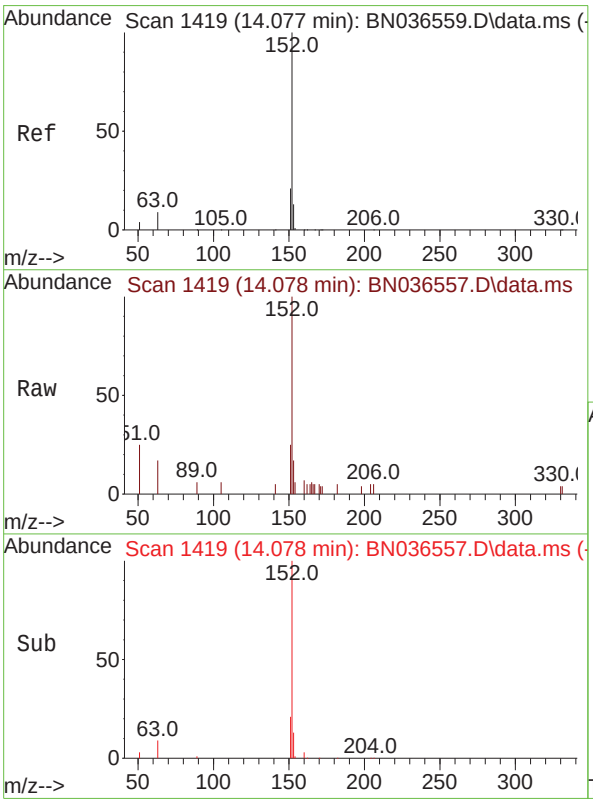
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 38.9 | 29.5 | 44.3 |
| 170 | 28.6 | 20.2 | 30.4 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.1

**Manual Integrations APPROVED**

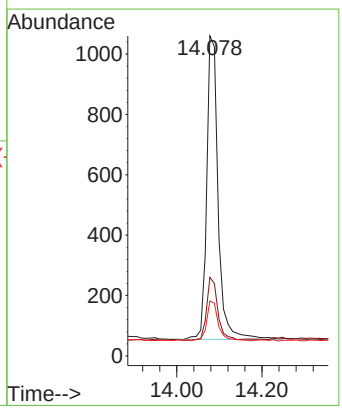
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

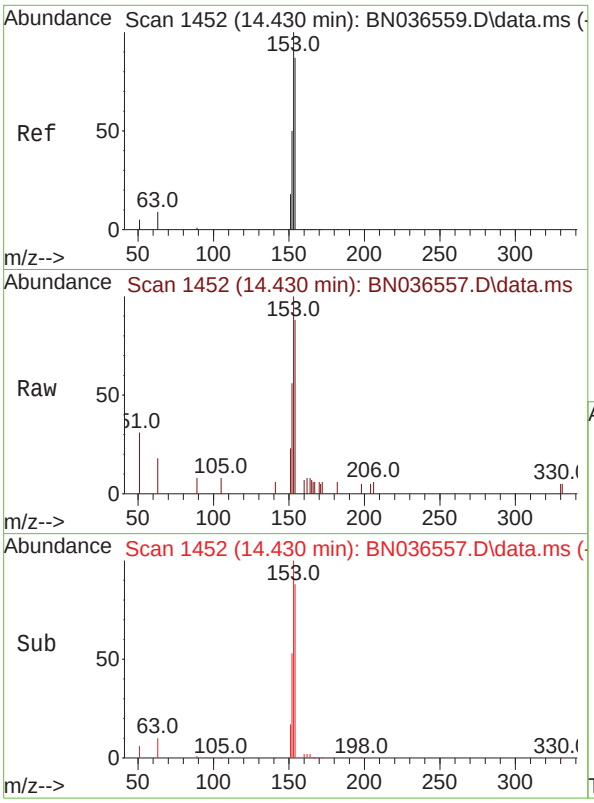



#16
Acenaphthylene
Concen: 0.100 ng
RT: 14.078 min Scan# 1419
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:152 Resp: 1862

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.2 | 16.2 | 24.4 |
| 153 | 14.1 | 10.6 | 15.8 |

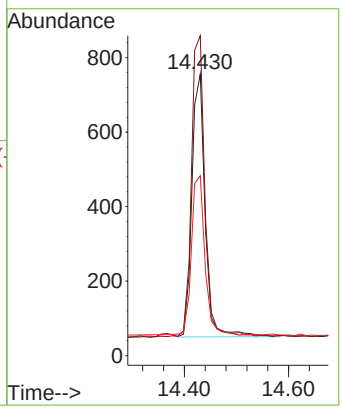





#17
Acenaphthene
Concen: 0.102 ng
RT: 14.430 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:154 Resp: 124

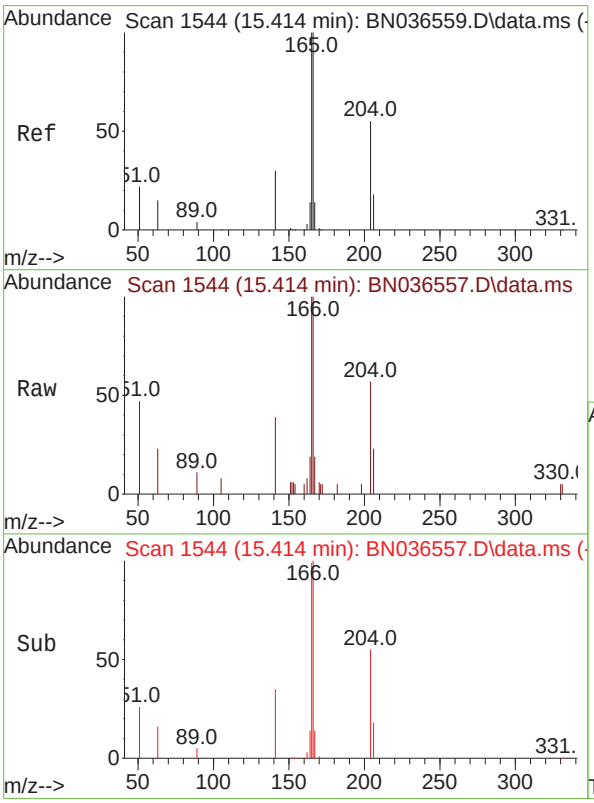
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 115.9 | 94.1 | 141.1 |
| 152 | 62.5 | 49.8 | 74.6 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.1

**Manual Integrations**
**APPROVED**

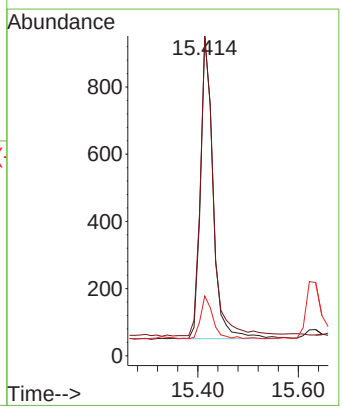
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

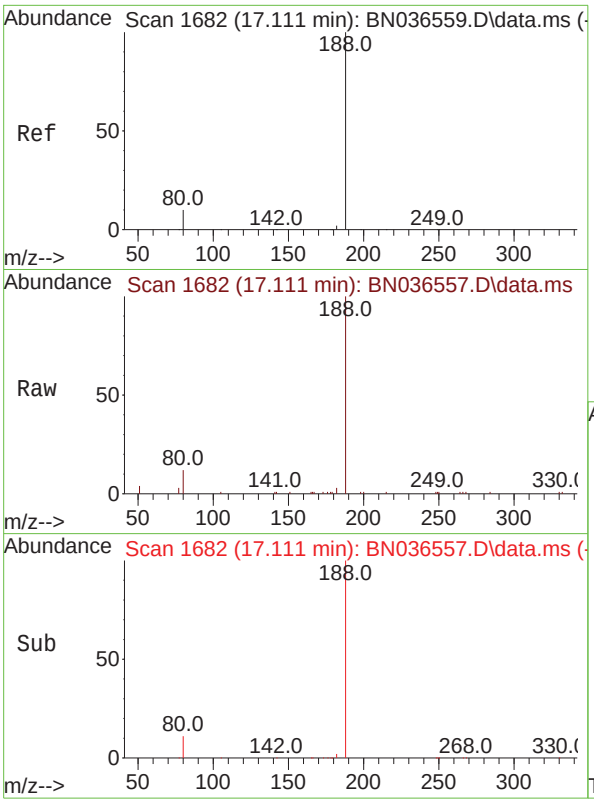



#18
Fluorene
Concen: 0.097 ng
RT: 15.414 min Scan# 1544
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:166 Resp: 1612

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 100.9 | 79.8 | 119.8 |
| 167 | 13.9 | 10.6 | 15.8 |

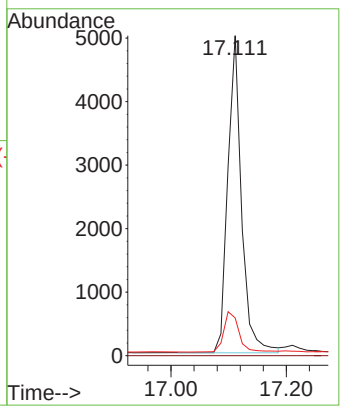





#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.111 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:188 Resp: 826

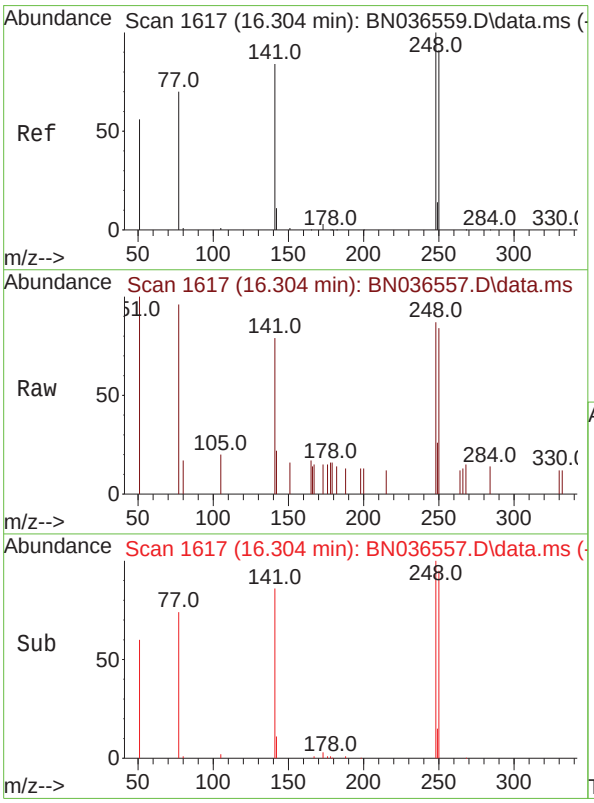
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 11.8 | 8.8 | 13.2 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.1

**Manual Integrations**
**APPROVED**

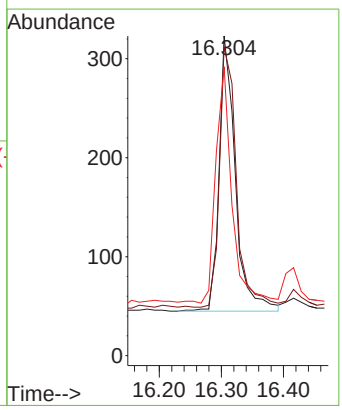
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

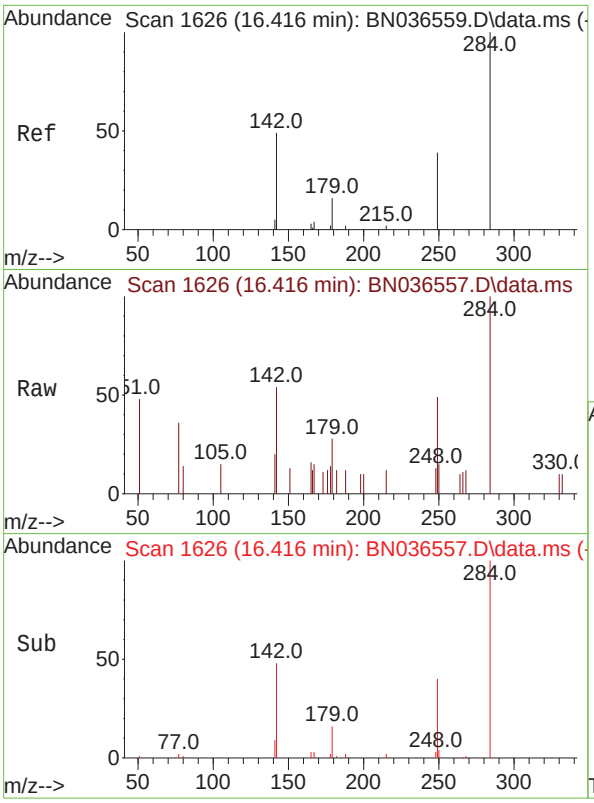



#21
4-Bromophenyl-phenylether
Concen: 0.097 ng
RT: 16.304 min Scan# 1617
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:248 Resp: 502

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 96.6 | 73.0 | 109.6 |
| 141 | 90.4 | 68.6 | 103.0 |

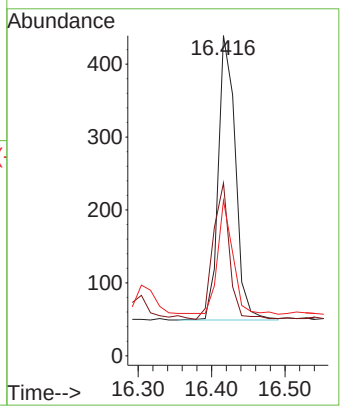





#22
Hexachlorobenzene
Concen: 0.101 ng
RT: 16.416 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:284 Resp: 63

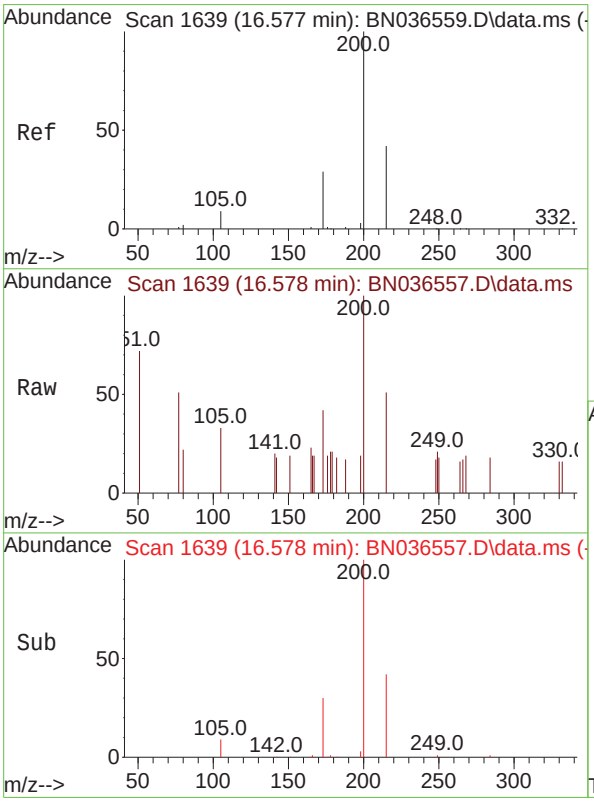
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 45.7 | 37.0 | 55.4 |
| 249 | 37.2 | 28.1 | 42.1 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.1

**Manual Integrations**
**APPROVED**

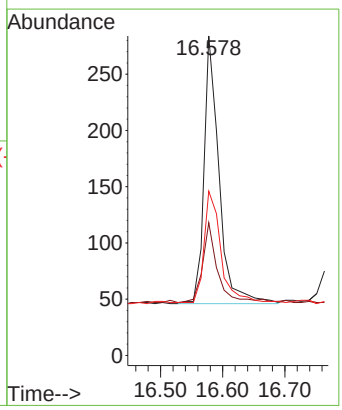
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

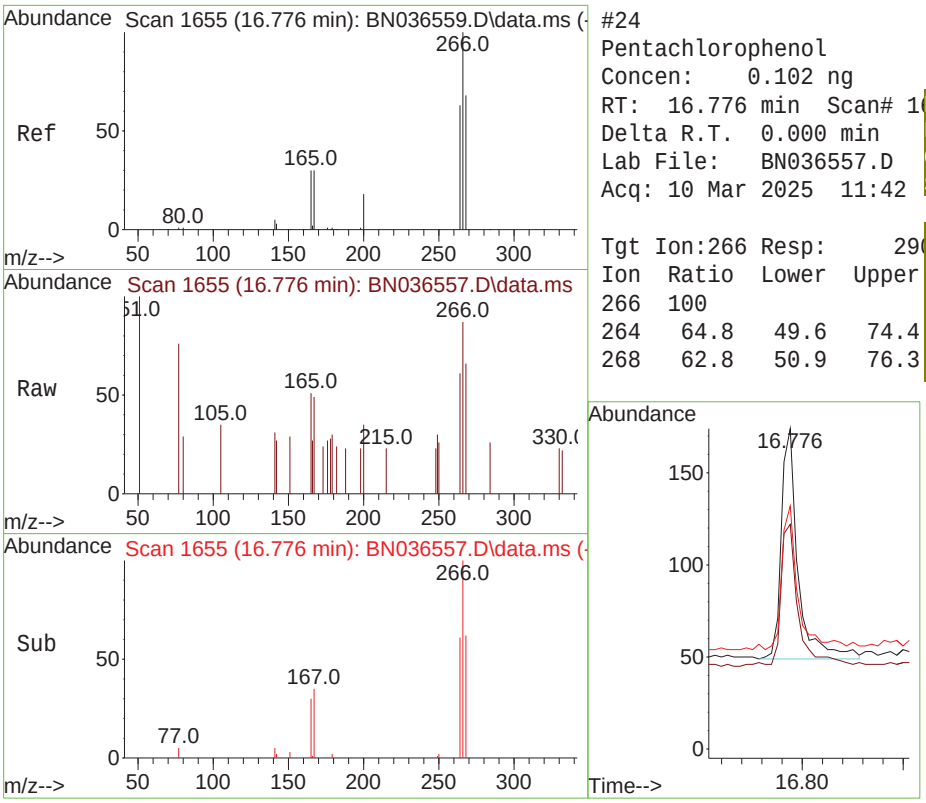



#23
Atrazine
Concen: 0.096 ng
RT: 16.578 min Scan# 1639
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:200 Resp: 400

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 173 | 41.5 | 27.3 | 40.9# |
| 215 | 51.4 | 36.8 | 55.2 |






#24
Pentachlorophenol
Concen: 0.102 ng
RT: 16.776 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:266 Resp: 29

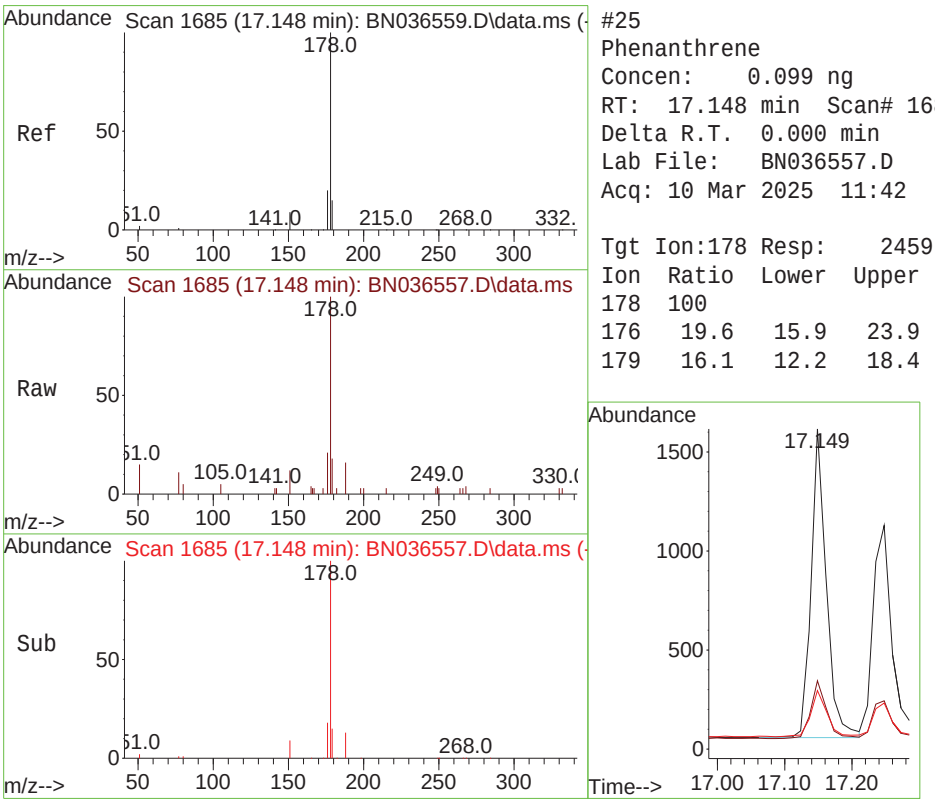
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 264 | 64.8 | 49.6 | 74.4 |
| 268 | 62.8 | 50.9 | 76.3 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.1

**Manual Integrations**
**APPROVED**

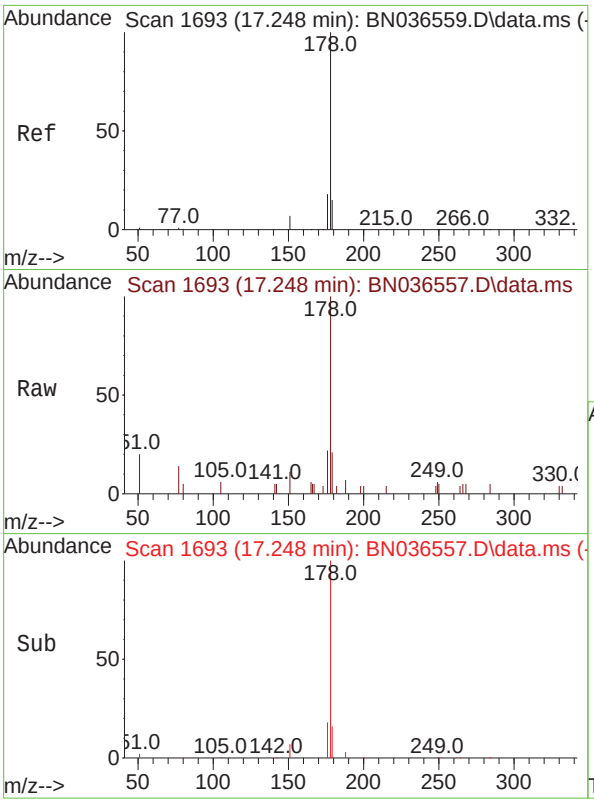
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025




#25
Phenanthrene
Concen: 0.099 ng
RT: 17.148 min Scan# 1685
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:178 Resp: 2459

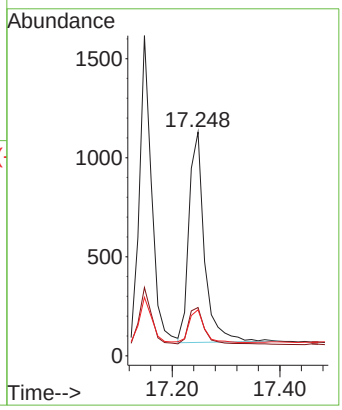
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.6 | 15.9 | 23.9 |
| 179 | 16.1 | 12.2 | 18.4 |




#26
Anthracene
Concen: 0.095 ng
RT: 17.248 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:178 Resp: 212

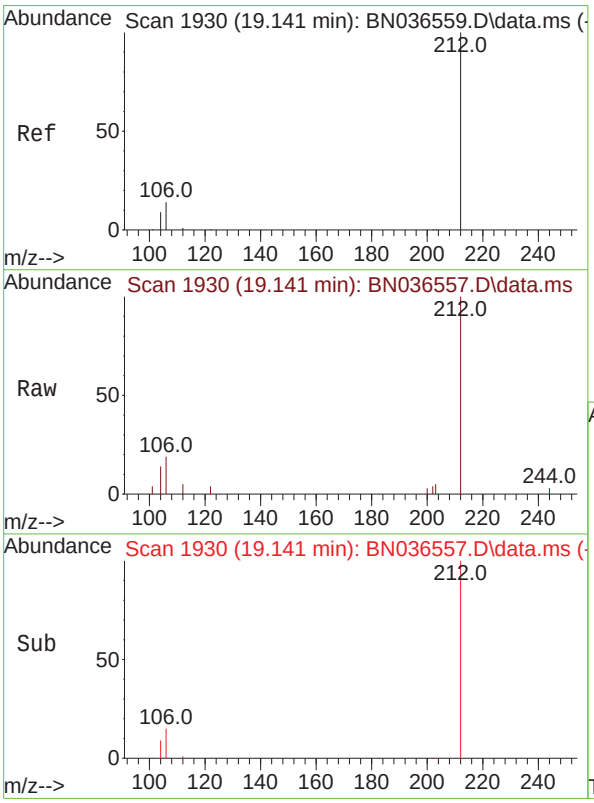
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.3 | 15.4 | 23.2 |
| 179 | 15.7 | 12.6 | 18.8 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.1

**Manual Integrations**
**APPROVED**

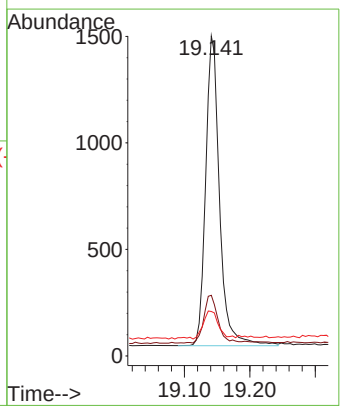
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

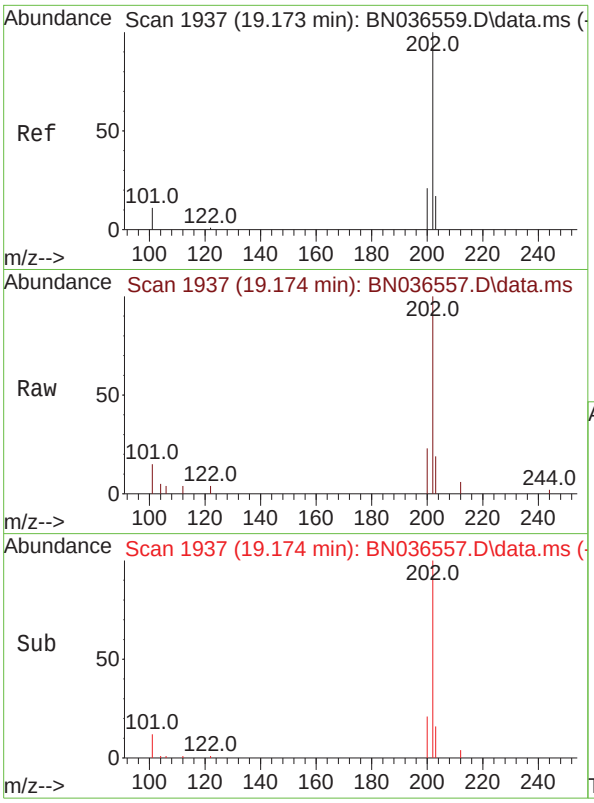



#27
Fluoranthene-d10
Concen: 0.101 ng
RT: 19.141 min Scan# 1930
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:212 Resp: 2144

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 15.5 | 11.8 | 17.6 |
| 104 | 9.7 | 7.3 | 10.9 |

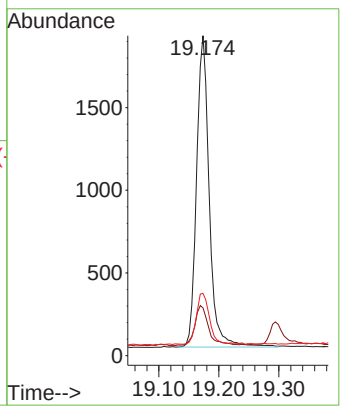





#28
Fluoranthene
Concen: 0.099 ng
RT: 19.174 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:202 Resp: 277

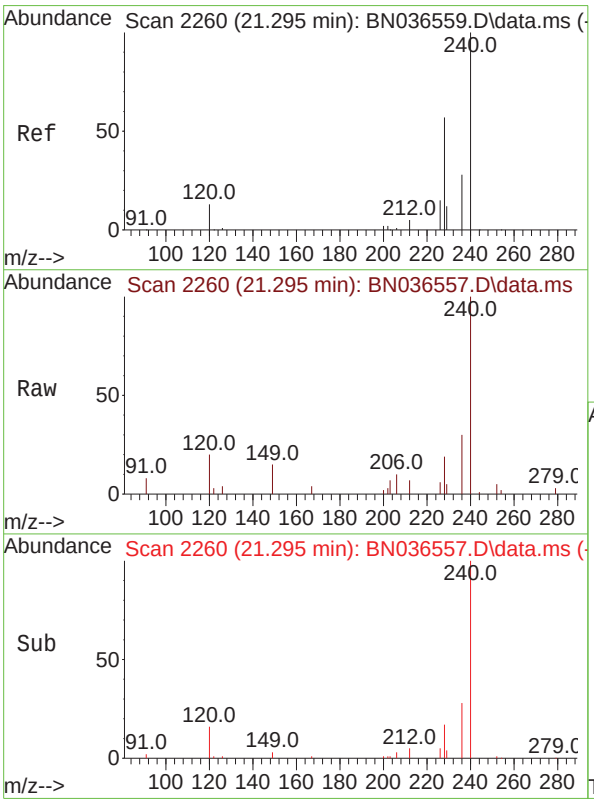
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 14.0 | 9.4 | 14.0 |
| 203 | 17.0 | 13.5 | 20.3 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.1

**Manual Integrations**
**APPROVED**

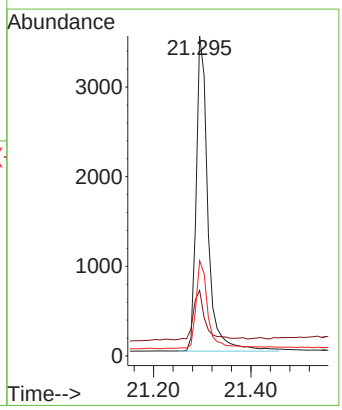
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

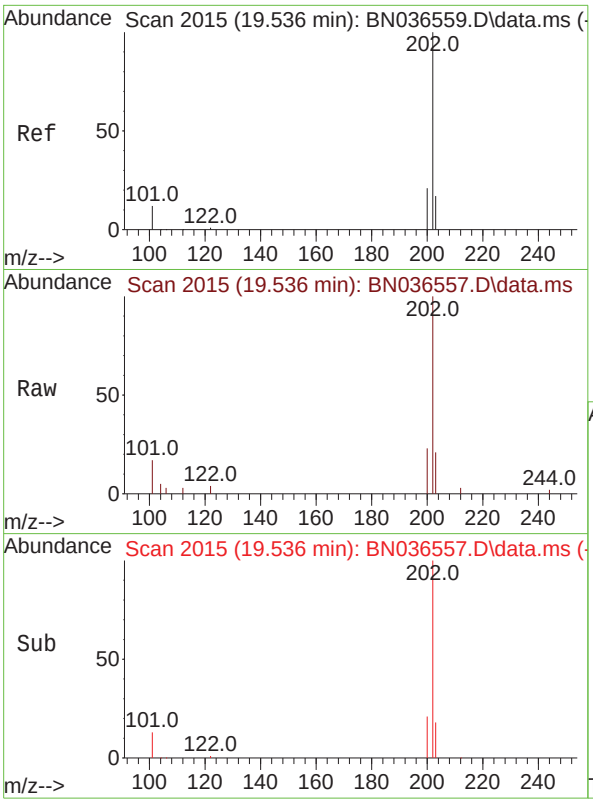



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 2260
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:240 Resp: 5886

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 20.5 | 14.6 | 22.0 |
| 236 | 29.8 | 24.1 | 36.1 |

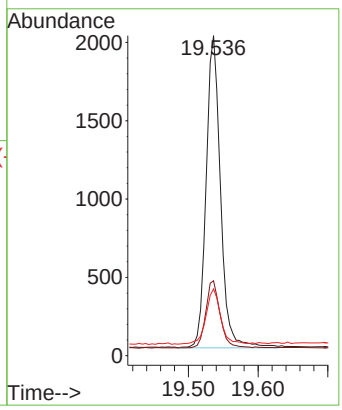





#30
Pyrene
Concen: 0.099 ng
RT: 19.536 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:202 Resp: 286

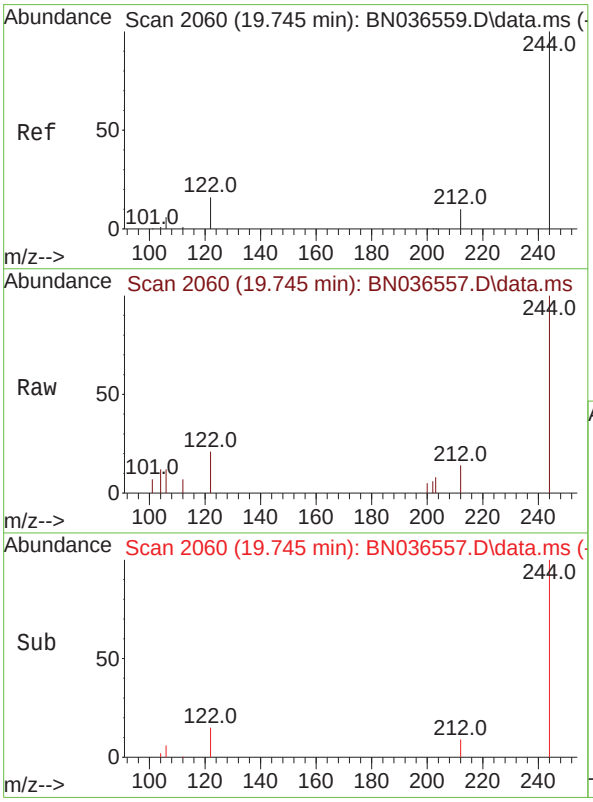
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.3 | 17.1 | 25.7 |
| 203 | 17.9 | 14.1 | 21.1 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.1

**Manual Integrations**
**APPROVED**

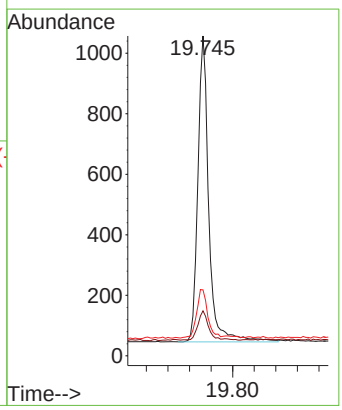
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

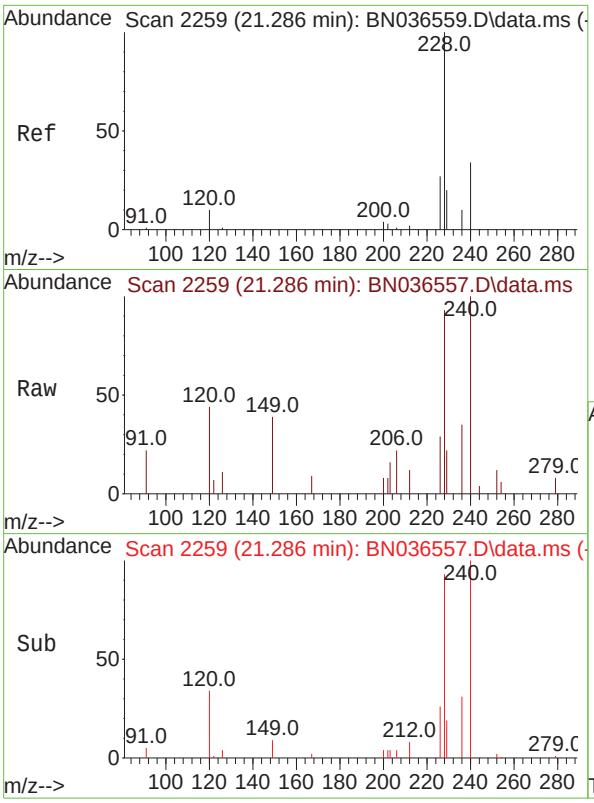



#31
Terphenyl-d14
Concen: 0.100 ng
RT: 19.745 min Scan# 2060
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:244 Resp: 1416

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 14.1 | 9.6 | 14.4 |
| 122 | 20.6 | 13.9 | 20.9 |






#32
Benzo(a)anthracene
Concen: 0.100 ng
RT: 21.286 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

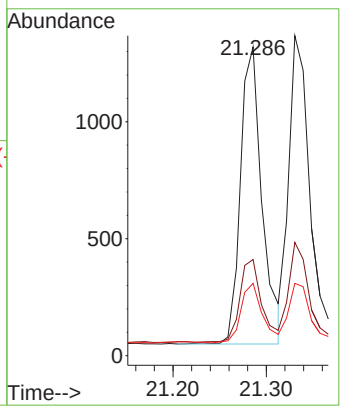
Tgt Ion:228 Resp: 204

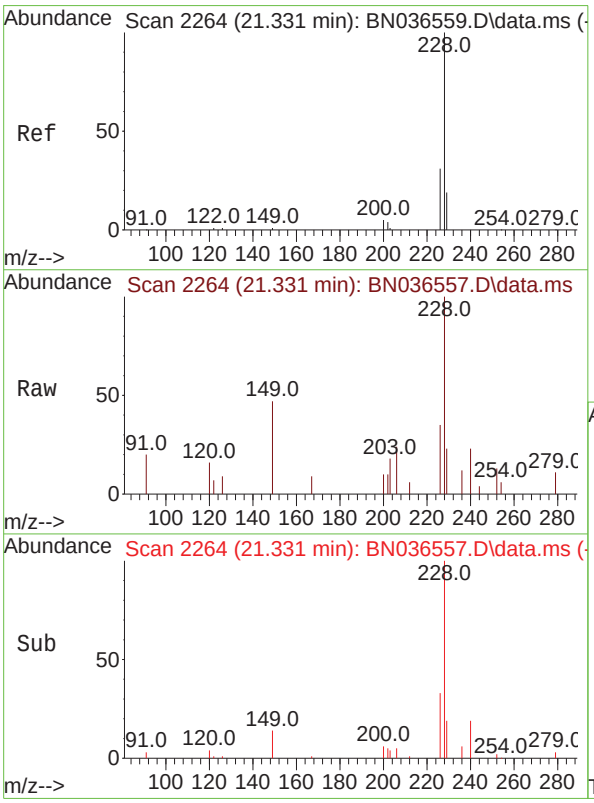
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 31.1 | 22.5 | 33.7 |
| 229 | 23.4 | 16.6 | 25.0 |

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.1

**Manual Integrations**
**APPROVED**

Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

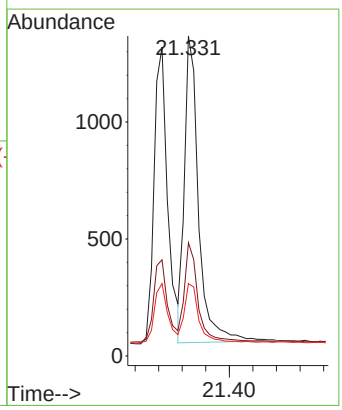


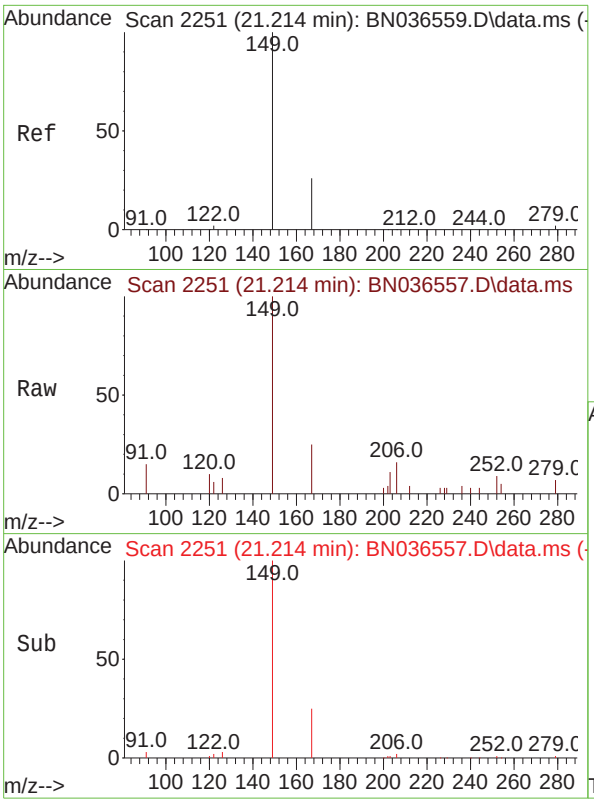




#33
Chrysene
Concen: 0.098 ng
RT: 21.331 min Scan# 2264
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:228 Resp: 2187

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 35.4 | 25.3 | 37.9 |
| 229 | 22.6 | 15.8 | 23.8 |






#34
Bis(2-ethylhexyl)phthalate
Concen: 0.121 ng
RT: 21.214 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

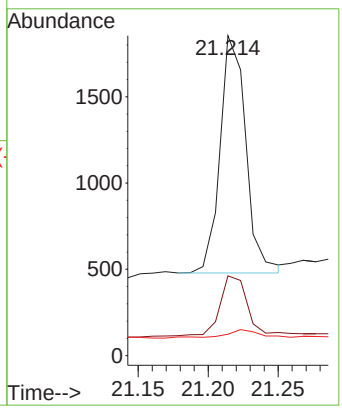
Tgt Ion:149 Resp: 176

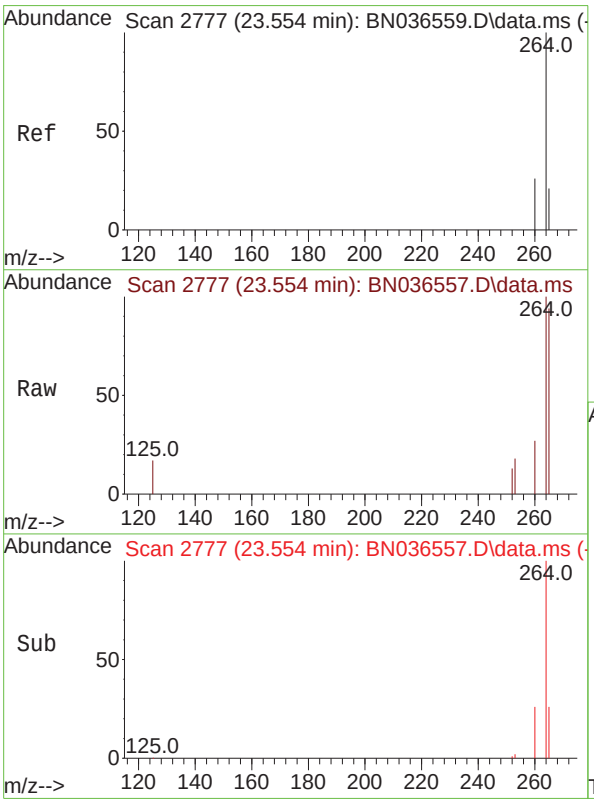
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 27.9 | 20.7 | 31.1 |
| 279 | 4.9 | 3.6 | 5.4 |

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.1

**Manual Integrations**
**APPROVED**

Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

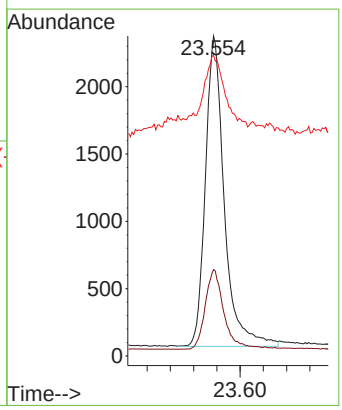


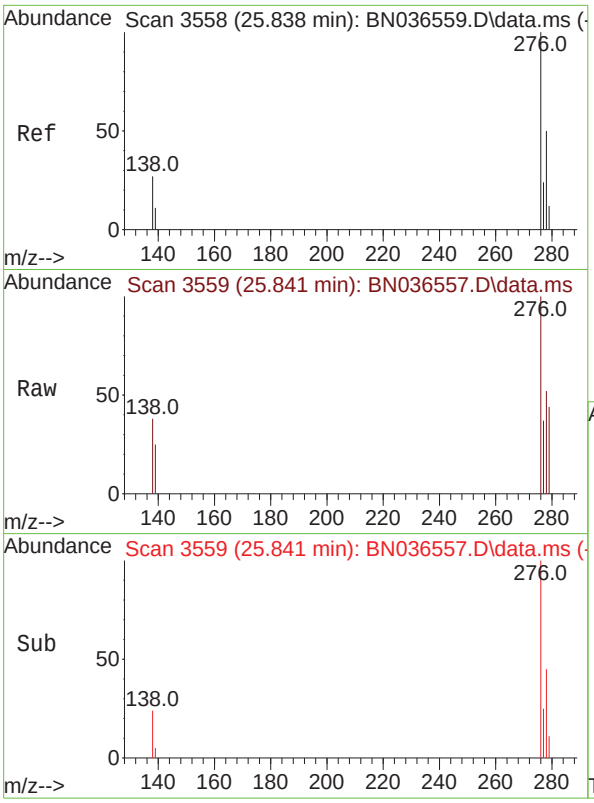




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.554 min Scan# 2777
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:264 Resp: 5207

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 27.0 | 22.6 | 33.8 |
| 265 | 93.9 | 88.1 | 132.1 |

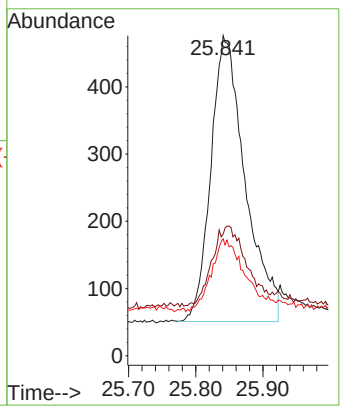





#36
Indeno(1,2,3-cd)pyrene
Concen: 0.080 ng
RT: 25.841 min Scan# 3
Delta R.T. 0.003 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:276 Resp: 151

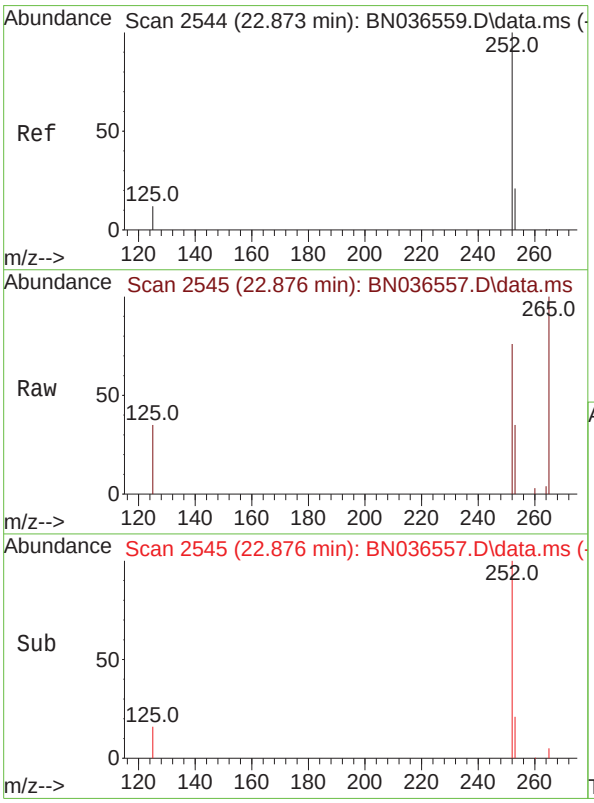
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 27.6 | 23.4 | 35.2 |
| 277 | 24.2 | 20.0 | 30.0 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.1

**Manual Integrations**
**APPROVED**

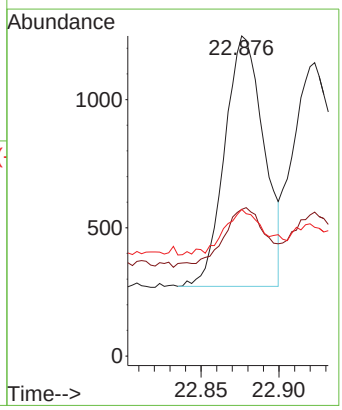
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

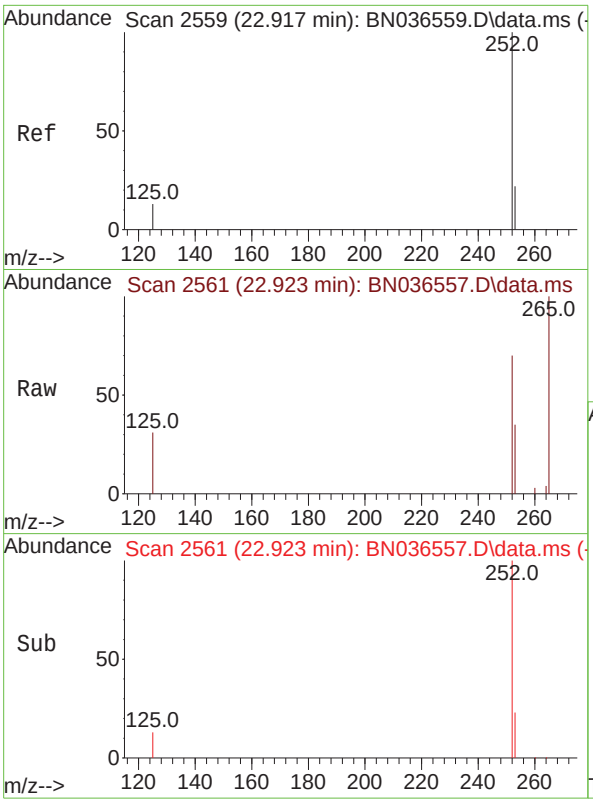



#37
Benzo(b)fluoranthene
Concen: 0.090 ng
RT: 22.876 min Scan# 2545
Delta R.T. 0.003 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:252 Resp: 1707

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 45.8 | 23.9 | 35.9# |
| 125 | 45.8 | 17.4 | 26.2# |






#38
Benzo(k)fluoranthene
Concen: 0.098 ng
RT: 22.923 min Scan# 2
Delta R.T. 0.006 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

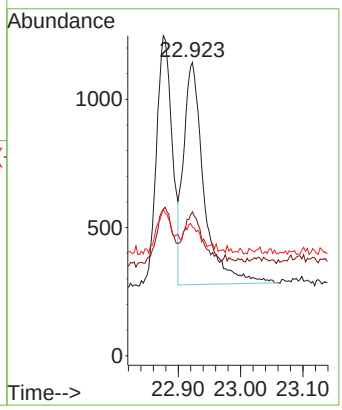
Tgt Ion:252 Resp: 195

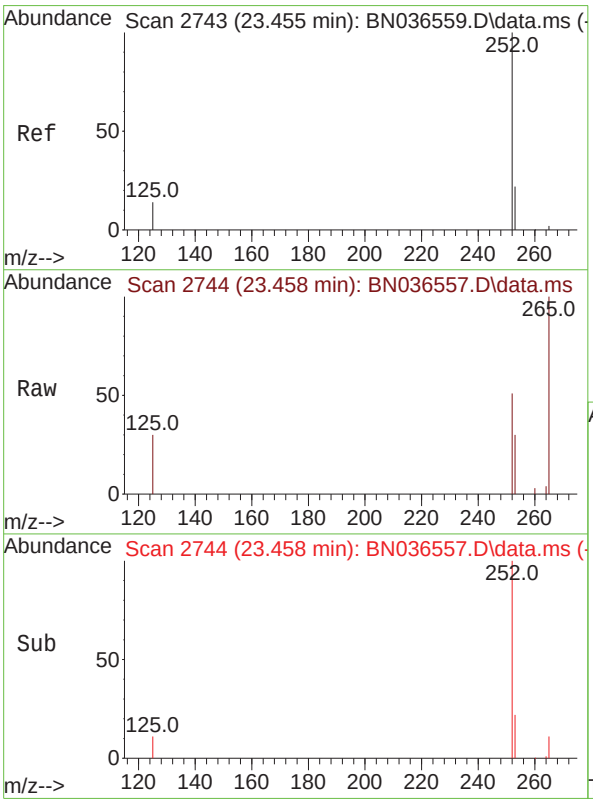
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 49.0 | 24.6 | 36.8# |
| 125 | 43.9 | 17.8 | 26.8# |

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.1

**Manual Integrations**
**APPROVED**

Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

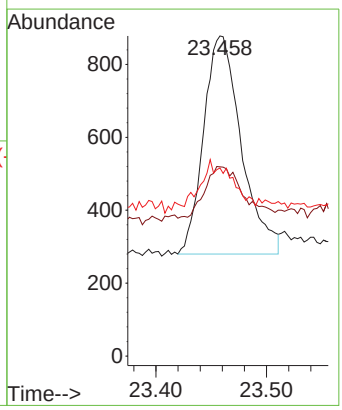


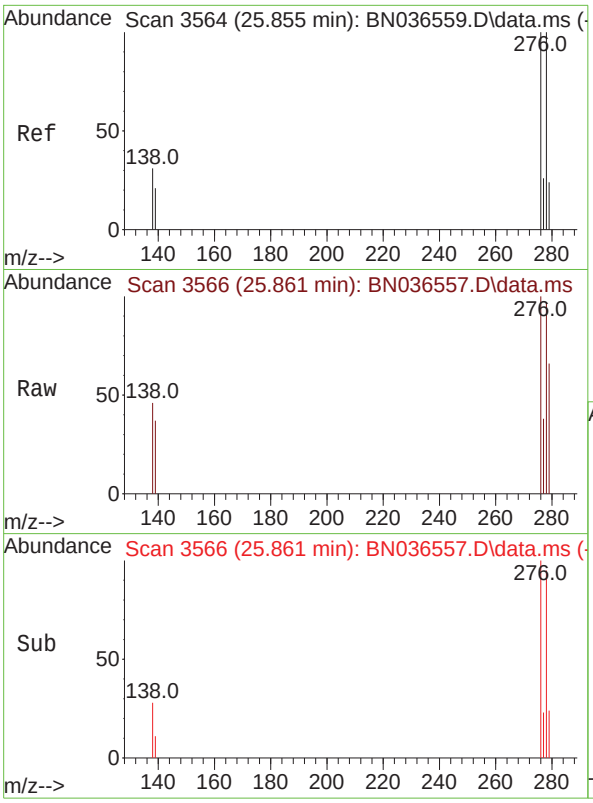




#39
Benzo(a)pyrene
Concen: 0.089 ng
RT: 23.458 min Scan# 2744
Delta R.T. 0.003 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:252 Resp: 1419

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 59.1 | 27.8 | 41.8# |
| 125 | 58.8 | 22.7 | 34.1# |

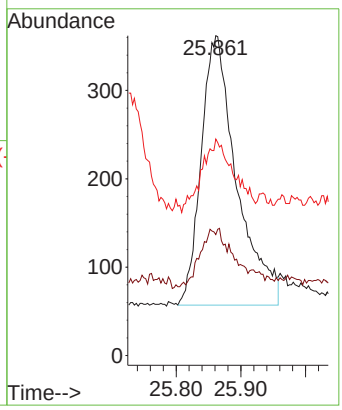





#40
Dibenzo(a,h)anthracene
Concen: 0.079 ng
RT: 25.861 min Scan# 3
Delta R.T. 0.006 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:278 Resp: 116

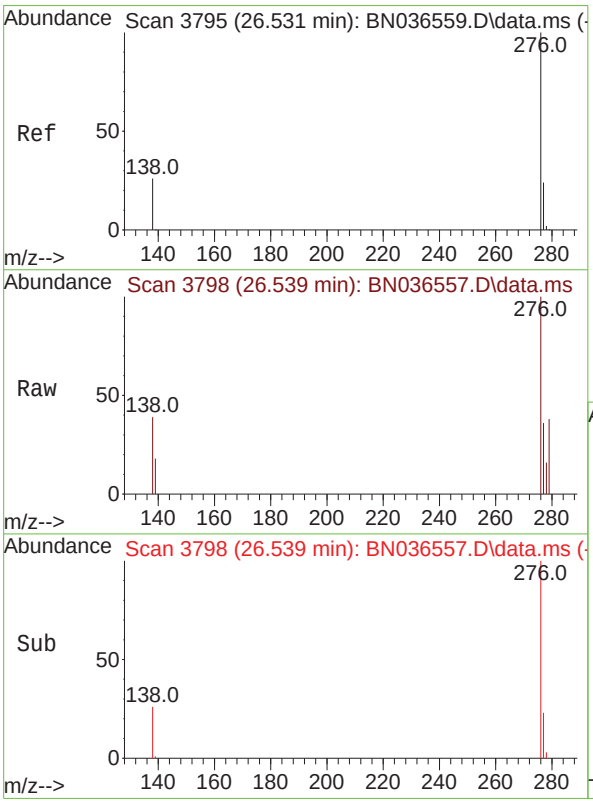
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 37.8 | 20.8 | 31.2# |
| 279 | 67.7 | 28.8 | 43.2# |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.1

**Manual Integrations**
**APPROVED**

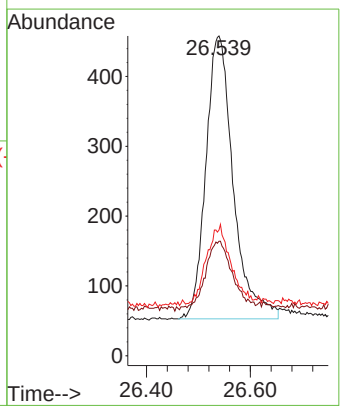
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025




#41
Benzo(g,h,i)perylene
Concen: 0.089 ng
RT: 26.539 min Scan# 3798
Delta R.T. 0.009 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:276 Resp: 1482

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 35.8 | 22.2 | 33.4# |
| 138 | 39.3 | 24.1 | 36.1# |



ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036558.D
Acq On : 10 Mar 2025 12:18
Operator : RC/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.2

**Manual Integrations APPROVED**
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

Quant Time: Mar 10 16:00:58 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:54:23 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.724 | 152 | 2504 | 0.400 | ng | | 0.00 |
| 7) Naphthalene-d8 | 10.509 | 136 | 5844 | 0.400 | ng | | 0.00 |
| 13) Acenaphthene-d10 | 14.366 | 164 | 3516 | 0.400 | ng | | 0.00 |
| 19) Phenanthrene-d10 | 17.111 | 188 | 7506 | 0.400 | ng | | 0.00 |
| 29) Chrysene-d12 | 21.295 | 240 | 4730 | 0.400 | ng | | 0.00 |
| 35) Perylene-d12 | 23.554 | 264 | 4241 | 0.400 | ng | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 4) 2-Fluorophenol | 5.312 | 112 | 1137 | 0.195 | ng | | 0.00 |
| 5) Phenol-d6 | 6.901 | 99 | 1323 | 0.184 | ng | | 0.00 |
| 8) Nitrobenzene-d5 | 8.875 | 82 | 1156 | 0.182 | ng | | 0.00 |
| 11) 2-Methylnaphthalene-d10 | 12.111 | 152 | 1603 | 0.184 | ng | | 0.00 |
| 14) 2,4,6-Tribromophenol | 15.858 | 330 | 282 | 0.177 | ng | | 0.00 |
| 15) 2-Fluorobiphenyl | 12.993 | 172 | 3485 | 0.170 | ng | | 0.00 |
| 27) Fluoranthene-d10 | 19.146 | 212 | 3583 | 0.186 | ng | | 0.00 |
| 31) Terphenyl-d14 | 19.745 | 244 | 2283 | 0.201 | ng | | 0.00 |
| **Target Compounds** | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.247 | 88 | 550m | 0.198 | ng | | |
| 3) n-Nitrosodimethylamine | 3.557 | 42 | 1094 | 0.195 | ng | | 92 |
| 6) bis(2-Chloroethyl)ether | 7.154 | 93 | 1440 | 0.193 | ng | | 99 |
| 9) Naphthalene | 10.562 | 128 | 3286 | 0.191 | ng | | 97 |
| 10) Hexachlorobutadiene | 10.850 | 225 | 828 | 0.205 | ng | # | 97 |
| 12) 2-Methylnaphthalene | 12.187 | 142 | 2034 | 0.186 | ng | | 97 |
| 16) Acenaphthylene | 14.088 | 152 | 3087 | 0.186 | ng | | 100 |
| 17) Acenaphthene | 14.430 | 154 | 2038 | 0.188 | ng | | 99 |
| 18) Fluorene | 15.414 | 166 | 2813 | 0.191 | ng | | 99 |
| 20) 4,6-Dinitro-2-methylph... | 15.510 | 198 | 214 | 0.258 | ng | # | 69 |
| 21) 4-Bromophenyl-phenylether | 16.304 | 248 | 853 | 0.181 | ng | | 93 |
| 22) Hexachlorobenzene | 16.416 | 284 | 1079 | 0.190 | ng | | 99 |
| 23) Atrazine | 16.578 | 200 | 716 | 0.190 | ng | | 97 |
| 24) Pentachlorophenol | 16.776 | 266 | 435 | 0.168 | ng | | 98 |
| 25) Phenanthrene | 17.148 | 178 | 4171 | 0.185 | ng | | 100 |
| 26) Anthracene | 17.248 | 178 | 3645 | 0.179 | ng | | 99 |
| 28) Fluoranthene | 19.174 | 202 | 4666 | 0.184 | ng | | 99 |
| 30) Pyrene | 19.536 | 202 | 4742 | 0.205 | ng | | 100 |
| 32) Benzo(a)anthracene | 21.286 | 228 | 3111 | 0.189 | ng | | 97 |
| 33) Chrysene | 21.331 | 228 | 3568 | 0.199 | ng | | 97 |
| 34) Bis(2-ethylhexyl)phtha... | 21.214 | 149 | 2601 | 0.222 | ng | # | 97 |
| 36) Indeno(1,2,3-cd)pyrene | 25.844 | 276 | 2790 | 0.182 | ng | | 98 |
| 37) Benzo(b)fluoranthene | 22.876 | 252 | 2883 | 0.187 | ng | # | 83 |
| 38) Benzo(k)fluoranthene | 22.917 | 252 | 2962 | 0.183 | ng | # | 86 |
| 39) Benzo(a)pyrene | 23.458 | 252 | 2443 | 0.188 | ng | # | 76 |
| 40) Dibenzo(a,h)anthracene | 25.858 | 278 | 2080 | 0.175 | ng | # | 83 |
| 41) Benzo(g,h,i)perylene | 26.536 | 276 | 2573 | 0.189 | ng | | 95 |

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

ICAL Form

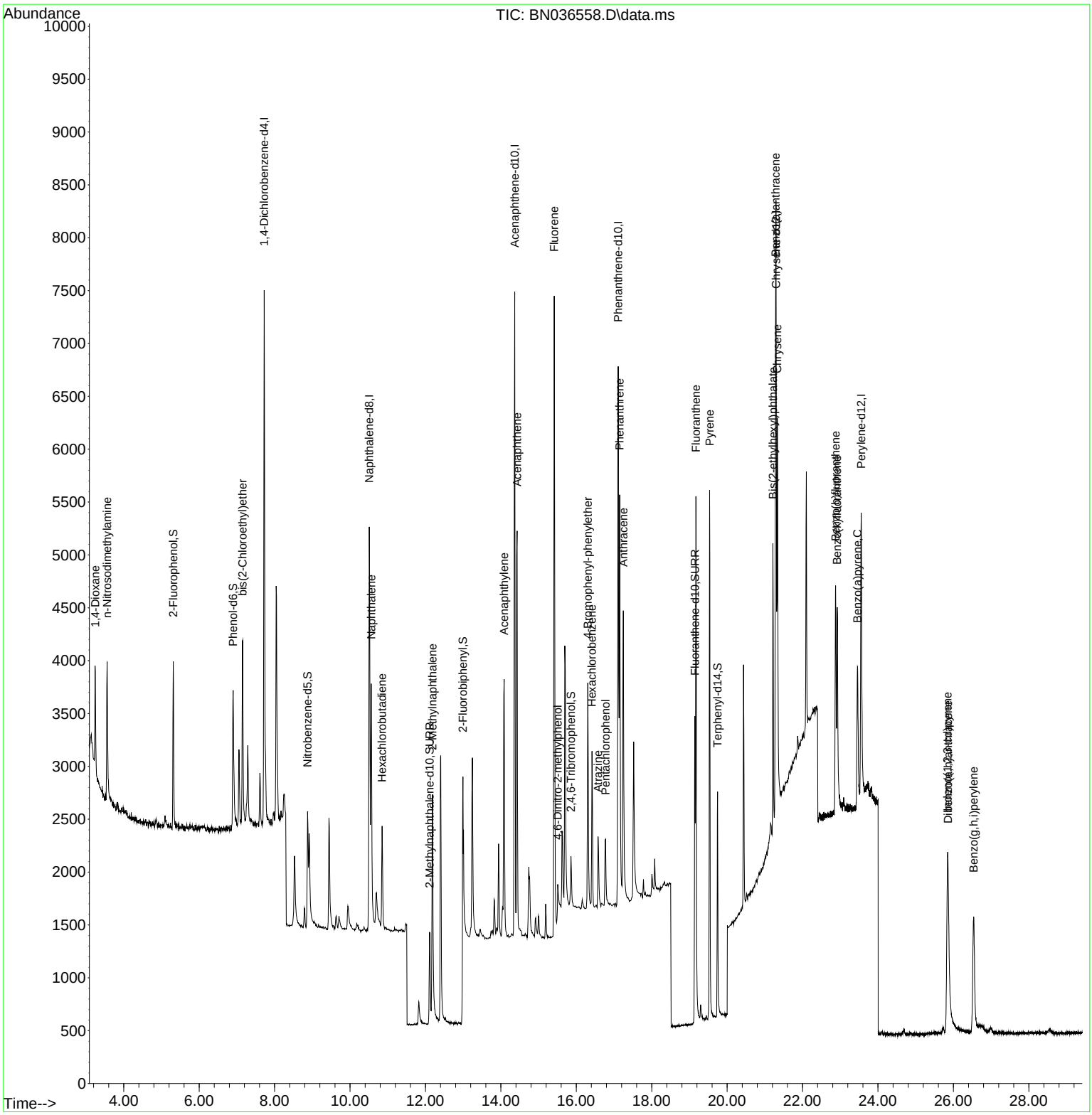
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036558.D
Acq On : 10 Mar 2025 12:18
Operator : RC/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 3 Sample Multiplier: 1

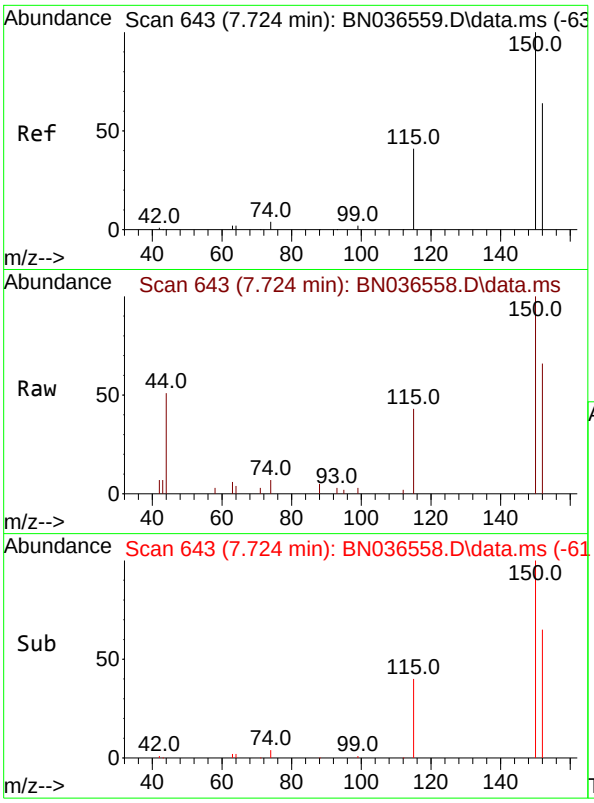
Quant Time: Mar 10 16:00:58 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:54:23 2025
Response via : Initial Calibration

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.2

**Manual Integrations APPROVED**

Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

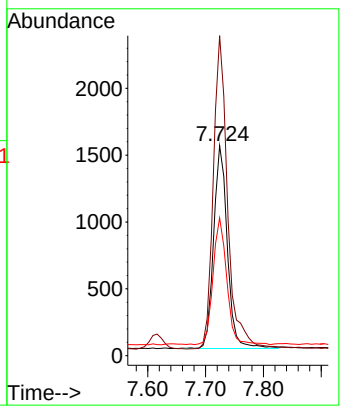





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:152 Resp: 250

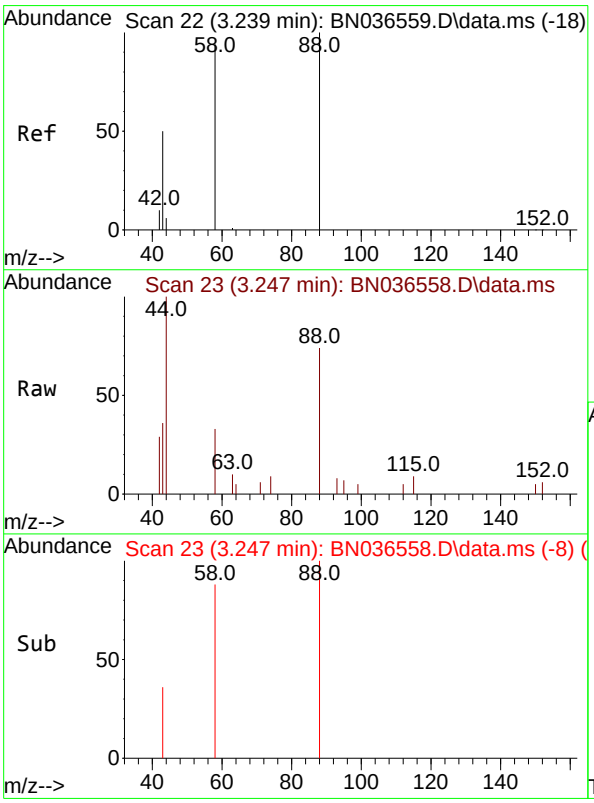
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 152.3 | 123.7 | 185.5 |
| 115 | 65.5 | 54.3 | 81.5 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.2

**Manual Integrations**
**APPROVED**

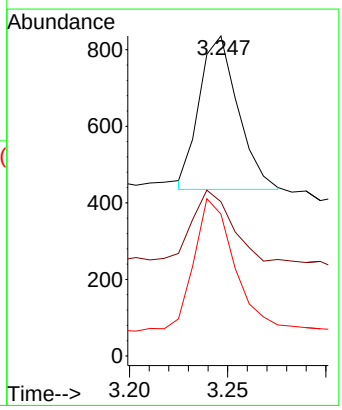
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

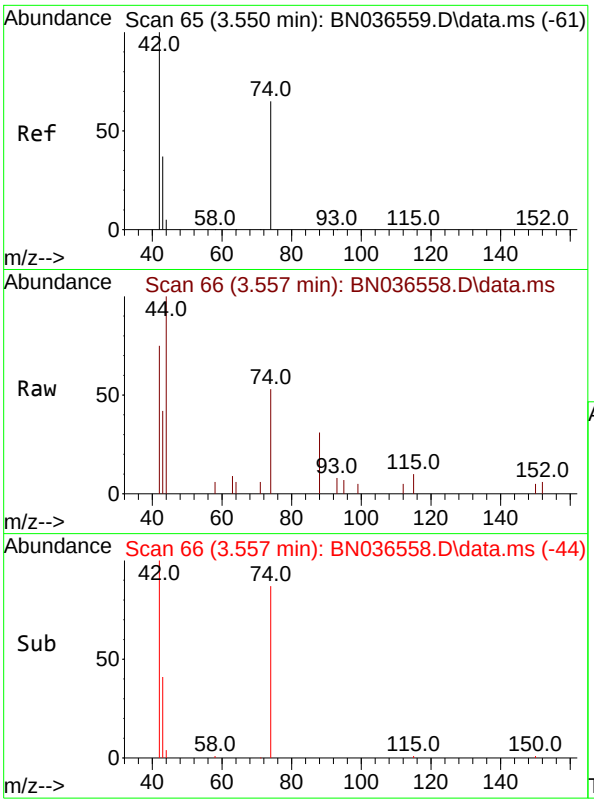



#2
1,4-Dioxane
Concen: 0.198 ng m
RT: 3.247 min Scan# 23
Delta R.T. 0.007 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion: 88 Resp: 550

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 56.5 | 37.8 | 56.8 |
| 58 | 93.8 | 67.4 | 101.2 |

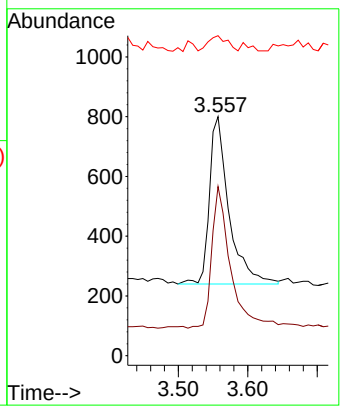





#3
n-Nitrosodimethylamine
Concen: 0.195 ng
RT: 3.557 min Scan# 6
Delta R.T. 0.007 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion: 42 Resp: 109

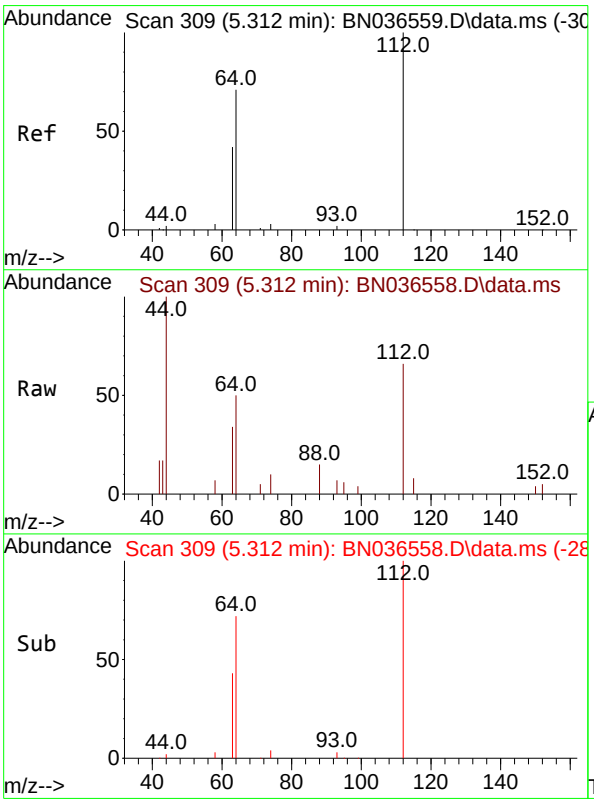
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 83.2 | 60.6 | 90.8 |
| 44 | 8.5 | 6.3 | 9.5 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.2

**Manual Integrations**
**APPROVED**

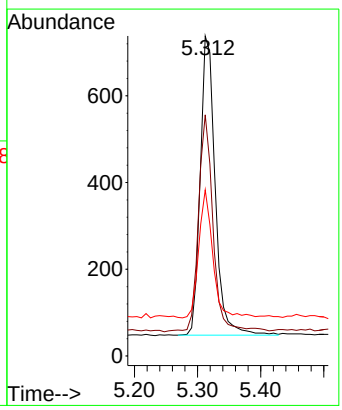
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

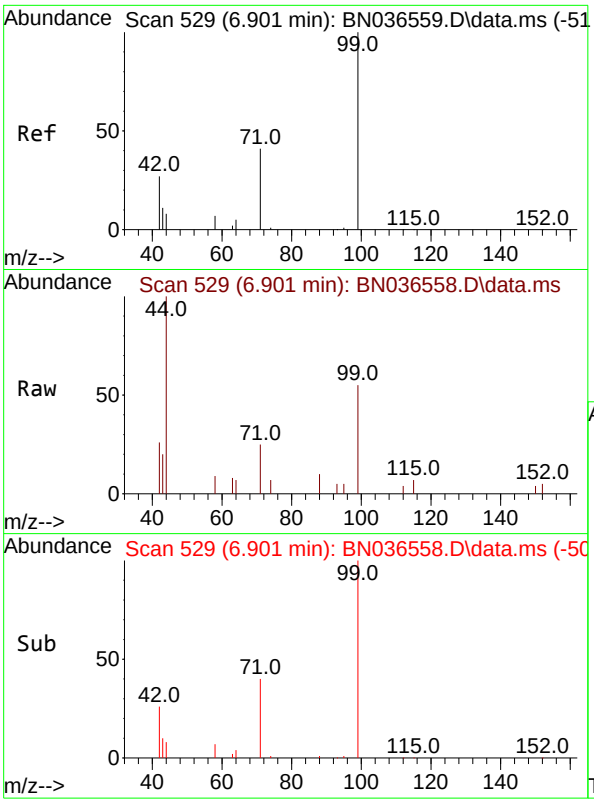



#4
2-Fluorophenol
Concen: 0.195 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:112 Resp: 1137

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 70.6 | 53.1 | 79.7 |
| 63 | 40.3 | 31.8 | 47.8 |

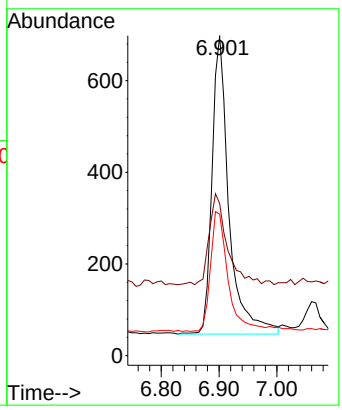





#5
Phenol-d6
Concen: 0.184 ng
RT: 6.901 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion: 99 Resp: 132

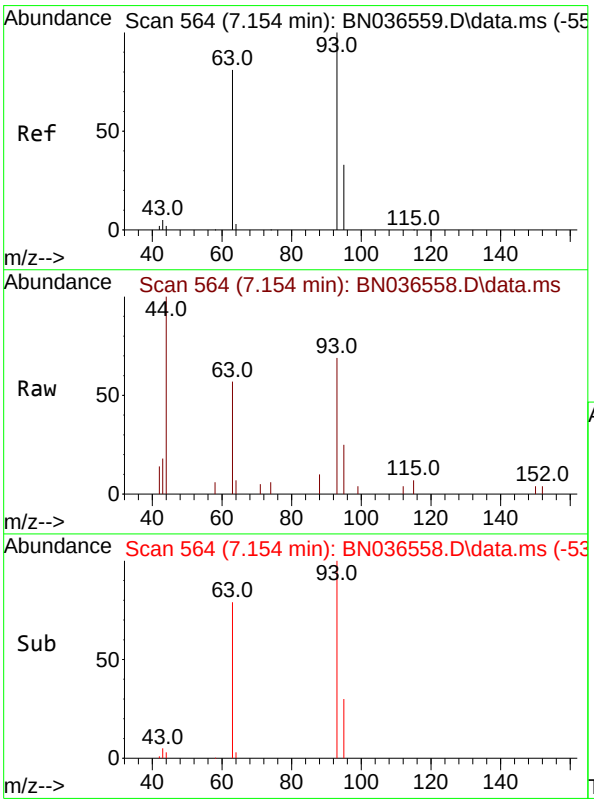
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 32.7 | 26.5 | 39.7 |
| 71 | 41.3 | 34.1 | 51.1 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.2

**Manual Integrations**
**APPROVED**

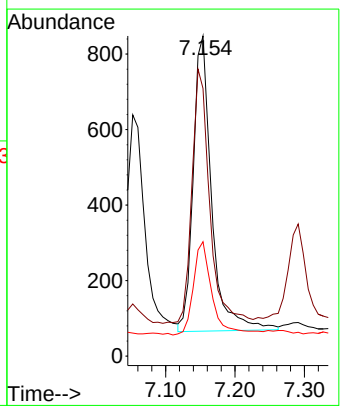
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

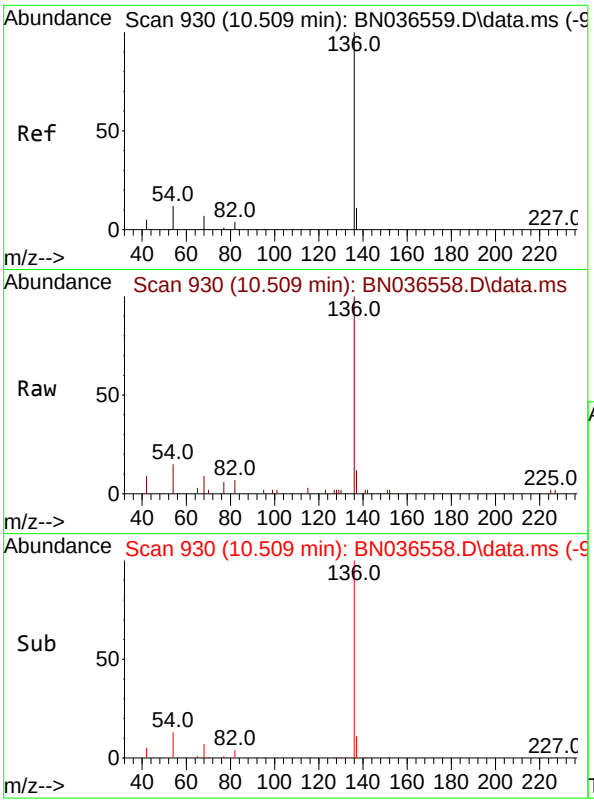



#6
bis(2-Chloroethyl)ether
Concen: 0.193 ng
RT: 7.154 min Scan# 564
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion: 93 Resp: 1440

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 82.9 | 67.7 | 101.5 |
| 95 | 31.9 | 25.6 | 38.4 |

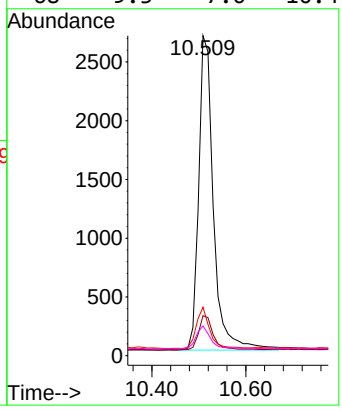





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:136 Resp: 584

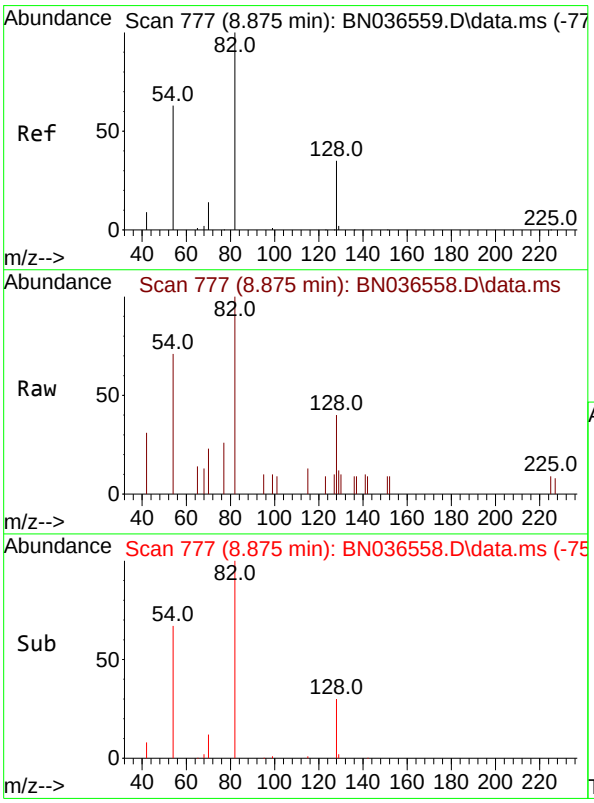
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 12.5 | 10.3 | 15.5 |
| 54 | 15.1 | 11.5 | 17.3 |
| 68 | 9.3 | 7.0 | 10.4 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.2

**Manual Integrations APPROVED**

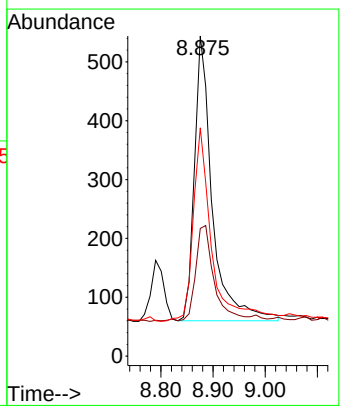
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

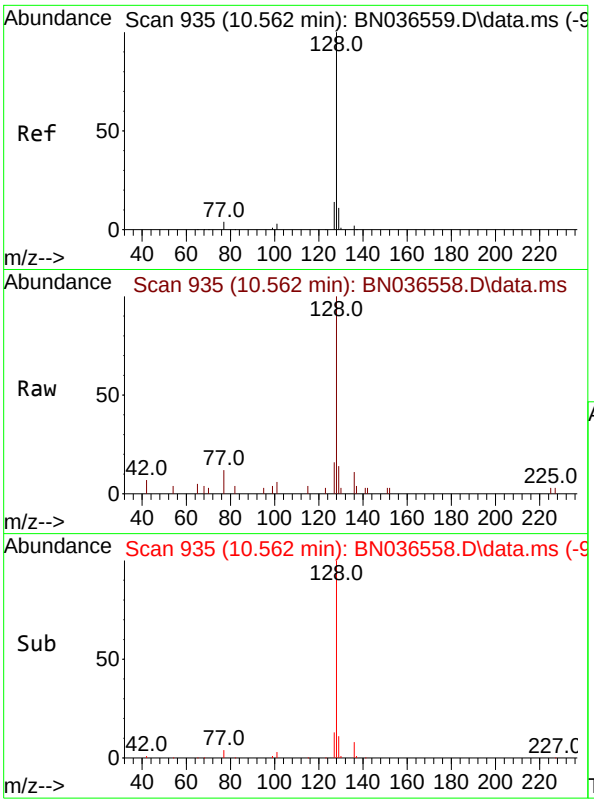



#8
Nitrobenzene-d5
Concen: 0.182 ng
RT: 8.875 min Scan# 777
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion: 82 Resp: 1156

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 39.9 | 30.6 | 45.8 |
| 54 | 71.3 | 52.2 | 78.4 |

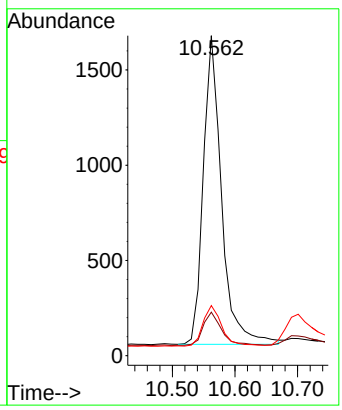





#9
Naphthalene
Concen: 0.191 ng
RT: 10.562 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:128 Resp: 328

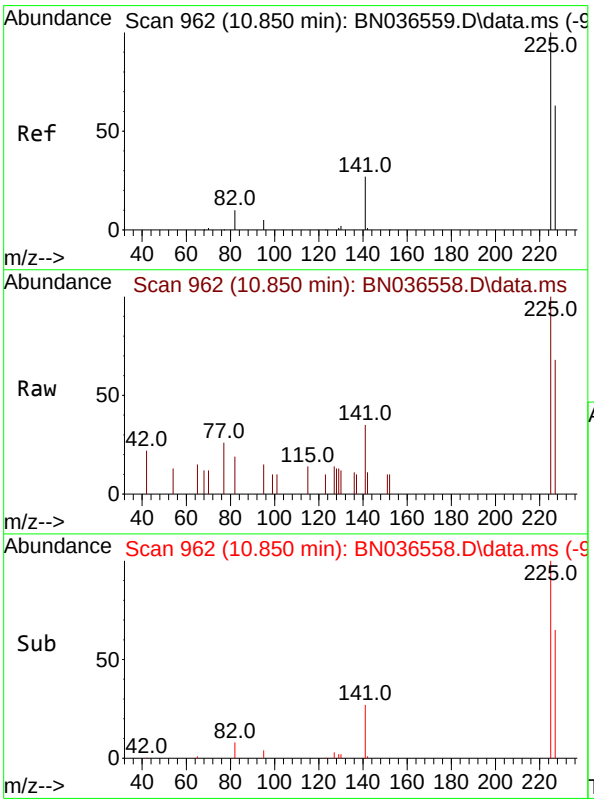
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 13.6 | 9.8 | 14.6 |
| 127 | 15.7 | 11.8 | 17.8 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.2

**Manual Integrations**
**APPROVED**

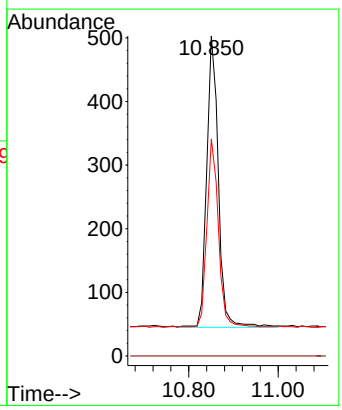
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

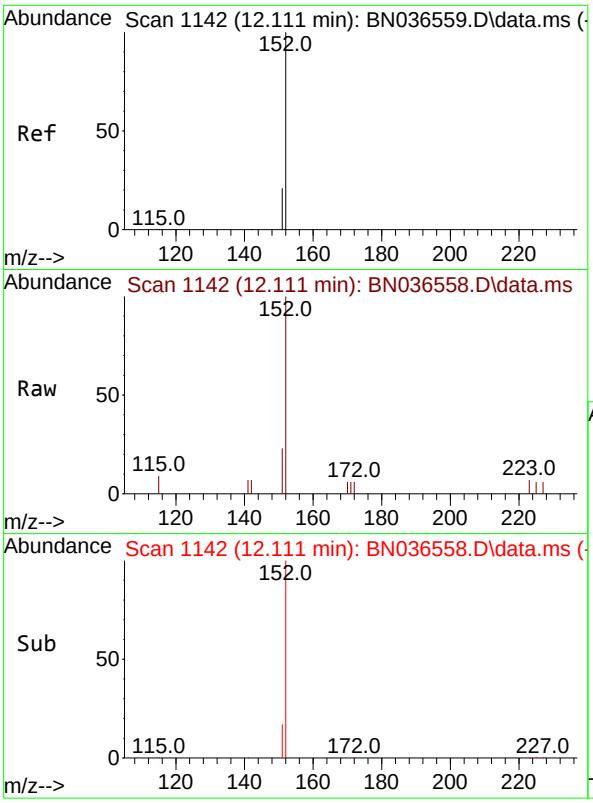



#10
Hexachlorobutadiene
Concen: 0.205 ng
RT: 10.850 min Scan# 962
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:225 Resp: 828

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 0.0 | 0.0 | 0.0 |
| 227 | 62.6 | 51.8 | 77.8 |

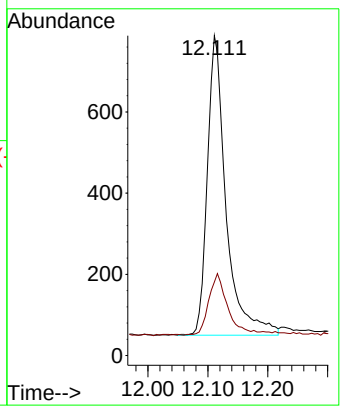





#11
2-Methylnaphthalene-d10
Concen: 0.184 ng
RT: 12.111 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:152 Resp: 160

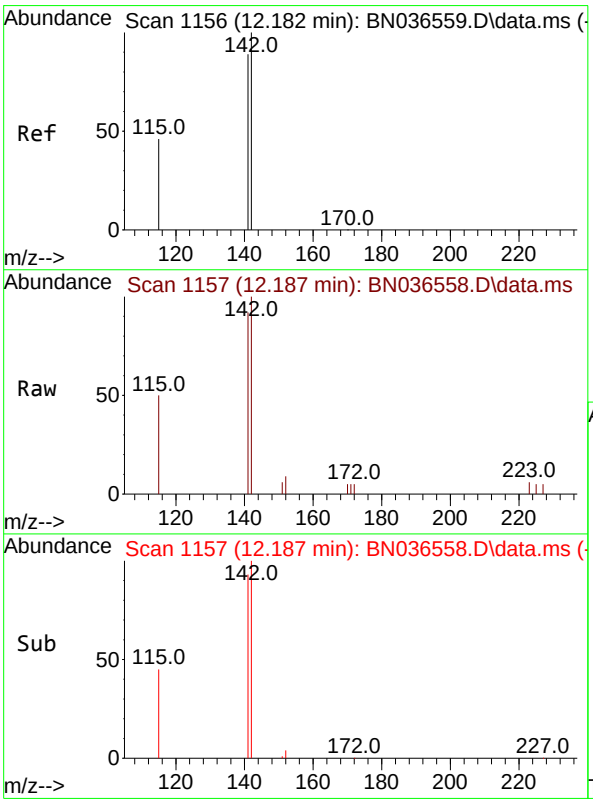
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 21.0 | 17.0 | 25.6 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.2

**Manual Integrations**
**APPROVED**

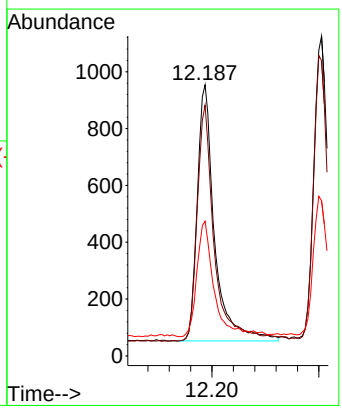
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

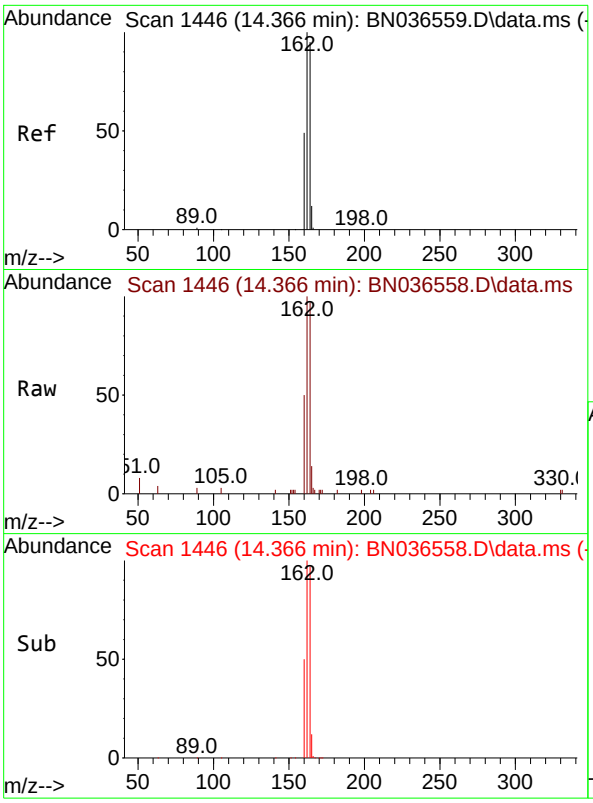



#12
2-Methylnaphthalene
Concen: 0.186 ng
RT: 12.187 min Scan# 1157
Delta R.T. 0.005 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:142 Resp: 2034

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 92.5 | 71.7 | 107.5 |
| 115 | 49.7 | 38.3 | 57.5 |

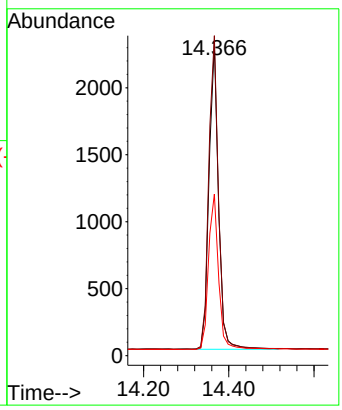





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:164 Resp: 351

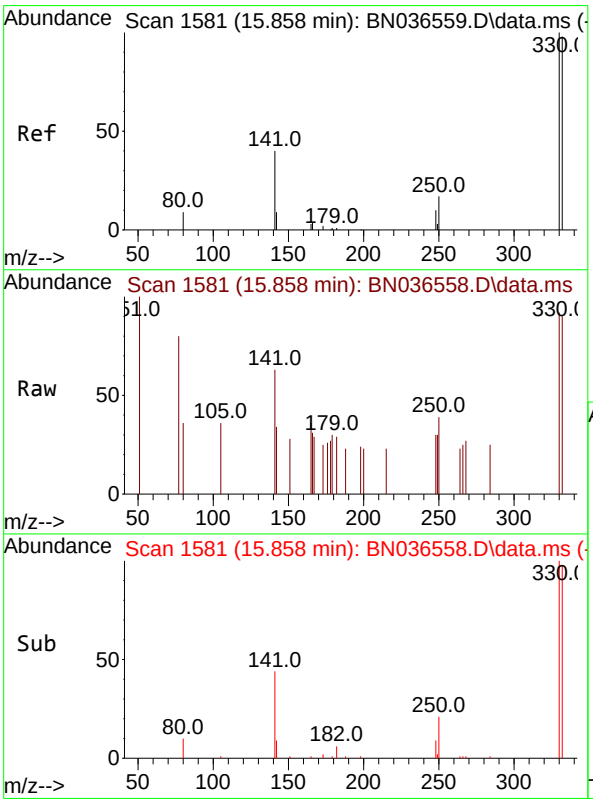
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 102.6 | 84.2 | 126.2 |
| 160 | 51.8 | 42.2 | 63.2 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.2

**Manual Integrations APPROVED**

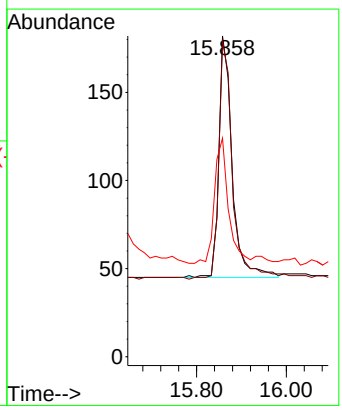
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

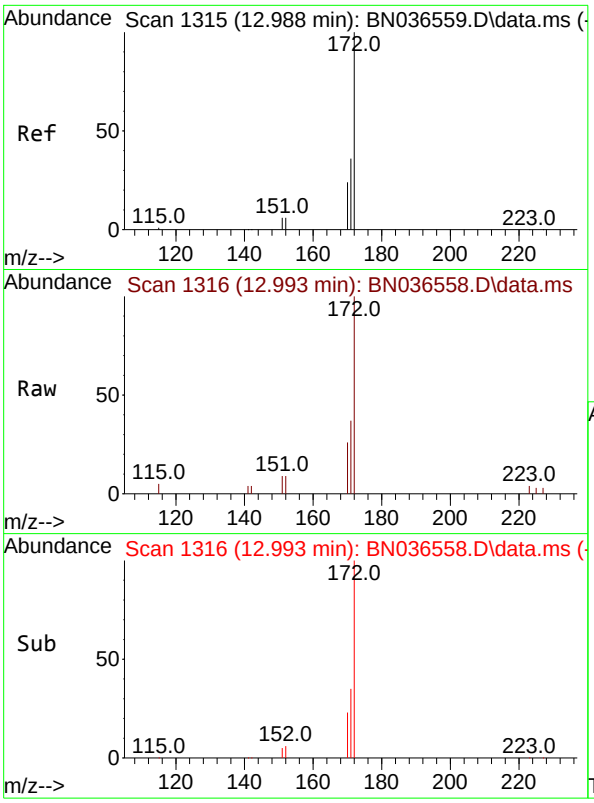



#14
2,4,6-Tribromophenol
Concen: 0.177 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:330 Resp: 282

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 103.5 | 75.2 | 112.8 |
| 141 | 53.9 | 43.4 | 65.2 |

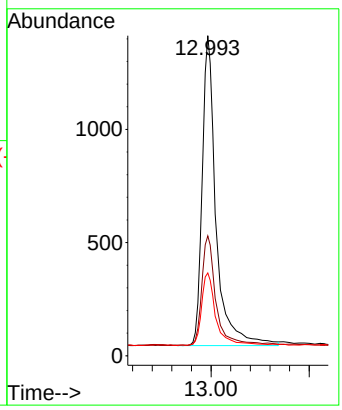





#15
2-Fluorobiphenyl
Concen: 0.170 ng
RT: 12.993 min Scan# 1
Delta R.T. 0.005 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:172 Resp: 348

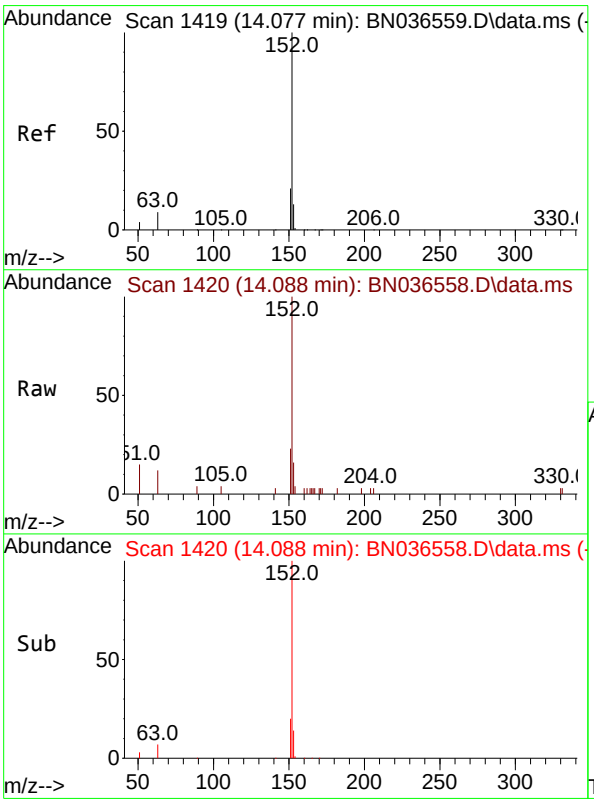
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 37.5 | 29.5 | 44.3 |
| 170 | 25.9 | 20.2 | 30.4 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.2

**Manual Integrations APPROVED**

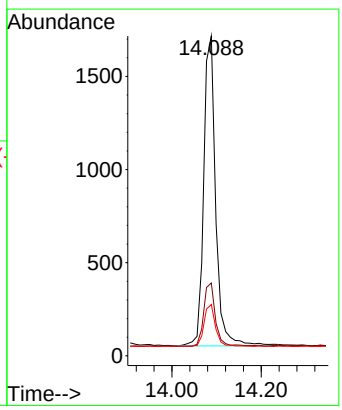
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

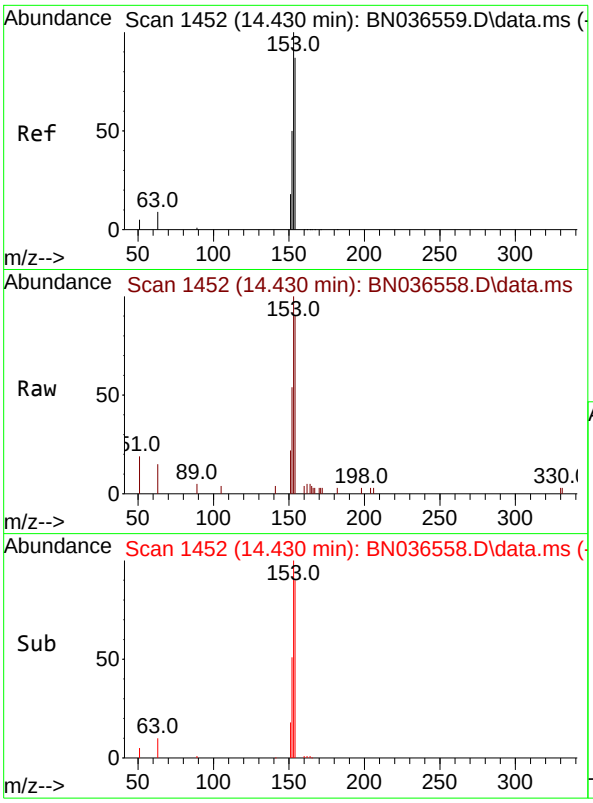



#16
Acenaphthylene
Concen: 0.186 ng
RT: 14.088 min Scan# 1420
Delta R.T. 0.011 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:152 Resp: 3087

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.4 | 16.2 | 24.4 |
| 153 | 13.0 | 10.6 | 15.8 |

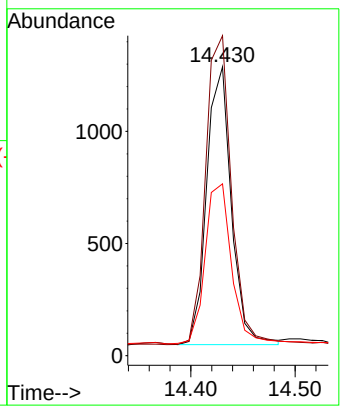





#17
Acenaphthene
Concen: 0.188 ng
RT: 14.430 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:154 Resp: 203

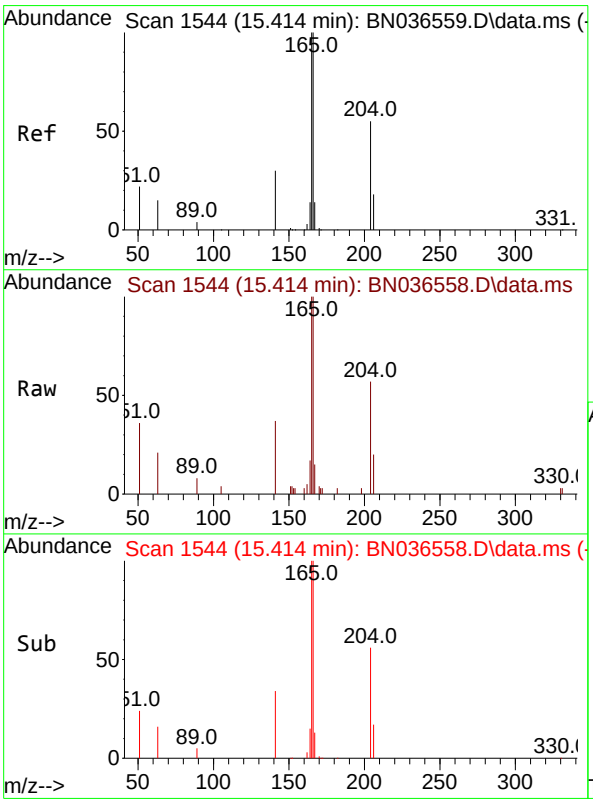
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 117.8 | 94.1 | 141.1 |
| 152 | 63.1 | 49.8 | 74.6 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.2

**Manual Integrations**
**APPROVED**

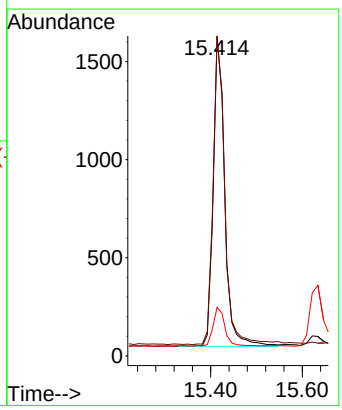
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

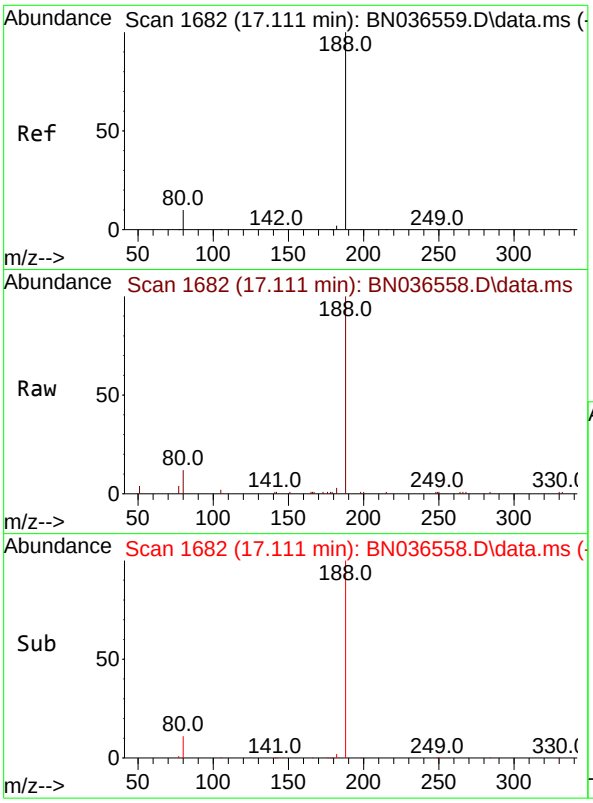



#18
Fluorene
Concen: 0.191 ng
RT: 15.414 min Scan# 1544
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:166 Resp: 2813

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 101.1 | 79.8 | 119.8 |
| 167 | 12.6 | 10.6 | 15.8 |

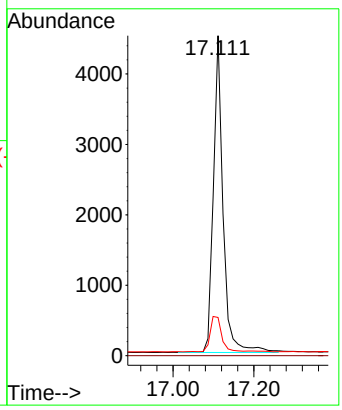





#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.111 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:188 Resp: 750

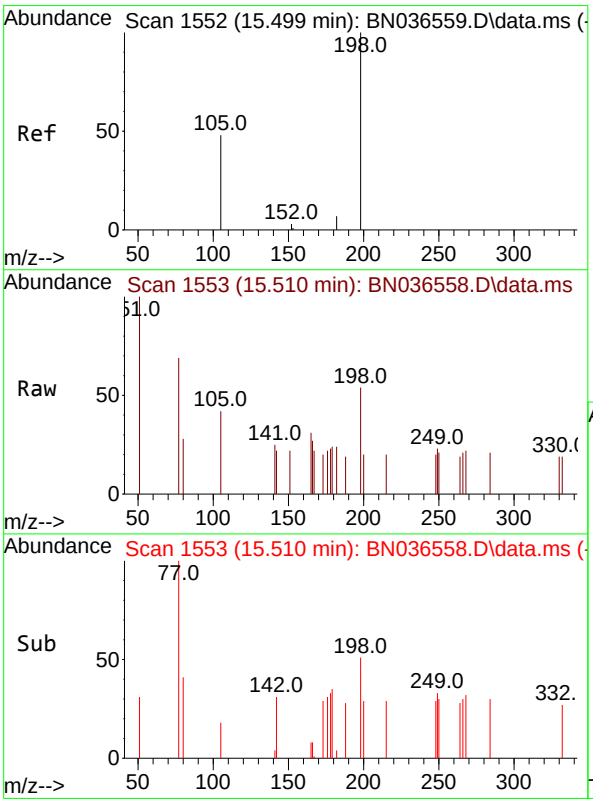
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 11.9 | 8.8 | 13.2 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.2

**Manual Integrations APPROVED**

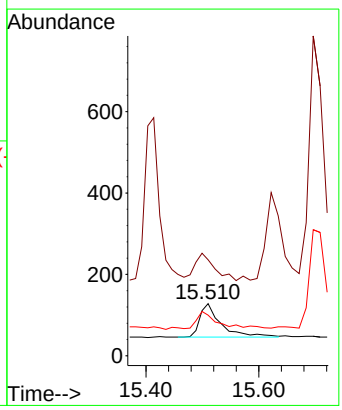
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

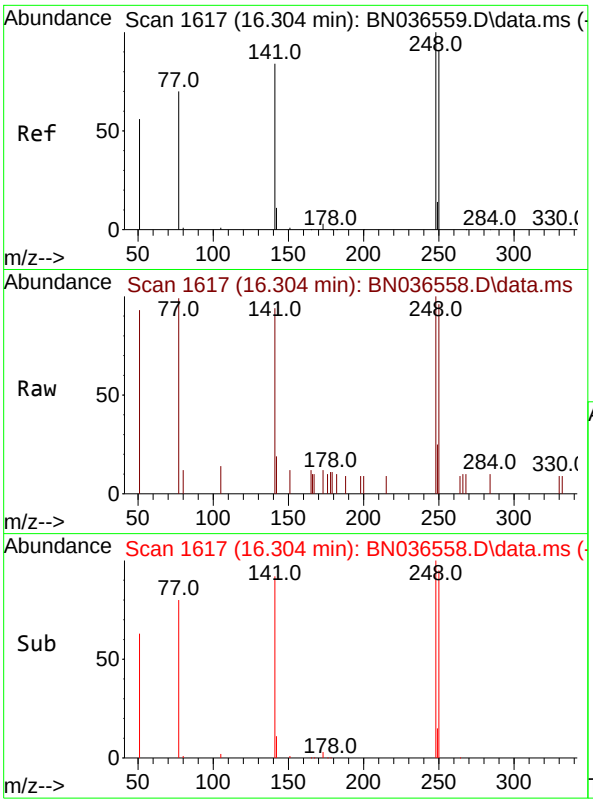



#20
4,6-Dinitro-2-methylphenol
Concen: 0.258 ng
RT: 15.510 min Scan# 1553
Delta R.T. 0.011 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:198 Resp: 214

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 198 | 100 | | |
| 51 | 184.4 | 107.9 | 161.9# |
| 105 | 78.1 | 56.2 | 84.2 |






#21
4-Bromophenyl-phenylether
Concen: 0.181 ng
RT: 16.304 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

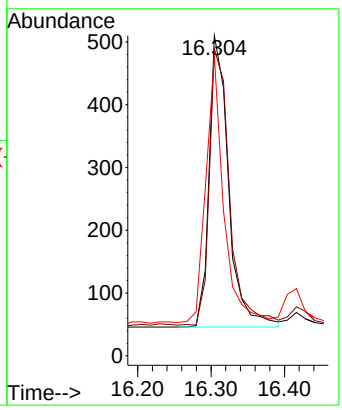
Tgt Ion:248 Resp: 85

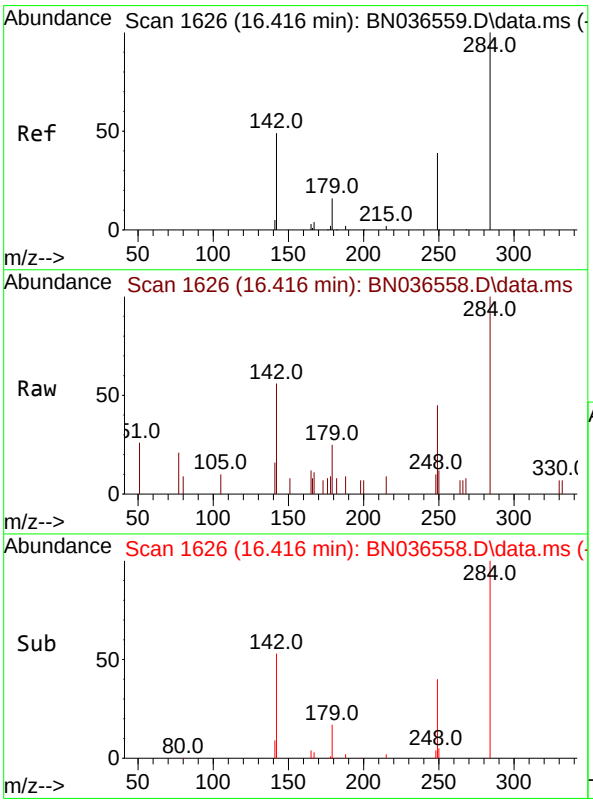
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 95.9 | 73.0 | 109.6 |
| 141 | 93.7 | 68.6 | 103.0 |

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.2

**Manual Integrations**
**APPROVED**

Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

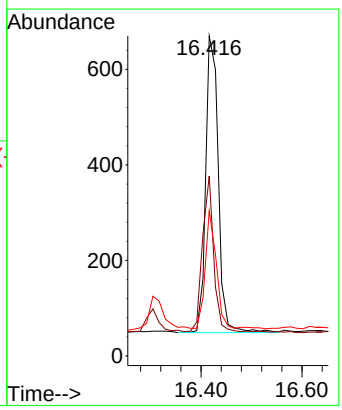


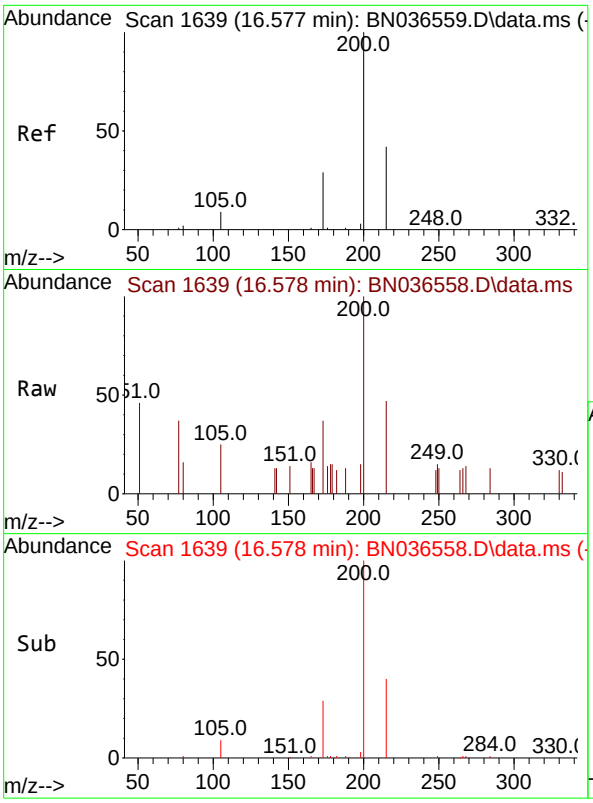




#22
Hexachlorobenzene
Concen: 0.190 ng
RT: 16.416 min Scan# 1626
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:284 Resp: 1079

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 47.0 | 37.0 | 55.4 |
| 249 | 34.8 | 28.1 | 42.1 |

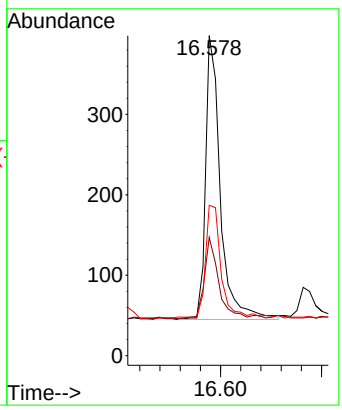





#23
Atrazine
Concen: 0.190 ng
RT: 16.578 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:200 Resp: 71(

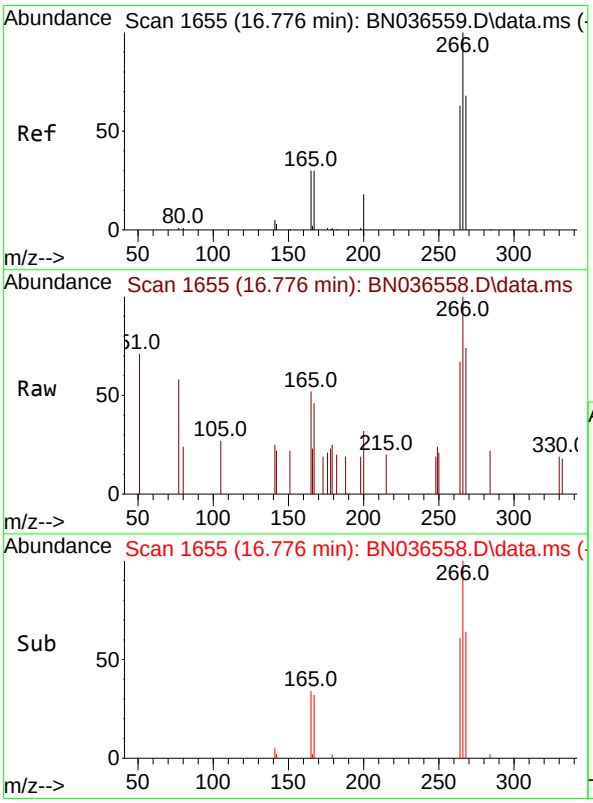
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 173 | 36.9 | 27.3 | 40.9 |
| 215 | 47.0 | 36.8 | 55.2 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.2

**Manual Integrations**
**APPROVED**

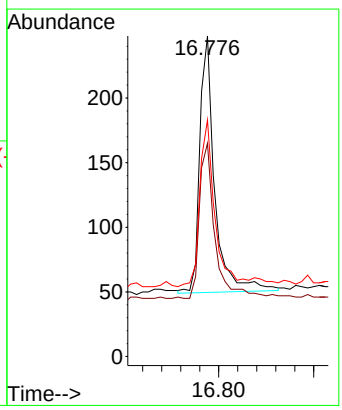
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

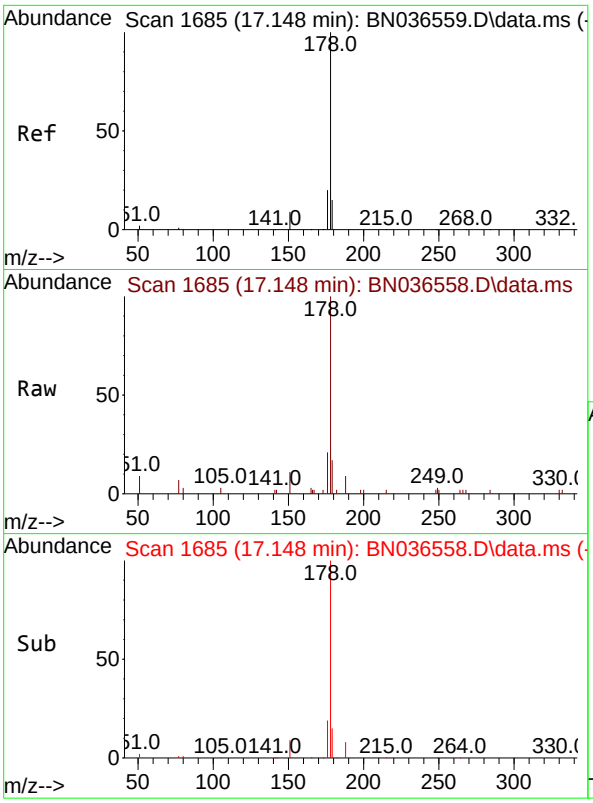



#24
Pentachlorophenol
Concen: 0.168 ng
RT: 16.776 min Scan# 1655
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:266 Resp: 435

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 264 | 63.4 | 49.6 | 74.4 |
| 268 | 65.7 | 50.9 | 76.3 |

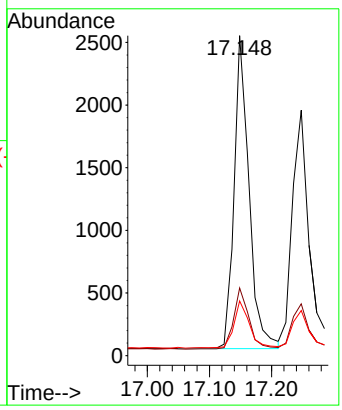





#25
Phenanthrene
Concen: 0.185 ng
RT: 17.148 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:178 Resp: 417

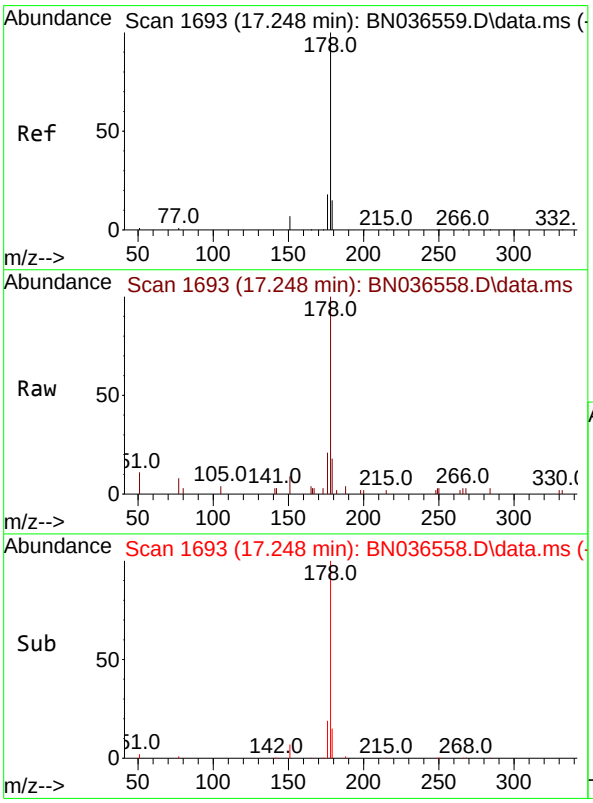
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 20.0 | 15.9 | 23.9 |
| 179 | 15.5 | 12.2 | 18.4 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.2

**Manual Integrations APPROVED**

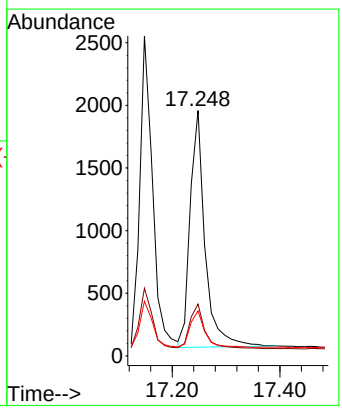
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

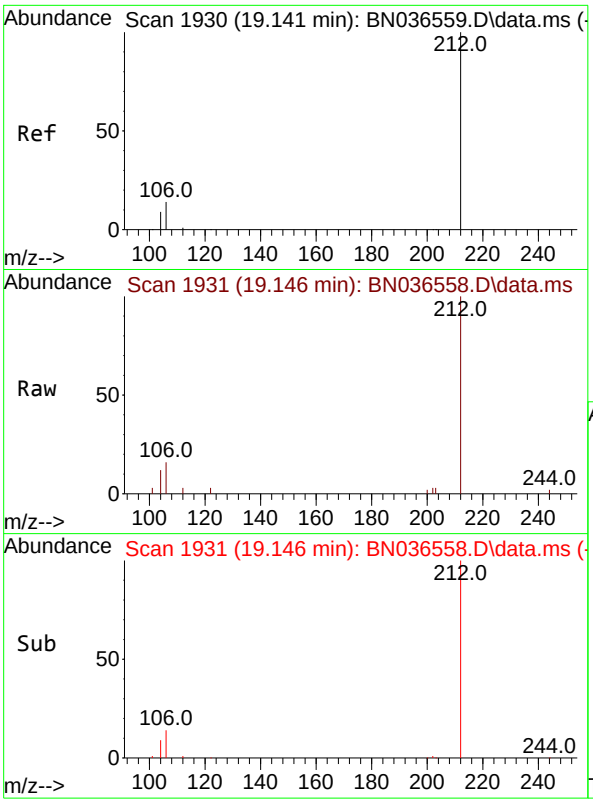



#26
Anthracene
Concen: 0.179 ng
RT: 17.248 min Scan# 1693
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:178 Resp: 3645

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.1 | 15.4 | 23.2 |
| 179 | 15.1 | 12.6 | 18.8 |






#27
Fluoranthene-d10
Concen: 0.186 ng
RT: 19.146 min Scan# 1
Delta R.T. 0.005 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

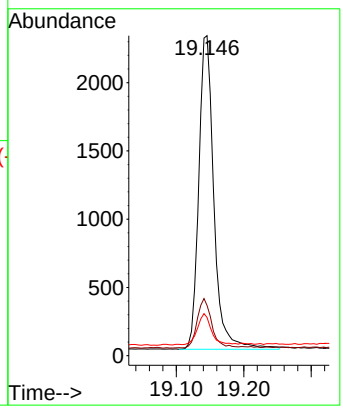
Tgt Ion:212 Resp: 358

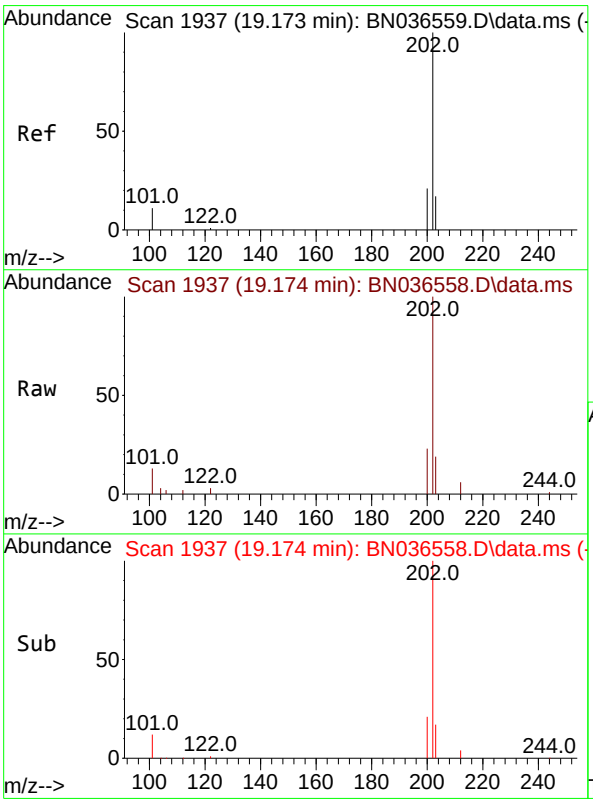
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 15.0 | 11.8 | 17.6 |
| 104 | 9.3 | 7.3 | 10.9 |

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.2

**Manual Integrations APPROVED**

Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

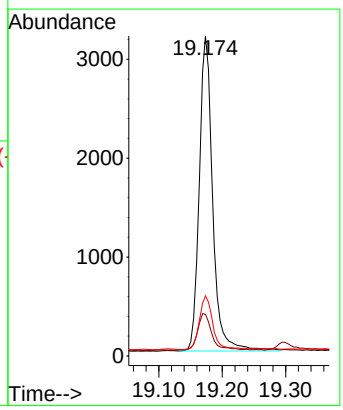


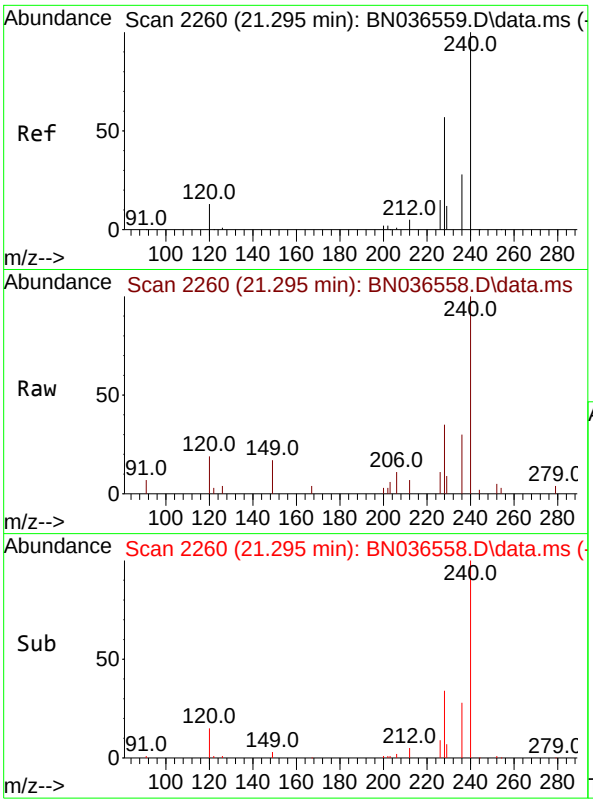




#28
Fluoranthene
Concen: 0.184 ng
RT: 19.174 min Scan# 1937
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:202 Resp: 4666

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 12.1 | 9.4 | 14.0 |
| 203 | 17.1 | 13.5 | 20.3 |






#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

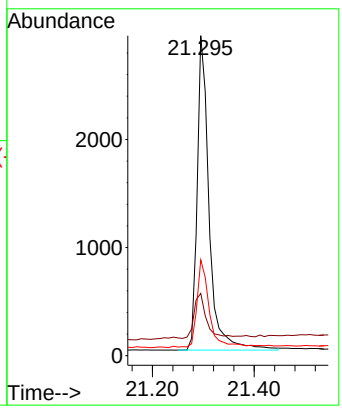
**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.2

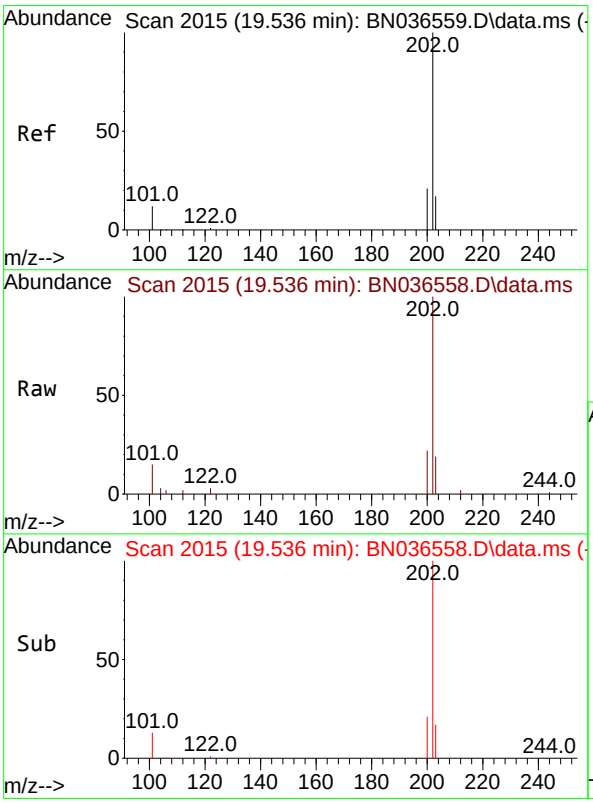
Tgt Ion:240 Resp: 473

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 19.5 | 14.6 | 22.0 |
| 236 | 29.9 | 24.1 | 36.1 |

**Manual Integrations**
**APPROVED**

Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

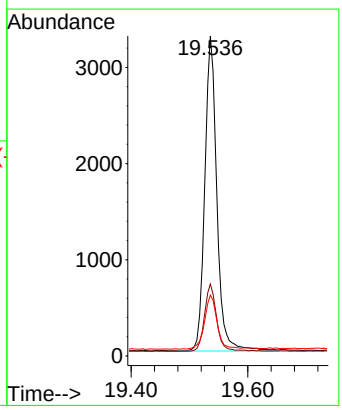


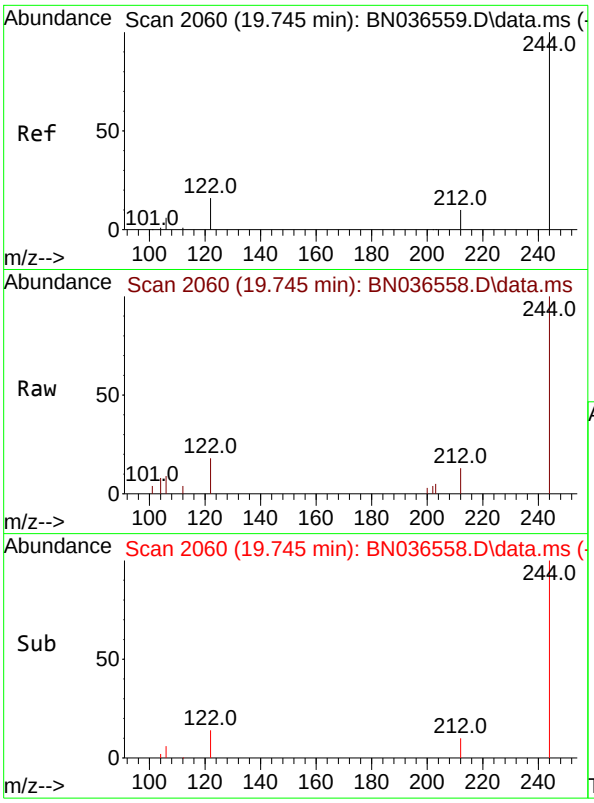




#30
Pyrene
Concen: 0.205 ng
RT: 19.536 min Scan# 2015
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:202 Resp: 4742

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.1 | 17.1 | 25.7 |
| 203 | 17.7 | 14.1 | 21.1 |

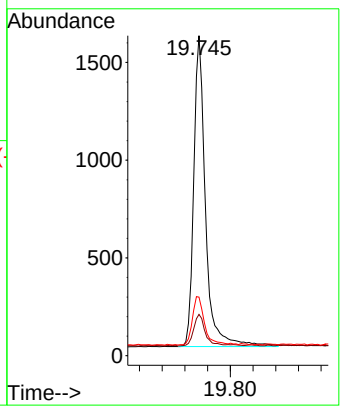





#31
Terphenyl-d14
Concen: 0.201 ng
RT: 19.745 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:244 Resp: 228

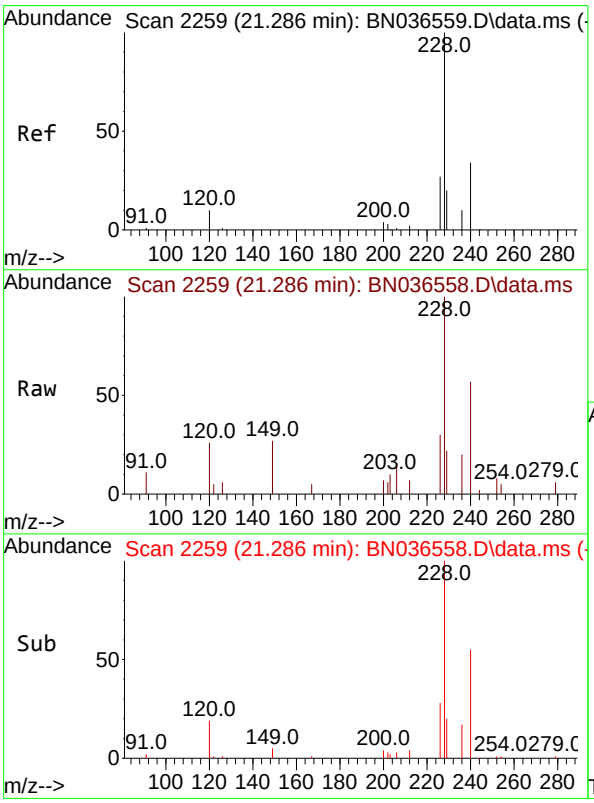
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 12.9 | 9.6 | 14.4 |
| 122 | 18.3 | 13.9 | 20.9 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.2

**Manual Integrations APPROVED**

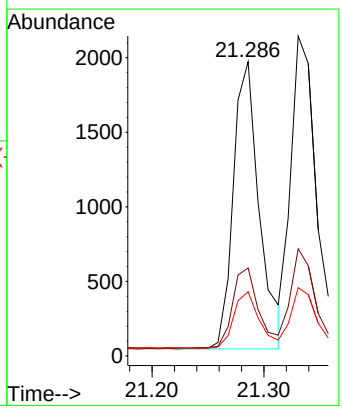
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

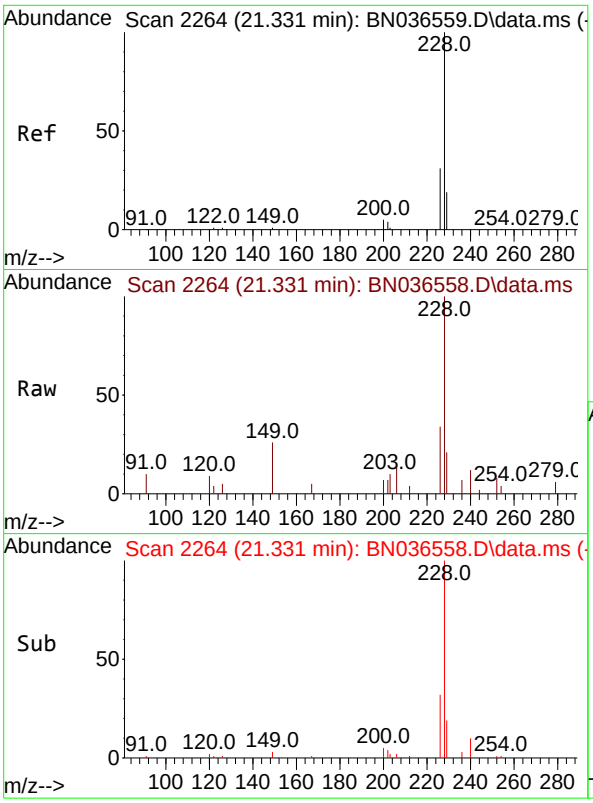



#32
Benzo(a)anthracene
Concen: 0.189 ng
RT: 21.286 min Scan# 2259
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:228 Resp: 3111

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 29.9 | 22.5 | 33.7 |
| 229 | 21.9 | 16.6 | 25.0 |

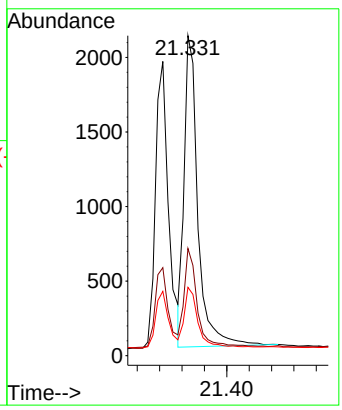





#33
Chrysene
Concen: 0.199 ng
RT: 21.331 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:228 Resp: 356

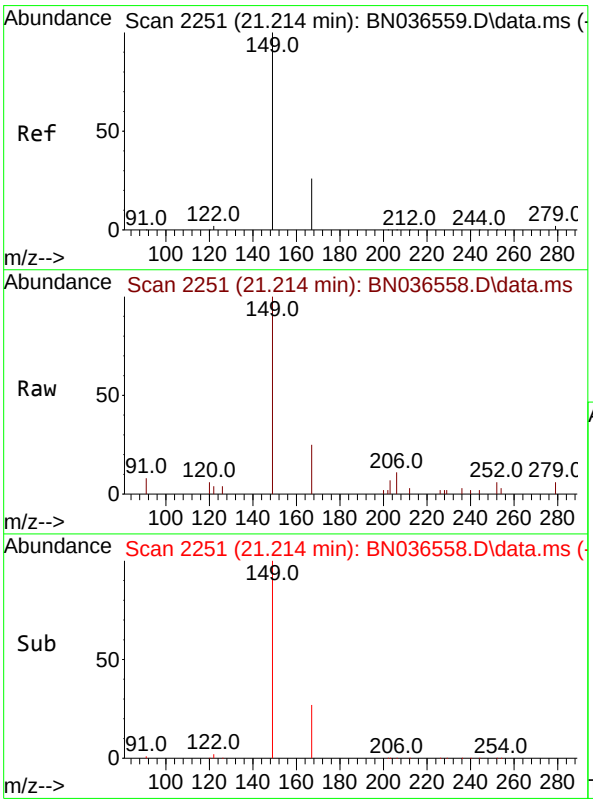
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 33.5 | 25.3 | 37.9 |
| 229 | 21.4 | 15.8 | 23.8 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.2

**Manual Integrations APPROVED**

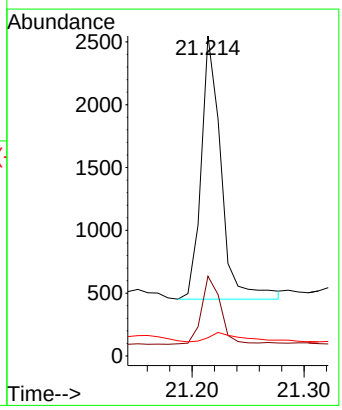
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

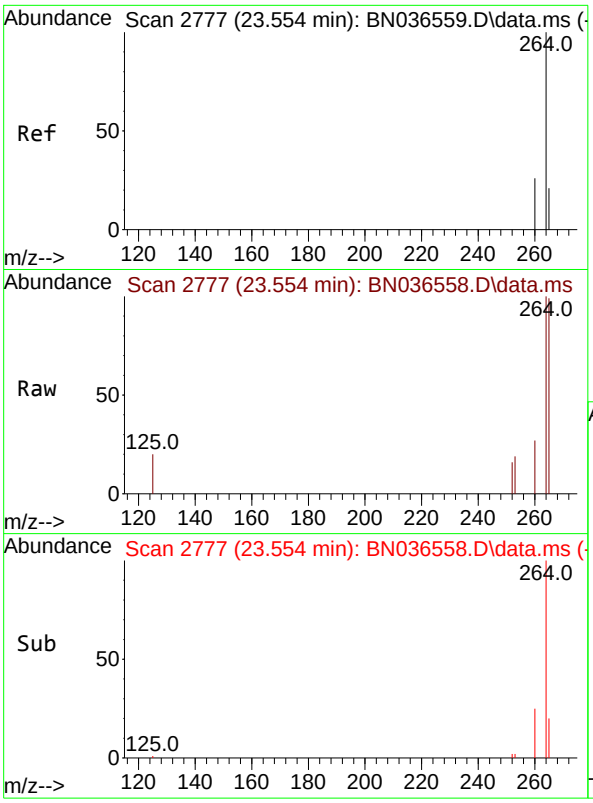



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.222 ng
RT: 21.214 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:149 Resp: 2601

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 24.7 | 20.7 | 31.1 |
| 279 | 5.7 | 3.6 | 5.4# |

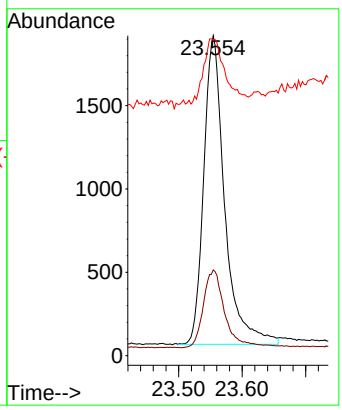





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.554 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:264 Resp: 424

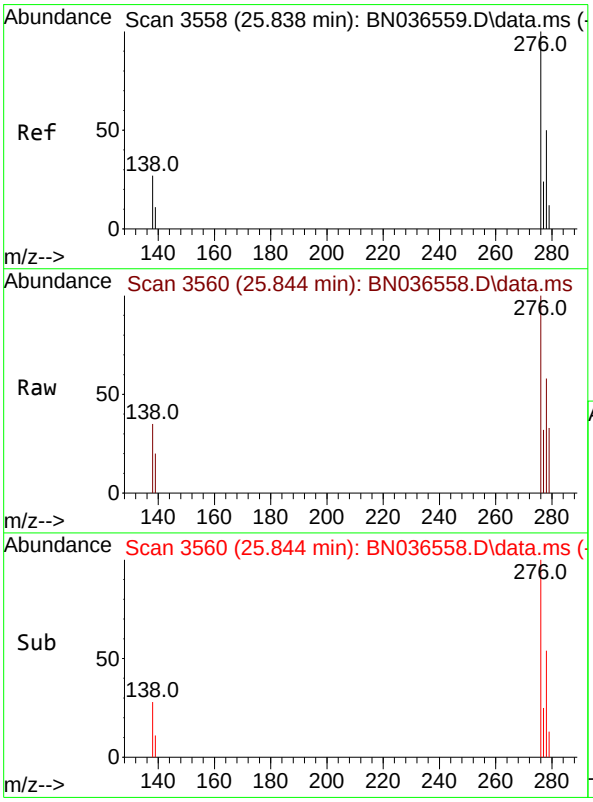
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 26.8 | 22.6 | 33.8 |
| 265 | 98.5 | 88.1 | 132.1 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.2

**Manual Integrations**
**APPROVED**

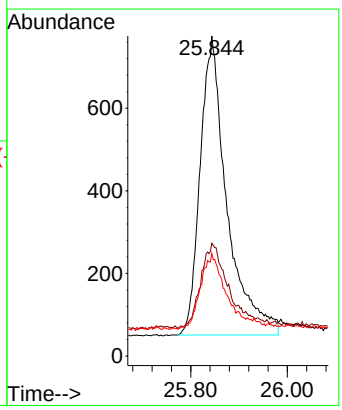
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

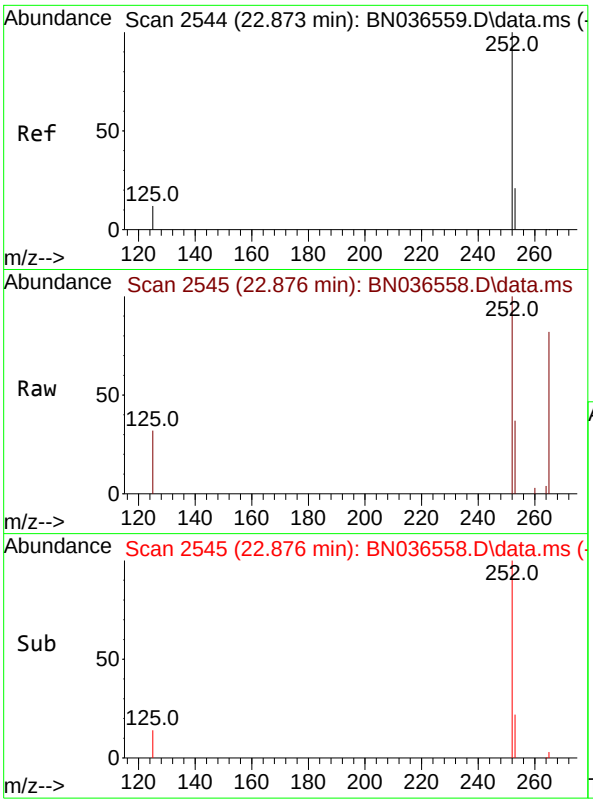



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.182 ng
RT: 25.844 min Scan# 3560
Delta R.T. 0.006 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:276 Resp: 2790

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 29.1 | 23.4 | 35.2 |
| 277 | 23.4 | 20.0 | 30.0 |






#37
Benzo(b)fluoranthene
Concen: 0.187 ng
RT: 22.876 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

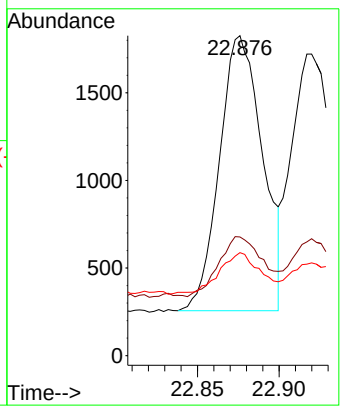
Tgt Ion:252 Resp: 288

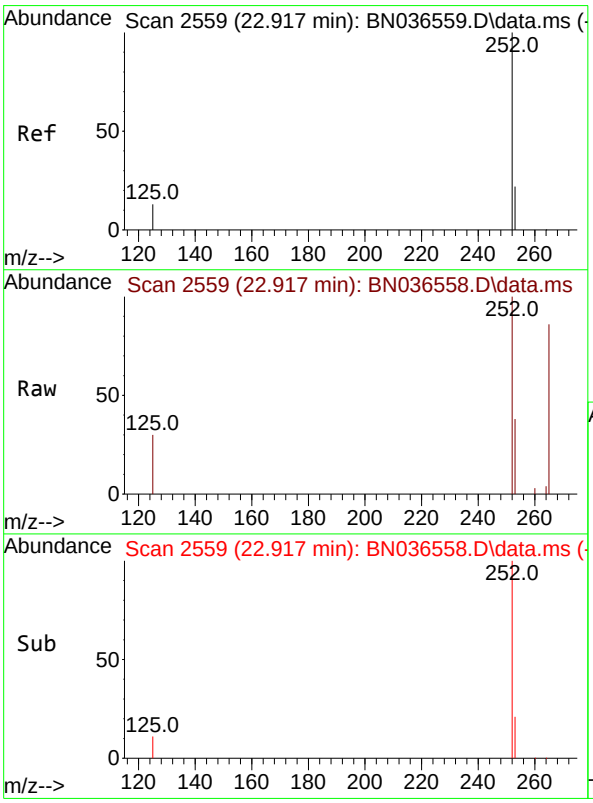
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 37.1 | 23.9 | 35.9# |
| 125 | 32.2 | 17.4 | 26.2# |

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.2

**Manual Integrations**
**APPROVED**

Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

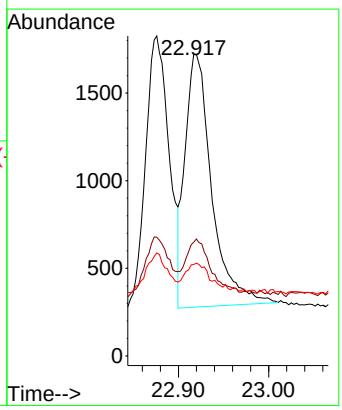


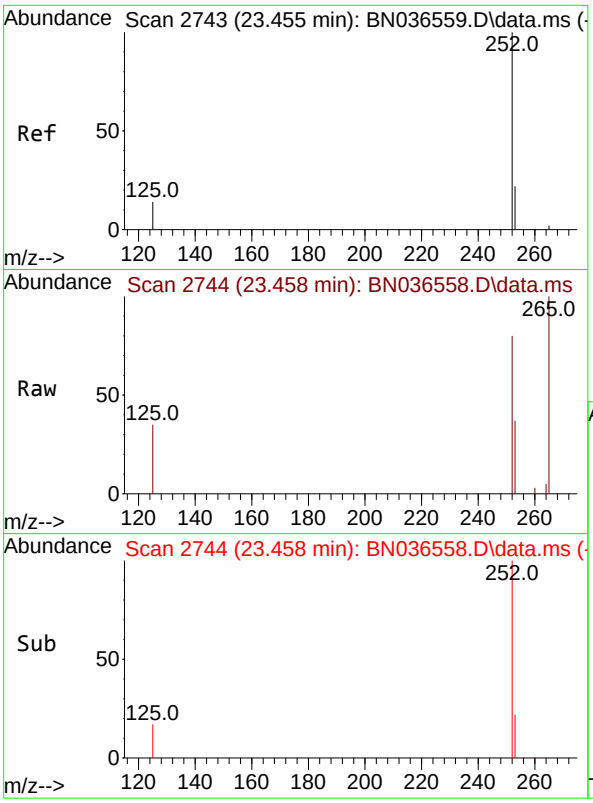




#38
Benzo(k)fluoranthene
Concen: 0.183 ng
RT: 22.917 min Scan# 2559
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:252 Resp: 2962

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 37.7 | 24.6 | 36.8# |
| 125 | 30.3 | 17.8 | 26.8# |

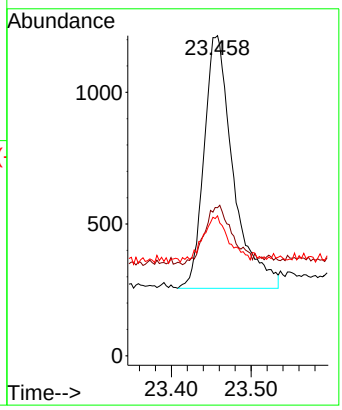





#39
Benzo(a)pyrene
Concen: 0.188 ng
RT: 23.458 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:252 Resp: 244

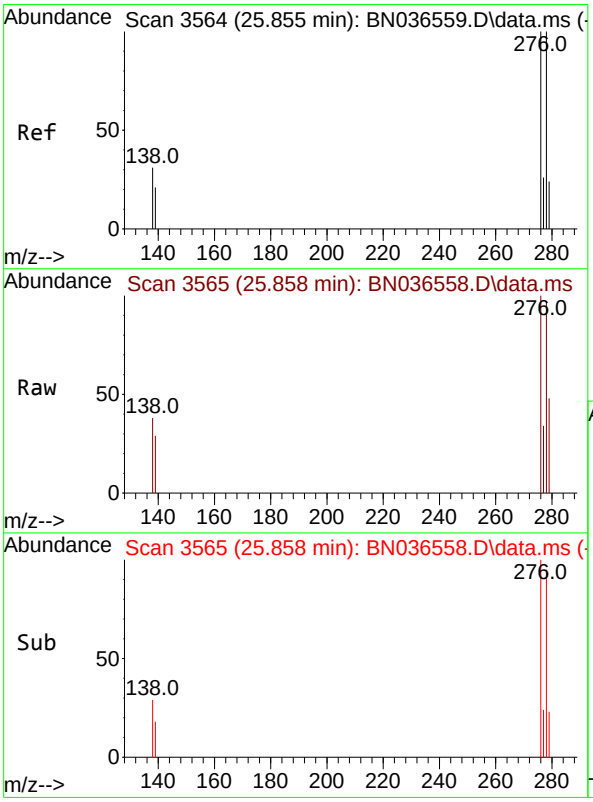
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 46.3 | 27.8 | 41.8# |
| 125 | 43.7 | 22.7 | 34.1# |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.2

**Manual Integrations**
**APPROVED**

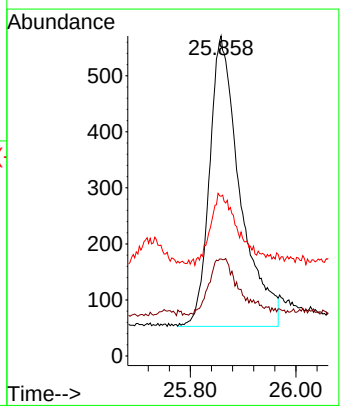
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

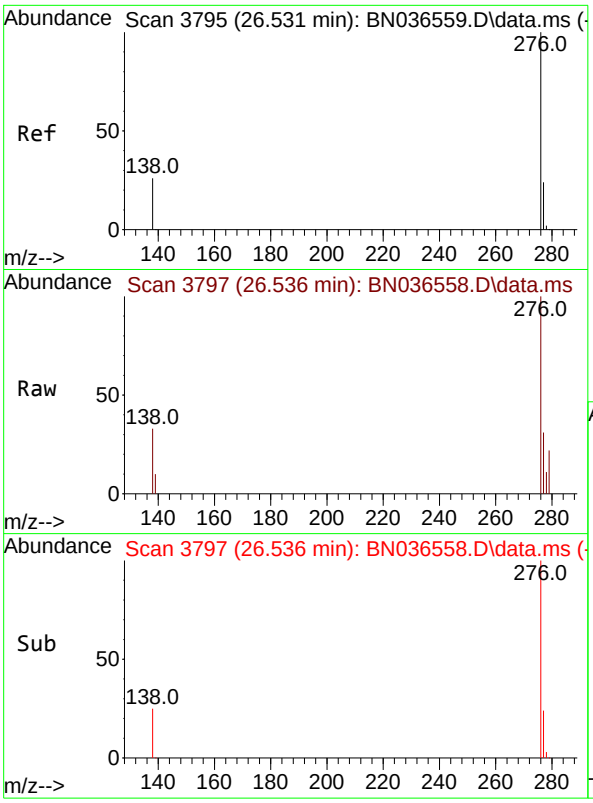



#40
Dibenzo(a,h)anthracene
Concen: 0.175 ng
RT: 25.858 min Scan# 3565
Delta R.T. 0.003 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:278 Resp: 2080

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 30.3 | 20.8 | 31.2 |
| 279 | 49.9 | 28.8 | 43.2# |

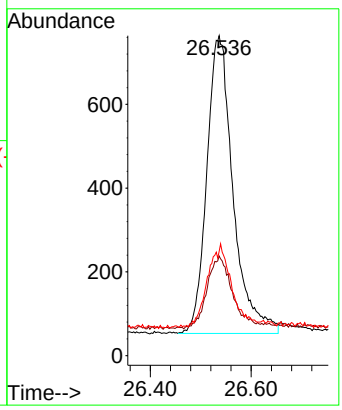





#41
Benzo(g,h,i)perylene
Concen: 0.189 ng
RT: 26.536 min Scan# 3
Delta R.T. 0.006 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:276 Resp: 257

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 31.2 | 22.2 | 33.4 |
| 138 | 32.6 | 24.1 | 36.1 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.2

**Manual Integrations**
**APPROVED**

Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036559.D
Acq On : 10 Mar 2025 12:54
Operator : RC/JU
Sample : SSTDICCC0.4
Misc :
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICCC0.4

Quant Time: Mar 10 16:01:26 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:54:23 2025
Response via : Initial Calibration

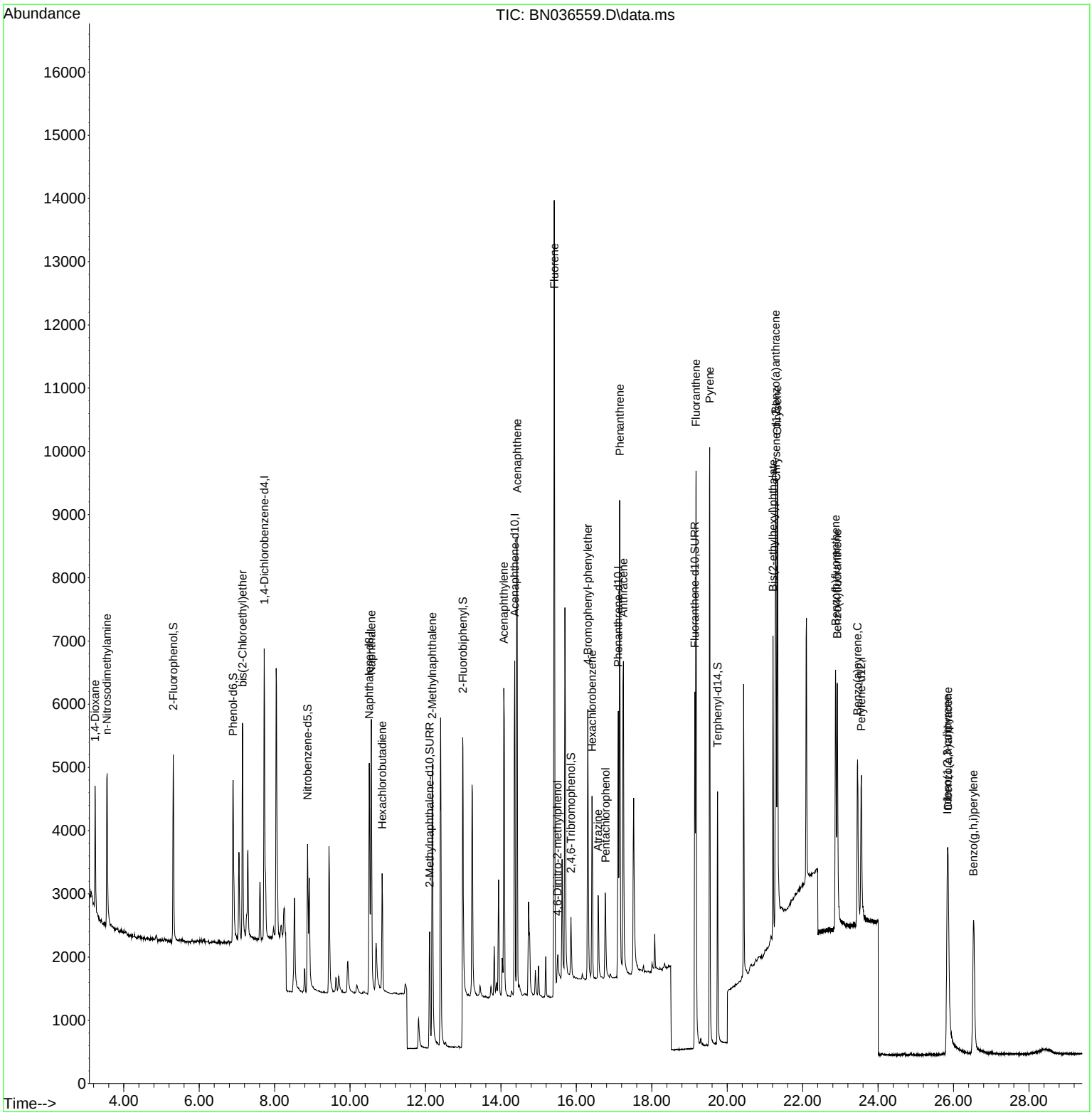
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.724 | 152 | 2207 | 0.400 | ng | | 0.00 |
| 7) Naphthalene-d8 | 10.509 | 136 | 5091 | 0.400 | ng | | 0.00 |
| 13) Acenaphthene-d10 | 14.366 | 164 | 3026 | 0.400 | ng | | 0.00 |
| 19) Phenanthrene-d10 | 17.111 | 188 | 6005 | 0.400 | ng | | 0.00 |
| 29) Chrysene-d12 | 21.295 | 240 | 4110 | 0.400 | ng | | 0.00 |
| 35) Perylene-d12 | 23.554 | 264 | 3539 | 0.400 | ng | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 4) 2-Fluorophenol | 5.312 | 112 | 2178 | 0.423 | ng | | 0.00 |
| 5) Phenol-d6 | 6.901 | 99 | 2489 | 0.392 | ng | | 0.00 |
| 8) Nitrobenzene-d5 | 8.875 | 82 | 2113 | 0.382 | ng | | 0.00 |
| 11) 2-Methylnaphthalene-d10 | 12.111 | 152 | 3085 | 0.407 | ng | | 0.00 |
| 14) 2,4,6-Tribromophenol | 15.858 | 330 | 567 | 0.413 | ng | | 0.00 |
| 15) 2-Fluorobiphenyl | 12.988 | 172 | 7257 | 0.412 | ng | | 0.00 |
| 27) Fluoranthene-d10 | 19.141 | 212 | 6699 | 0.435 | ng | | 0.00 |
| 31) Terphenyl-d14 | 19.745 | 244 | 4226 | 0.429 | ng | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.239 | 88 | 1099 | 0.449 | ng | | 100 |
| 3) n-Nitrosodimethylamine | 3.550 | 42 | 2063 | 0.417 | ng | | 100 |
| 6) bis(2-Chloroethyl)ether | 7.154 | 93 | 2610 | 0.397 | ng | | 100 |
| 9) Naphthalene | 10.562 | 128 | 6139 | 0.410 | ng | | 100 |
| 10) Hexachlorobutadiene | 10.850 | 225 | 1498 | 0.425 | ng | # | 100 |
| 12) 2-Methylnaphthalene | 12.182 | 142 | 3897 | 0.409 | ng | | 100 |
| 16) Acenaphthylene | 14.077 | 152 | 5865 | 0.411 | ng | | 100 |
| 17) Acenaphthene | 14.430 | 154 | 3877 | 0.415 | ng | | 100 |
| 18) Fluorene | 15.414 | 166 | 5338 | 0.422 | ng | | 100 |
| 20) 4,6-Dinitro-2-methylph... | 15.499 | 198 | 462 | 0.447 | ng | | 100 |
| 21) 4-Bromophenyl-phenylether | 16.304 | 248 | 1644 | 0.437 | ng | | 100 |
| 22) Hexachlorobenzene | 16.416 | 284 | 2018 | 0.444 | ng | | 100 |
| 23) Atrazine | 16.577 | 200 | 1279 | 0.424 | ng | | 100 |
| 24) Pentachlorophenol | 16.776 | 266 | 821 | 0.396 | ng | | 100 |
| 25) Phenanthrene | 17.148 | 178 | 7786 | 0.432 | ng | | 100 |
| 26) Anthracene | 17.248 | 178 | 6886 | 0.424 | ng | | 100 |
| 28) Fluoranthene | 19.173 | 202 | 8717 | 0.431 | ng | | 100 |
| 30) Pyrene | 19.536 | 202 | 8759 | 0.436 | ng | | 100 |
| 32) Benzo(a)anthracene | 21.286 | 228 | 5908 | 0.413 | ng | | 100 |
| 33) Chrysene | 21.331 | 228 | 6617 | 0.424 | ng | | 100 |
| 34) Bis(2-ethylhexyl)phtha... | 21.214 | 149 | 4291 | 0.422 | ng | | 100 |
| 36) Indeno(1,2,3-cd)pyrene | 25.838 | 276 | 5470 | 0.428 | ng | | 100 |
| 37) Benzo(b)fluoranthene | 22.873 | 252 | 5475 | 0.425 | ng | | 100 |
| 38) Benzo(k)fluoranthene | 22.917 | 252 | 5732 | 0.424 | ng | | 100 |
| 39) Benzo(a)pyrene | 23.455 | 252 | 4612 | 0.425 | ng | | 100 |
| 40) Dibenzo(a,h)anthracene | 25.855 | 278 | 4117 | 0.414 | ng | | 100 |
| 41) Benzo(g,h,i)perylene | 26.531 | 276 | 4891 | 0.430 | ng | | 100 |

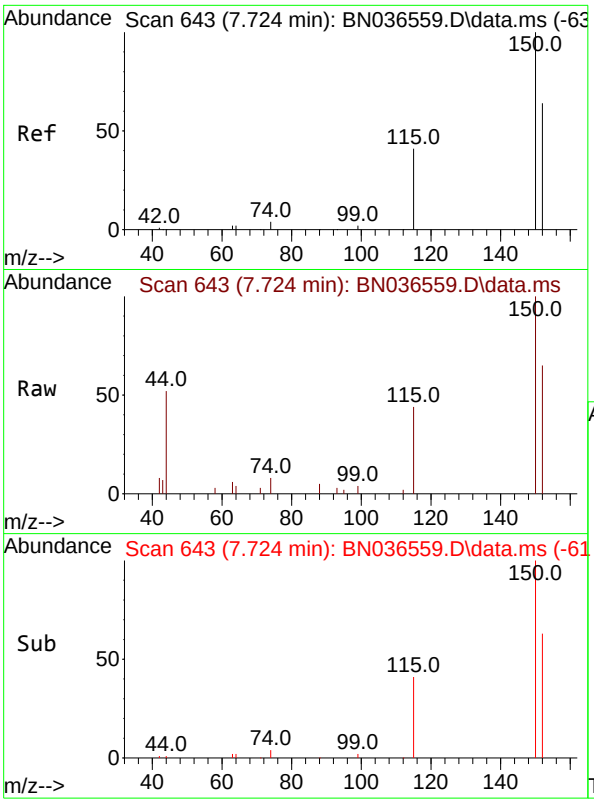
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036559.D
Acq On : 10 Mar 2025 12:54
Operator : RC/JU
Sample : SSTDICCC0.4
Misc :
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICCC0.4

Quant Time: Mar 10 16:01:26 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:54:23 2025
Response via : Initial Calibration



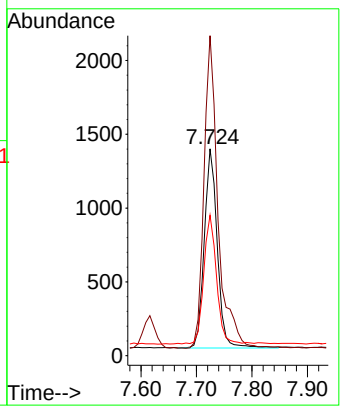


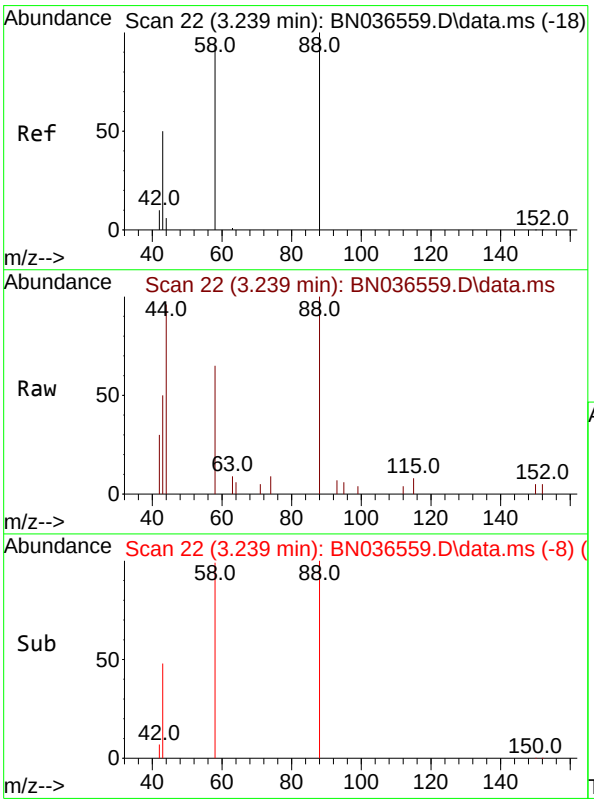

#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICCC0.4

Tgt Ion:152 Resp: 2207

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 154.6 | 123.7 | 185.5 |
| 115 | 67.9 | 54.3 | 81.5 |

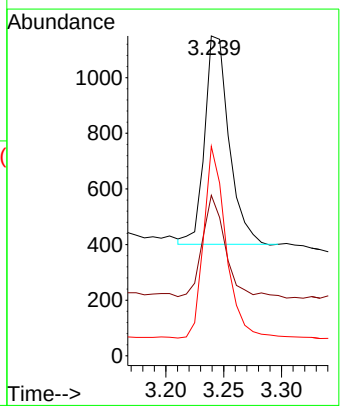


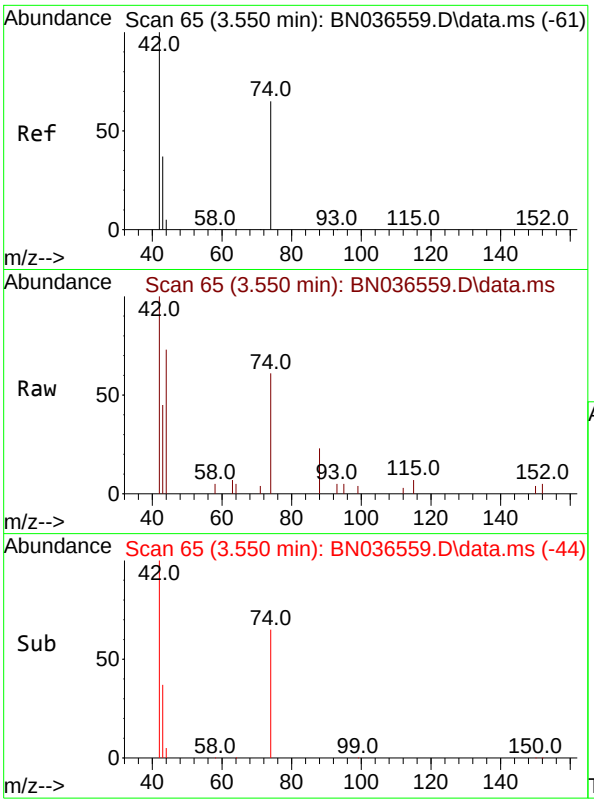




#2
1,4-Dioxane
Concen: 0.449 ng
RT: 3.239 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Tgt Ion: 88 Resp: 1099

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 47.3 | 37.8 | 56.8 |
| 58 | 84.3 | 67.4 | 101.2 |



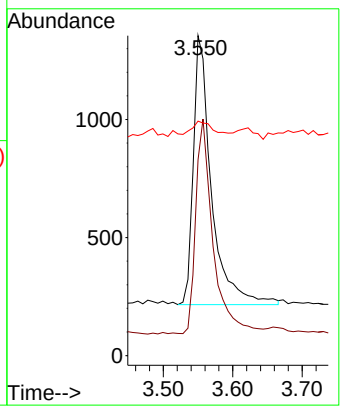


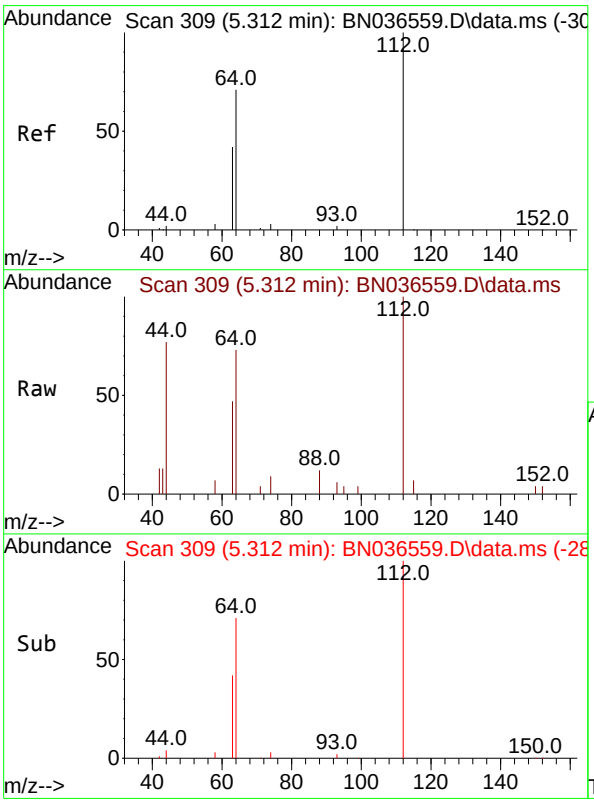

#3
n-Nitrosodimethylamine
Concen: 0.417 ng
RT: 3.550 min Scan# 6
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICCC0.4

Tgt Ion: 42 Resp: 2063

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 75.7 | 60.6 | 90.8 |
| 44 | 7.9 | 6.3 | 9.5 |

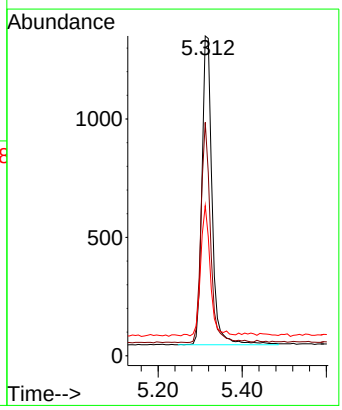


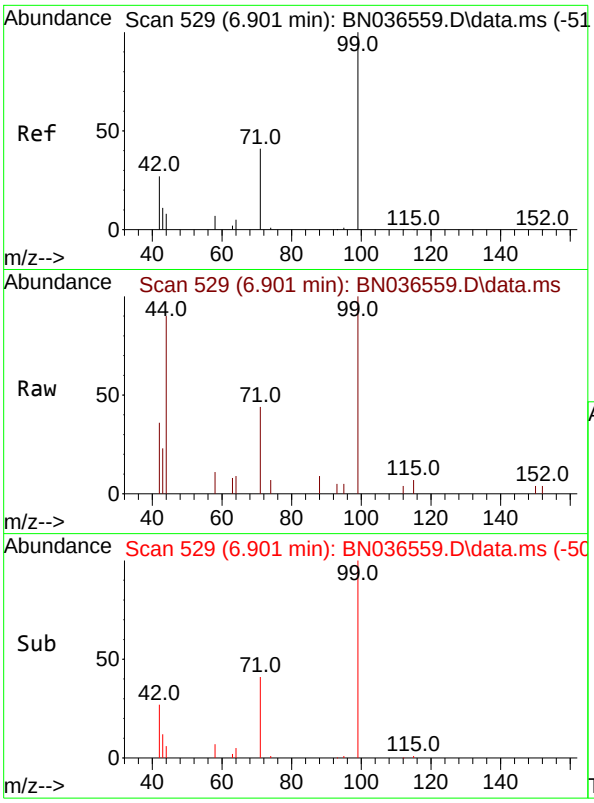




#4
2-Fluorophenol
Concen: 0.423 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Tgt Ion:112 Resp: 2178

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 66.4 | 53.1 | 79.7 |
| 63 | 39.8 | 31.8 | 47.8 |



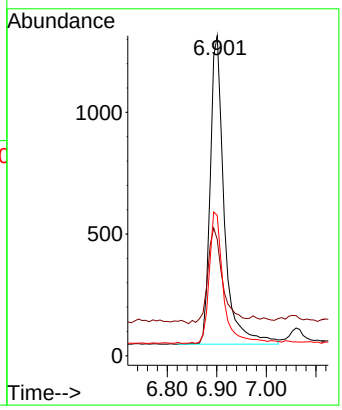


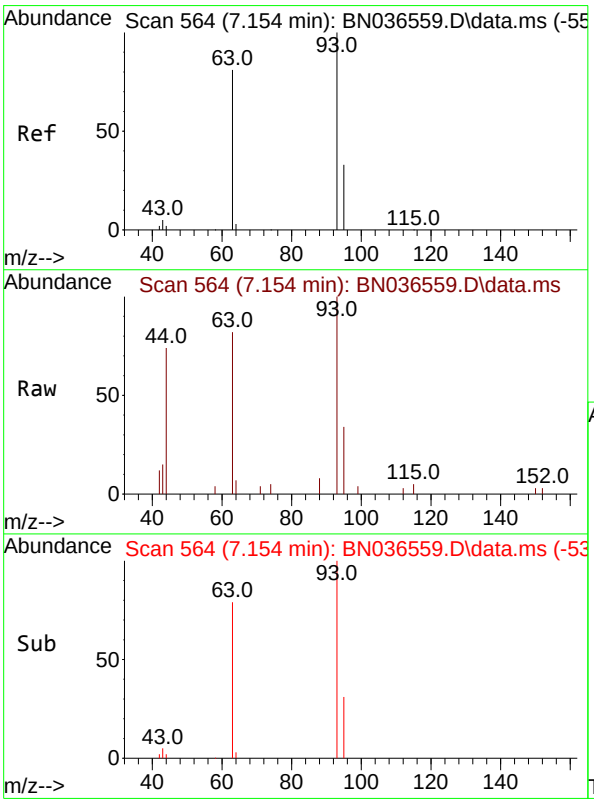

#5
Phenol-d6
Concen: 0.392 ng
RT: 6.901 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICCC0.4

Tgt Ion: 99 Resp: 2489

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 33.1 | 26.5 | 39.7 |
| 71 | 42.6 | 34.1 | 51.1 |

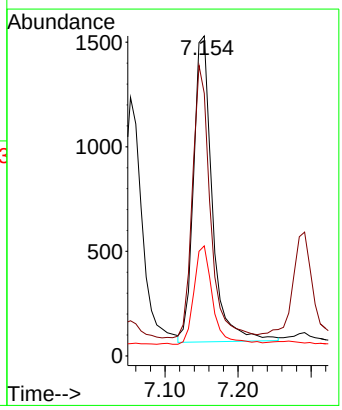


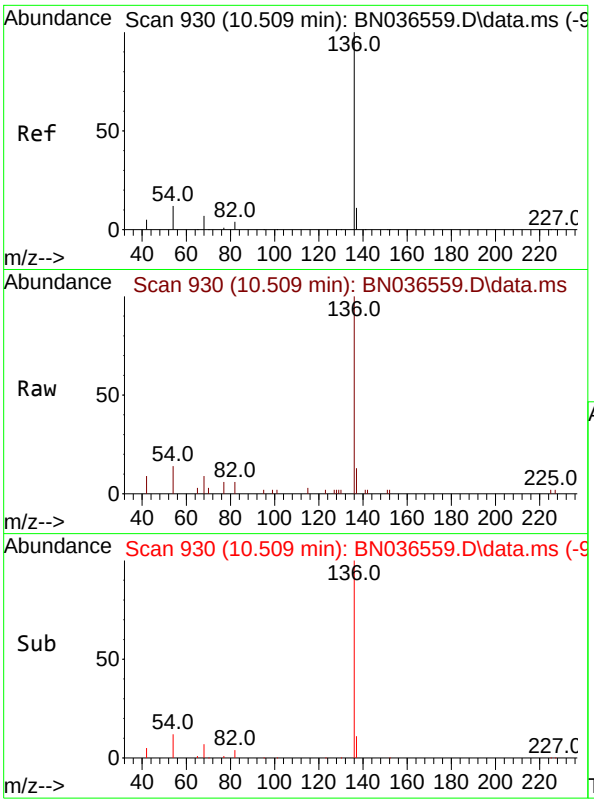




#6
bis(2-Chloroethyl)ether
Concen: 0.397 ng
RT: 7.154 min Scan# 564
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Tgt Ion: 93 Resp: 2610

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 84.6 | 67.7 | 101.5 |
| 95 | 32.0 | 25.6 | 38.4 |



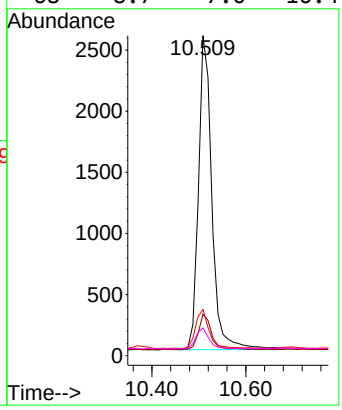


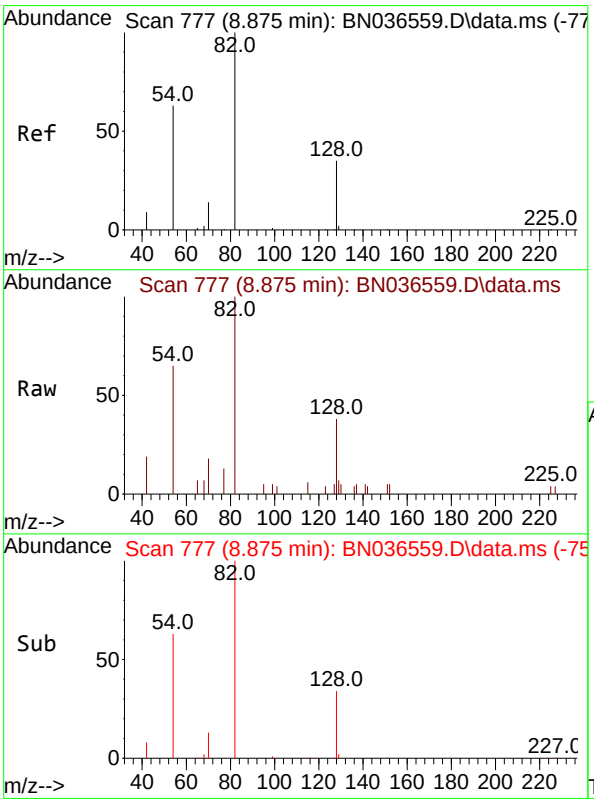

#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICCC0.4

Tgt Ion:136 Resp: 5091

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 12.9 | 10.3 | 15.5 |
| 54 | 14.4 | 11.5 | 17.3 |
| 68 | 8.7 | 7.0 | 10.4 |

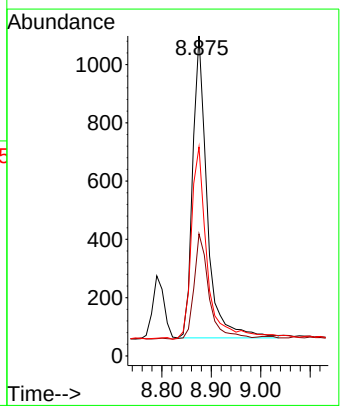


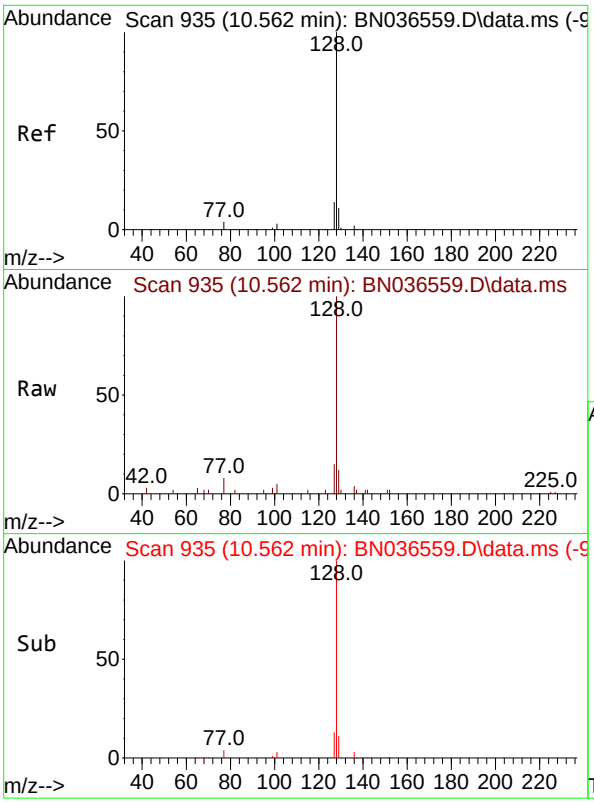




#8
Nitrobenzene-d5
Concen: 0.382 ng
RT: 8.875 min Scan# 777
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Tgt Ion: 82 Resp: 2113

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 38.2 | 30.6 | 45.8 |
| 54 | 65.3 | 52.2 | 78.4 |



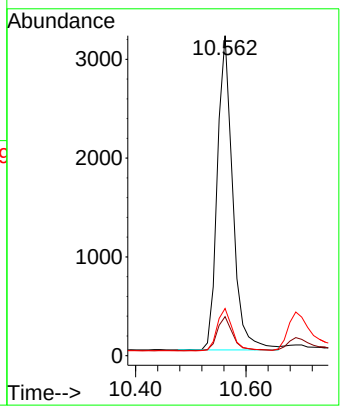


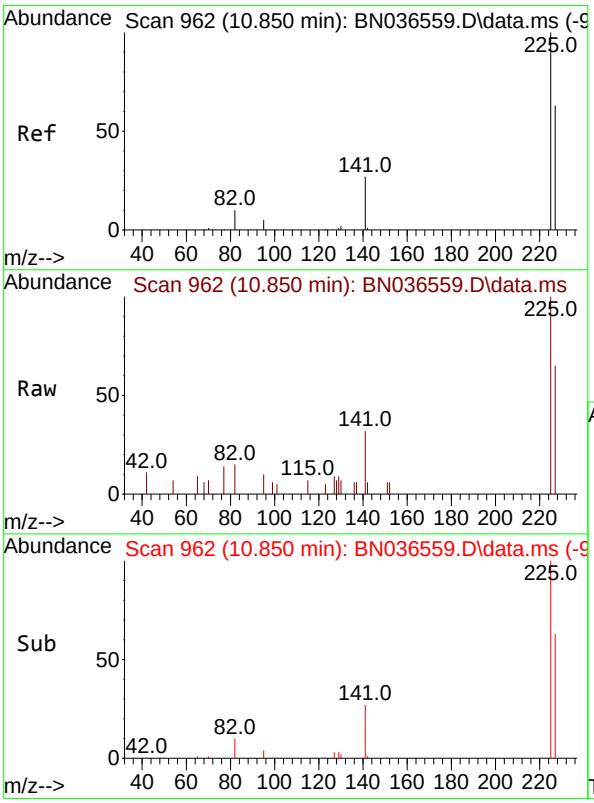

#9
Naphthalene
Concen: 0.410 ng
RT: 10.562 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICCC0.4

Tgt Ion:128 Resp: 6139

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 12.2 | 9.8 | 14.6 |
| 127 | 14.8 | 11.8 | 17.8 |

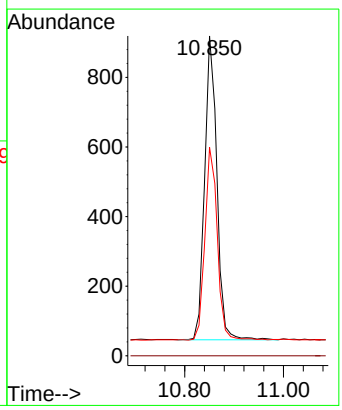


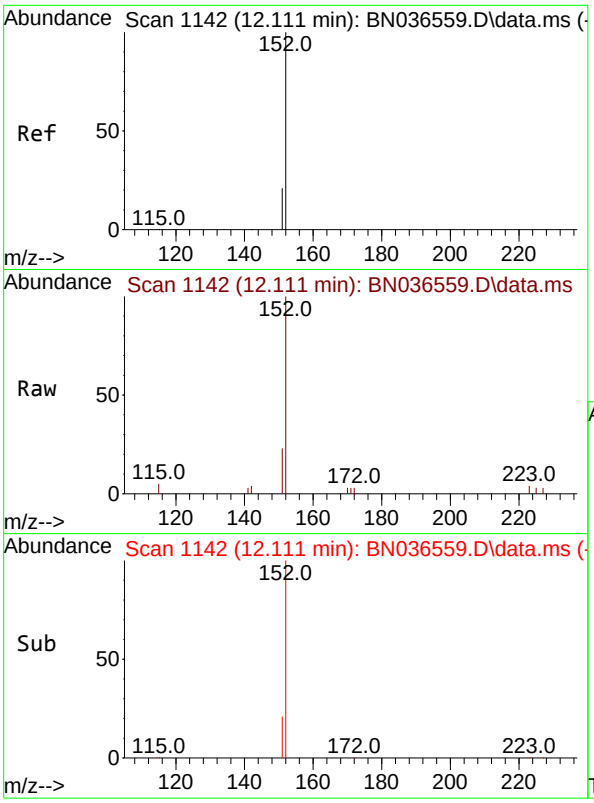




#10
Hexachlorobutadiene
Concen: 0.425 ng
RT: 10.850 min Scan# 962
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Tgt Ion:225 Resp: 1498

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 0.0 | 0.0 | 0.0 |
| 227 | 64.8 | 51.8 | 77.8 |



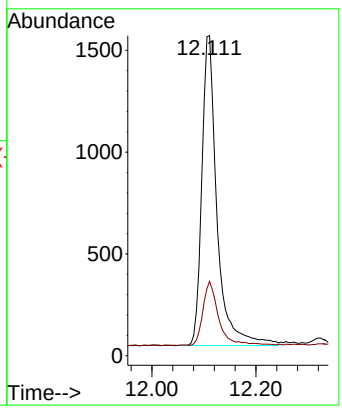


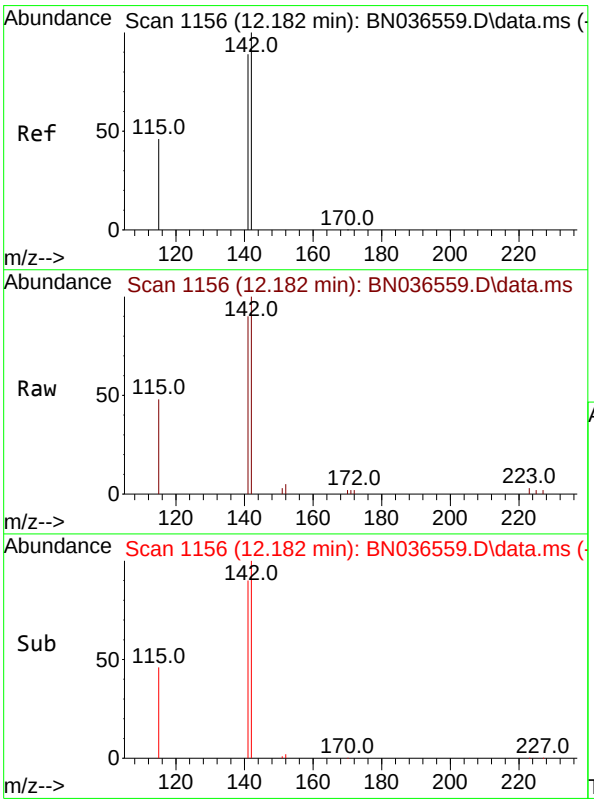

#11
2-Methylnaphthalene-d10
Concen: 0.407 ng
RT: 12.111 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICCC0.4

Tgt Ion:152 Resp: 3085

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 21.3 | 17.0 | 25.6 |

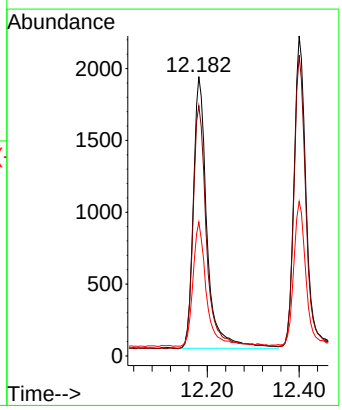


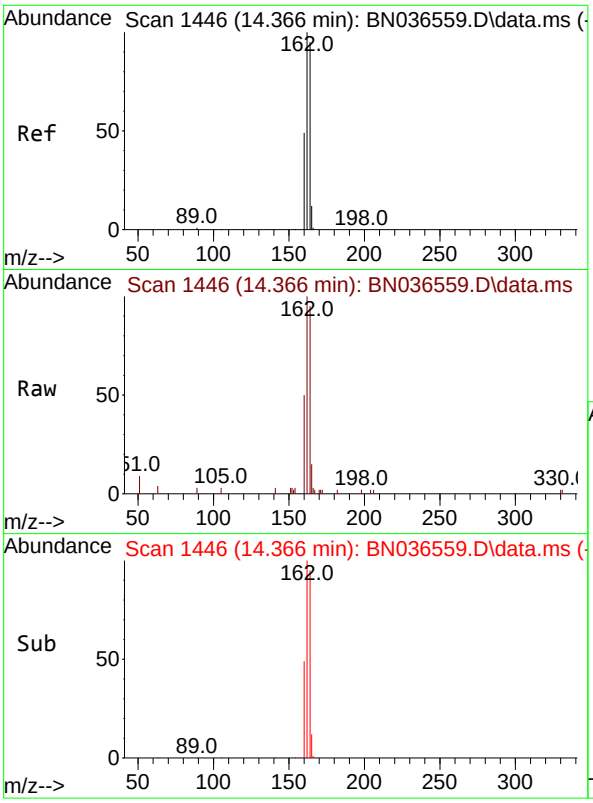




#12
2-Methylnaphthalene
Concen: 0.409 ng
RT: 12.182 min Scan# 1156
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Tgt Ion:142 Resp: 3897

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 89.6 | 71.7 | 107.5 |
| 115 | 47.9 | 38.3 | 57.5 |



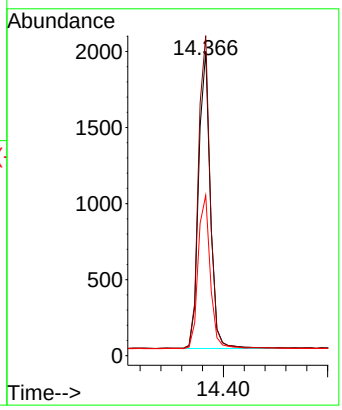


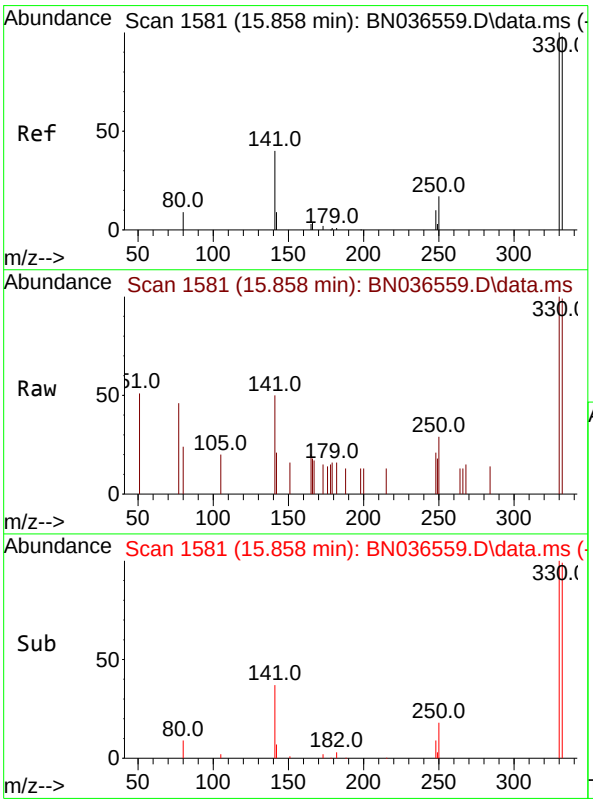

#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICCC0.4

Tgt Ion:164 Resp: 3026

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 105.2 | 84.2 | 126.2 |
| 160 | 52.7 | 42.2 | 63.2 |

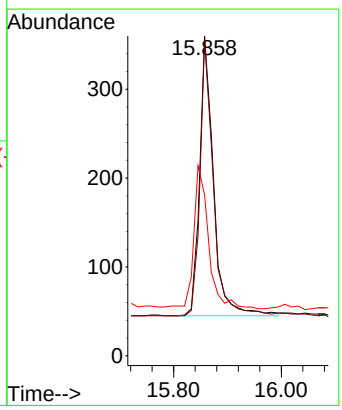


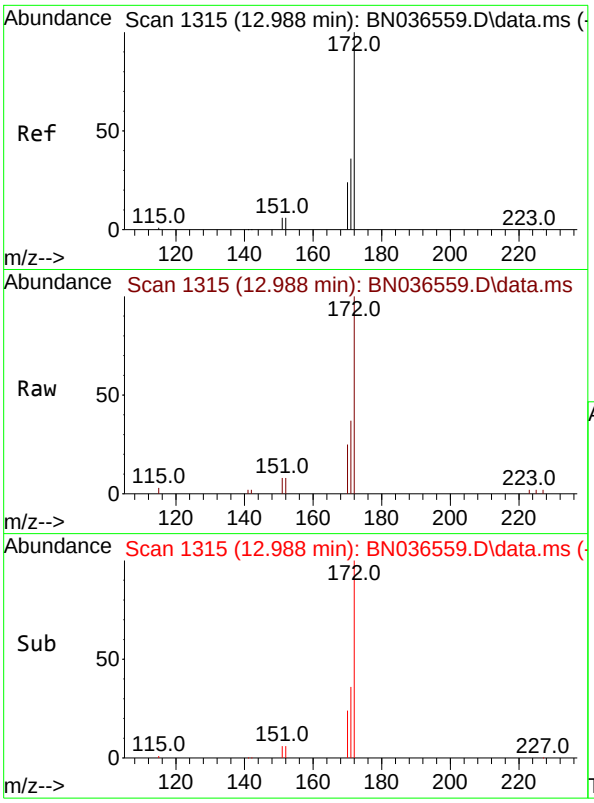




#14
2,4,6-Tribromophenol
Concen: 0.413 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Tgt Ion:330 Resp: 567

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 94.0 | 75.2 | 112.8 |
| 141 | 54.3 | 43.4 | 65.2 |



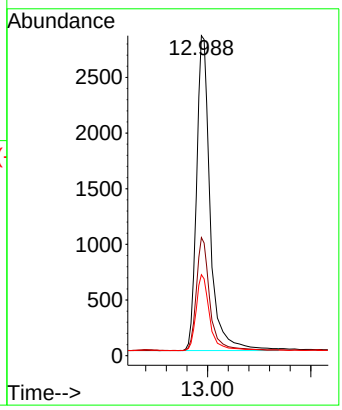


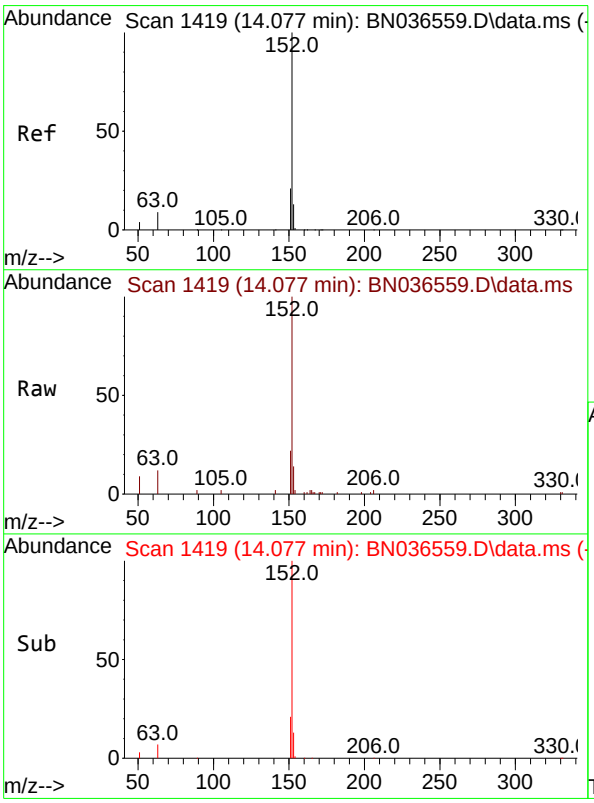

#15
2-Fluorobiphenyl
Concen: 0.412 ng
RT: 12.988 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICCC0.4

Tgt Ion:172 Resp: 7257

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 36.9 | 29.5 | 44.3 |
| 170 | 25.3 | 20.2 | 30.4 |

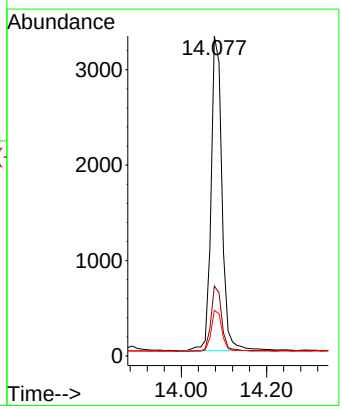


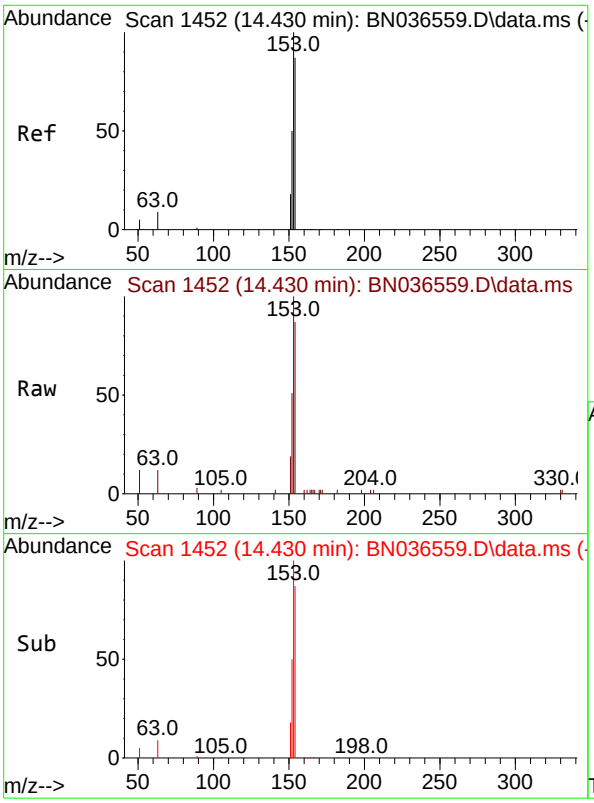




#16
Acenaphthylene
Concen: 0.411 ng
RT: 14.077 min Scan# 1419
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Tgt Ion:152 Resp: 5865

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.3 | 16.2 | 24.4 |
| 153 | 13.2 | 10.6 | 15.8 |



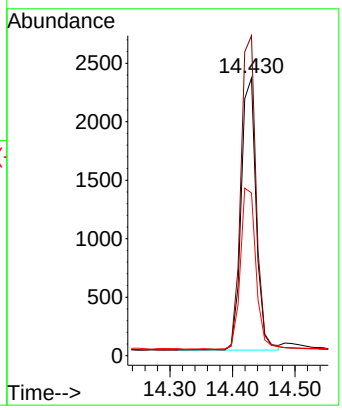


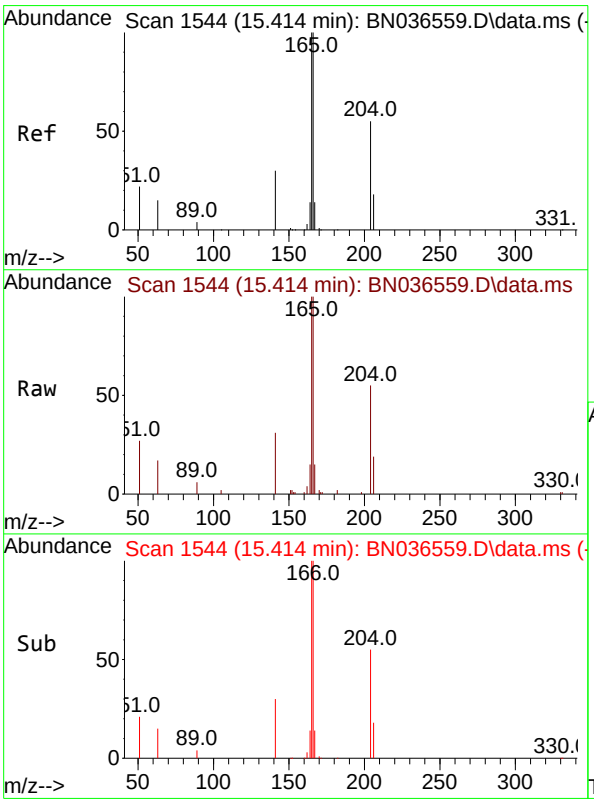

#17
Acenaphthene
Concen: 0.415 ng
RT: 14.430 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICCC0.4

Tgt Ion:154 Resp: 3877

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 117.6 | 94.1 | 141.1 |
| 152 | 62.2 | 49.8 | 74.6 |

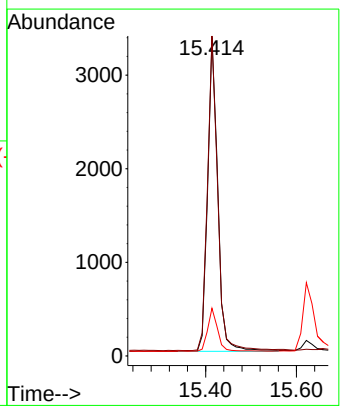


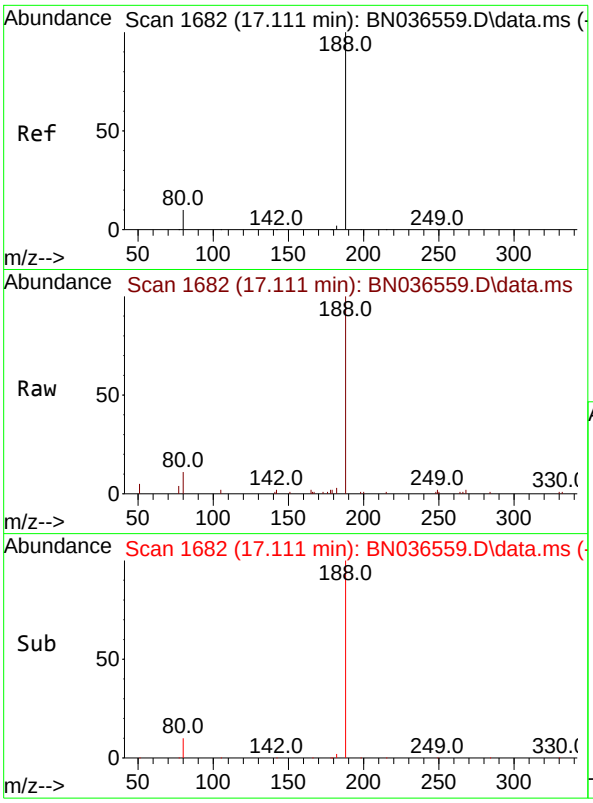




#18
Fluorene
Concen: 0.422 ng
RT: 15.414 min Scan# 1544
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Tgt Ion:166 Resp: 5338

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 99.8 | 79.8 | 119.8 |
| 167 | 13.2 | 10.6 | 15.8 |



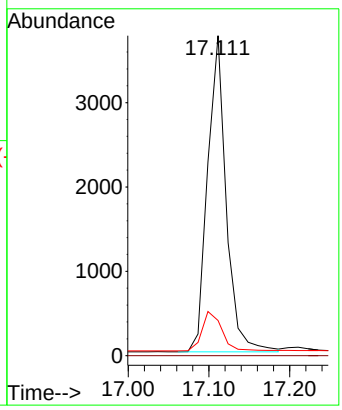


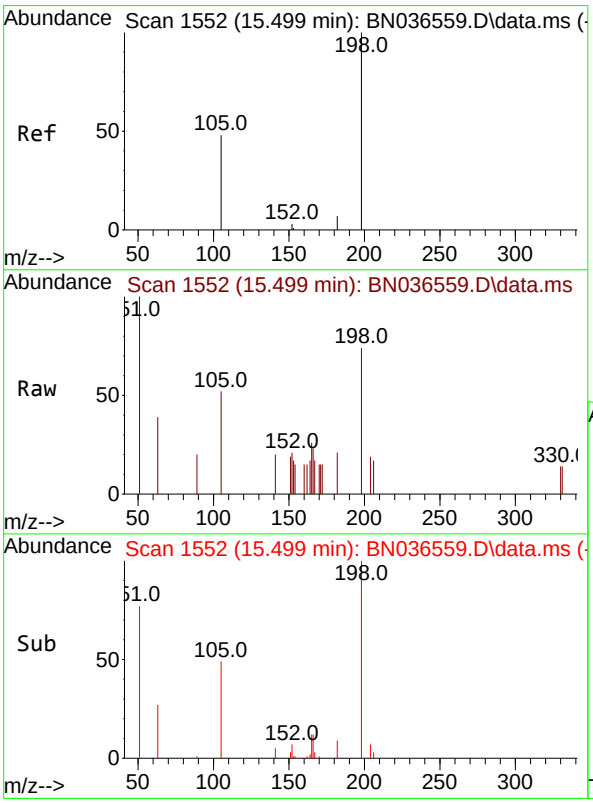

#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.111 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICCC0.4

Tgt Ion:188 Resp: 6005

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 11.0 | 8.8 | 13.2 |

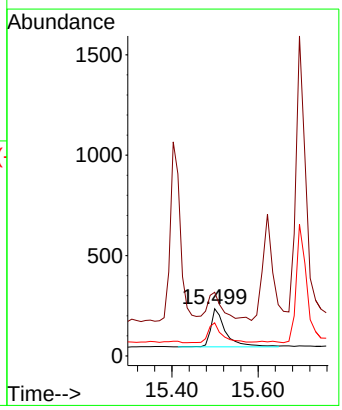


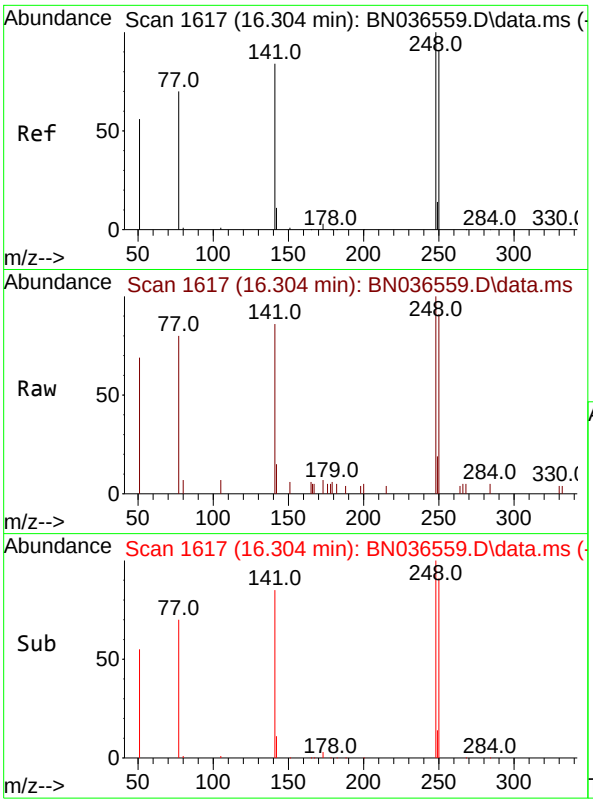




#20
4,6-Dinitro-2-methylphenol
Concen: 0.447 ng
RT: 15.499 min Scan# 1552
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Tgt Ion:198 Resp: 462

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 198 | 100 | | |
| 51 | 134.9 | 107.9 | 161.9 |
| 105 | 70.2 | 56.2 | 84.2 |



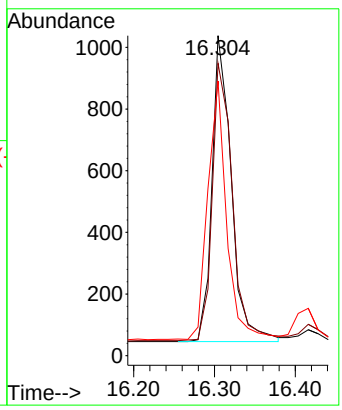


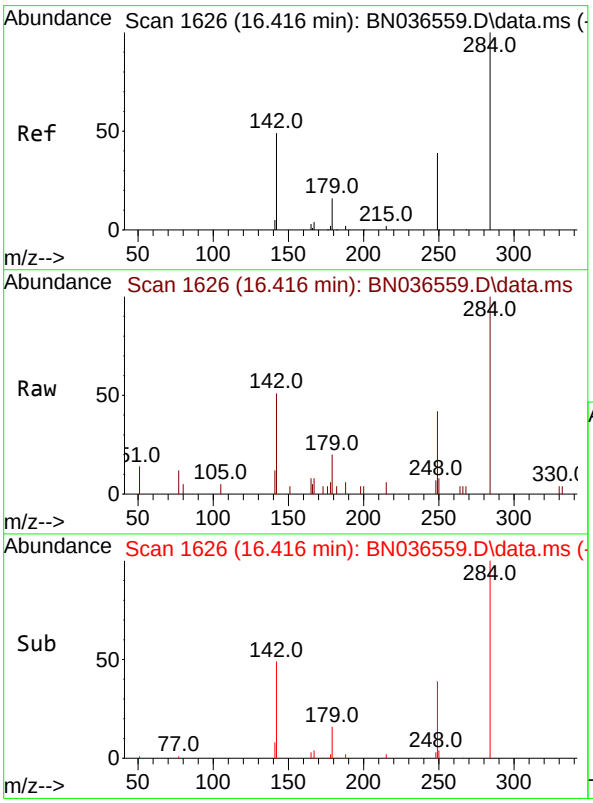

#21
4-Bromophenyl-phenylether
Concen: 0.437 ng
RT: 16.304 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICCC0.4

Tgt Ion:248 Resp: 1644

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 91.3 | 73.0 | 109.6 |
| 141 | 85.8 | 68.6 | 103.0 |

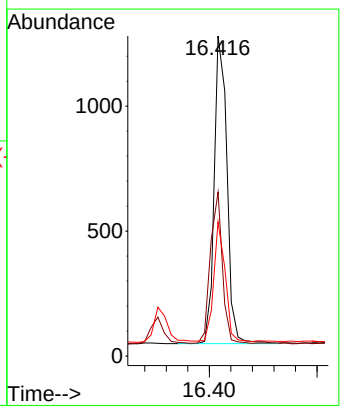


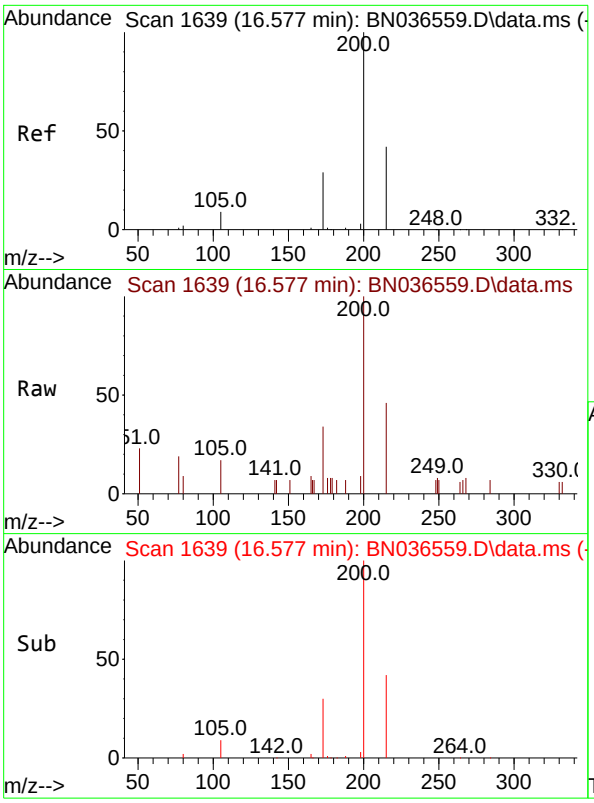




#22
Hexachlorobenzene
Concen: 0.444 ng
RT: 16.416 min Scan# 1626
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Tgt Ion:284 Resp: 2018

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 46.2 | 37.0 | 55.4 |
| 249 | 35.1 | 28.1 | 42.1 |



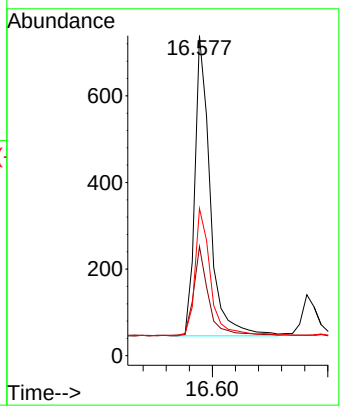


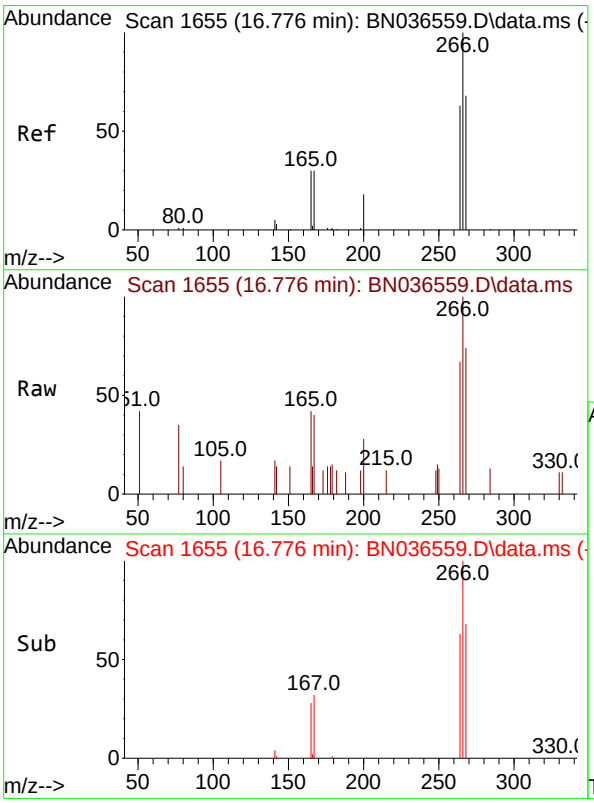

#23
Atrazine
Concen: 0.424 ng
RT: 16.577 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICCC0.4

Tgt Ion:200 Resp: 1279

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 173 | 34.1 | 27.3 | 40.9 |
| 215 | 46.0 | 36.8 | 55.2 |

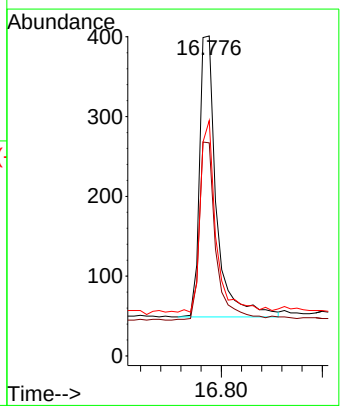


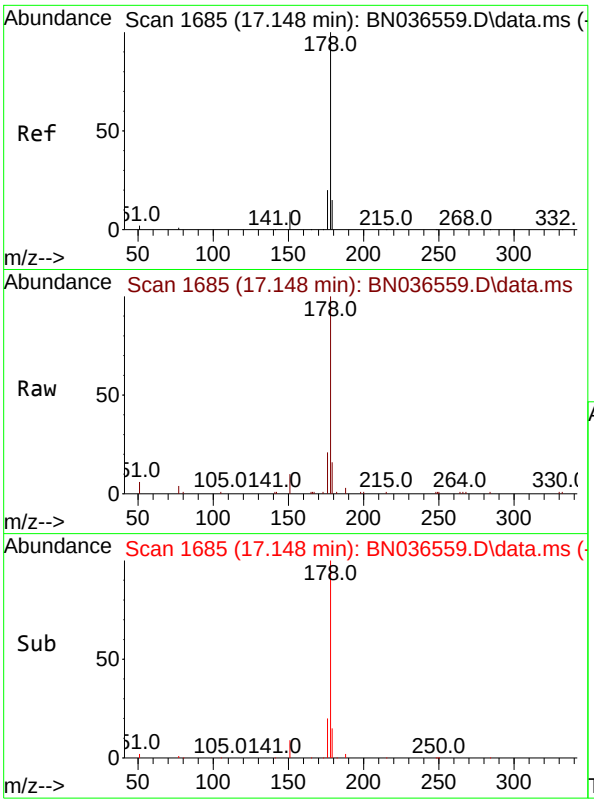




#24
Pentachlorophenol
Concen: 0.396 ng
RT: 16.776 min Scan# 1655
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Tgt Ion:266 Resp: 821

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 264 | 62.0 | 49.6 | 74.4 |
| 268 | 63.6 | 50.9 | 76.3 |



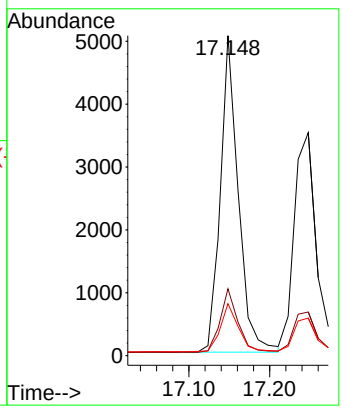


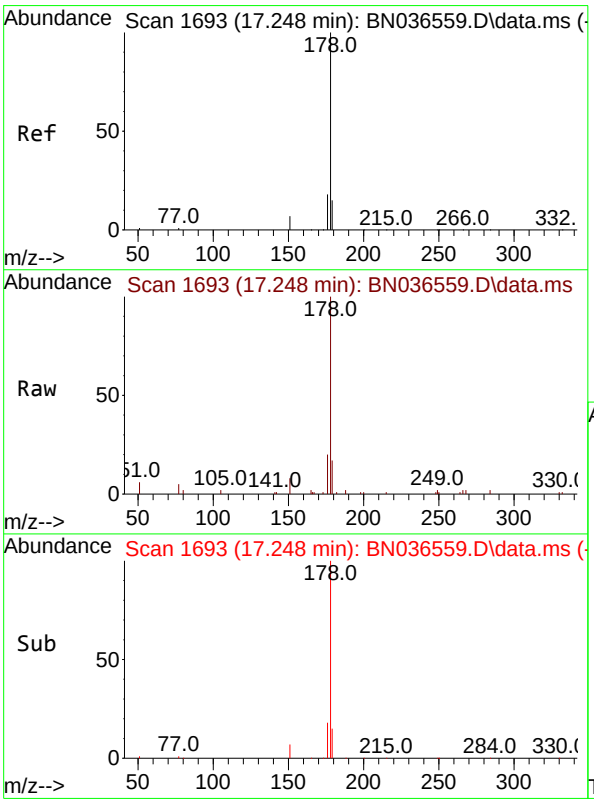

#25
Phenanthrene
Concen: 0.432 ng
RT: 17.148 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICCC0.4

Tgt Ion:178 Resp: 7786

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.9 | 15.9 | 23.9 |
| 179 | 15.3 | 12.2 | 18.4 |

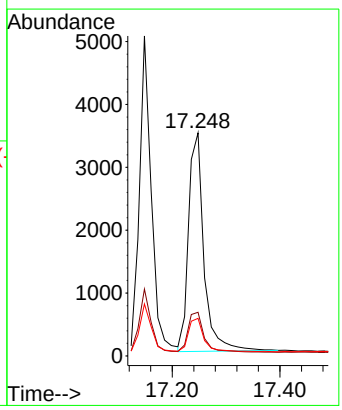


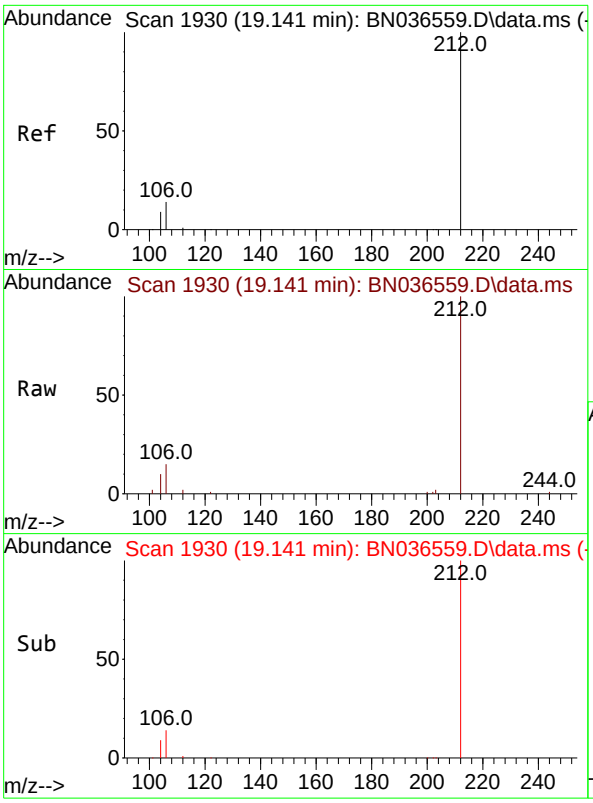




#26
Anthracene
Concen: 0.424 ng
RT: 17.248 min Scan# 1693
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Tgt Ion:178 Resp: 6886

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.3 | 15.4 | 23.2 |
| 179 | 15.7 | 12.6 | 18.8 |



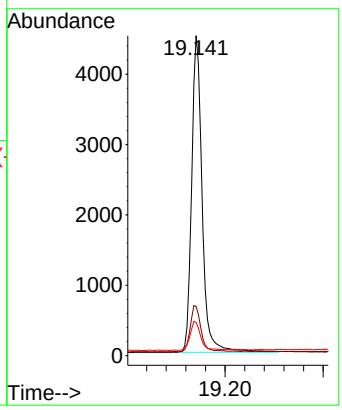


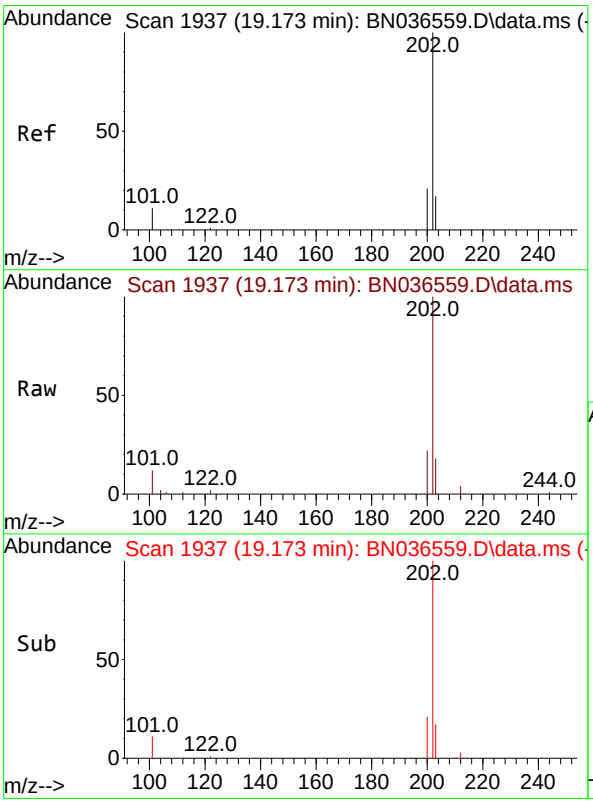

#27
Fluoranthene-d10
Concen: 0.435 ng
RT: 19.141 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICCC0.4

Tgt Ion:212 Resp: 6699

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 14.7 | 11.8 | 17.6 |
| 104 | 9.1 | 7.3 | 10.9 |

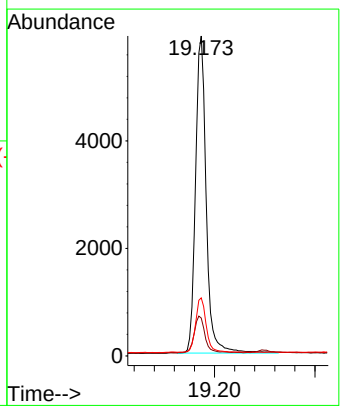


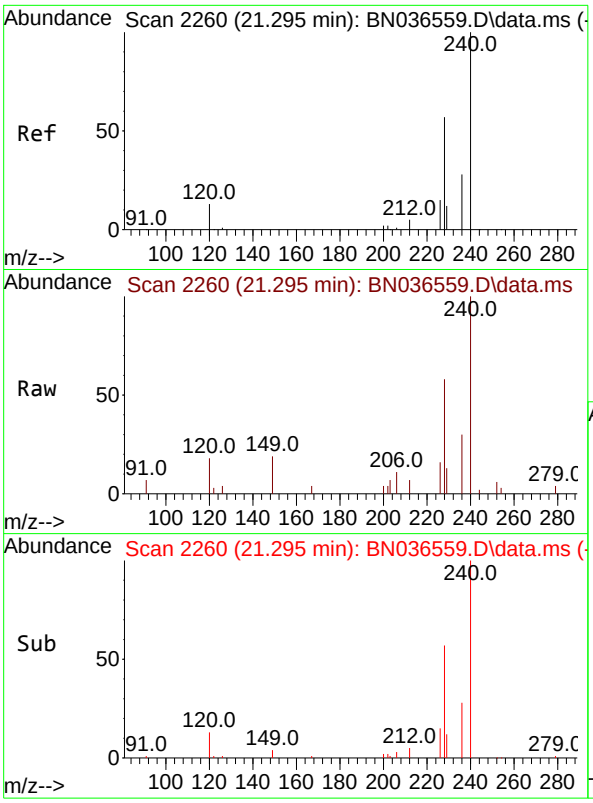




#28
Fluoranthene
Concen: 0.431 ng
RT: 19.173 min Scan# 1937
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Tgt Ion:202 Resp: 8717

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 11.7 | 9.4 | 14.0 |
| 203 | 16.9 | 13.5 | 20.3 |



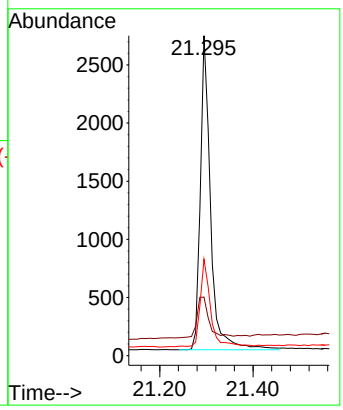


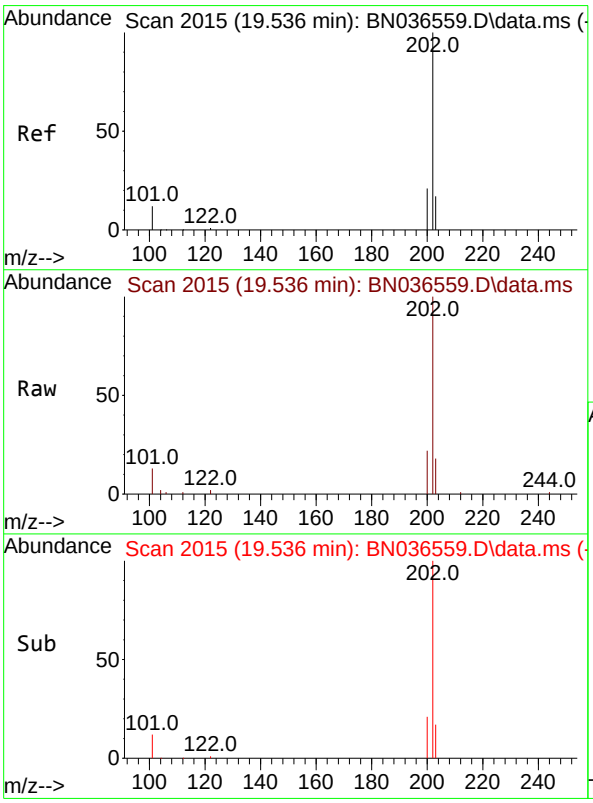

#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICCC0.4

Tgt Ion:240 Resp: 4110

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 18.3 | 14.6 | 22.0 |
| 236 | 30.1 | 24.1 | 36.1 |

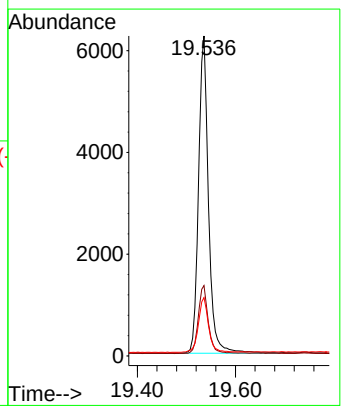


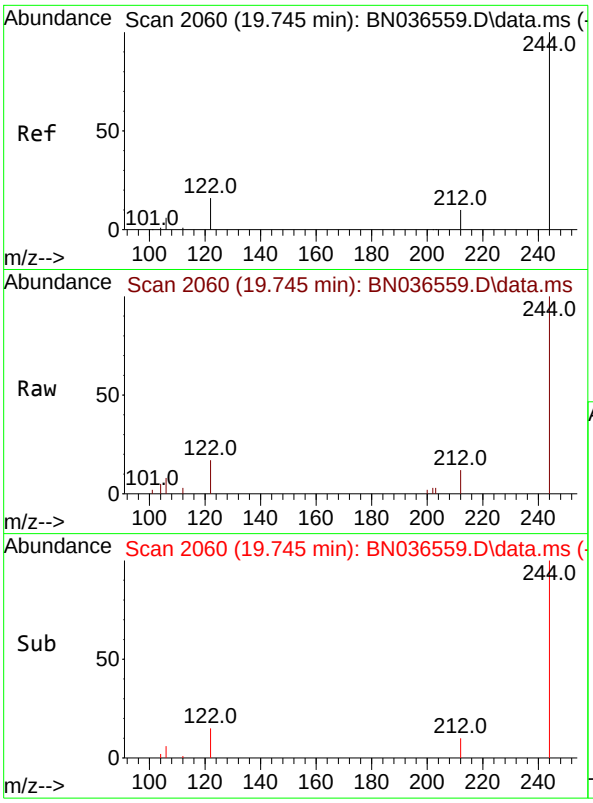




#30
Pyrene
Concen: 0.436 ng
RT: 19.536 min Scan# 2015
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Tgt Ion:202 Resp: 8759

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.4 | 17.1 | 25.7 |
| 203 | 17.6 | 14.1 | 21.1 |



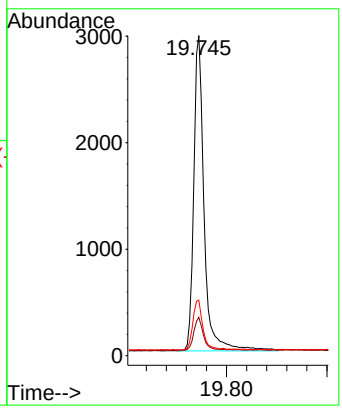


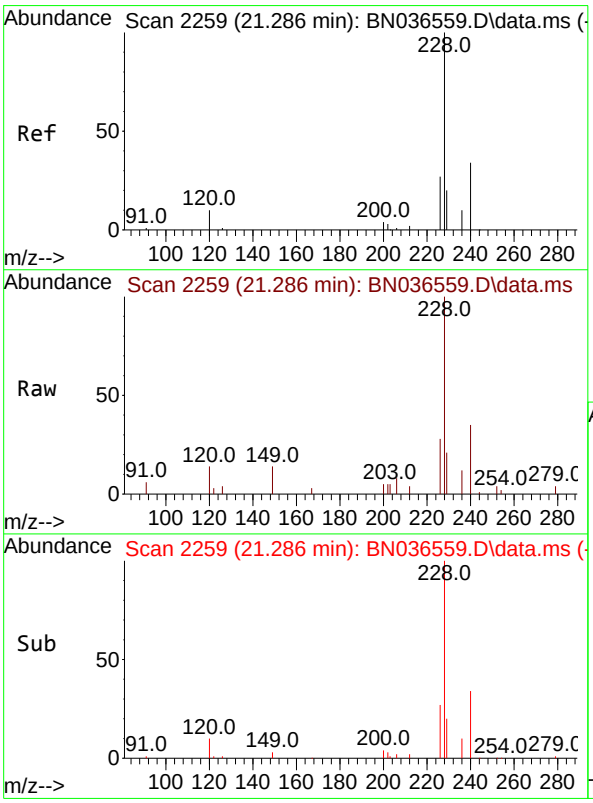

#31
Terphenyl-d14
Concen: 0.429 ng
RT: 19.745 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICCC0.4

Tgt Ion:244 Resp: 4226

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 12.0 | 9.6 | 14.4 |
| 122 | 17.4 | 13.9 | 20.9 |

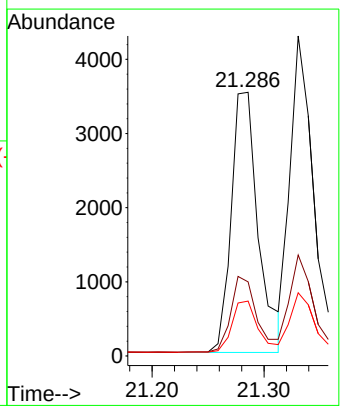


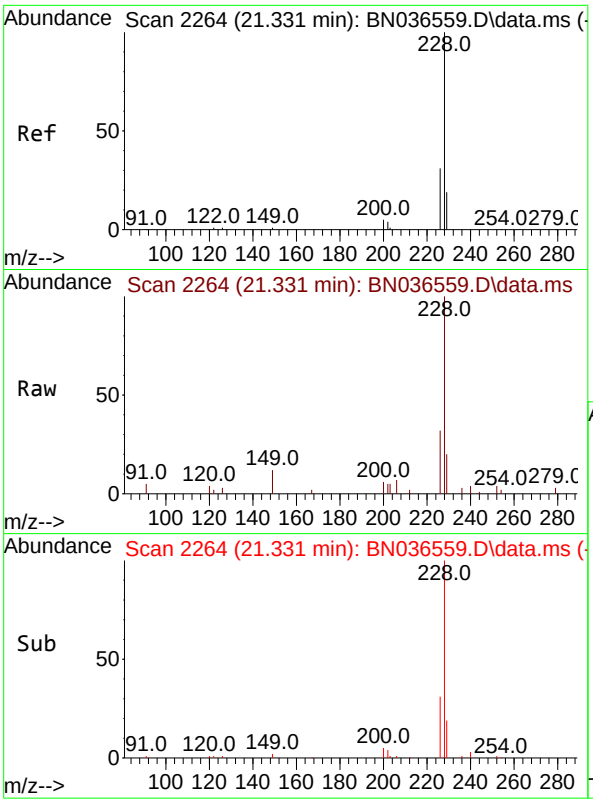




#32
Benzo(a)anthracene
Concen: 0.413 ng
RT: 21.286 min Scan# 2259
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Tgt Ion:228 Resp: 5908

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 28.1 | 22.5 | 33.7 |
| 229 | 20.8 | 16.6 | 25.0 |



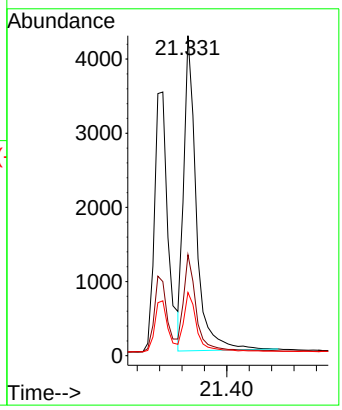


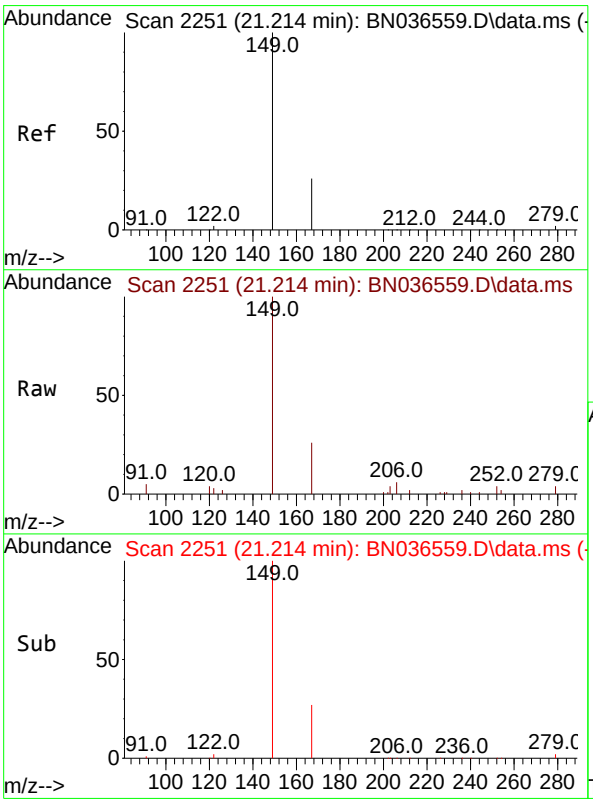

#33
Chrysene
Concen: 0.424 ng
RT: 21.331 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICCC0.4

Tgt Ion:228 Resp: 6617

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 31.6 | 25.3 | 37.9 |
| 229 | 19.8 | 15.8 | 23.8 |

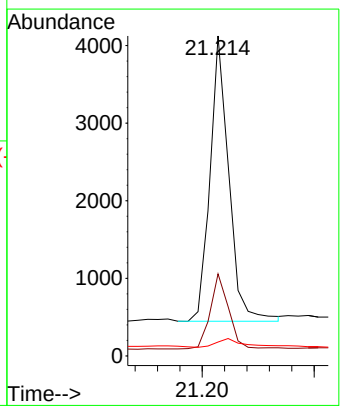


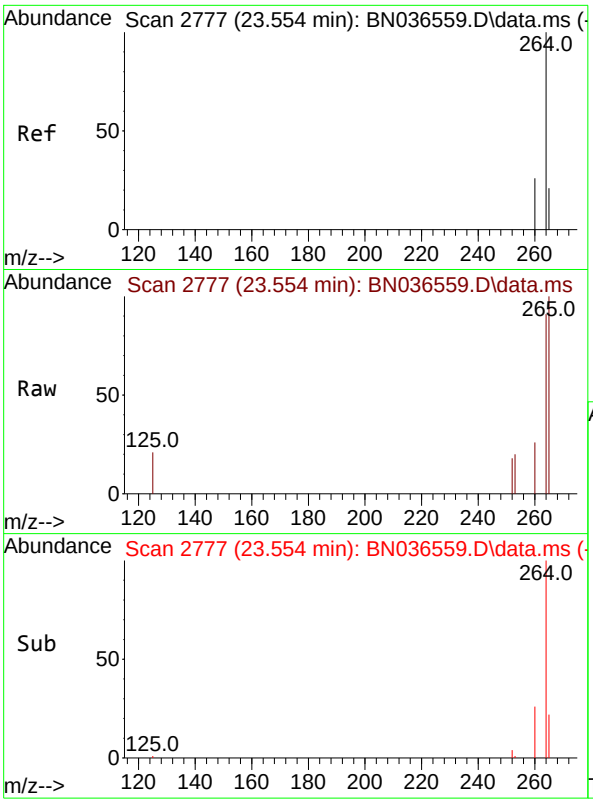




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.422 ng
RT: 21.214 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Tgt Ion:149 Resp: 4291

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 25.9 | 20.7 | 31.1 |
| 279 | 4.5 | 3.6 | 5.4 |



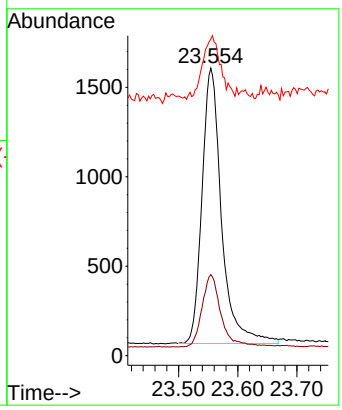


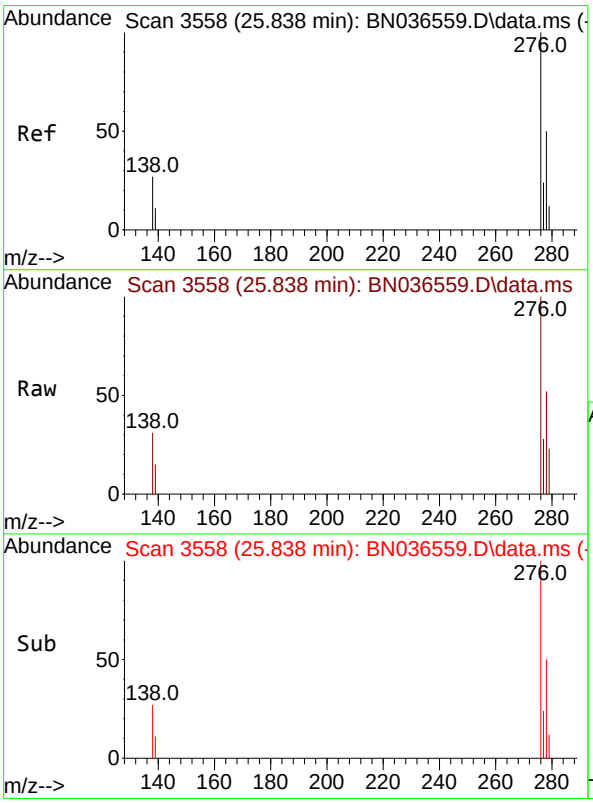

#35
Perylene-d12
Concen: 0.400 ng
RT: 23.554 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICCC0.4

Tgt Ion:264 Resp: 3539

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 28.2 | 22.6 | 33.8 |
| 265 | 110.1 | 88.1 | 132.1 |

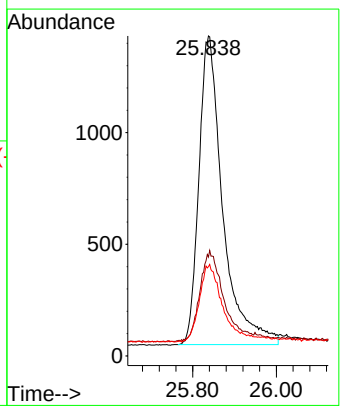


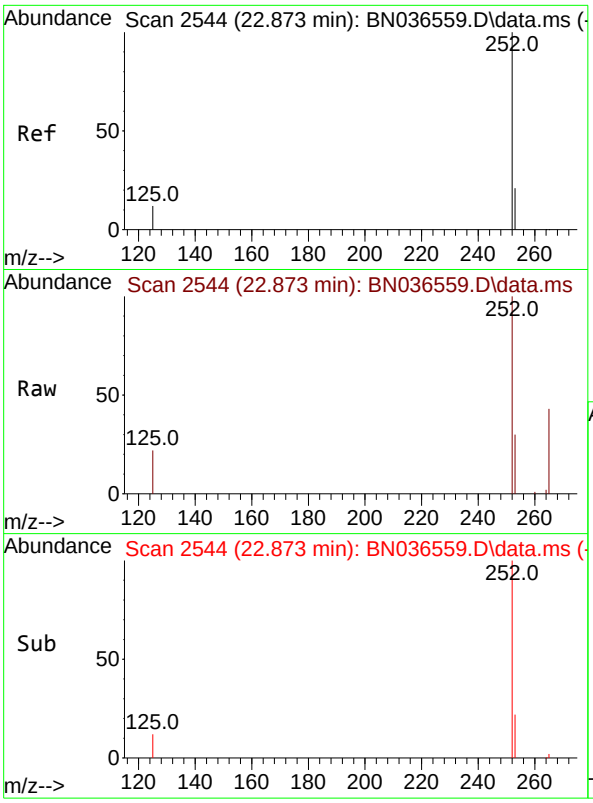




#36
Indeno(1,2,3-cd)pyrene
Concen: 0.428 ng
RT: 25.838 min Scan# 3558
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Tgt Ion:276 Resp: 5470

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 29.3 | 23.4 | 35.2 |
| 277 | 25.0 | 20.0 | 30.0 |



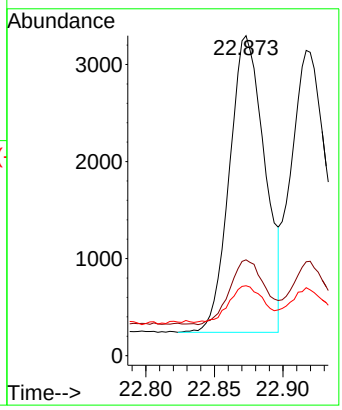


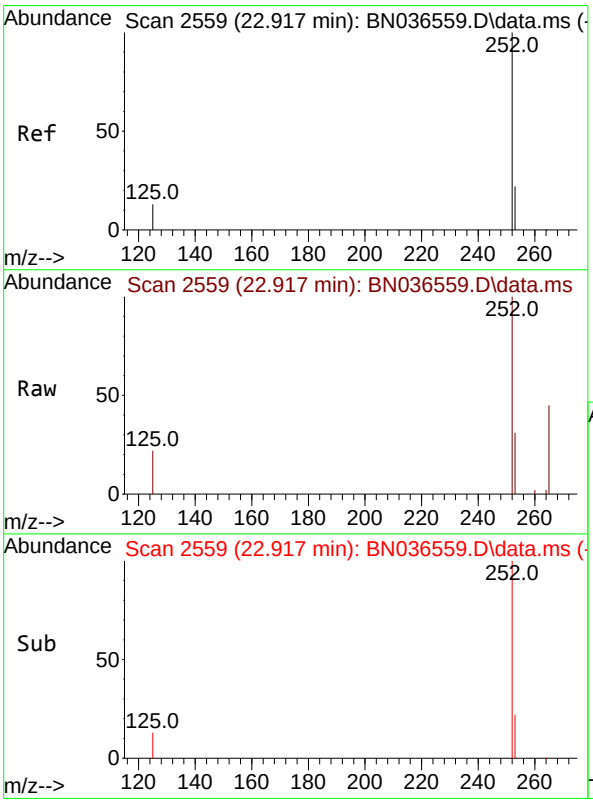

#37
Benzo(b)fluoranthene
Concen: 0.425 ng
RT: 22.873 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICCC0.4

Tgt Ion:252 Resp: 5475

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 29.9 | 23.9 | 35.9 |
| 125 | 21.8 | 17.4 | 26.2 |

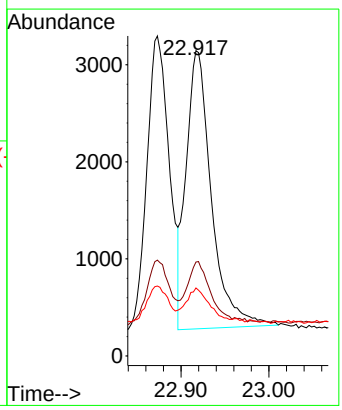


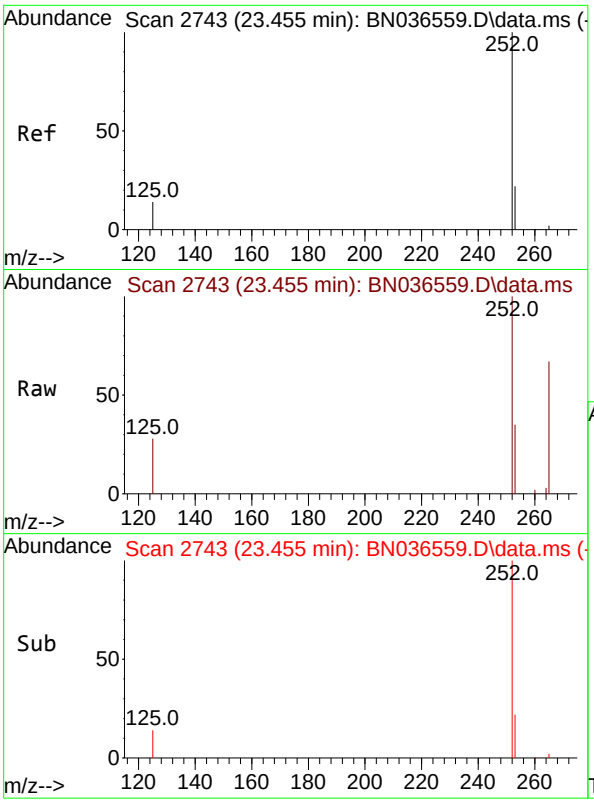




#38
Benzo(k)fluoranthene
Concen: 0.424 ng
RT: 22.917 min Scan# 2559
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Tgt Ion:252 Resp: 5732

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 30.7 | 24.6 | 36.8 |
| 125 | 22.3 | 17.8 | 26.8 |



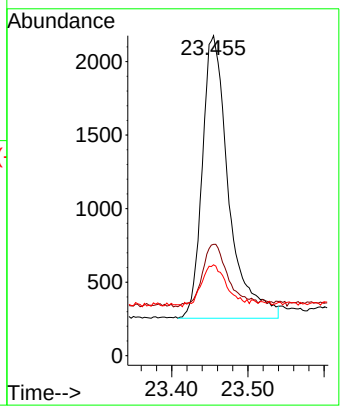


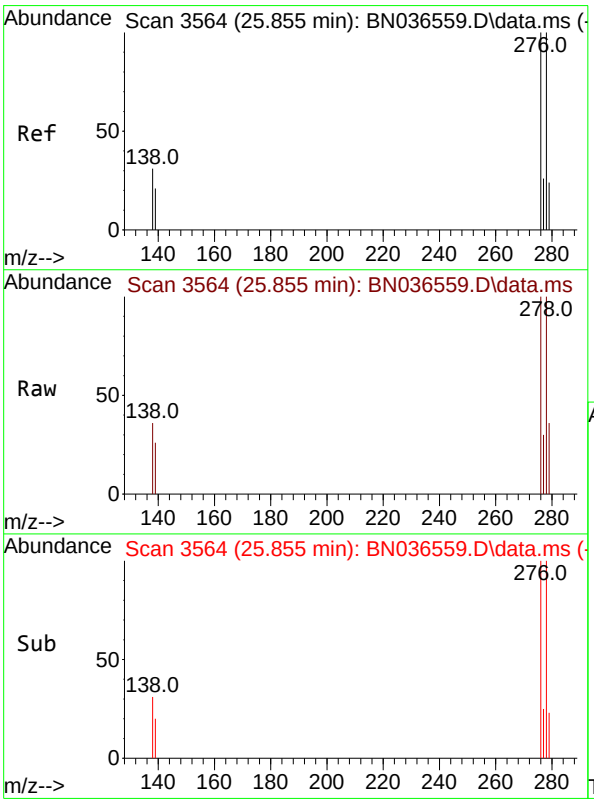

#39
Benzo(a)pyrene
Concen: 0.425 ng
RT: 23.455 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICCC0.4

Tgt Ion:252 Resp: 4612

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 34.8 | 27.8 | 41.8 |
| 125 | 28.4 | 22.7 | 34.1 |

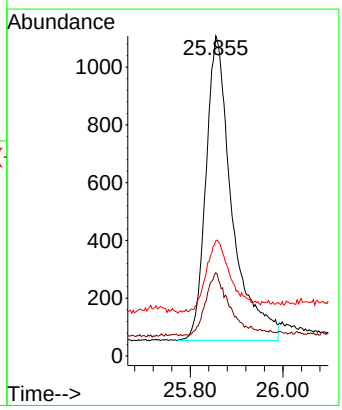


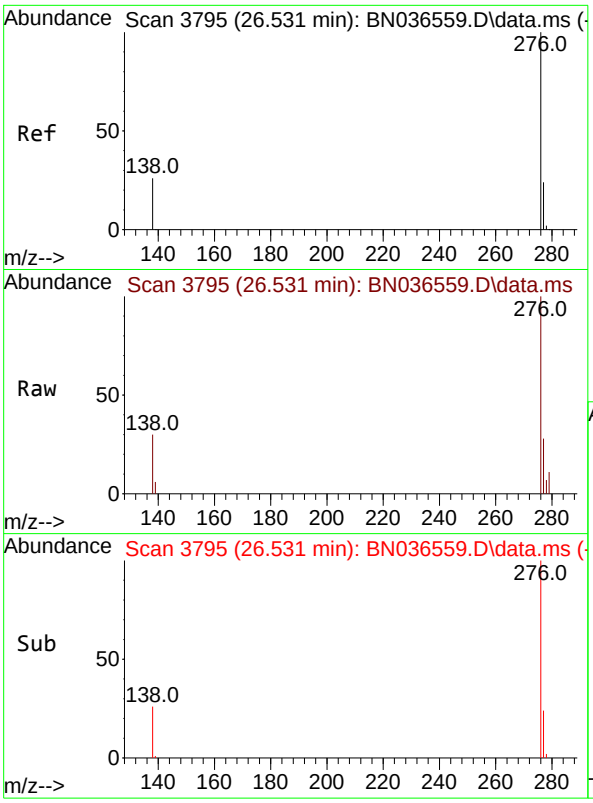




#40
Dibenzo(a,h)anthracene
Concen: 0.414 ng
RT: 25.855 min Scan# 3564
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Tgt Ion:278 Resp: 4117

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 26.0 | 20.8 | 31.2 |
| 279 | 36.0 | 28.8 | 43.2 |



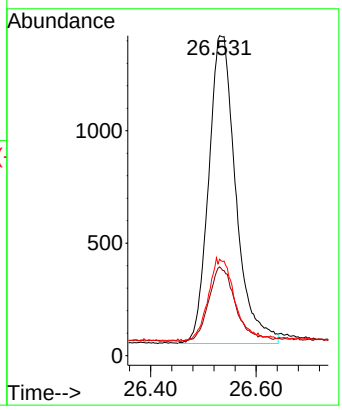



#41
Benzo(g,h,i)perylene
Concen: 0.430 ng
RT: 26.531 min Scan# 3
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICCC0.4

Tgt Ion:276 Resp: 4891

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 27.8 | 22.2 | 33.4 |
| 138 | 30.1 | 24.1 | 36.1 |



Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036560.D
Acq On : 10 Mar 2025 13:31
Operator : RC/JU
Sample : SSTDICC0.8
Misc :
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.8

Quant Time: Mar 10 16:01:54 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:54:23 2025
Response via : Initial Calibration

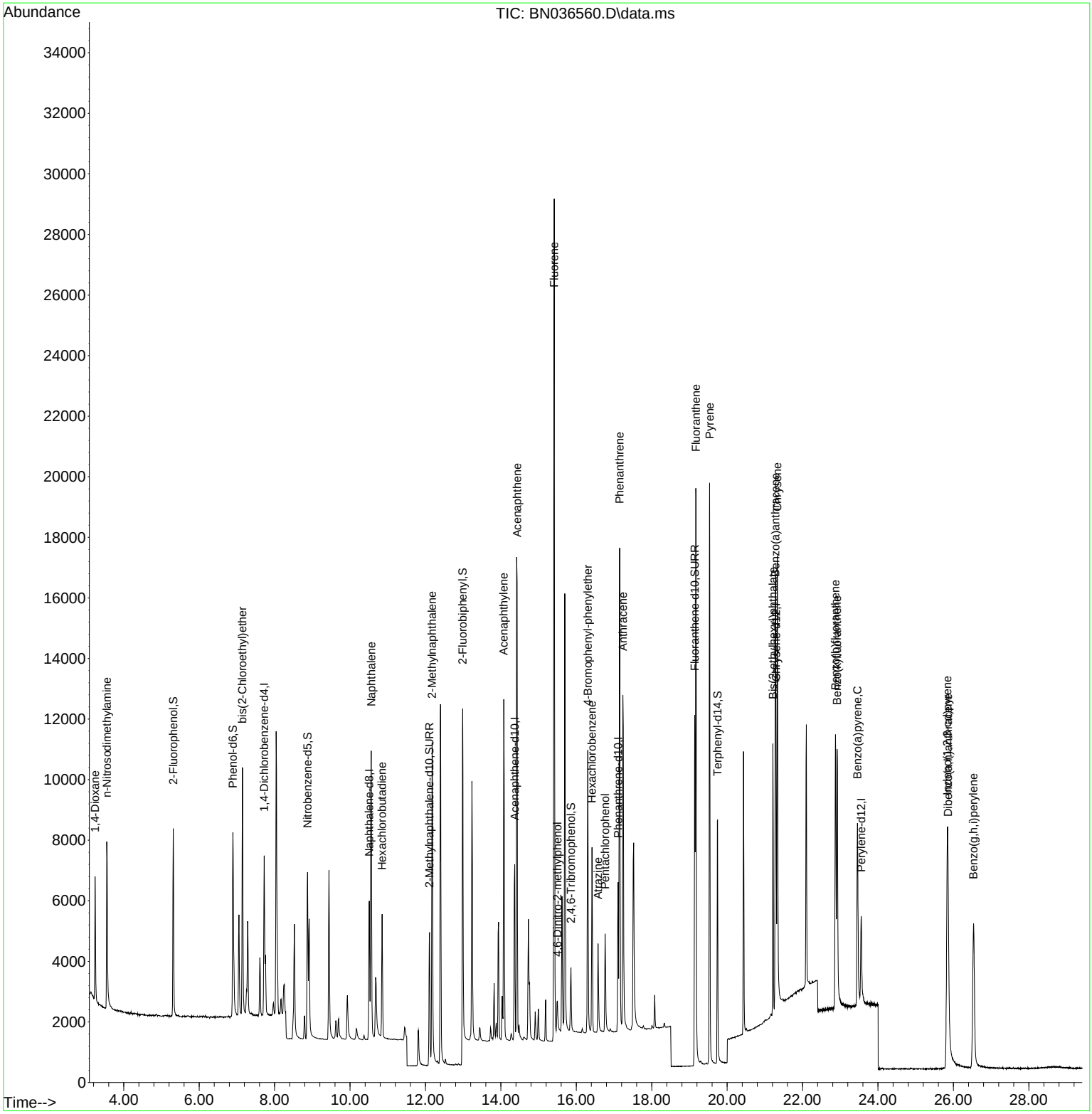
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.724 | 152 | 2495 | 0.400 | ng | | 0.00 |
| 7) Naphthalene-d8 | 10.509 | 136 | 5884 | 0.400 | ng | | 0.00 |
| 13) Acenaphthene-d10 | 14.366 | 164 | 3456 | 0.400 | ng | | 0.00 |
| 19) Phenanthrene-d10 | 17.111 | 188 | 6971 | 0.400 | ng | | 0.00 |
| 29) Chrysene-d12 | 21.295 | 240 | 4636 | 0.400 | ng | | 0.00 |
| 35) Perylene-d12 | 23.554 | 264 | 4198 | 0.400 | ng | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 4) 2-Fluorophenol | 5.312 | 112 | 4381 | 0.753 | ng | | 0.00 |
| 5) Phenol-d6 | 6.894 | 99 | 5324 | 0.741 | ng | | 0.00 |
| 8) Nitrobenzene-d5 | 8.875 | 82 | 4717 | 0.737 | ng | | 0.00 |
| 11) 2-Methylnaphthalene-d10 | 12.106 | 152 | 6616 | 0.756 | ng | | 0.00 |
| 14) 2,4,6-Tribromophenol | 15.858 | 330 | 1166 | 0.744 | ng | | 0.00 |
| 15) 2-Fluorobiphenyl | 12.988 | 172 | 16243 | 0.808 | ng | | 0.00 |
| 27) Fluoranthene-d10 | 19.141 | 212 | 13330 | 0.746 | ng | | 0.00 |
| 31) Terphenyl-d14 | 19.745 | 244 | 8571 | 0.772 | ng | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.239 | 88 | 2251 | 0.813 | ng | | 99 |
| 3) n-Nitrosodimethylamine | 3.550 | 42 | 4197 | 0.750 | ng | | 96 |
| 6) bis(2-Chloroethyl)ether | 7.147 | 93 | 5632 | 0.759 | ng | | 99 |
| 9) Naphthalene | 10.562 | 128 | 13078 | 0.756 | ng | | 98 |
| 10) Hexachlorobutadiene | 10.851 | 225 | 3147 | 0.772 | ng | # | 99 |
| 12) 2-Methylnaphthalene | 12.177 | 142 | 8272 | 0.751 | ng | | 98 |
| 16) Acenaphthylene | 14.078 | 152 | 12403 | 0.760 | ng | | 100 |
| 17) Acenaphthene | 14.430 | 154 | 8096 | 0.758 | ng | | 99 |
| 18) Fluorene | 15.414 | 166 | 11120 | 0.770 | ng | | 100 |
| 20) 4,6-Dinitro-2-methylph... | 15.499 | 198 | 1039 | 0.724 | ng | # | 59 |
| 21) 4-Bromophenyl-phenylether | 16.305 | 248 | 3324 | 0.761 | ng | | 93 |
| 22) Hexachlorobenzene | 16.416 | 284 | 4115 | 0.780 | ng | | 99 |
| 23) Atrazine | 16.578 | 200 | 2677 | 0.764 | ng | | 94 |
| 24) Pentachlorophenol | 16.764 | 266 | 1701 | 0.707 | ng | | 98 |
| 25) Phenanthrene | 17.149 | 178 | 15910 | 0.761 | ng | | 99 |
| 26) Anthracene | 17.236 | 178 | 14403 | 0.763 | ng | | 99 |
| 28) Fluoranthene | 19.174 | 202 | 17738 | 0.755 | ng | | 99 |
| 30) Pyrene | 19.536 | 202 | 17714 | 0.781 | ng | | 100 |
| 32) Benzo(a)anthracene | 21.277 | 228 | 12089 | 0.750 | ng | | 98 |
| 33) Chrysene | 21.331 | 228 | 13974 | 0.793 | ng | | 100 |
| 34) Bis(2-ethylhexyl)phtha... | 21.214 | 149 | 8021 | 0.699 | ng | # | 99 |
| 36) Indeno(1,2,3-cd)pyrene | 25.838 | 276 | 11785 | 0.778 | ng | | 99 |
| 37) Benzo(b)fluoranthene | 22.873 | 252 | 11771 | 0.770 | ng | # | 91 |
| 38) Benzo(k)fluoranthene | 22.917 | 252 | 12432 | 0.776 | ng | # | 90 |
| 39) Benzo(a)pyrene | 23.455 | 252 | 10036 | 0.780 | ng | # | 87 |
| 40) Dibenzo(a,h)anthracene | 25.858 | 278 | 9450 | 0.801 | ng | | 91 |
| 41) Benzo(g,h,i)perylene | 26.534 | 276 | 10494 | 0.778 | ng | | 96 |

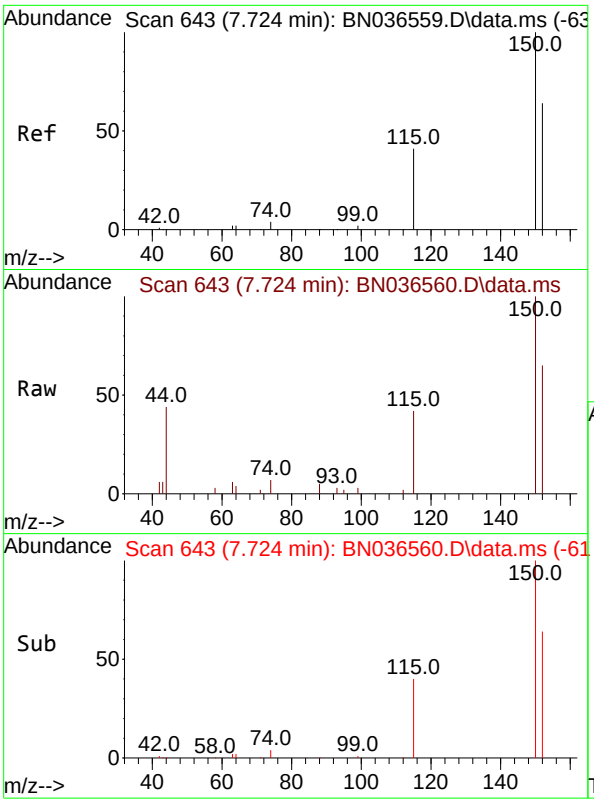
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036560.D
Acq On : 10 Mar 2025 13:31
Operator : RC/JU
Sample : SSTDICC0.8
Misc :
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.8

Quant Time: Mar 10 16:01:54 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:54:23 2025
Response via : Initial Calibration



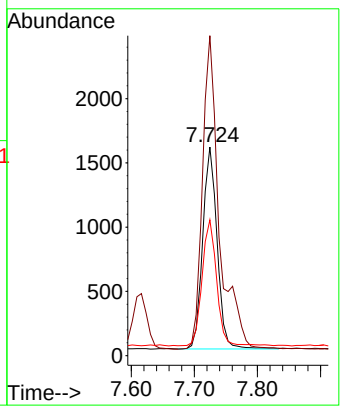


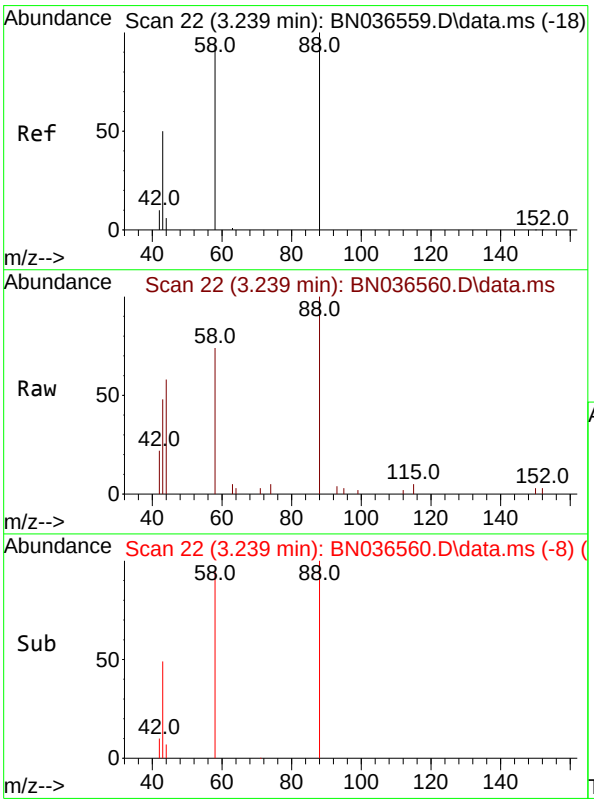

#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.8

Tgt Ion:152 Resp: 2495

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 153.3 | 123.7 | 185.5 |
| 115 | 65.1 | 54.3 | 81.5 |

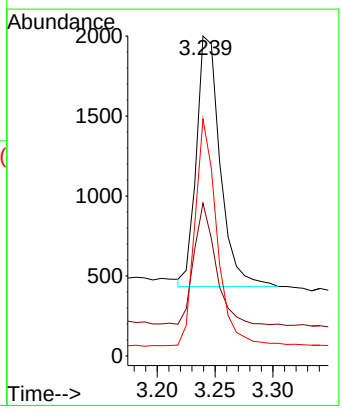


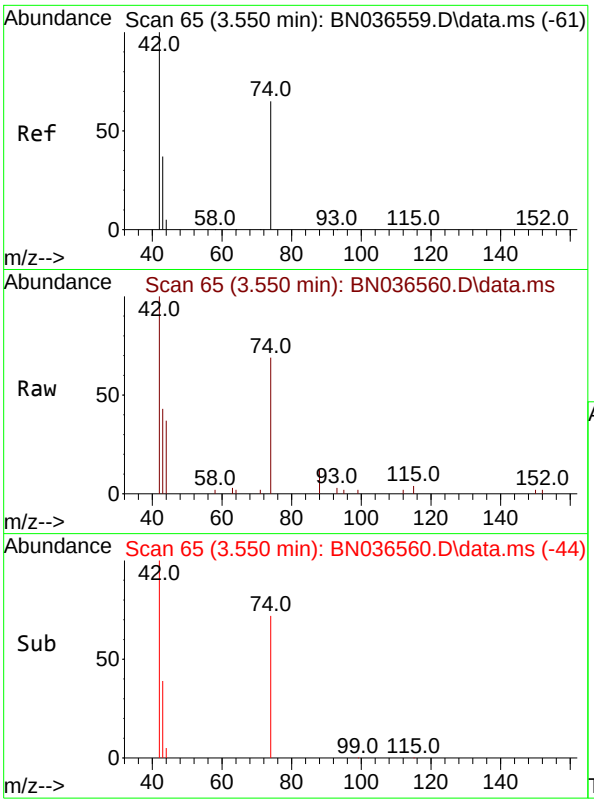




#2
1,4-Dioxane
Concen: 0.813 ng
RT: 3.239 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Tgt Ion: 88 Resp: 2251

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 45.6 | 37.8 | 56.8 |
| 58 | 84.5 | 67.4 | 101.2 |



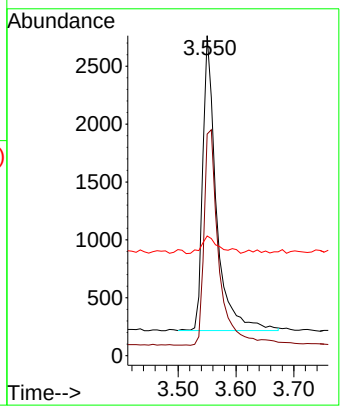


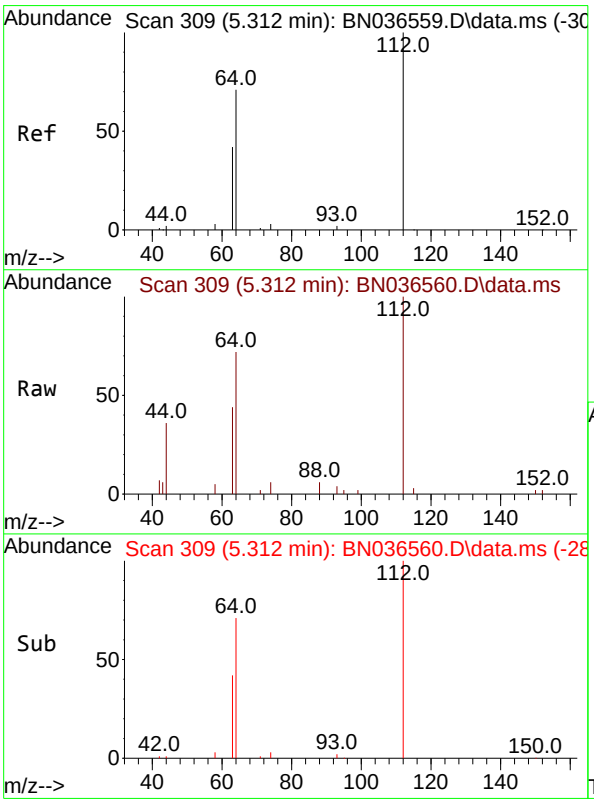

#3
n-Nitrosodimethylamine
Concen: 0.750 ng
RT: 3.550 min Scan# 6
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.8

Tgt Ion: 42 Resp: 4197

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 79.3 | 60.6 | 90.8 |
| 44 | 7.4 | 6.3 | 9.5 |

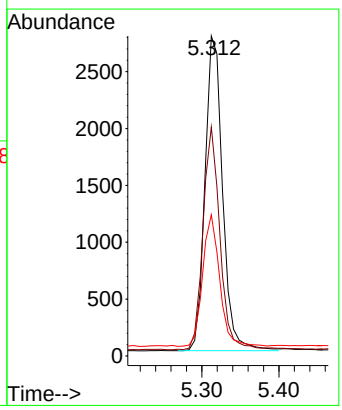


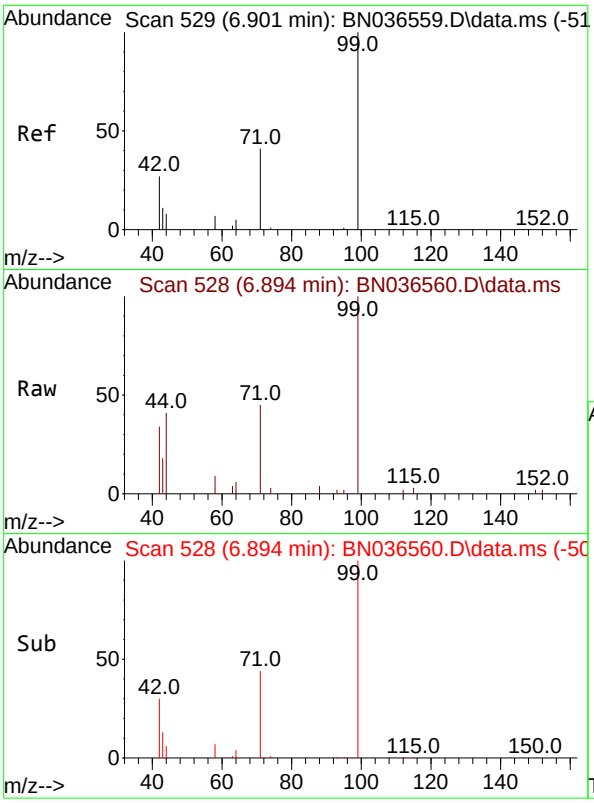




#4
2-Fluorophenol
Concen: 0.753 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Tgt Ion:112 Resp: 4381

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 68.8 | 53.1 | 79.7 |
| 63 | 40.4 | 31.8 | 47.8 |



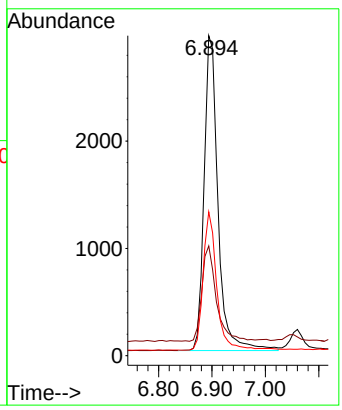


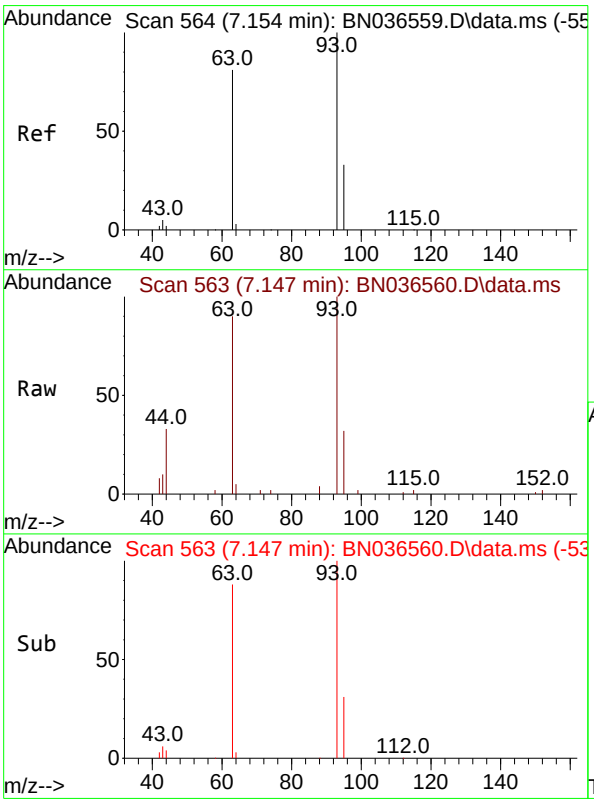

#5
Phenol-d6
Concen: 0.741 ng
RT: 6.894 min Scan# 5
Delta R.T. -0.007 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.8

Tgt Ion: 99 Resp: 5324

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 31.3 | 26.5 | 39.7 |
| 71 | 42.6 | 34.1 | 51.1 |

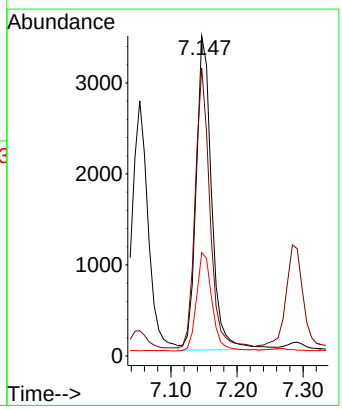


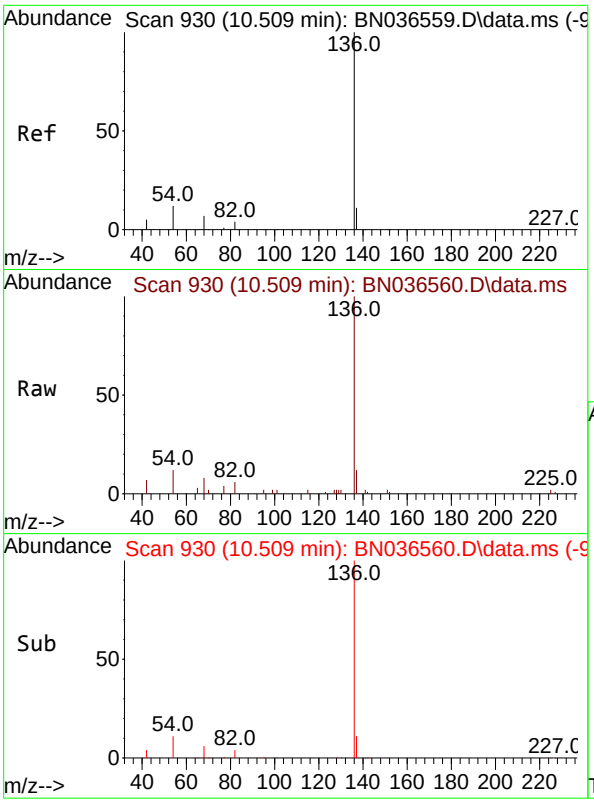




#6
bis(2-Chloroethyl)ether
Concen: 0.759 ng
RT: 7.147 min Scan# 563
Delta R.T. -0.007 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Tgt Ion: 93 Resp: 5632

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 84.0 | 67.7 | 101.5 |
| 95 | 31.6 | 25.6 | 38.4 |



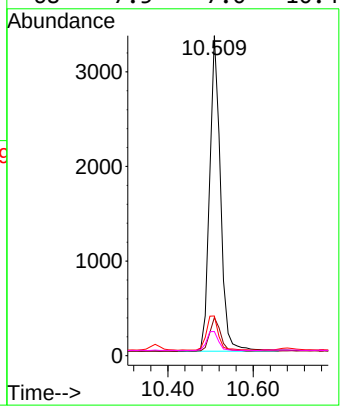


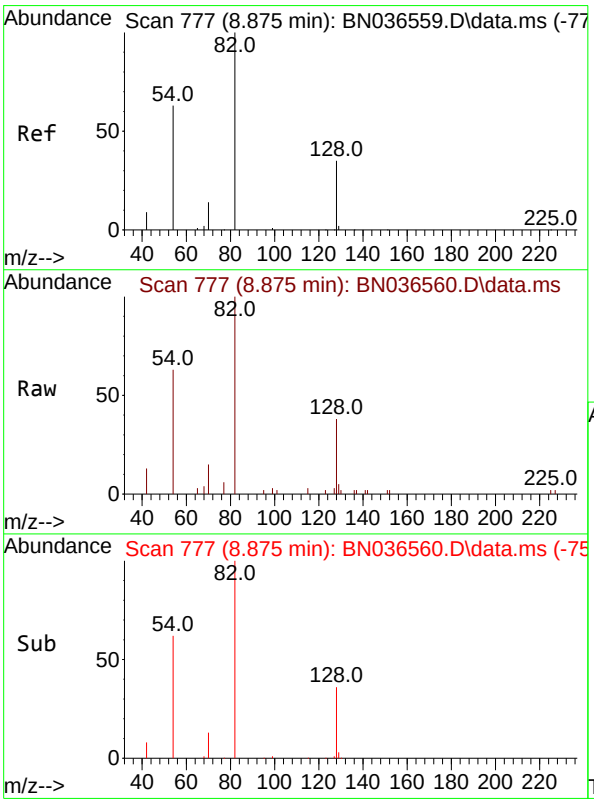

#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.8

Tgt Ion:136 Resp: 5884

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.9 | 10.3 | 15.5 |
| 54 | 12.4 | 11.5 | 17.3 |
| 68 | 7.5 | 7.0 | 10.4 |

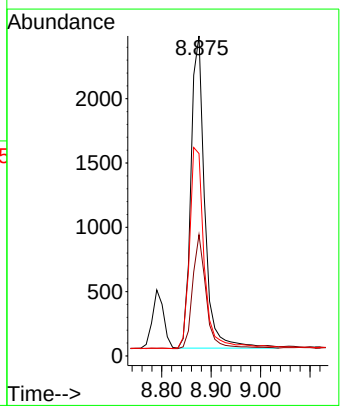


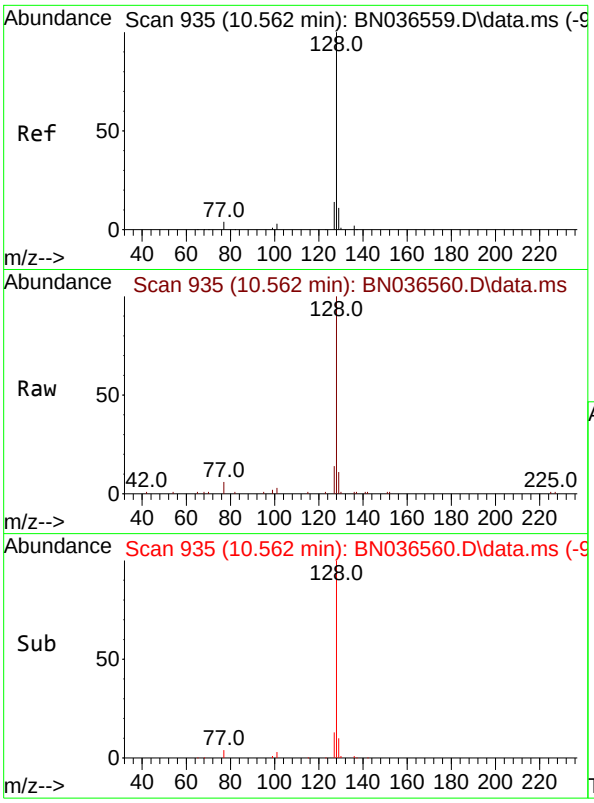




#8
Nitrobenzene-d5
Concen: 0.737 ng
RT: 8.875 min Scan# 777
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Tgt Ion: 82 Resp: 4717

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 37.9 | 30.6 | 45.8 |
| 54 | 63.2 | 52.2 | 78.4 |



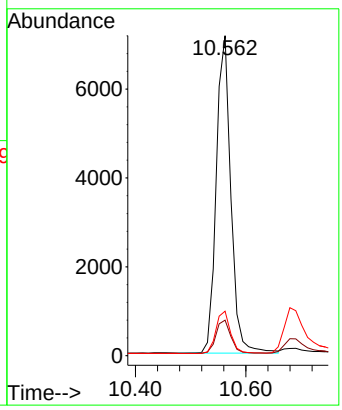


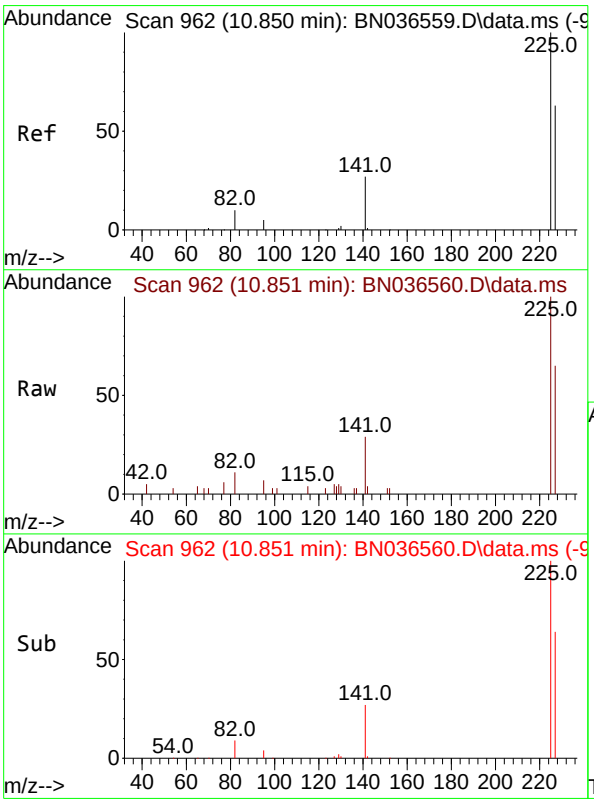

#9
Naphthalene
Concen: 0.756 ng
RT: 10.562 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.8

Tgt Ion:128 Resp: 13078

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 11.1 | 9.8 | 14.6 |
| 127 | 13.9 | 11.8 | 17.8 |

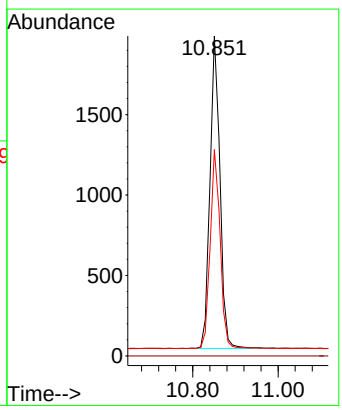


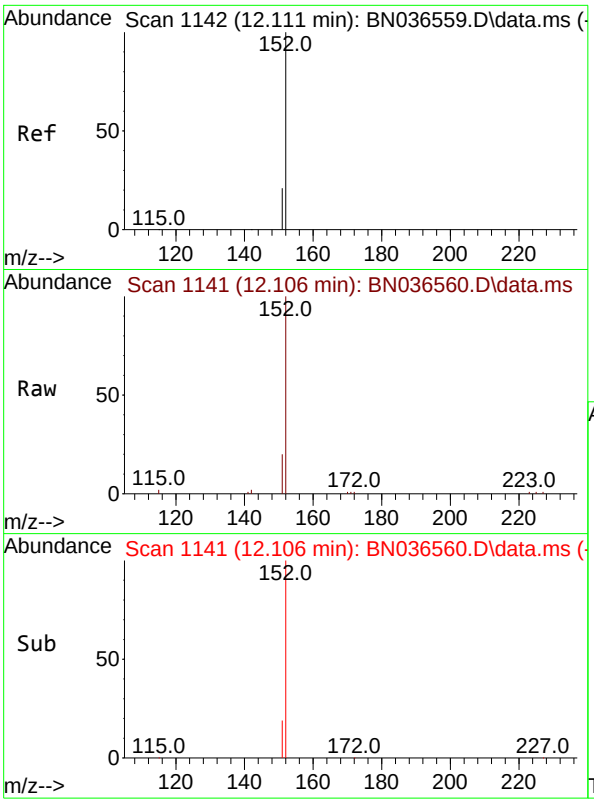




#10
Hexachlorobutadiene
Concen: 0.772 ng
RT: 10.851 min Scan# 962
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Tgt Ion:225 Resp: 3147

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 0.0 | 0.0 | 0.0 |
| 227 | 63.7 | 51.8 | 77.8 |



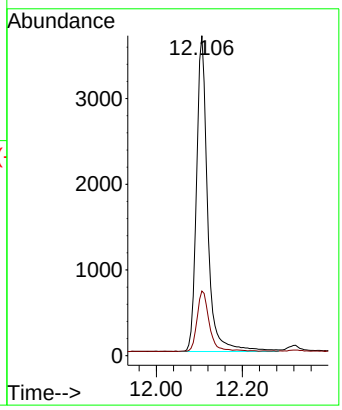


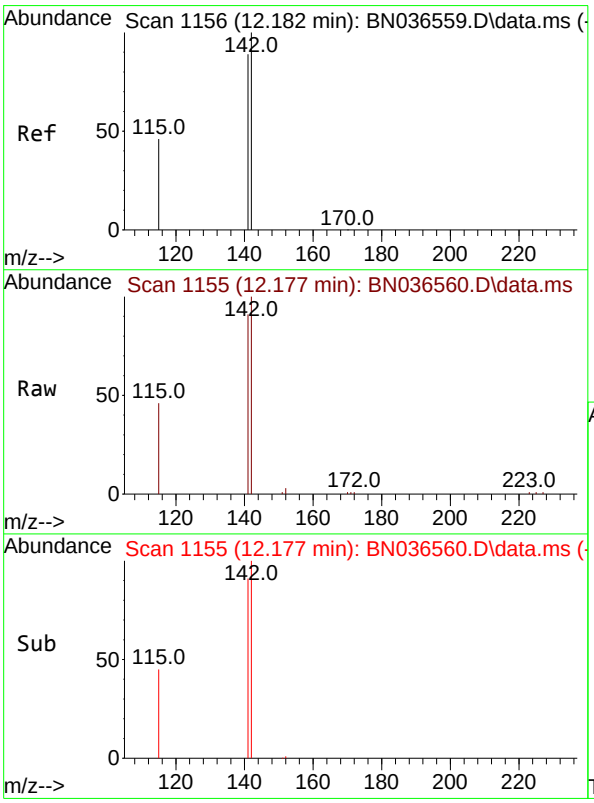

#11
2-Methylnaphthalene-d10
Concen: 0.756 ng
RT: 12.106 min Scan# 11
Delta R.T. -0.005 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.8

Tgt Ion:152 Resp: 6616

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.8 | 17.0 | 25.6 |

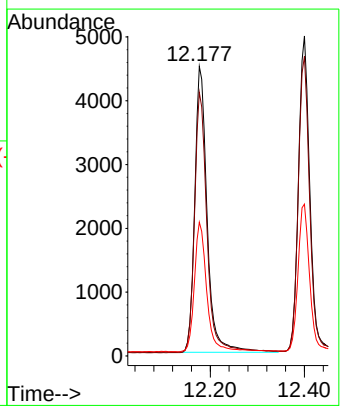


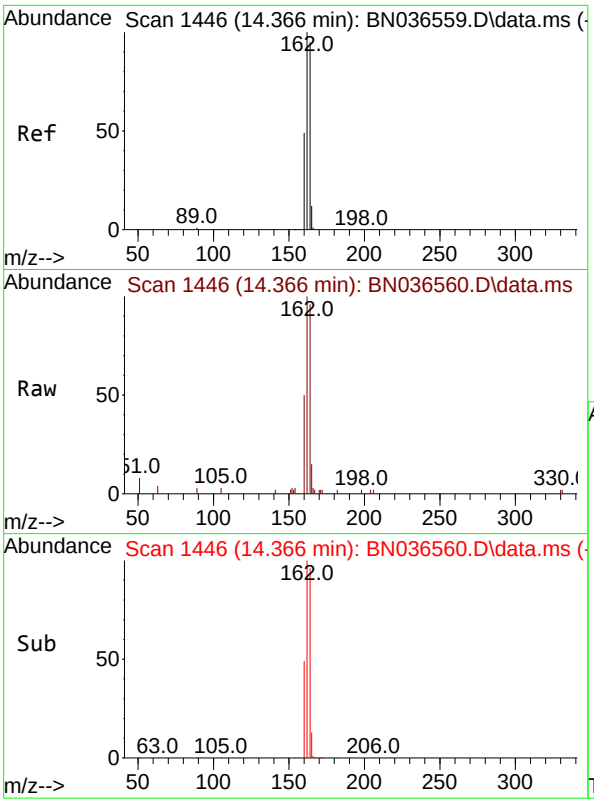




#12
2-Methylnaphthalene
Concen: 0.751 ng
RT: 12.177 min Scan# 1155
Delta R.T. -0.005 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Tgt Ion:142 Resp: 8272

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 91.0 | 71.7 | 107.5 |
| 115 | 46.2 | 38.3 | 57.5 |



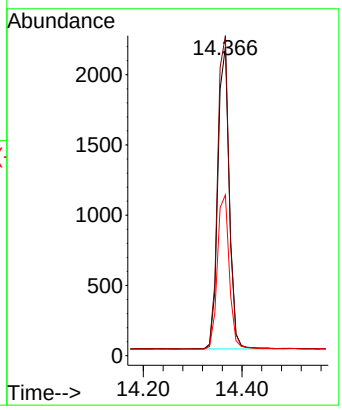


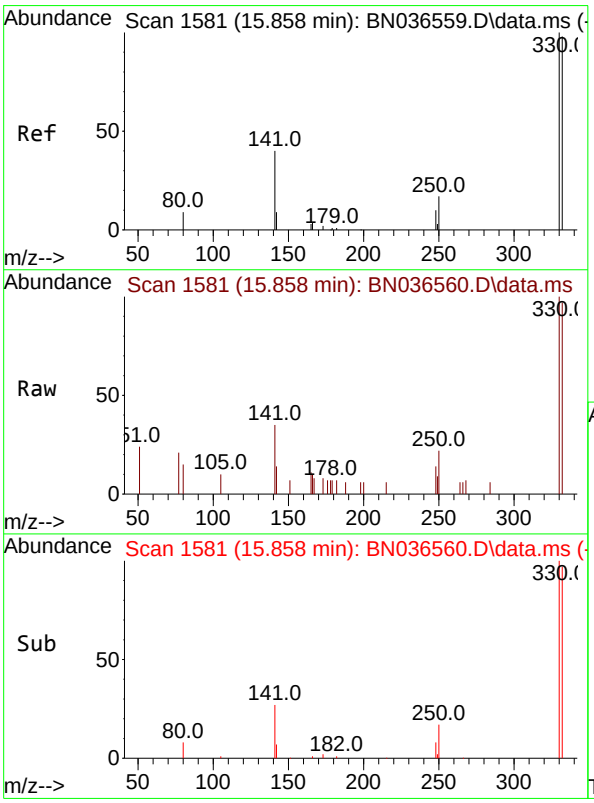

#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.8

Tgt Ion:164 Resp: 3456

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 103.6 | 84.2 | 126.2 |
| 160 | 52.1 | 42.2 | 63.2 |

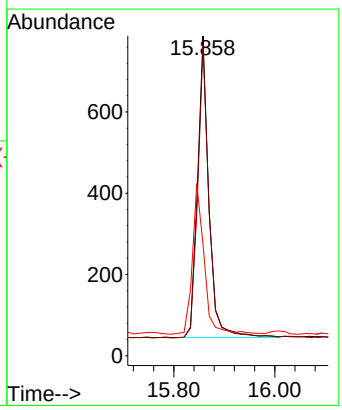


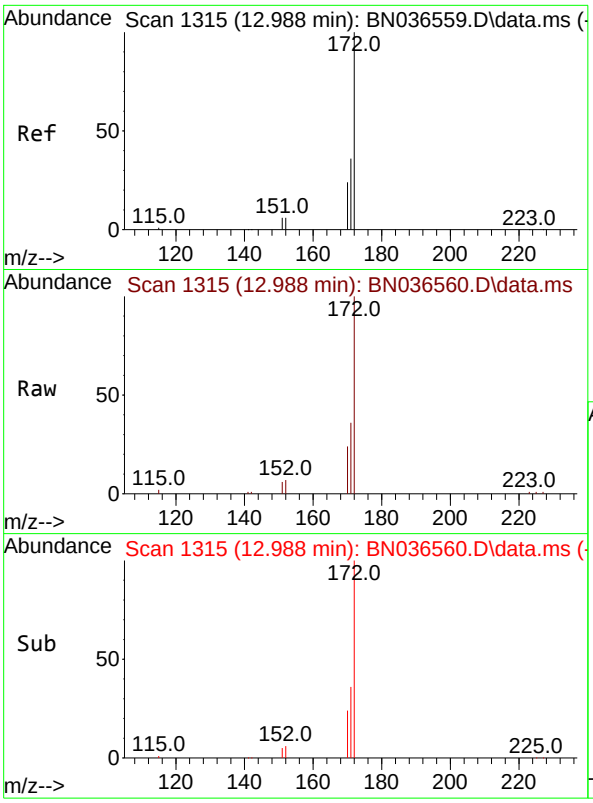




#14
2,4,6-Tribromophenol
Concen: 0.744 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Tgt Ion:330 Resp: 1166

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 97.6 | 75.2 | 112.8 |
| 141 | 51.8 | 43.4 | 65.2 |



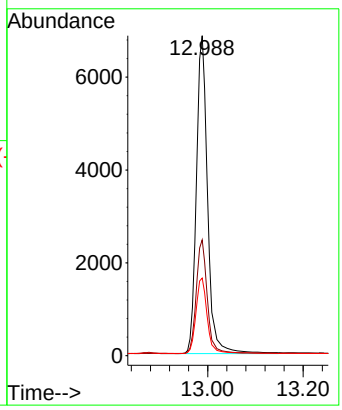


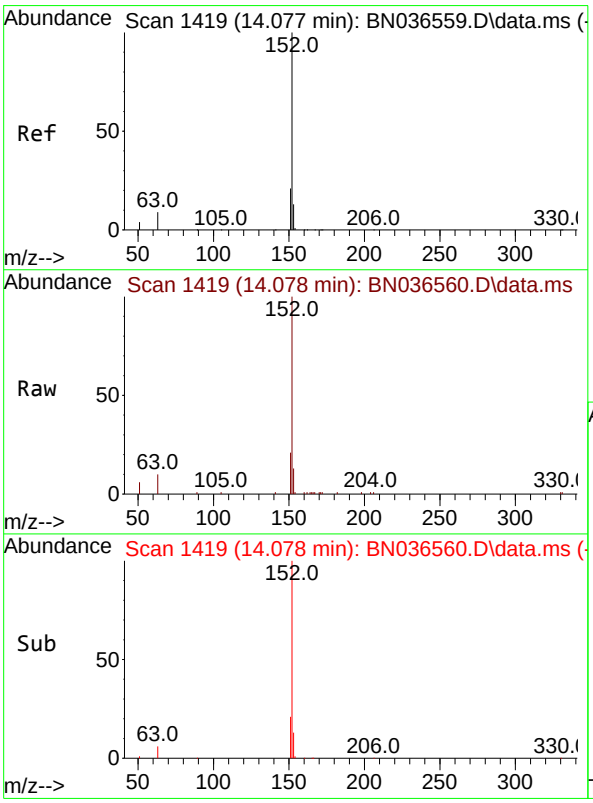

#15
2-Fluorobiphenyl
Concen: 0.808 ng
RT: 12.988 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.8

Tgt Ion:172 Resp: 16243

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 36.2 | 29.5 | 44.3 |
| 170 | 24.3 | 20.2 | 30.4 |

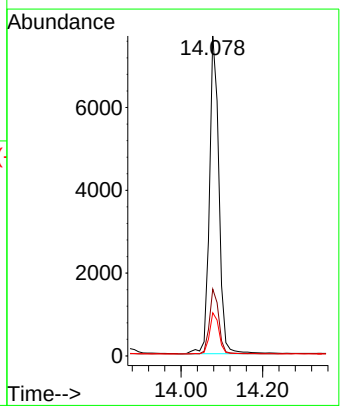


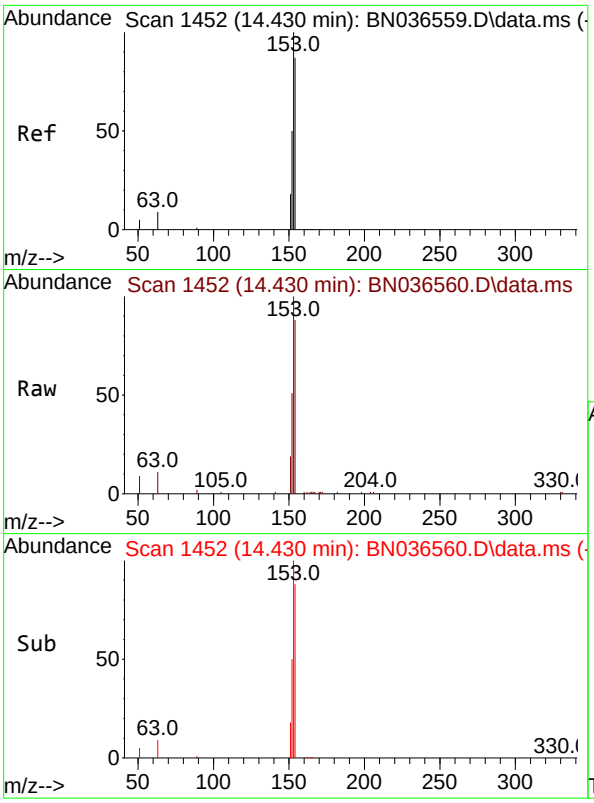




#16
Acenaphthylene
Concen: 0.760 ng
RT: 14.078 min Scan# 1419
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Tgt Ion:152 Resp: 12403

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.1 | 16.2 | 24.4 |
| 153 | 13.1 | 10.6 | 15.8 |



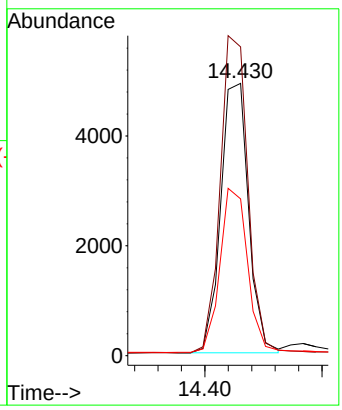


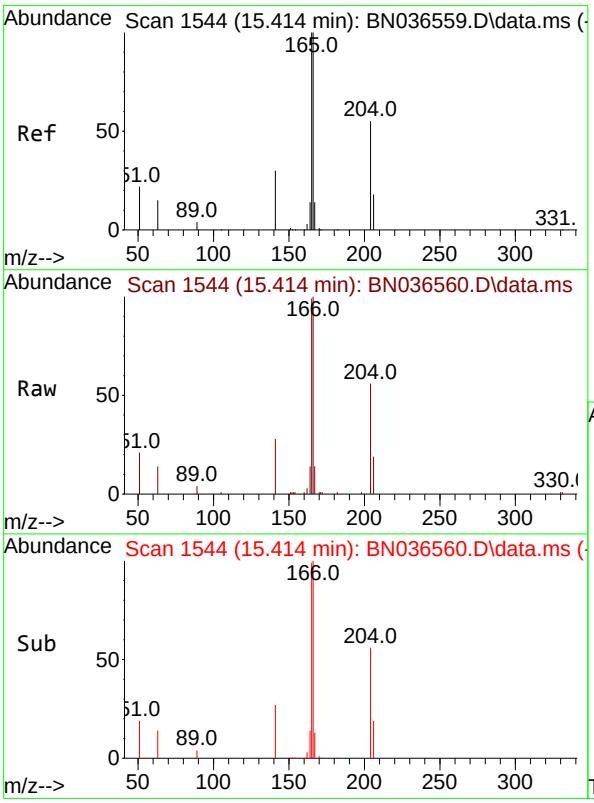

#17
Acenaphthene
Concen: 0.758 ng
RT: 14.430 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.8

Tgt Ion:154 Resp: 8096

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 117.8 | 94.1 | 141.1 |
| 152 | 60.9 | 49.8 | 74.6 |

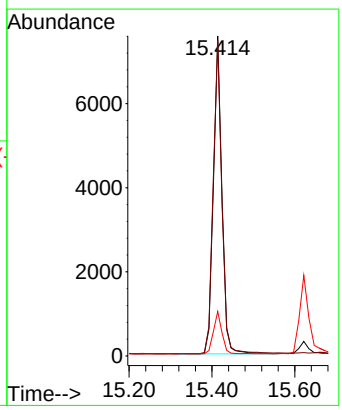


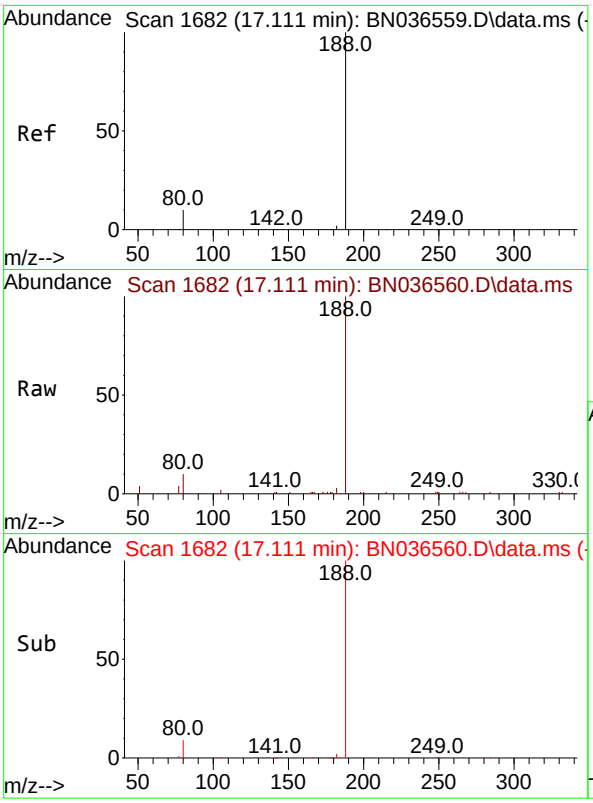




#18
Fluorene
Concen: 0.770 ng
RT: 15.414 min Scan# 1544
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Tgt Ion:166 Resp: 11120

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 99.8 | 79.8 | 119.8 |
| 167 | 13.3 | 10.6 | 15.8 |



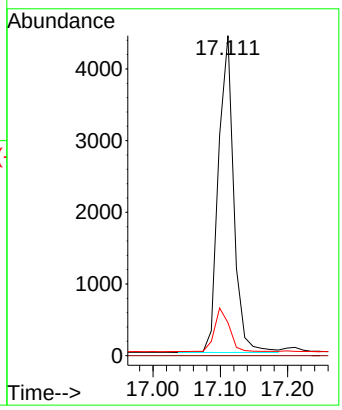


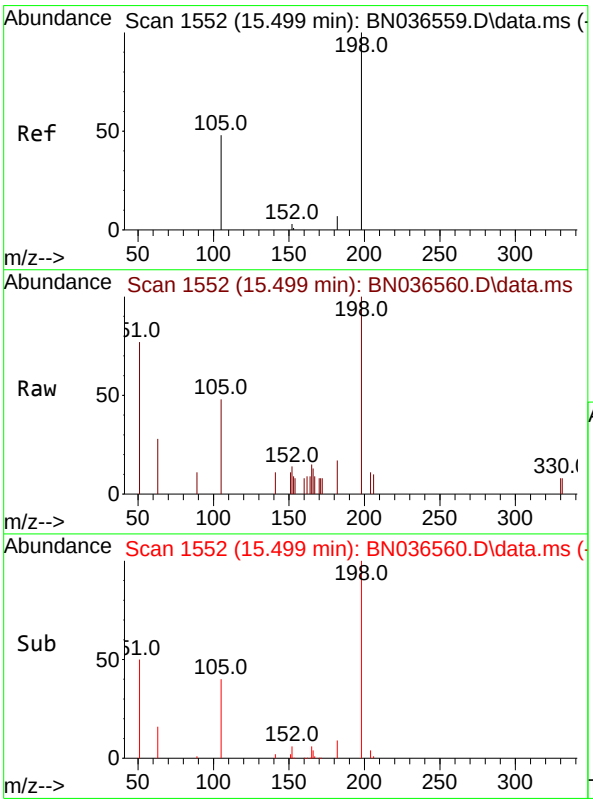

#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.111 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.8

Tgt Ion:188 Resp: 6971

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 10.3 | 8.8 | 13.2 |

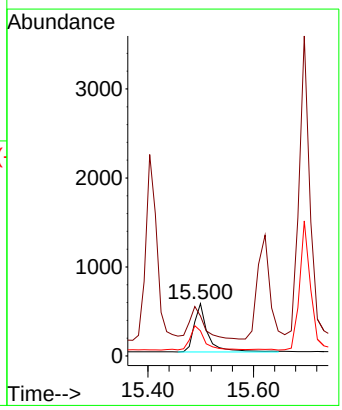


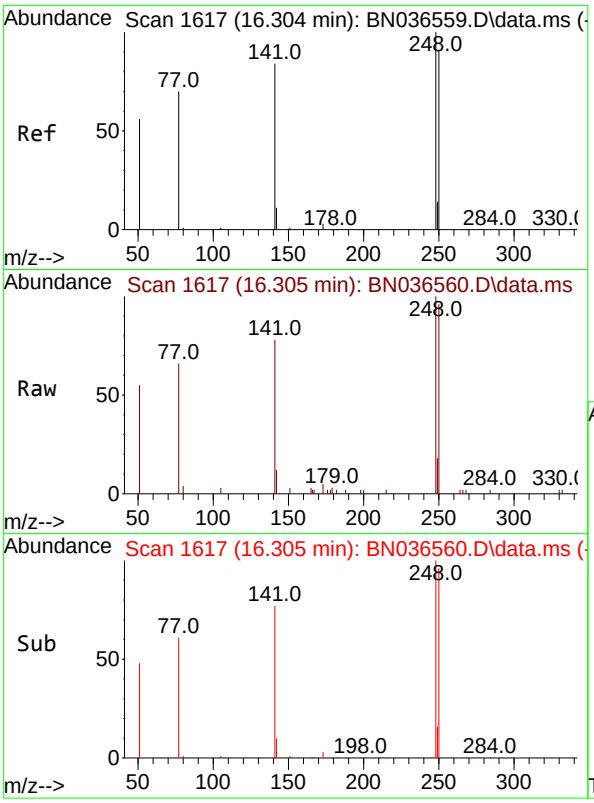




#20
4,6-Dinitro-2-methylphenol
Concen: 0.724 ng
RT: 15.499 min Scan# 1552
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Tgt Ion:198 Resp: 1039

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 198 | 100 | | |
| 51 | 76.5 | 107.9 | 161.9# |
| 105 | 48.1 | 56.2 | 84.2# |



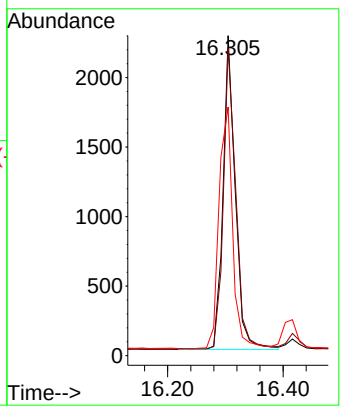


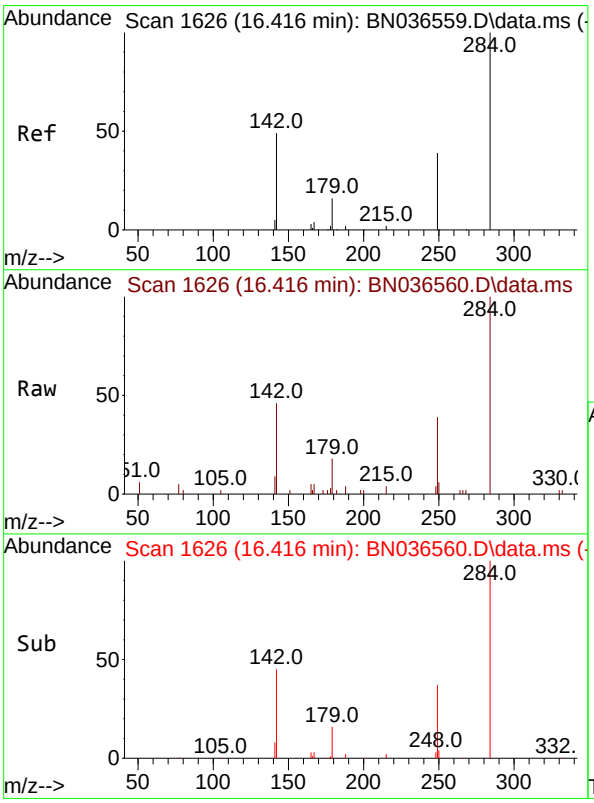

#21
4-Bromophenyl-phenylether
Concen: 0.761 ng
RT: 16.305 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.8

Tgt Ion:248 Resp: 3324

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 96.2 | 73.0 | 109.6 |
| 141 | 77.7 | 68.6 | 103.0 |

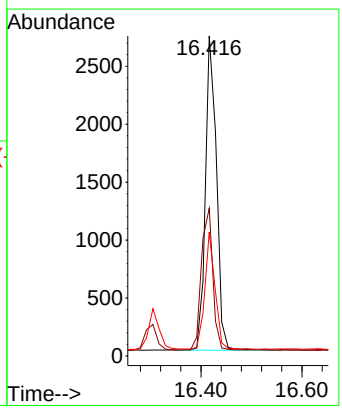


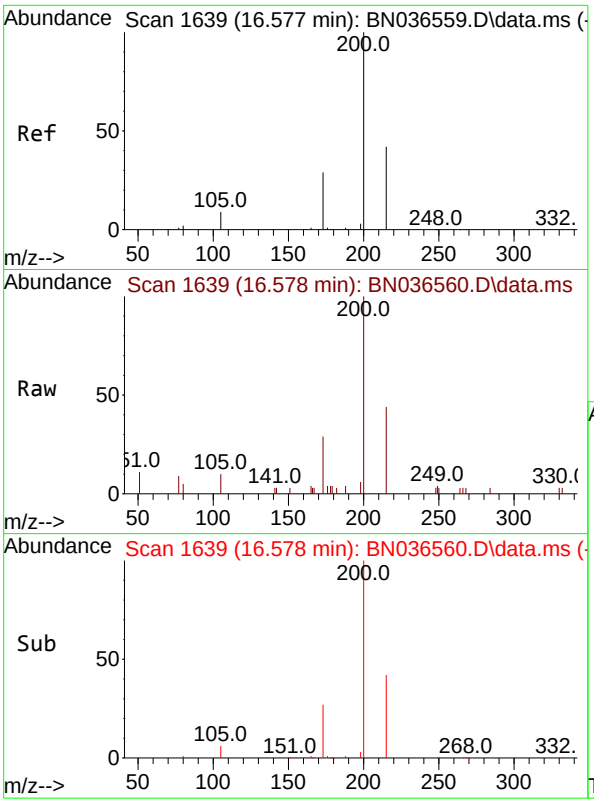




#22
Hexachlorobenzene
Concen: 0.780 ng
RT: 16.416 min Scan# 1626
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Tgt Ion:284 Resp: 4115

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 47.2 | 37.0 | 55.4 |
| 249 | 34.7 | 28.1 | 42.1 |



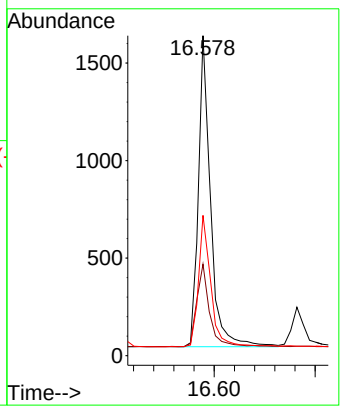


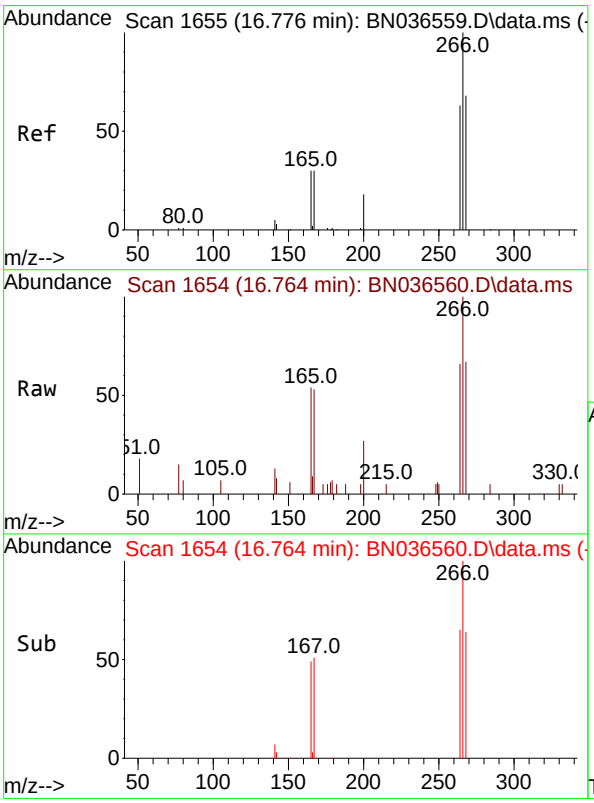

#23
Atrazine
Concen: 0.764 ng
RT: 16.578 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.8

Tgt Ion:200 Resp: 2677

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 173 | 28.6 | 27.3 | 40.9 |
| 215 | 43.8 | 36.8 | 55.2 |

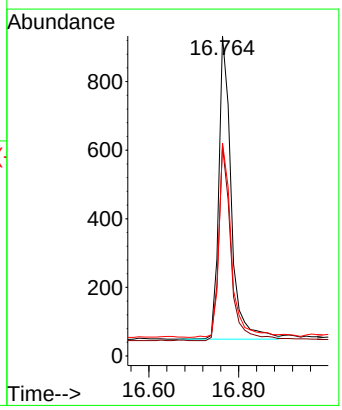


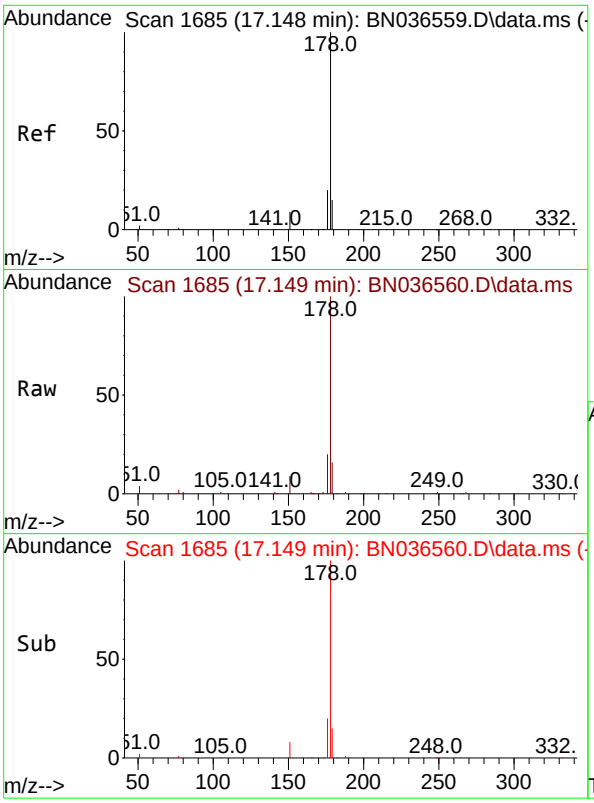




#24
Pentachlorophenol
Concen: 0.707 ng
RT: 16.764 min Scan# 1654
Delta R.T. -0.012 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Tgt Ion:266 Resp: 1701

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 264 | 63.5 | 49.6 | 74.4 |
| 268 | 65.1 | 50.9 | 76.3 |



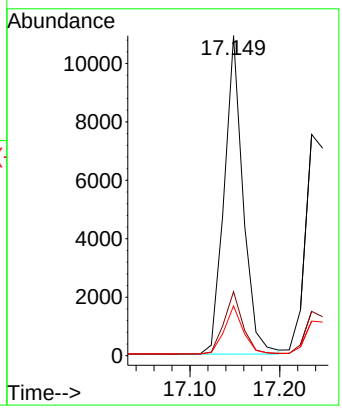


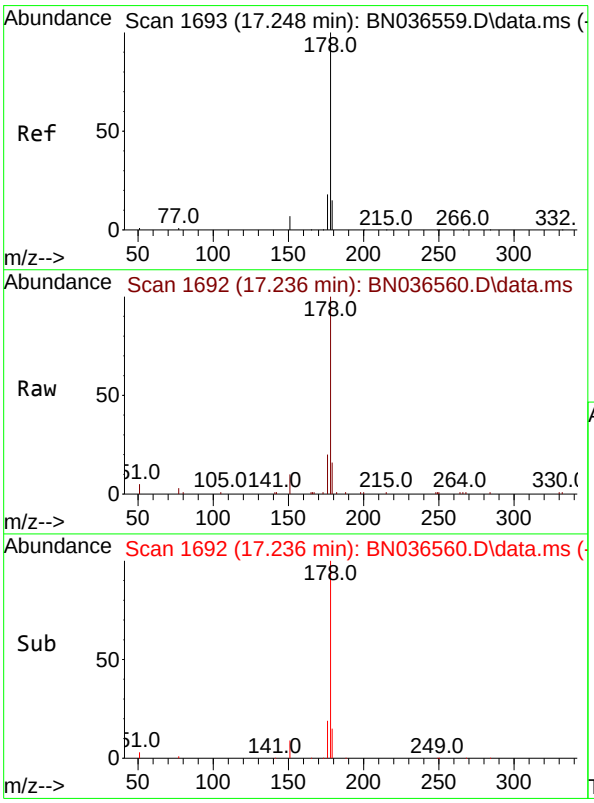

#25
Phenanthrene
Concen: 0.761 ng
RT: 17.149 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.8

Tgt Ion:178 Resp: 15910

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.6 | 15.9 | 23.9 |
| 179 | 15.1 | 12.2 | 18.4 |

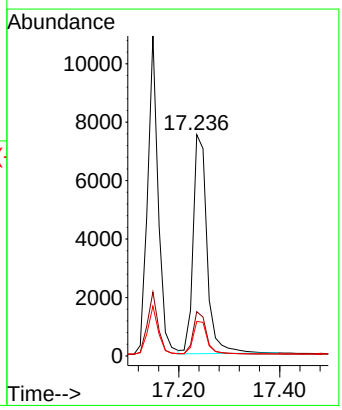


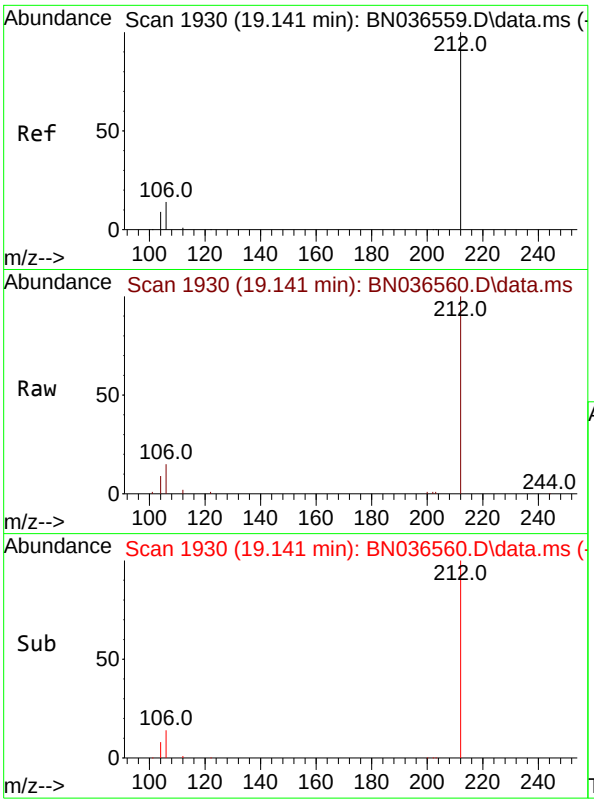




#26
Anthracene
Concen: 0.763 ng
RT: 17.236 min Scan# 1692
Delta R.T. -0.012 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Tgt Ion:178 Resp: 14403

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.8 | 15.4 | 23.2 |
| 179 | 15.1 | 12.6 | 18.8 |



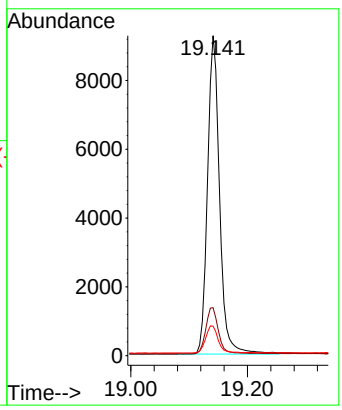


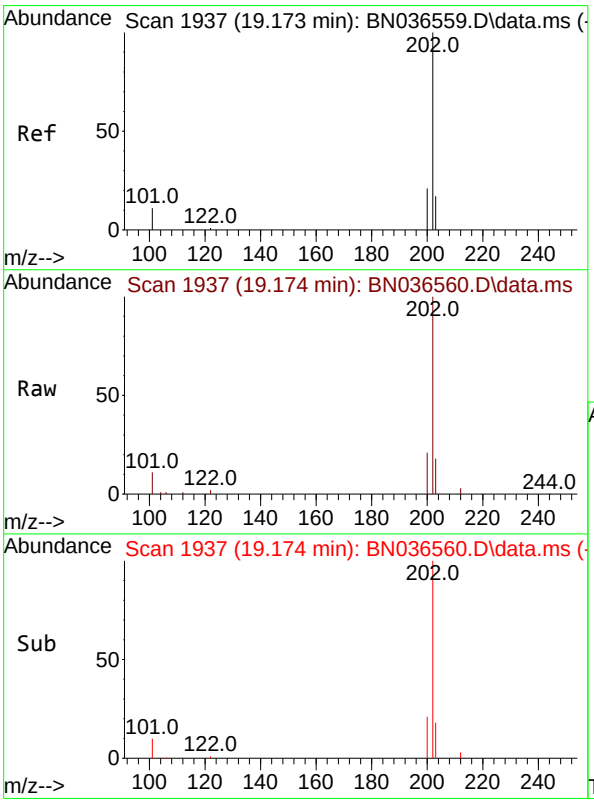

#27
Fluoranthene-d10
Concen: 0.746 ng
RT: 19.141 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.8

Tgt Ion:212 Resp: 13330

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 15.2 | 11.8 | 17.6 |
| 104 | 8.9 | 7.3 | 10.9 |

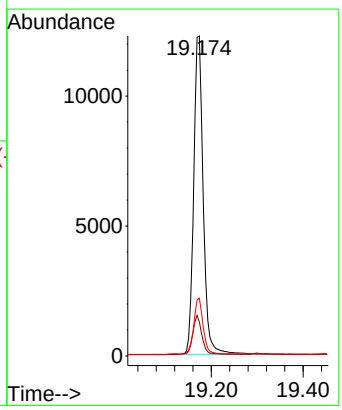


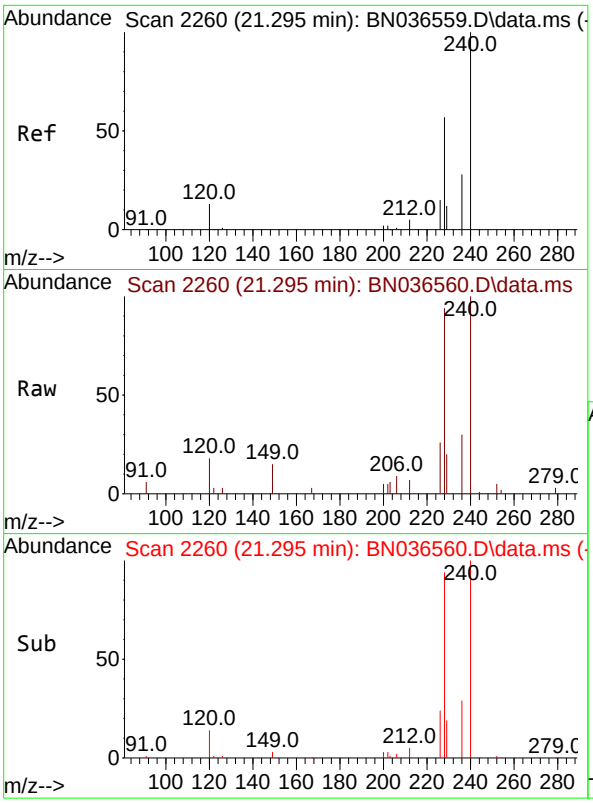




#28
Fluoranthene
Concen: 0.755 ng
RT: 19.174 min Scan# 1937
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Tgt Ion:202 Resp: 17738

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 12.1 | 9.4 | 14.0 |
| 203 | 17.0 | 13.5 | 20.3 |



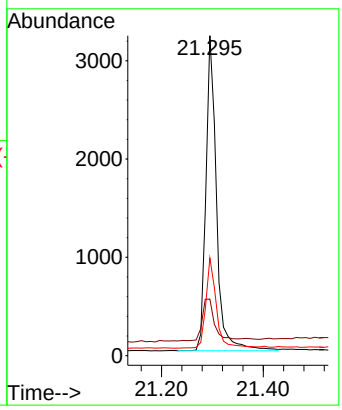


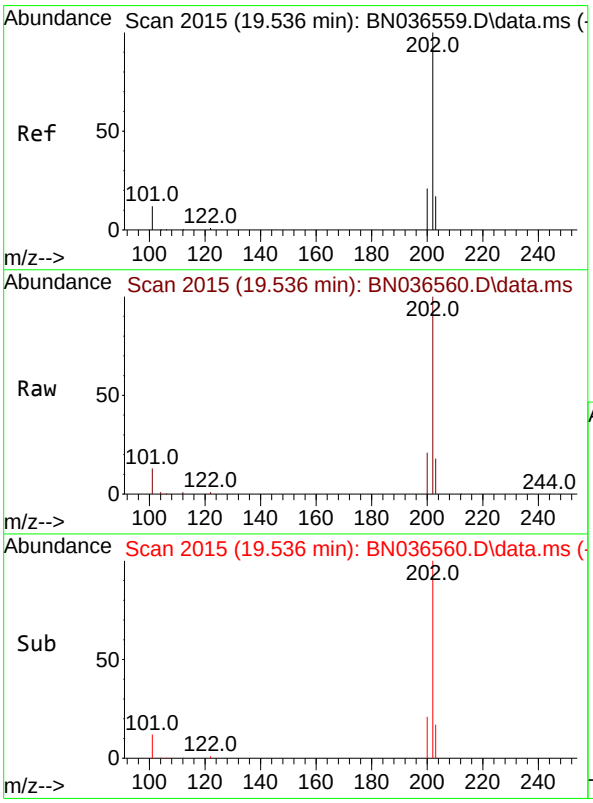

#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.8

Tgt Ion:240 Resp: 4636

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 17.7 | 14.6 | 22.0 |
| 236 | 30.5 | 24.1 | 36.1 |

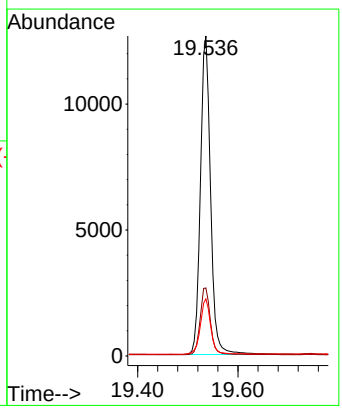


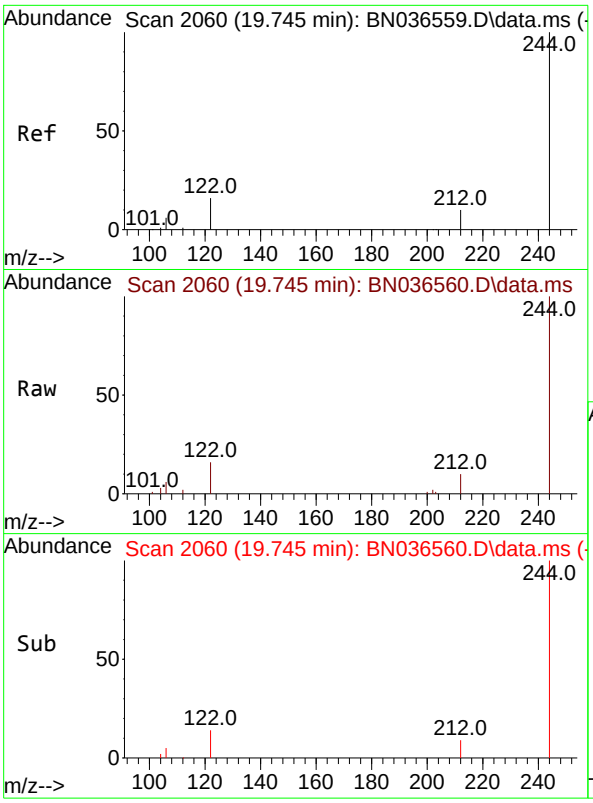




#30
Pyrene
Concen: 0.781 ng
RT: 19.536 min Scan# 2015
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Tgt Ion:202 Resp: 17714

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.4 | 17.1 | 25.7 |
| 203 | 17.5 | 14.1 | 21.1 |



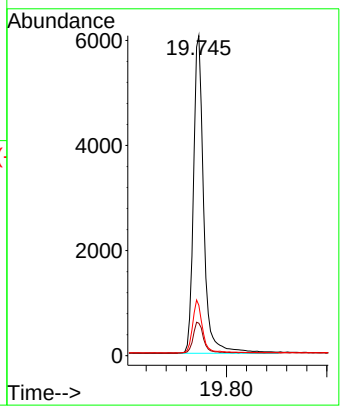


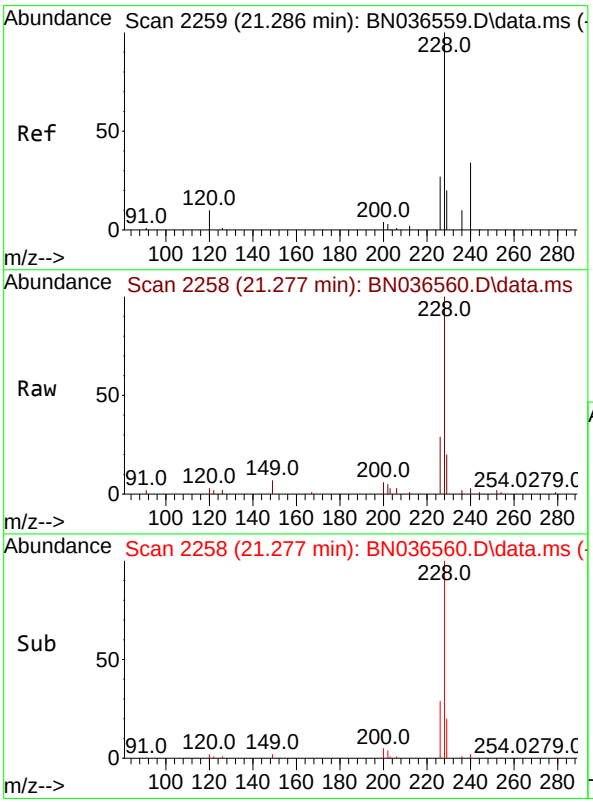

#31
Terphenyl-d14
Concen: 0.772 ng
RT: 19.745 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.8

Tgt Ion:244 Resp: 8571

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 10.1 | 9.6 | 14.4 |
| 122 | 15.8 | 13.9 | 20.9 |

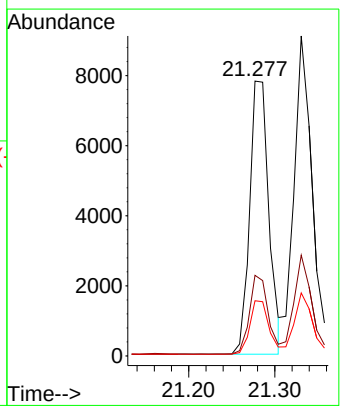


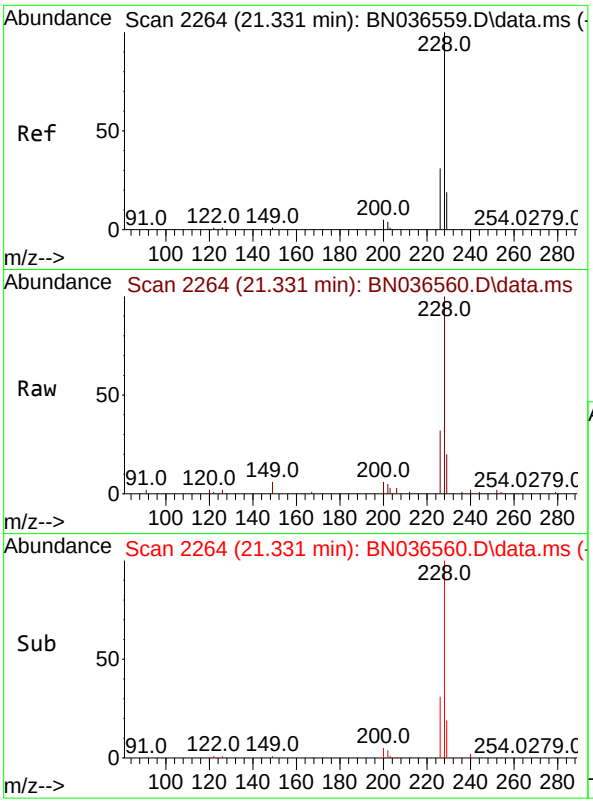




#32
Benzo(a)anthracene
Concen: 0.750 ng
RT: 21.277 min Scan# 2258
Delta R.T. -0.009 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Tgt Ion:228 Resp: 12089

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 29.3 | 22.5 | 33.7 |
| 229 | 20.1 | 16.6 | 25.0 |



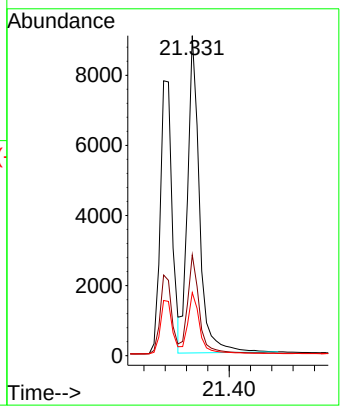


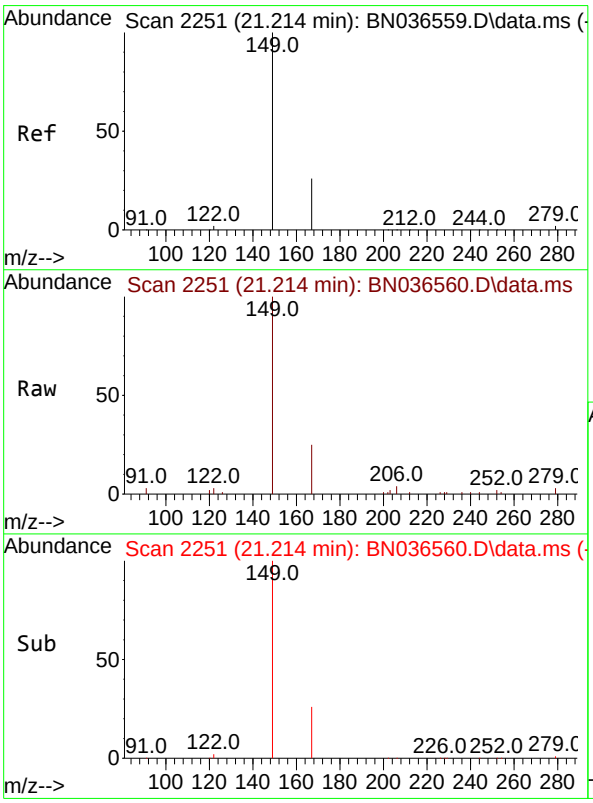

#33
Chrysene
Concen: 0.793 ng
RT: 21.331 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.8

Tgt Ion:228 Resp: 13974

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 31.5 | 25.3 | 37.9 |
| 229 | 19.7 | 15.8 | 23.8 |

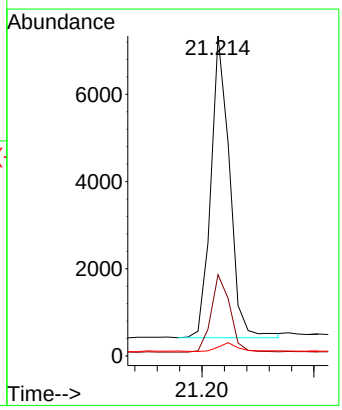


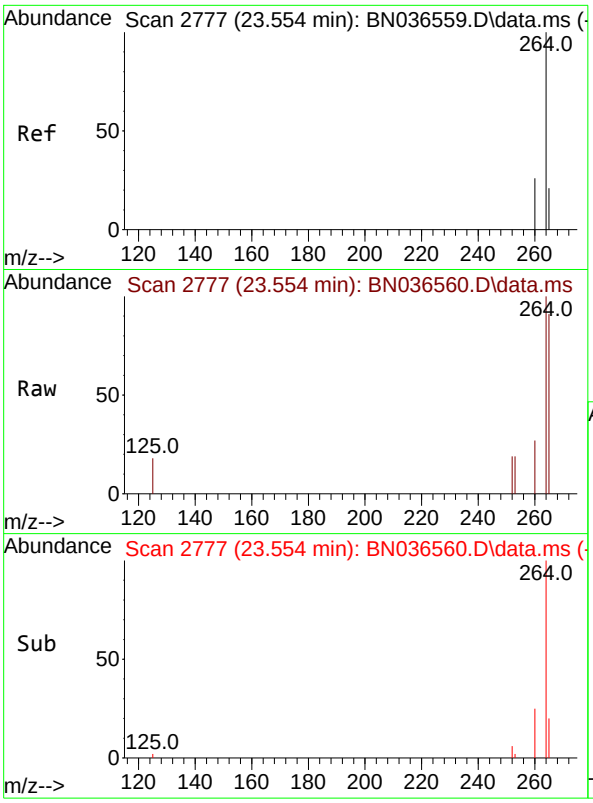




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.699 ng
RT: 21.214 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Tgt Ion:149 Resp: 8021

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 25.9 | 20.7 | 31.1 |
| 279 | 3.2 | 3.6 | 5.4# |



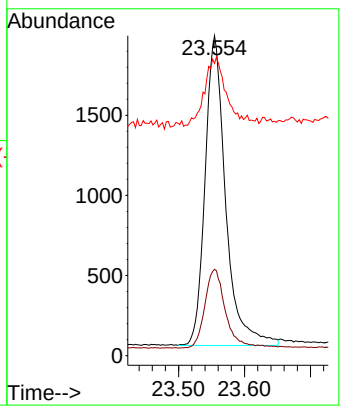


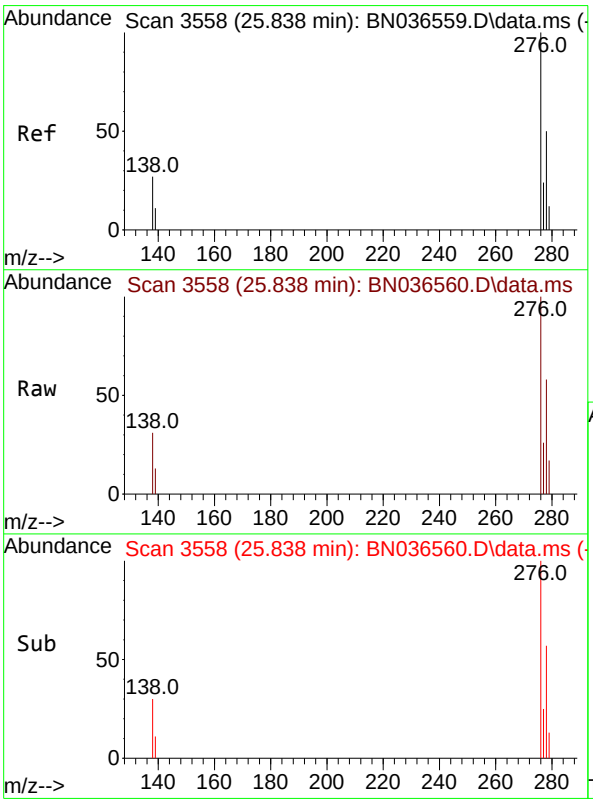

#35
Perylene-d12
Concen: 0.400 ng
RT: 23.554 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.8

Tgt Ion:264 Resp: 4198

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 27.0 | 22.6 | 33.8 |
| 265 | 91.3 | 88.1 | 132.1 |

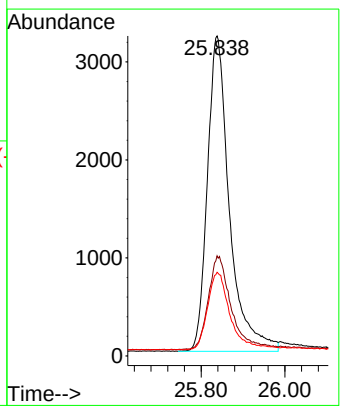


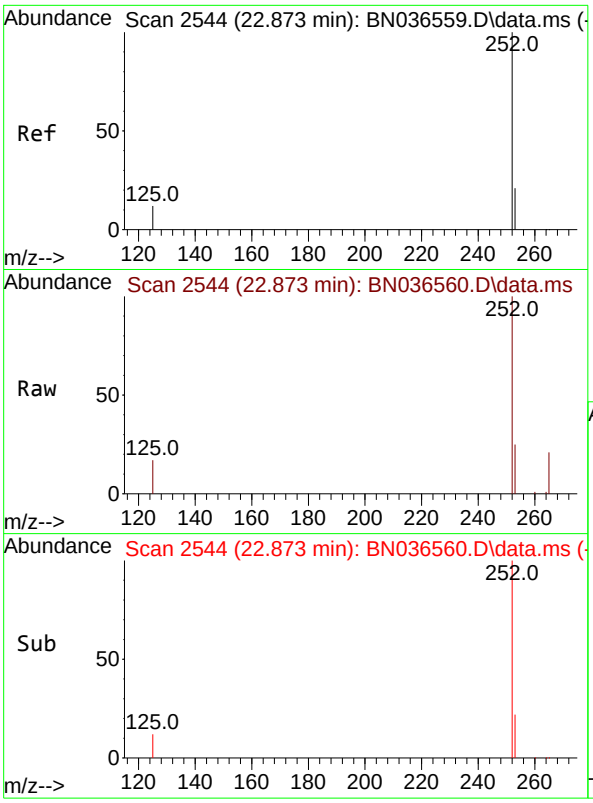




#36
Indeno(1,2,3-cd)pyrene
Concen: 0.778 ng
RT: 25.838 min Scan# 3558
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Tgt Ion:276 Resp: 11785

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 29.6 | 23.4 | 35.2 |
| 277 | 24.7 | 20.0 | 30.0 |



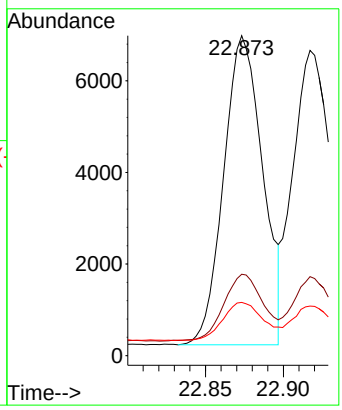


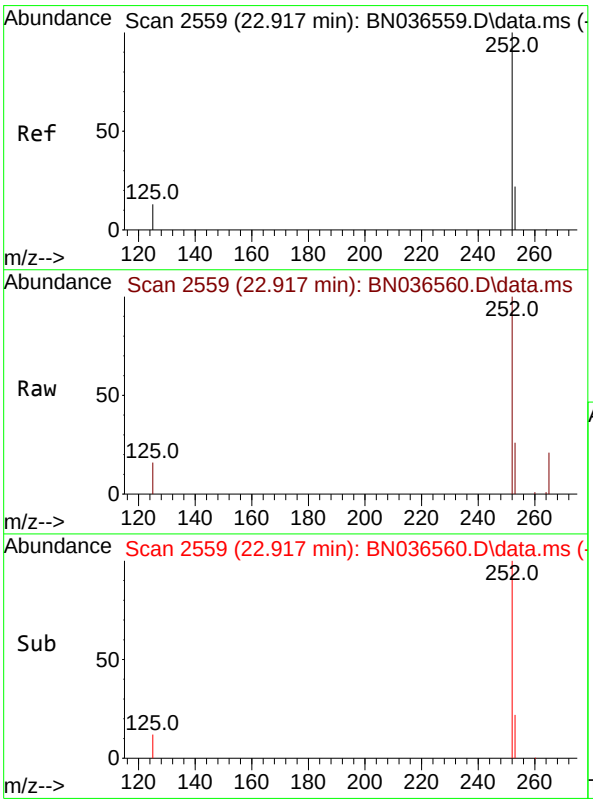

#37
Benzo(b)fluoranthene
Concen: 0.770 ng
RT: 22.873 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.8

Tgt Ion:252 Resp: 11771

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 25.5 | 23.9 | 35.9 |
| 125 | 16.7 | 17.4 | 26.2# |

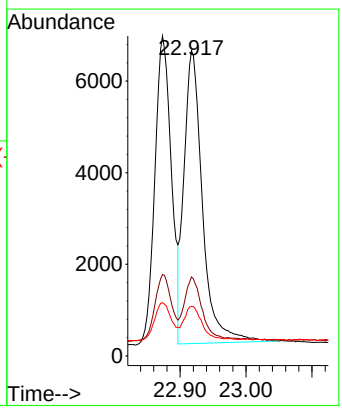


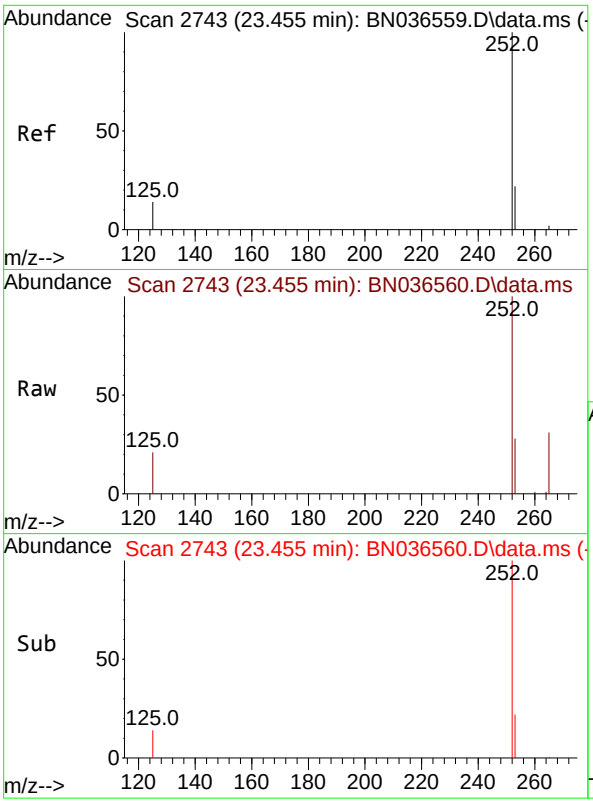




#38
Benzo(k)fluoranthene
Concen: 0.776 ng
RT: 22.917 min Scan# 2559
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Tgt Ion:252 Resp: 12432

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 25.9 | 24.6 | 36.8 |
| 125 | 16.2 | 17.8 | 26.8# |



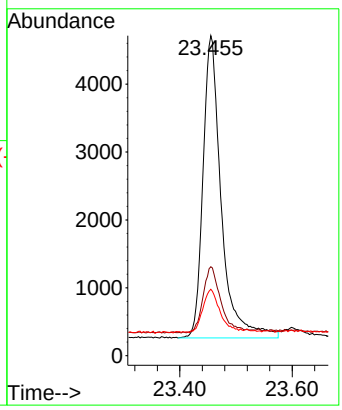


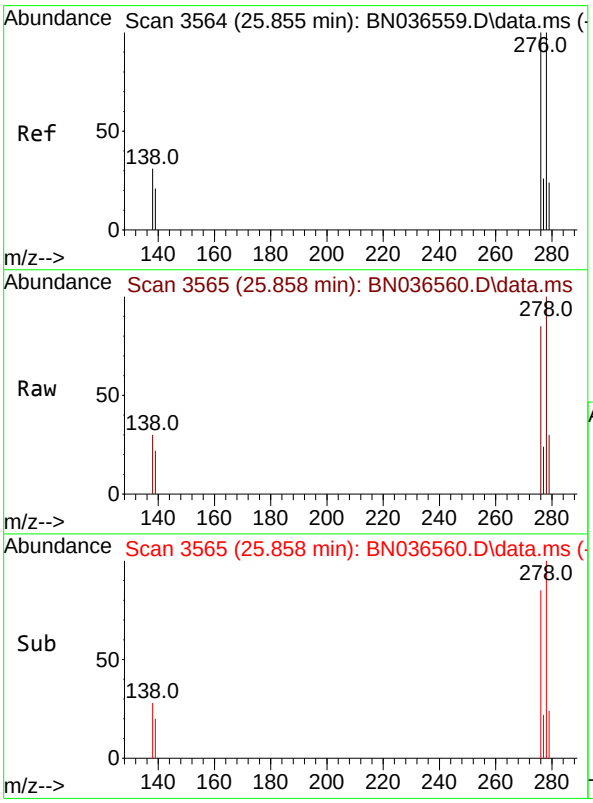

#39
Benzo(a)pyrene
Concen: 0.780 ng
RT: 23.455 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.8

Tgt Ion:252 Resp: 10036

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 27.8 | 27.8 | 41.8# |
| 125 | 20.7 | 22.7 | 34.1# |

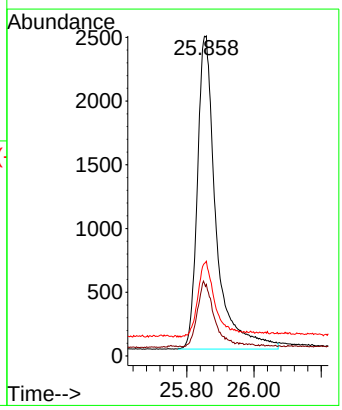


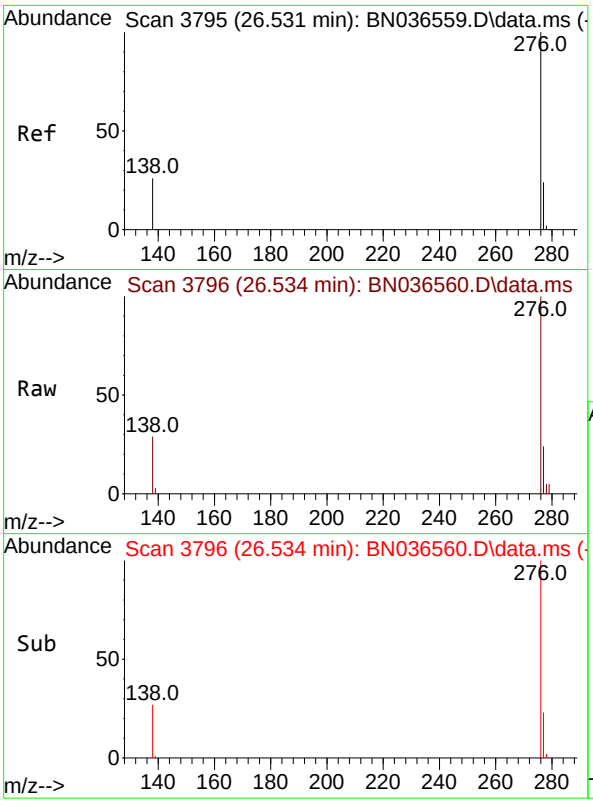




#40
Dibenzo(a,h)anthracene
Concen: 0.801 ng
RT: 25.858 min Scan# 3565
Delta R.T. 0.003 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Tgt Ion:278 Resp: 9450

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 22.3 | 20.8 | 31.2 |
| 279 | 29.6 | 28.8 | 43.2 |



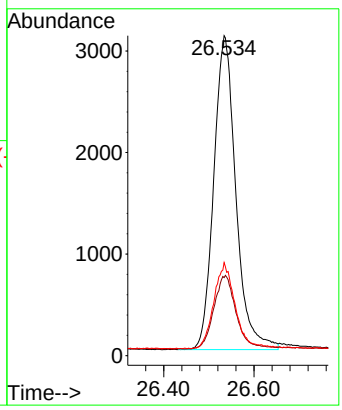



#41
Benzo(g,h,i)perylene
Concen: 0.778 ng
RT: 26.534 min Scan# 3
Delta R.T. 0.003 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.8

Tgt Ion:276 Resp: 10494

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 24.4 | 22.2 | 33.4 |
| 138 | 29.1 | 24.1 | 36.1 |



Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036561.D
Acq On : 10 Mar 2025 14:07
Operator : RC/JU
Sample : SSTDICC1.6
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC1.6

Quant Time: Mar 10 16:02:21 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:54:23 2025
Response via : Initial Calibration

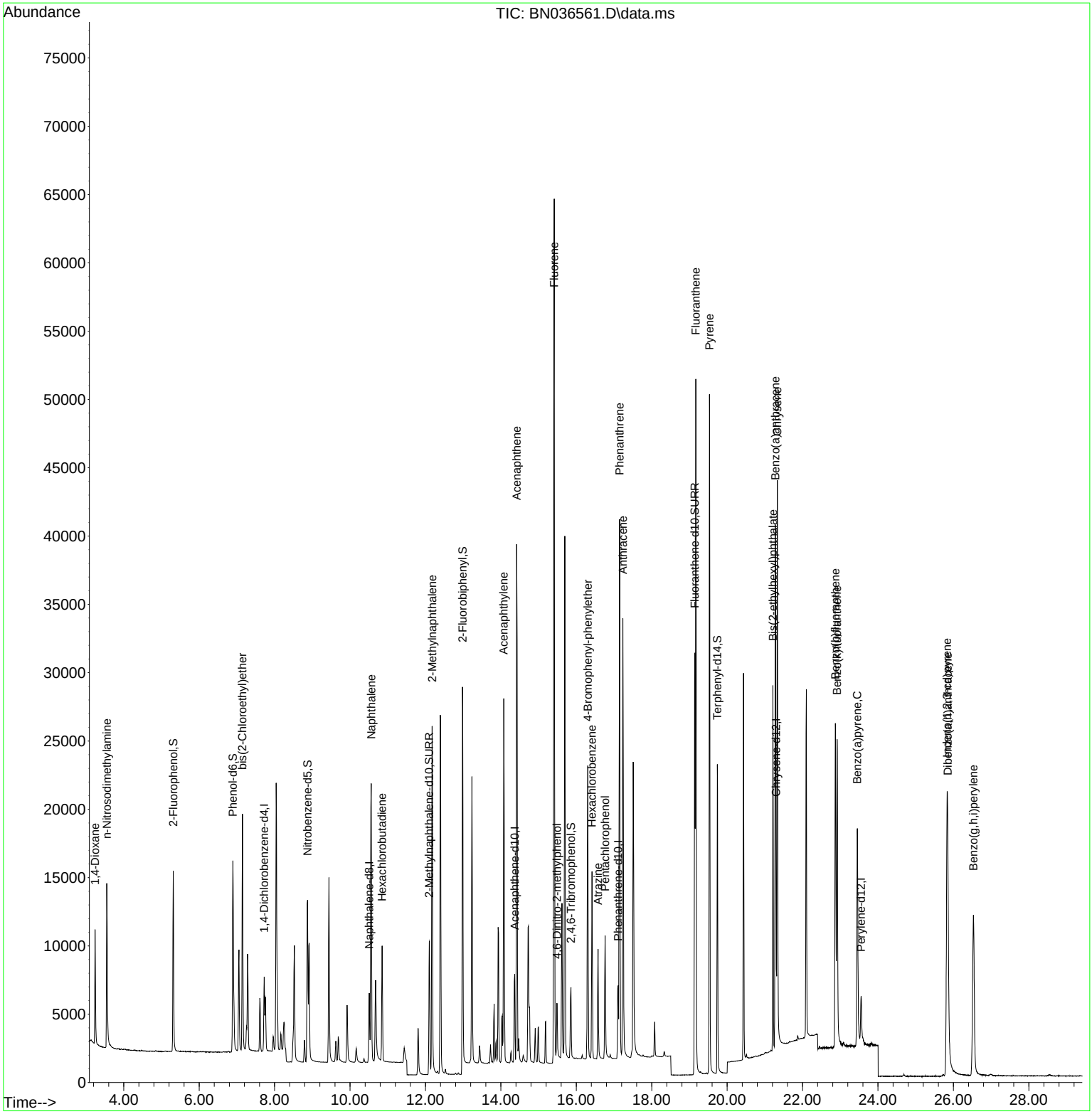
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.724 | 152 | 2537 | 0.400 | ng | | 0.00 |
| 7) Naphthalene-d8 | 10.509 | 136 | 6200 | 0.400 | ng | | 0.00 |
| 13) Acenaphthene-d10 | 14.366 | 164 | 3827 | 0.400 | ng | | 0.00 |
| 19) Phenanthrene-d10 | 17.111 | 188 | 8149 | 0.400 | ng | | 0.00 |
| 29) Chrysene-d12 | 21.295 | 240 | 5977 | 0.400 | ng | # | 0.00 |
| 35) Perylene-d12 | 23.552 | 264 | 5048 | 0.400 | ng | # | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 4) 2-Fluorophenol | 5.312 | 112 | 9276 | 1.569 | ng | | 0.00 |
| 5) Phenol-d6 | 6.894 | 99 | 11493 | 1.574 | ng | | 0.00 |
| 8) Nitrobenzene-d5 | 8.875 | 82 | 9959 | 1.477 | ng | | 0.00 |
| 11) 2-Methylnaphthalene-d10 | 12.101 | 152 | 14319 | 1.553 | ng | | 0.00 |
| 14) 2,4,6-Tribromophenol | 15.858 | 330 | 2872 | 1.654 | ng | | 0.00 |
| 15) 2-Fluorobiphenyl | 12.983 | 172 | 36192 | 1.626 | ng | | 0.00 |
| 27) Fluoranthene-d10 | 19.141 | 212 | 33414 | 1.600 | ng | | 0.00 |
| 31) Terphenyl-d14 | 19.740 | 244 | 21872 | 1.527 | ng | | 0.00 |
| **Target Compounds** | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.239 | 88 | 4464 | 1.586 | ng | | 98 |
| 3) n-Nitrosodimethylamine | 3.550 | 42 | 8625 | 1.515 | ng | # | 96 |
| 6) bis(2-Chloroethyl)ether | 7.147 | 93 | 11485 | 1.521 | ng | | 99 |
| 9) Naphthalene | 10.562 | 128 | 27473 | 1.506 | ng | | 97 |
| 10) Hexachlorobutadiene | 10.851 | 225 | 6466 | 1.506 | ng | # | 99 |
| 12) 2-Methylnaphthalene | 12.177 | 142 | 18206 | 1.569 | ng | | 98 |
| 16) Acenaphthylene | 14.078 | 152 | 28080 | 1.555 | ng | | 100 |
| 17) Acenaphthene | 14.420 | 154 | 18355 | 1.553 | ng | | 98 |
| 18) Fluorene | 15.414 | 166 | 25565 | 1.599 | ng | | 99 |
| 20) 4,6-Dinitro-2-methylph... | 15.489 | 198 | 2879 | 1.488 | ng | # | 64 |
| 21) 4-Bromophenyl-phenylether | 16.305 | 248 | 7859 | 1.539 | ng | # | 85 |
| 22) Hexachlorobenzene | 16.416 | 284 | 9216 | 1.495 | ng | | 100 |
| 23) Atrazine | 16.578 | 200 | 6530 | 1.595 | ng | # | 91 |
| 24) Pentachlorophenol | 16.764 | 266 | 4395 | 1.563 | ng | | 99 |
| 25) Phenanthrene | 17.149 | 178 | 37989 | 1.554 | ng | | 99 |
| 26) Anthracene | 17.235 | 178 | 35054 | 1.589 | ng | | 99 |
| 28) Fluoranthene | 19.169 | 202 | 44451 | 1.619 | ng | | 99 |
| 30) Pyrene | 19.531 | 202 | 44705 | 1.530 | ng | | 100 |
| 32) Benzo(a)anthracene | 21.277 | 228 | 32205 | 1.550 | ng | | 98 |
| 33) Chrysene | 21.331 | 228 | 34953 | 1.539 | ng | | 99 |
| 34) Bis(2-ethylhexyl)phtha... | 21.214 | 149 | 22621 | 1.529 | ng | # | 99 |
| 36) Indeno(1,2,3-cd)pyrene | 25.832 | 276 | 28605 | 1.570 | ng | | 99 |
| 37) Benzo(b)fluoranthene | 22.870 | 252 | 29819 | 1.623 | ng | # | 86 |
| 38) Benzo(k)fluoranthene | 22.917 | 252 | 30710 | 1.593 | ng | # | 85 |
| 39) Benzo(a)pyrene | 23.452 | 252 | 24696 | 1.596 | ng | # | 79 |
| 40) Dibenzo(a,h)anthracene | 25.850 | 278 | 22248 | 1.569 | ng | # | 85 |
| 41) Benzo(g,h,i)perylene | 26.531 | 276 | 24906 | 1.535 | ng | | 93 |

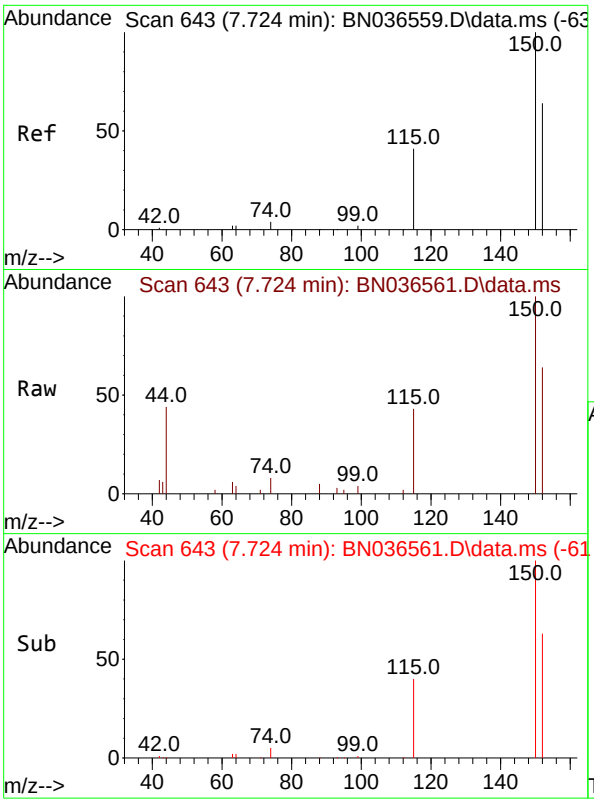
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036561.D
Acq On : 10 Mar 2025 14:07
Operator : RC/JU
Sample : SSTDICC1.6
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC1.6

Quant Time: Mar 10 16:02:21 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:54:23 2025
Response via : Initial Calibration



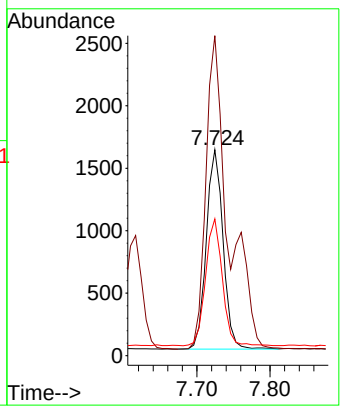


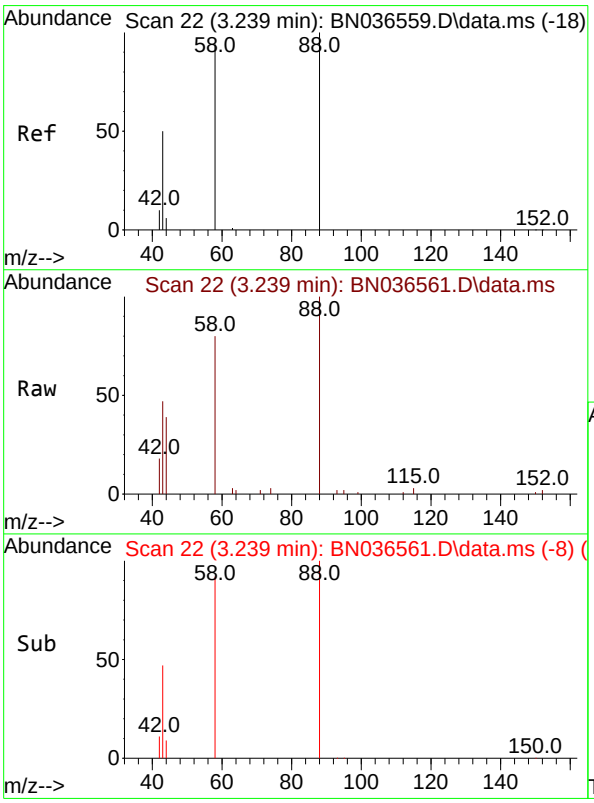

#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC1.6

Tgt Ion:152 Resp: 2537

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 155.4 | 123.7 | 185.5 |
| 115 | 66.4 | 54.3 | 81.5 |

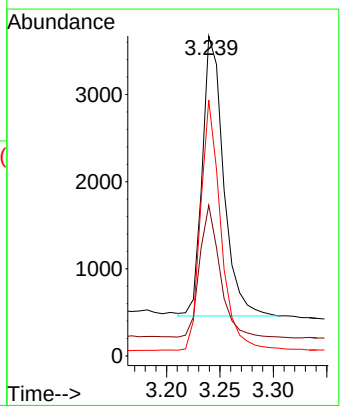


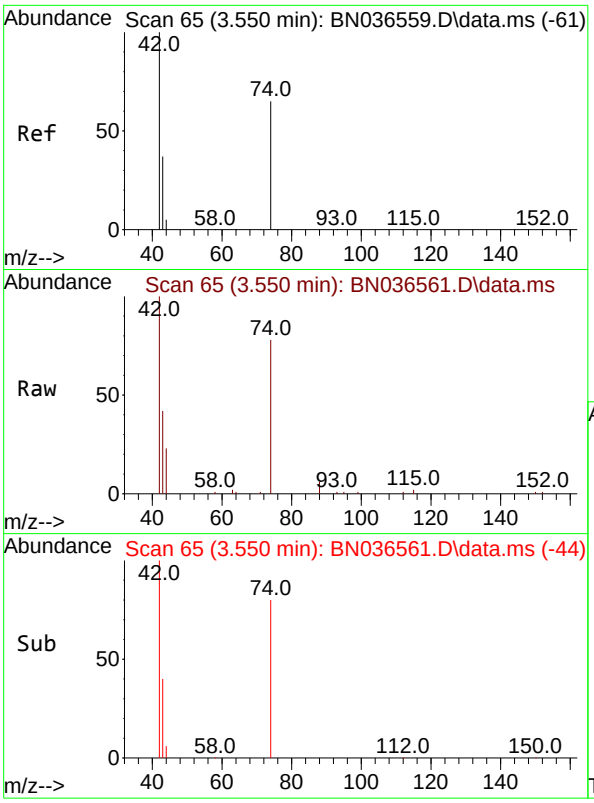




#2
1,4-Dioxane
Concen: 1.586 ng
RT: 3.239 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Tgt Ion: 88 Resp: 4464

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 45.1 | 37.8 | 56.8 |
| 58 | 85.6 | 67.4 | 101.2 |



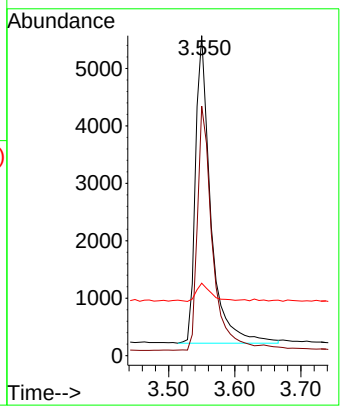


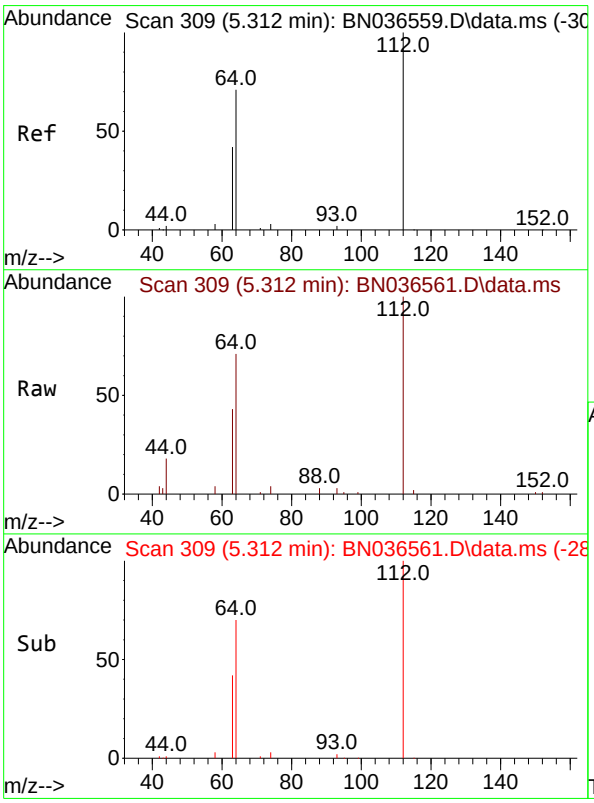

#3
n-Nitrosodimethylamine
Concen: 1.515 ng
RT: 3.550 min Scan# 6
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC1.6

Tgt Ion: 42 Resp: 8625

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 79.2 | 60.6 | 90.8 |
| 44 | 5.8 | 6.3 | 9.5# |

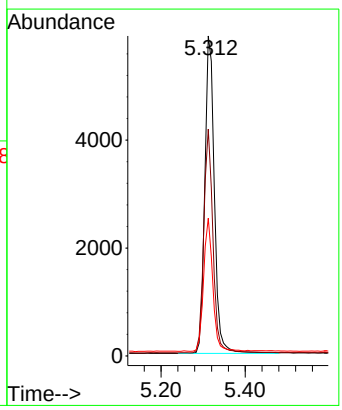


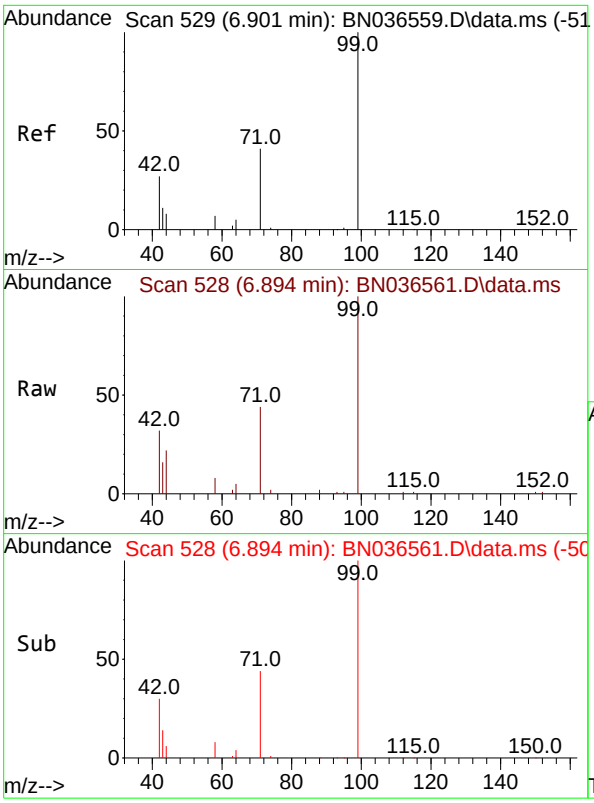




#4
2-Fluorophenol
Concen: 1.569 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Tgt Ion:112 Resp: 9276

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 68.3 | 53.1 | 79.7 |
| 63 | 40.1 | 31.8 | 47.8 |



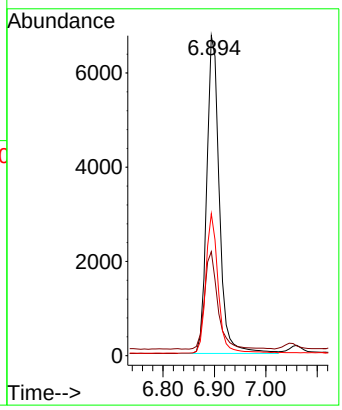


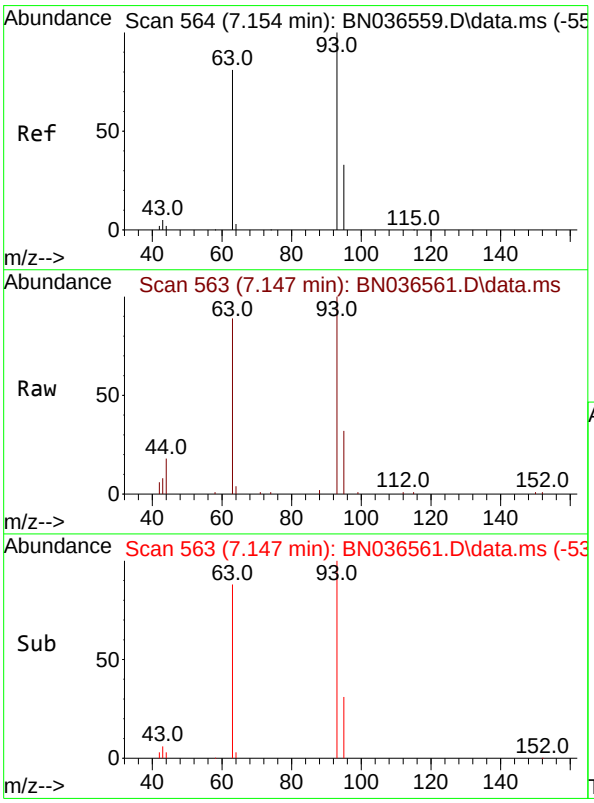

#5
Phenol-d6
Concen: 1.574 ng
RT: 6.894 min Scan# 5
Delta R.T. -0.007 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC1.6

Tgt Ion: 99 Resp: 11493

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 32.6 | 26.5 | 39.7 |
| 71 | 43.3 | 34.1 | 51.1 |

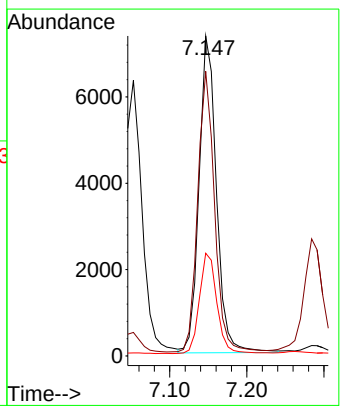


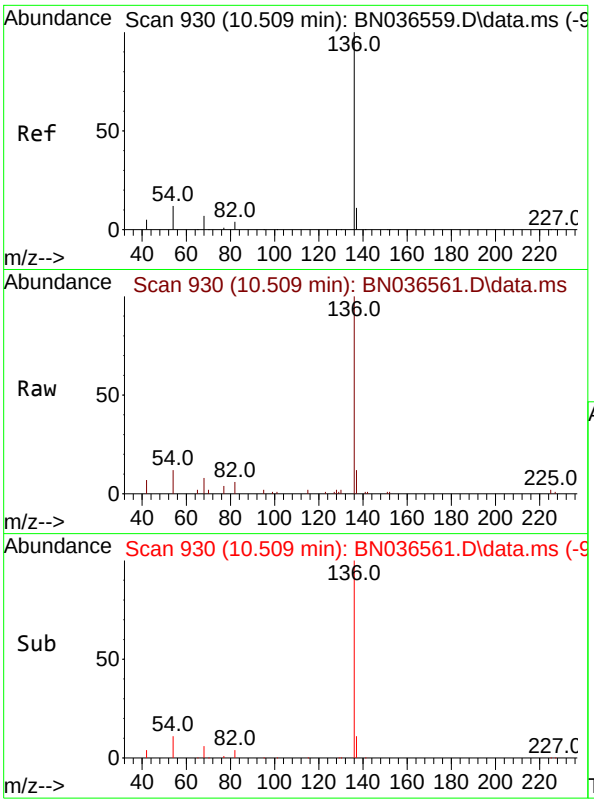




#6
bis(2-Chloroethyl)ether
Concen: 1.521 ng
RT: 7.147 min Scan# 563
Delta R.T. -0.007 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Tgt Ion: 93 Resp: 11485

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 85.8 | 67.7 | 101.5 |
| 95 | 31.8 | 25.6 | 38.4 |



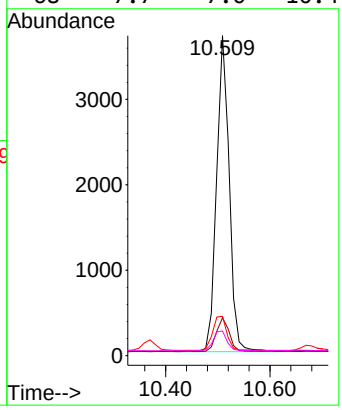


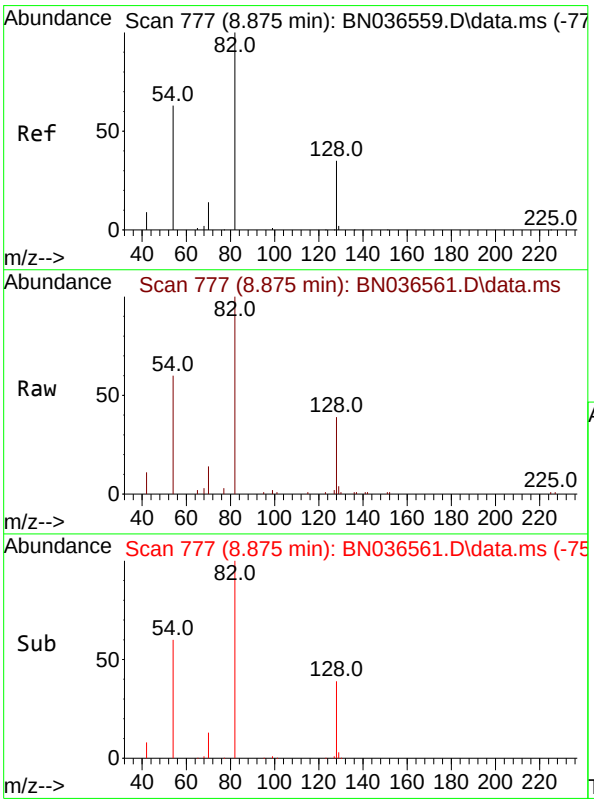

#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC1.6

Tgt Ion:136 Resp: 6200

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.9 | 10.3 | 15.5 |
| 54 | 12.3 | 11.5 | 17.3 |
| 68 | 7.7 | 7.0 | 10.4 |

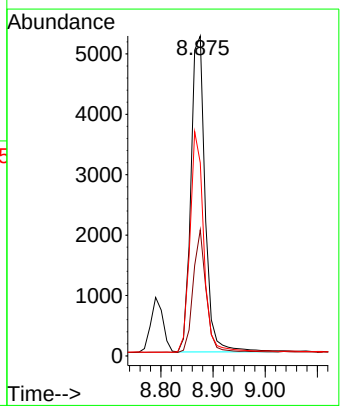


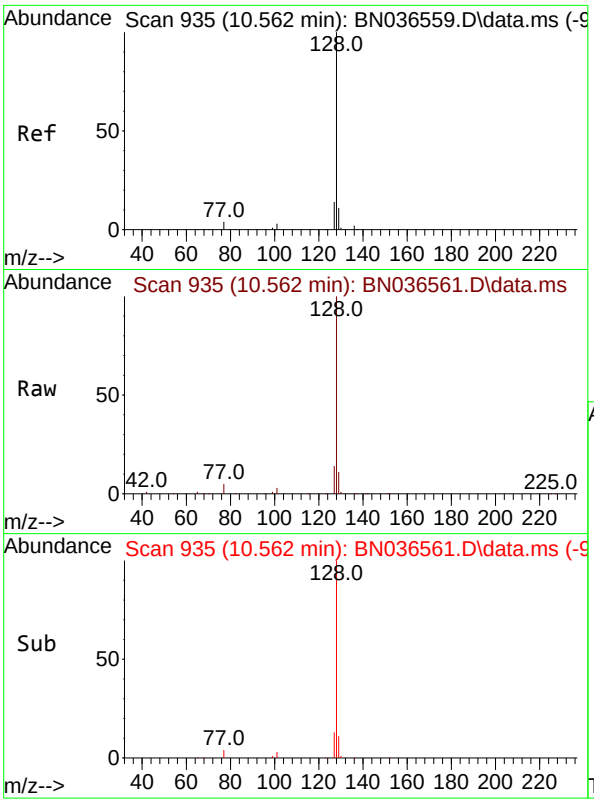




#8
Nitrobenzene-d5
Concen: 1.477 ng
RT: 8.875 min Scan# 777
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Tgt Ion: 82 Resp: 9959

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 39.4 | 30.6 | 45.8 |
| 54 | 60.4 | 52.2 | 78.4 |



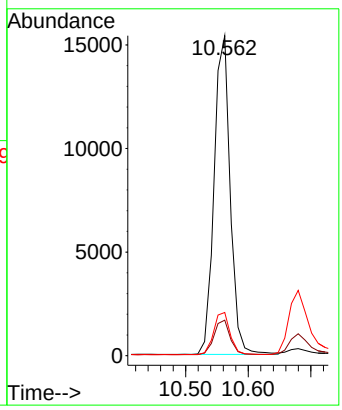


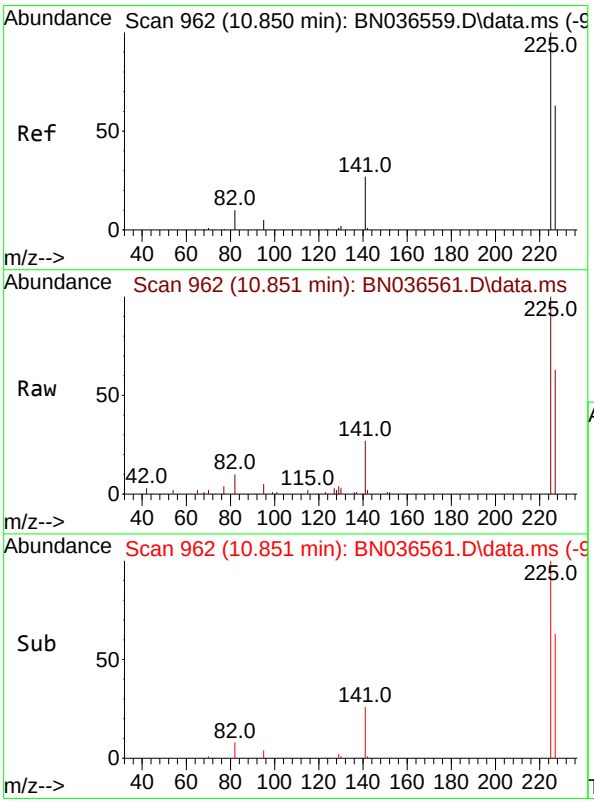

#9
Naphthalene
Concen: 1.506 ng
RT: 10.562 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC1.6

Tgt Ion:128 Resp: 27473

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 11.1 | 9.8 | 14.6 |
| 127 | 13.5 | 11.8 | 17.8 |

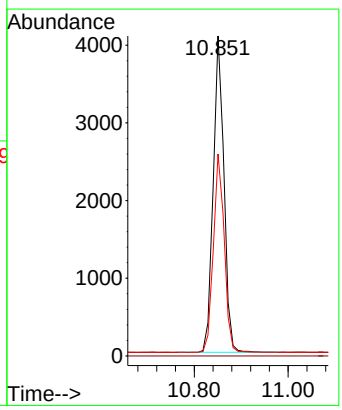


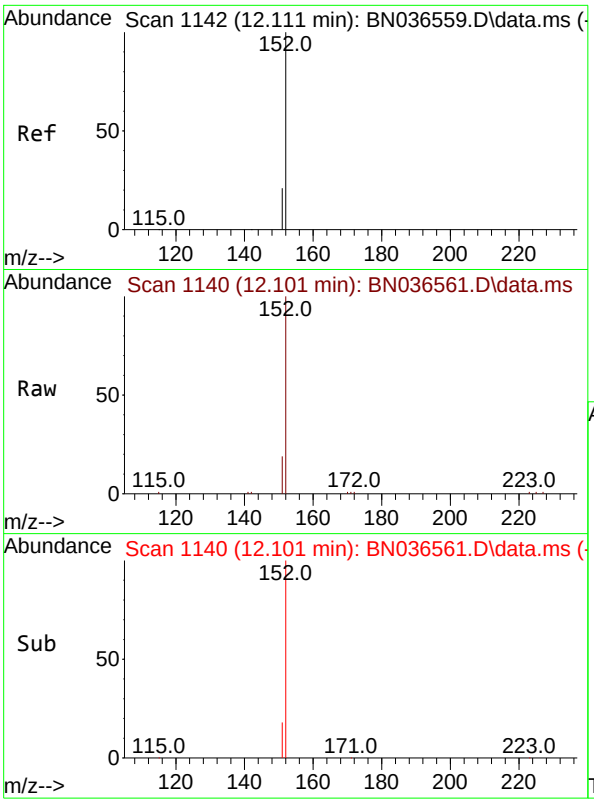




#10
Hexachlorobutadiene
Concen: 1.506 ng
RT: 10.851 min Scan# 962
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Tgt Ion:225 Resp: 6466

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 0.0 | 0.0 | 0.0 |
| 227 | 63.8 | 51.8 | 77.8 |



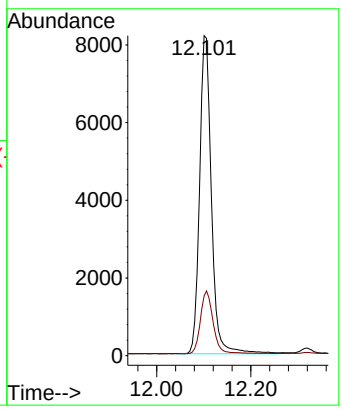


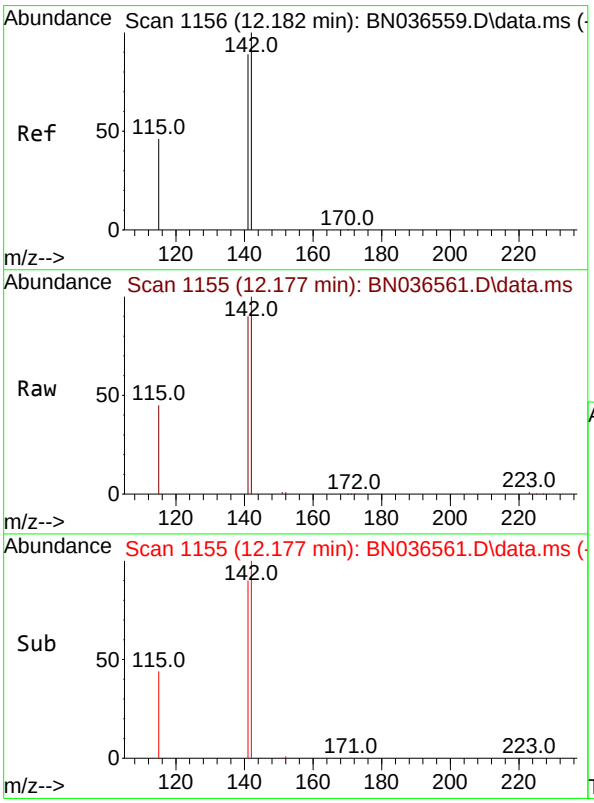

#11
2-Methylnaphthalene-d10
Concen: 1.553 ng
RT: 12.101 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC1.6

Tgt Ion:152 Resp: 14319

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 21.3 | 17.0 | 25.6 |

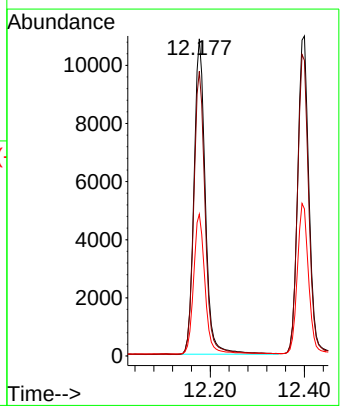


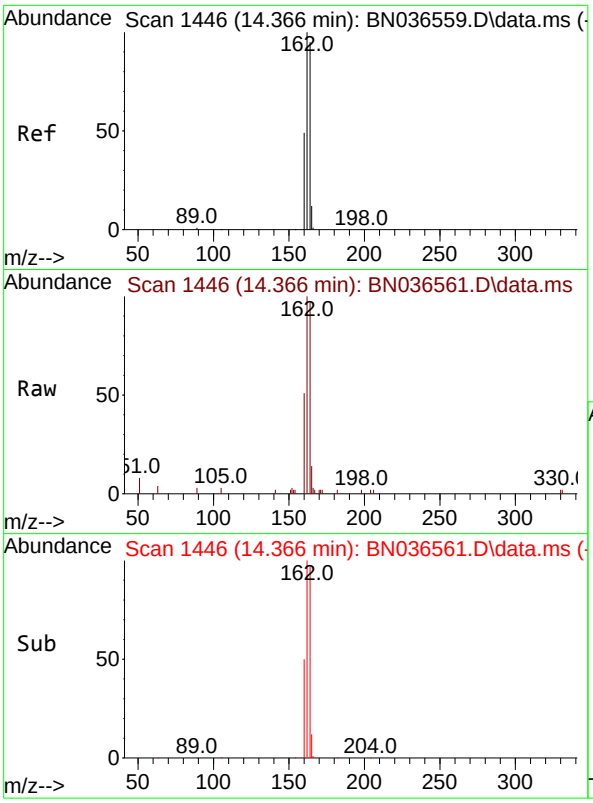




#12
2-Methylnaphthalene
Concen: 1.569 ng
RT: 12.177 min Scan# 1155
Delta R.T. -0.005 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Tgt Ion:142 Resp: 18206

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 89.7 | 71.7 | 107.5 |
| 115 | 44.7 | 38.3 | 57.5 |



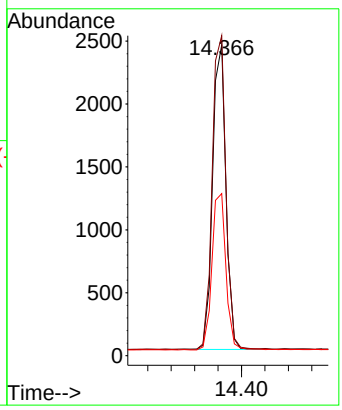


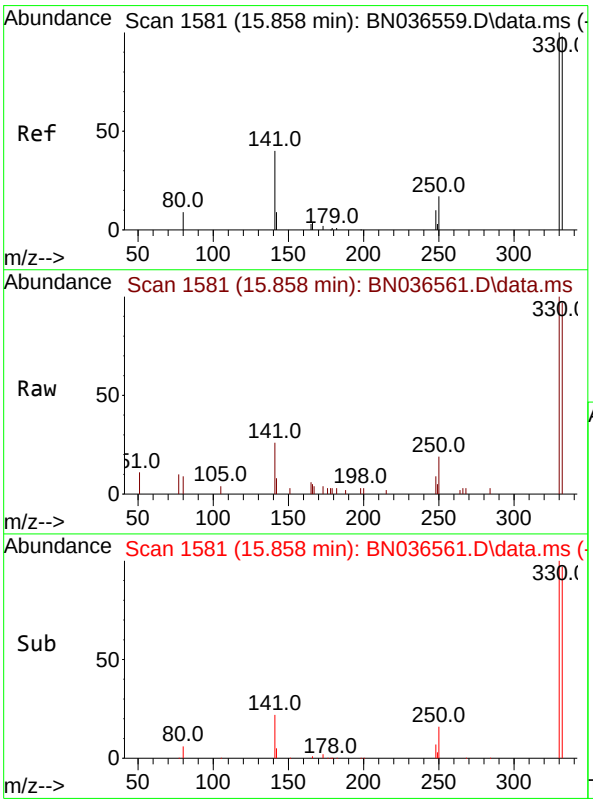

#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC1.6

Tgt Ion:164 Resp: 3827

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 102.9 | 84.2 | 126.2 |
| 160 | 52.1 | 42.2 | 63.2 |

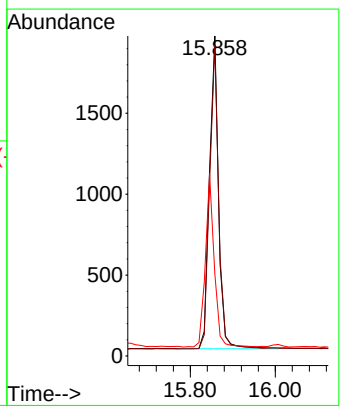


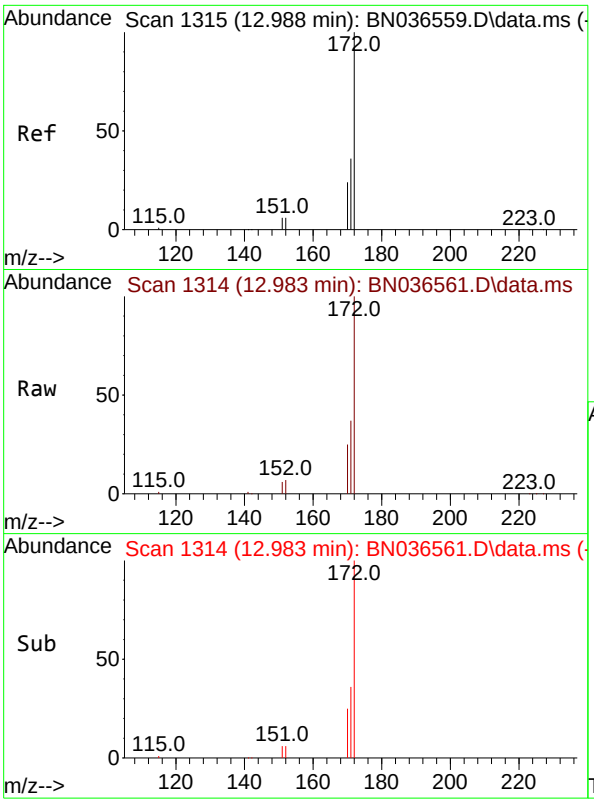




#14
2,4,6-Tribromophenol
Concen: 1.654 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Tgt Ion:330 Resp: 2872

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 96.3 | 75.2 | 112.8 |
| 141 | 53.8 | 43.4 | 65.2 |



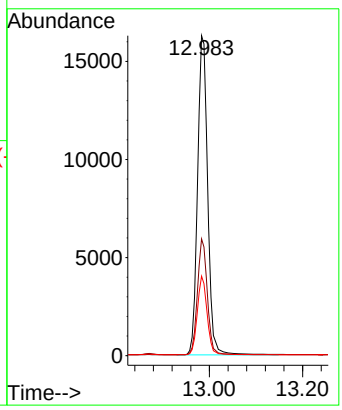


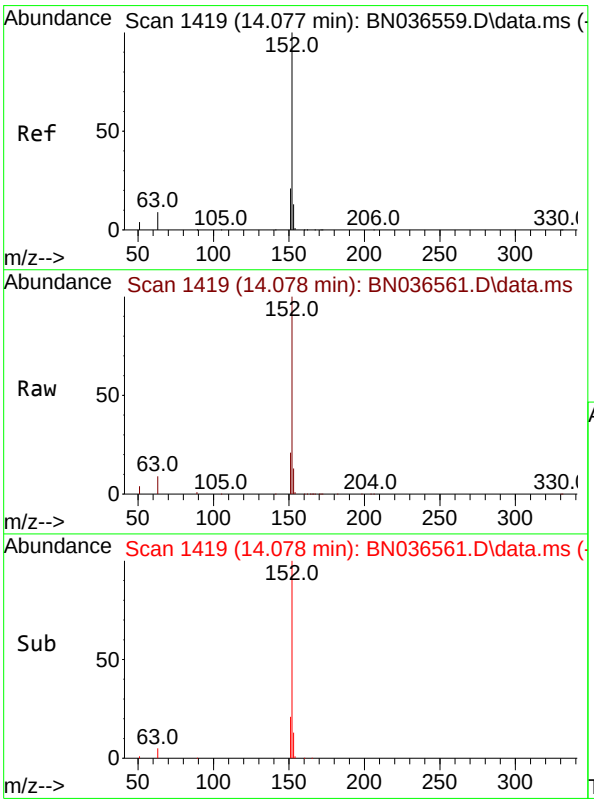

#15
2-Fluorobiphenyl
Concen: 1.626 ng
RT: 12.983 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC1.6

Tgt Ion:172 Resp: 36192

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 36.5 | 29.5 | 44.3 |
| 170 | 24.9 | 20.2 | 30.4 |

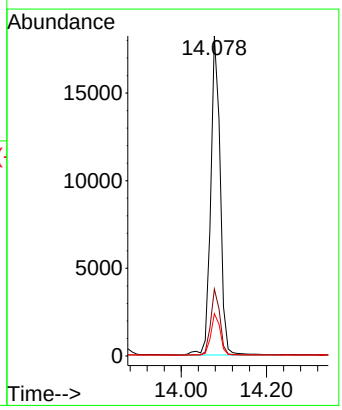


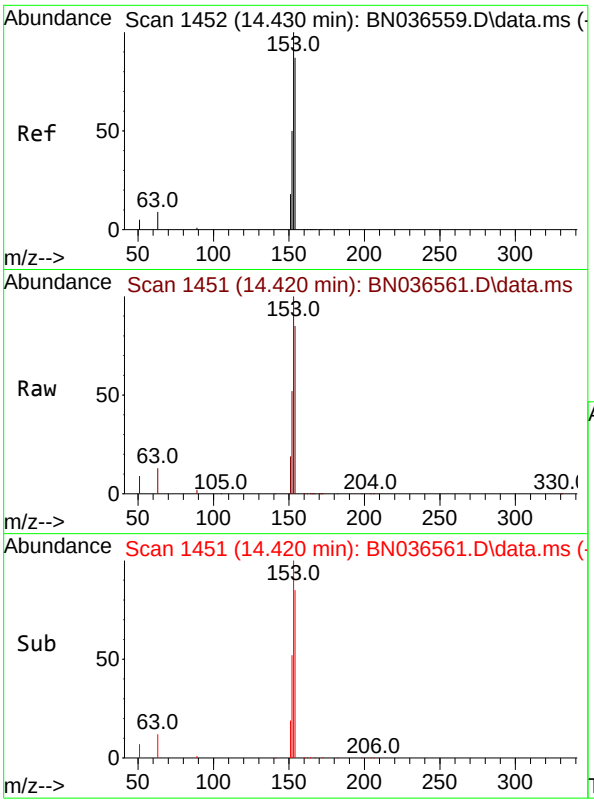




#16
Acenaphthylene
Concen: 1.555 ng
RT: 14.078 min Scan# 1419
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Tgt Ion:152 Resp: 28080

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.3 | 16.2 | 24.4 |
| 153 | 13.0 | 10.6 | 15.8 |



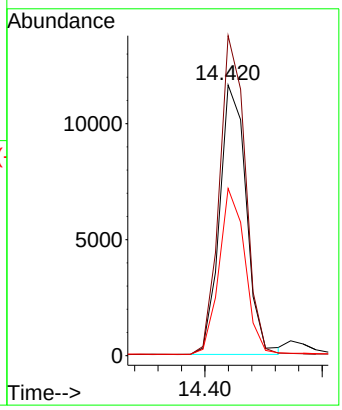


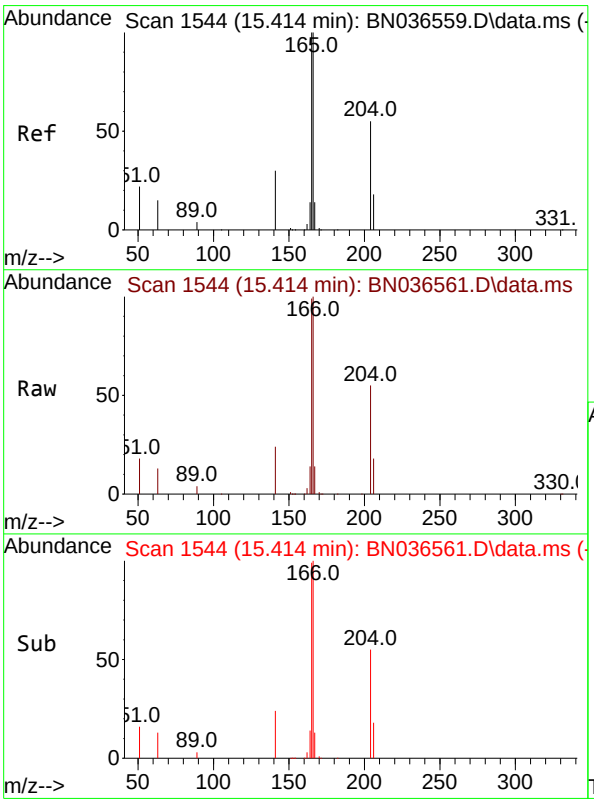

#17
Acenaphthene
Concen: 1.553 ng
RT: 14.420 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC1.6

Tgt Ion:154 Resp: 18355

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 115.7 | 94.1 | 141.1 |
| 152 | 60.3 | 49.8 | 74.6 |

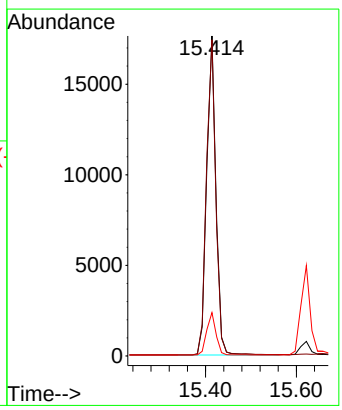


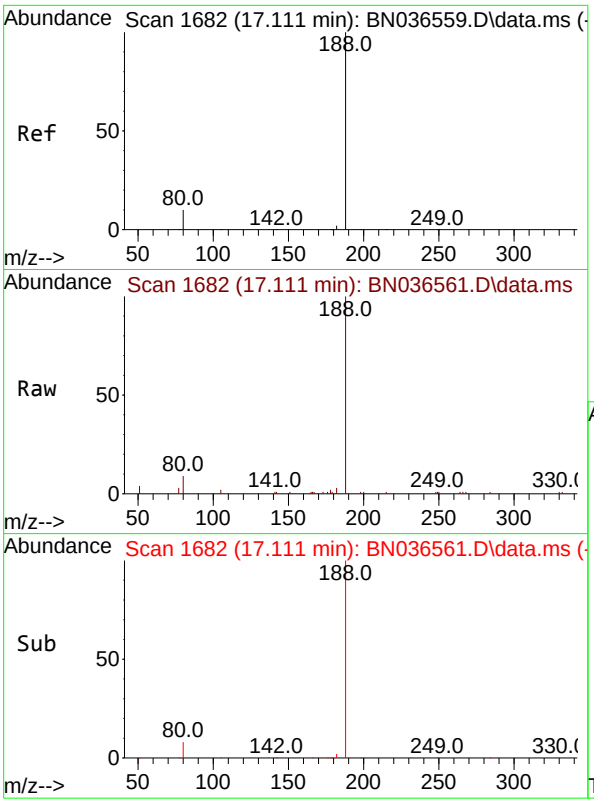




#18
Fluorene
Concen: 1.599 ng
RT: 15.414 min Scan# 1544
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Tgt Ion:166 Resp: 25565

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 100.5 | 79.8 | 119.8 |
| 167 | 13.1 | 10.6 | 15.8 |



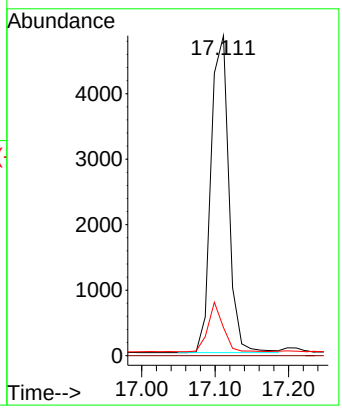


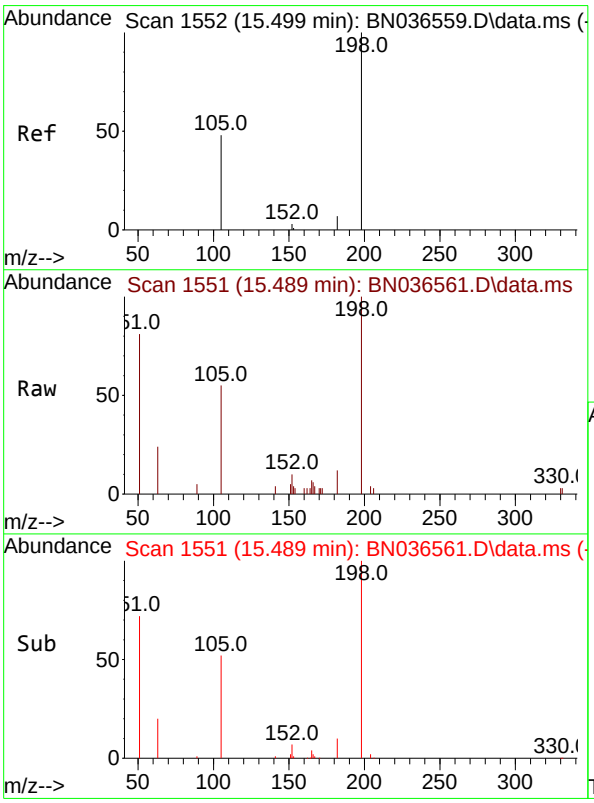

#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.111 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC1.6

Tgt Ion:188 Resp: 8149

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 8.8 | 8.8 | 13.2 |

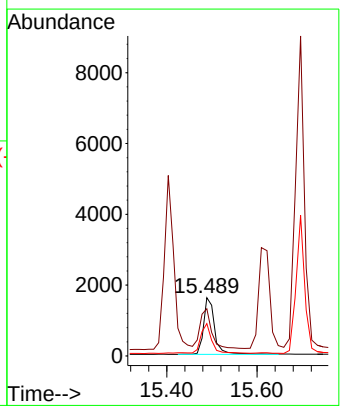


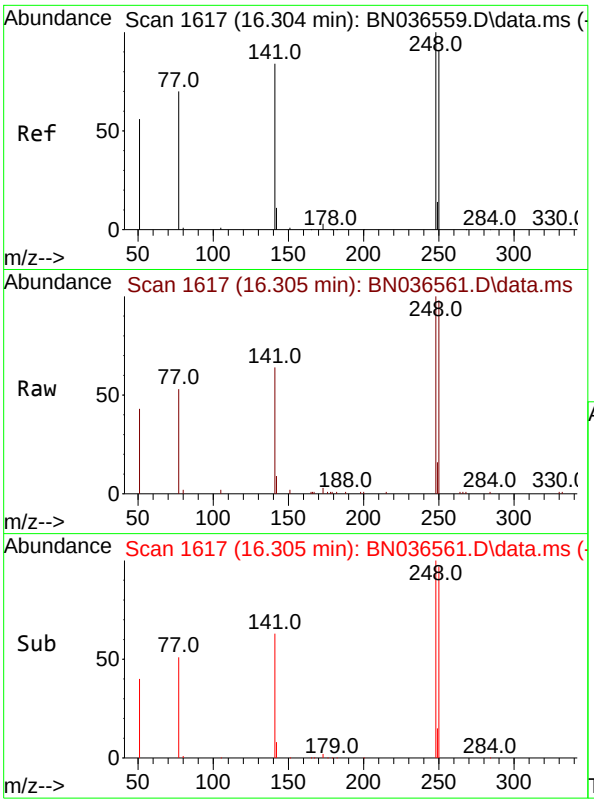




#20
4,6-Dinitro-2-methylphenol
Concen: 1.488 ng
RT: 15.489 min Scan# 1551
Delta R.T. -0.010 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Tgt Ion:198 Resp: 2879

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 198 | 100 | | |
| 51 | 81.2 | 107.9 | 161.9# |
| 105 | 55.5 | 56.2 | 84.2# |



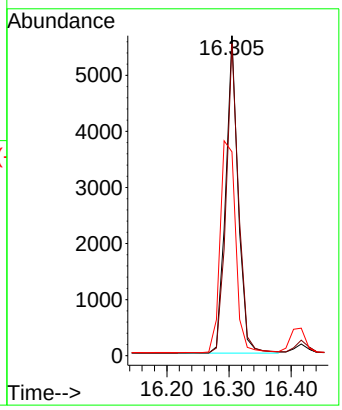


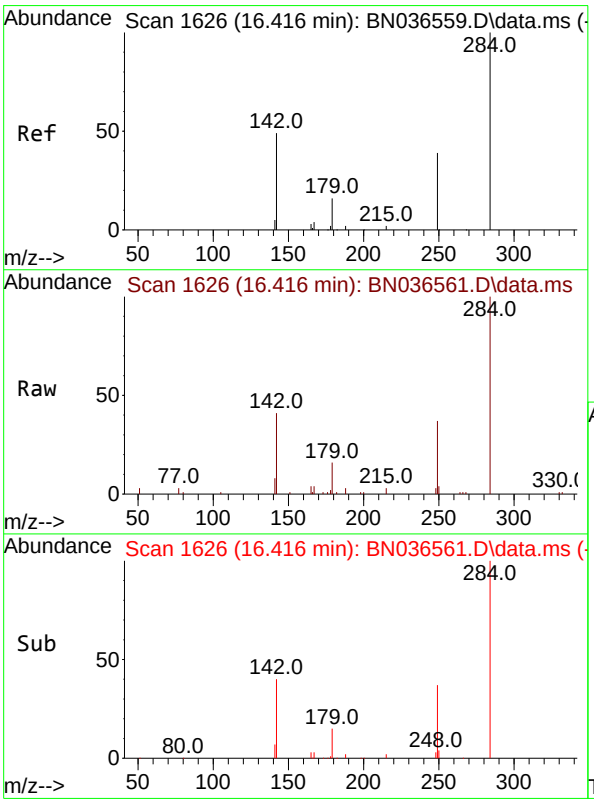

#21
4-Bromophenyl-phenylether
Concen: 1.539 ng
RT: 16.305 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC1.6

Tgt Ion:248 Resp: 7859

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 97.5 | 73.0 | 109.6 |
| 141 | 63.7 | 68.6 | 103.0# |

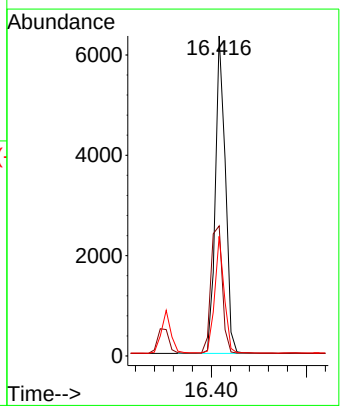


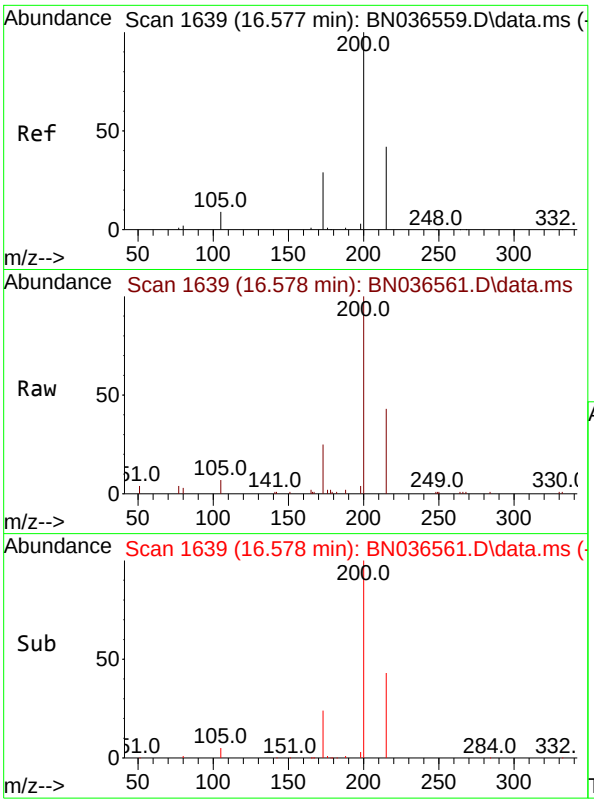




#22
Hexachlorobenzene
Concen: 1.495 ng
RT: 16.416 min Scan# 1626
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Tgt Ion:284 Resp: 9216

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 46.6 | 37.0 | 55.4 |
| 249 | 35.1 | 28.1 | 42.1 |



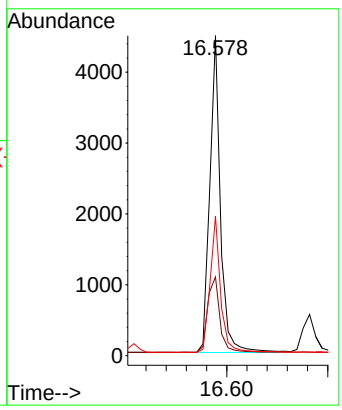


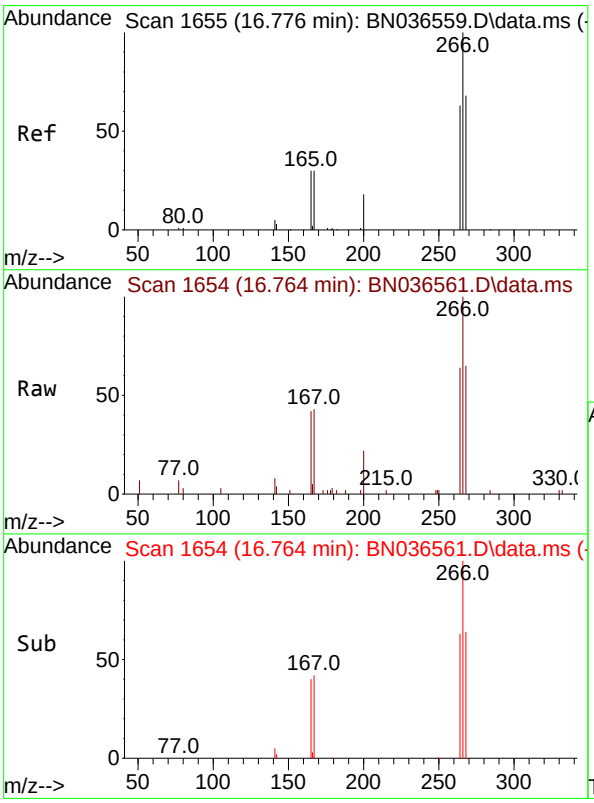

#23
Atrazine
Concen: 1.595 ng
RT: 16.578 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC1.6

Tgt Ion:200 Resp: 6530

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 173 | 24.6 | 27.3 | 40.9# |
| 215 | 43.5 | 36.8 | 55.2 |

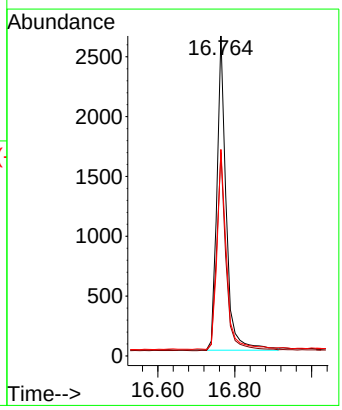


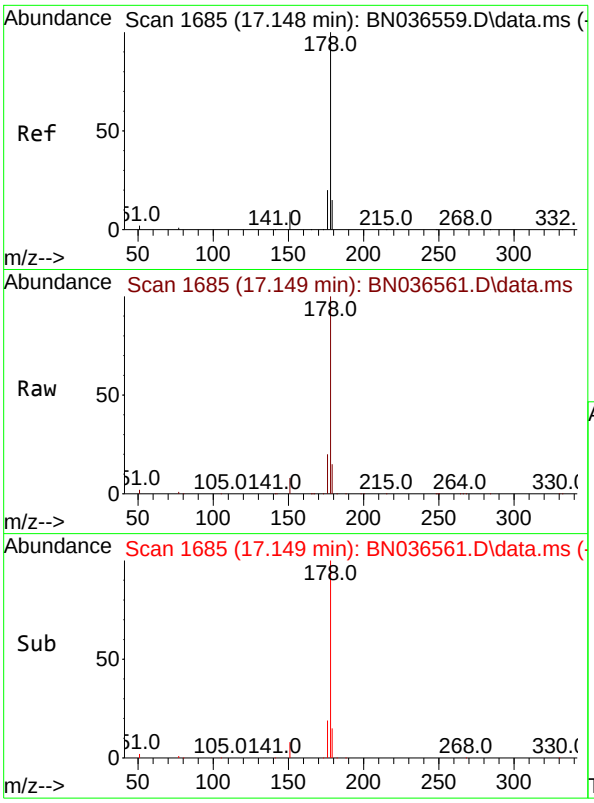




#24
Pentachlorophenol
Concen: 1.563 ng
RT: 16.764 min Scan# 1654
Delta R.T. -0.012 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Tgt Ion:266 Resp: 4395

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 264 | 63.5 | 49.6 | 74.4 |
| 268 | 64.4 | 50.9 | 76.3 |



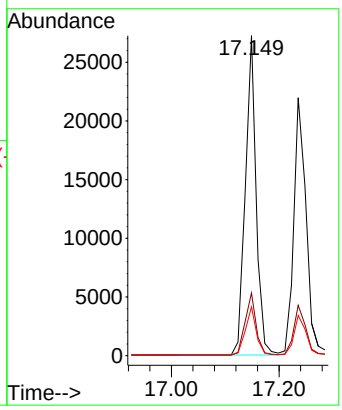


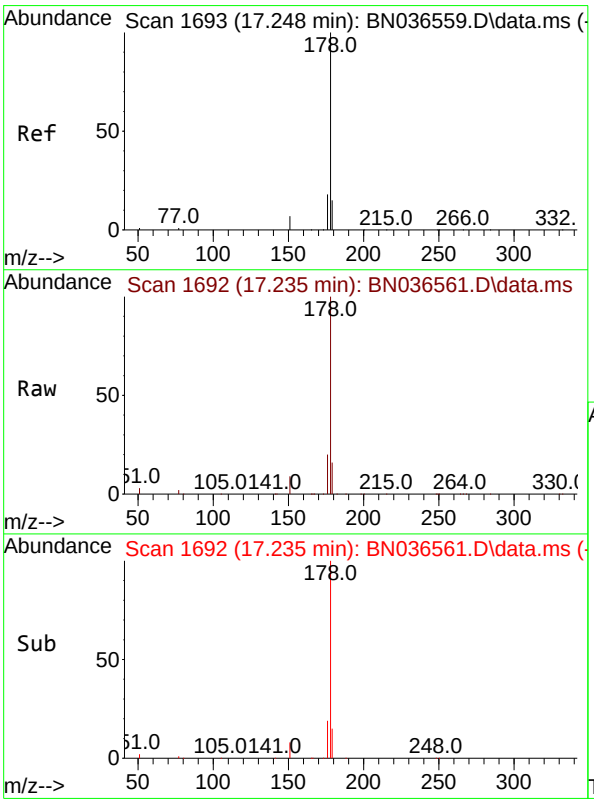

#25
Phenanthrene
Concen: 1.554 ng
RT: 17.149 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC1.6

Tgt Ion:178 Resp: 37989

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.7 | 15.9 | 23.9 |
| 179 | 15.1 | 12.2 | 18.4 |

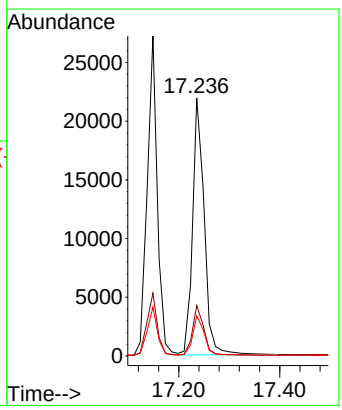


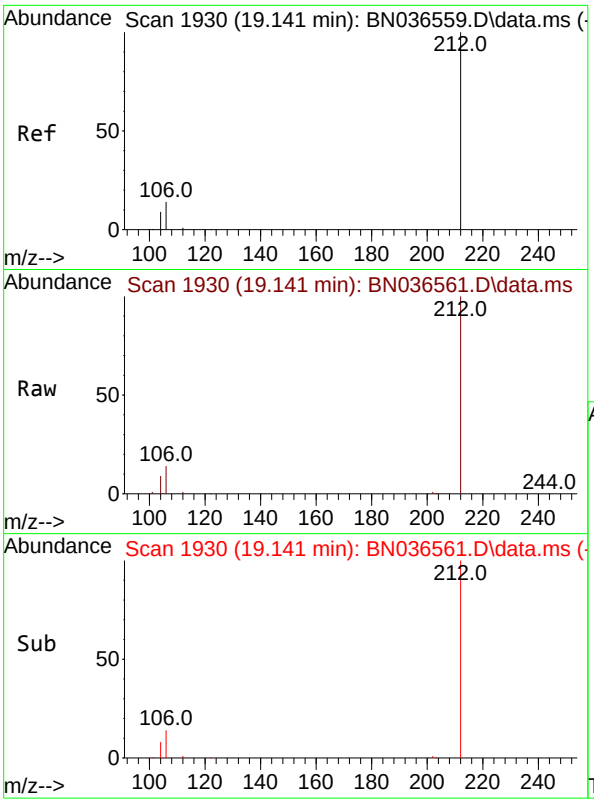




#26
Anthracene
Concen: 1.589 ng
RT: 17.235 min Scan# 1692
Delta R.T. -0.012 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Tgt Ion:178 Resp: 35054

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.0 | 15.4 | 23.2 |
| 179 | 15.3 | 12.6 | 18.8 |



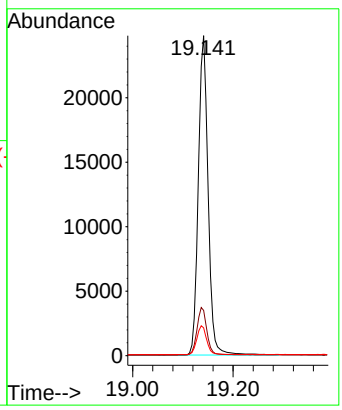


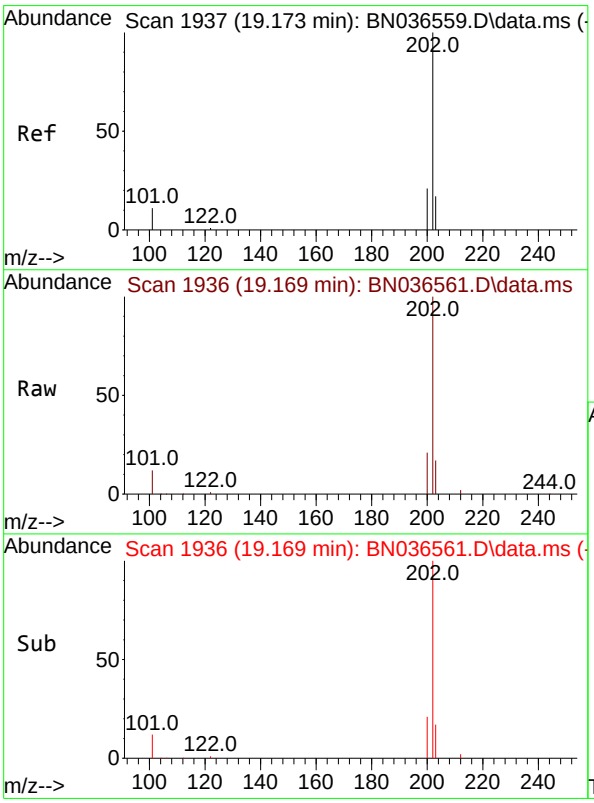

#27
Fluoranthene-d10
Concen: 1.600 ng
RT: 19.141 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC1.6

Tgt Ion:212 Resp: 33414

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 15.0 | 11.8 | 17.6 |
| 104 | 9.1 | 7.3 | 10.9 |

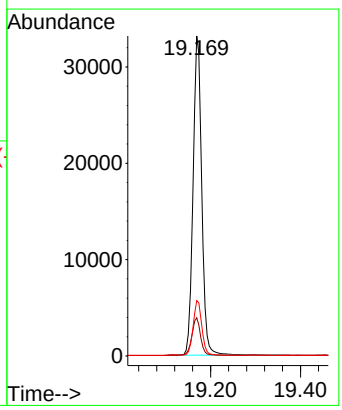


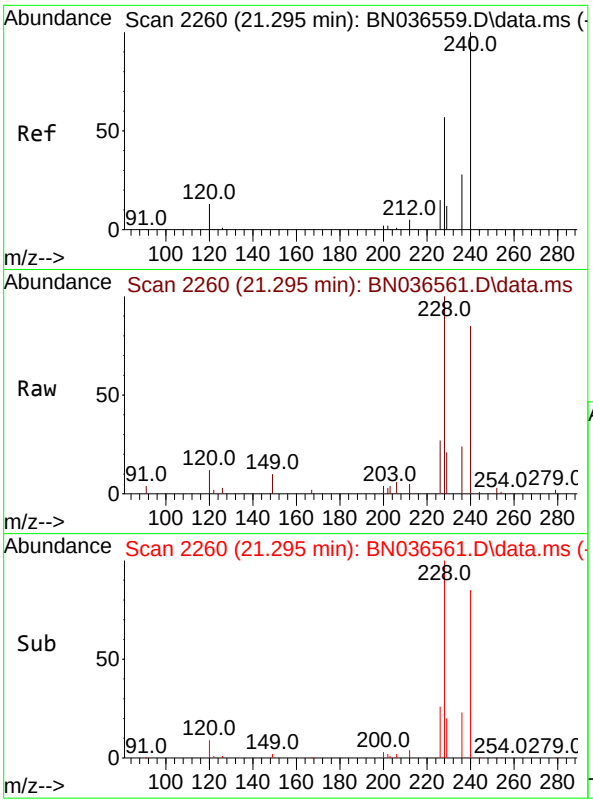




#28
Fluoranthene
Concen: 1.619 ng
RT: 19.169 min Scan# 1936
Delta R.T. -0.004 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Tgt Ion:202 Resp: 44451

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 12.0 | 9.4 | 14.0 |
| 203 | 17.2 | 13.5 | 20.3 |



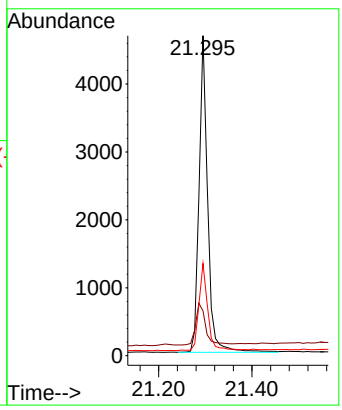


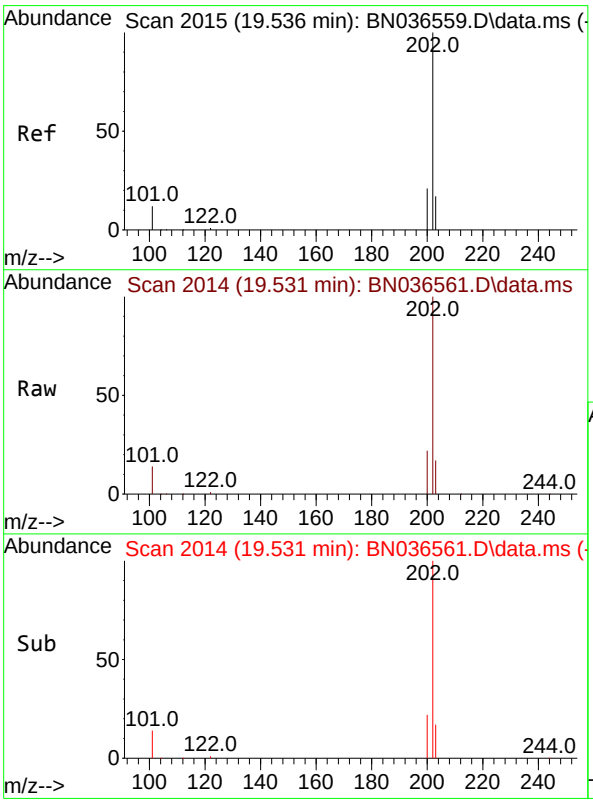

#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC1.6

Tgt Ion:240 Resp: 5977

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 14.0 | 14.6 | 22.0# |
| 236 | 28.9 | 24.1 | 36.1 |

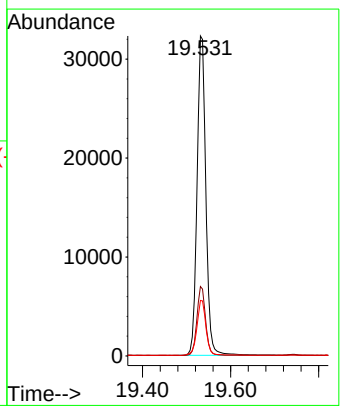


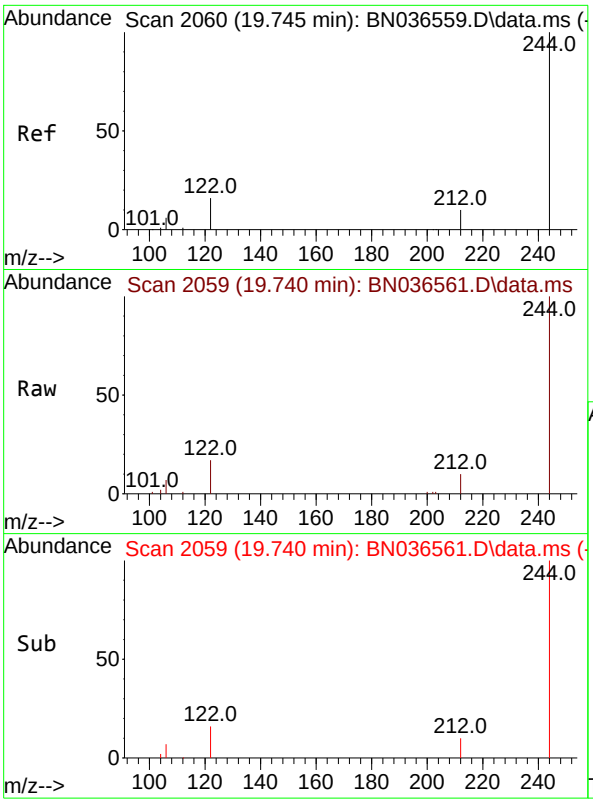




#30
Pyrene
Concen: 1.530 ng
RT: 19.531 min Scan# 2014
Delta R.T. -0.004 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Tgt Ion:202 Resp: 44705

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.3 | 17.1 | 25.7 |
| 203 | 17.5 | 14.1 | 21.1 |



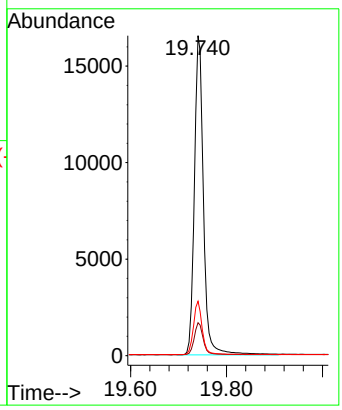


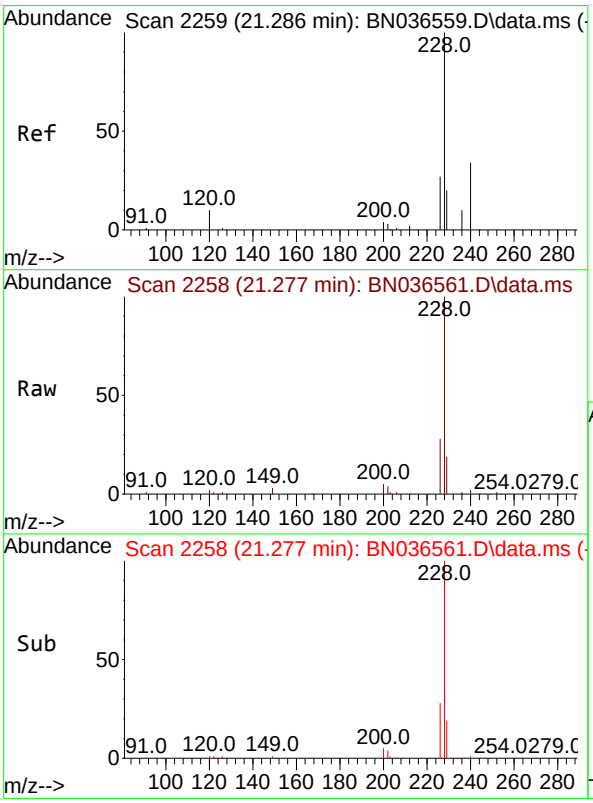

#31
Terphenyl-d14
Concen: 1.527 ng
RT: 19.740 min Scan# 2
Delta R.T. -0.004 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC1.6

Tgt Ion:244 Resp: 21872

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 10.3 | 9.6 | 14.4 |
| 122 | 17.0 | 13.9 | 20.9 |

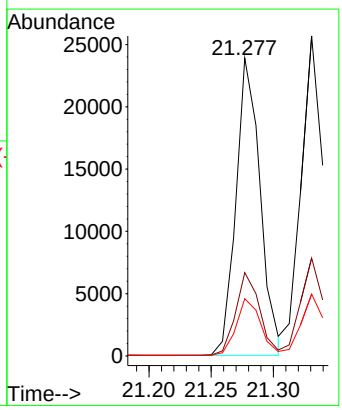


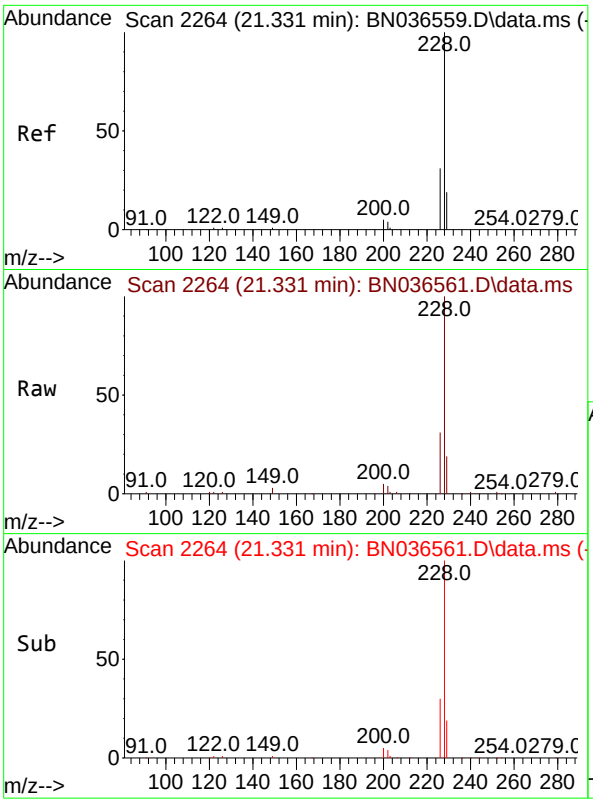




#32
Benzo(a)anthracene
Concen: 1.550 ng
RT: 21.277 min Scan# 2258
Delta R.T. -0.009 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Tgt Ion:228 Resp: 32205

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 28.0 | 22.5 | 33.7 |
| 229 | 19.2 | 16.6 | 25.0 |



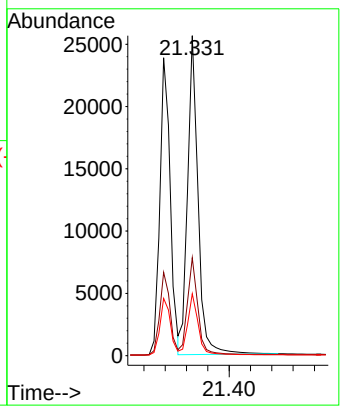


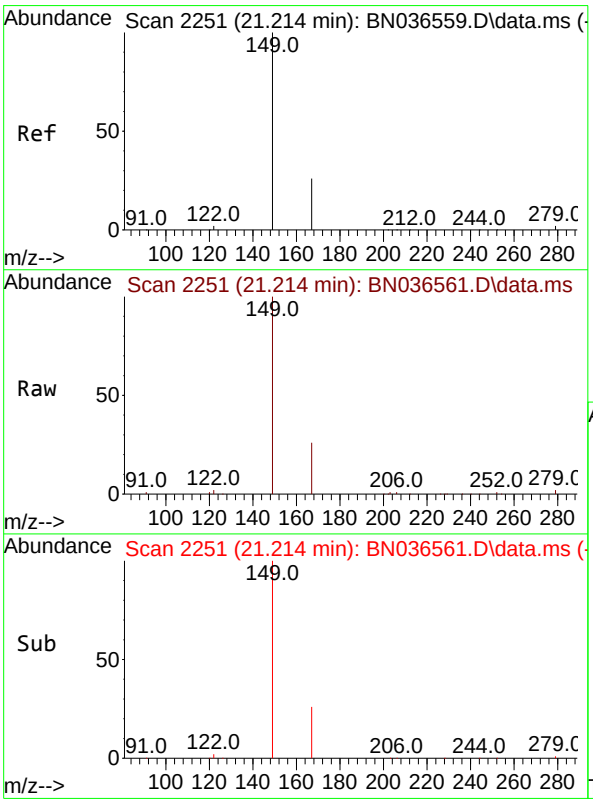

#33
Chrysene
Concen: 1.539 ng
RT: 21.331 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC1.6

Tgt Ion:228 Resp: 34953

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 30.6 | 25.3 | 37.9 |
| 229 | 19.3 | 15.8 | 23.8 |

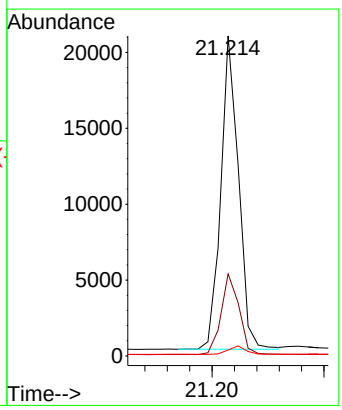


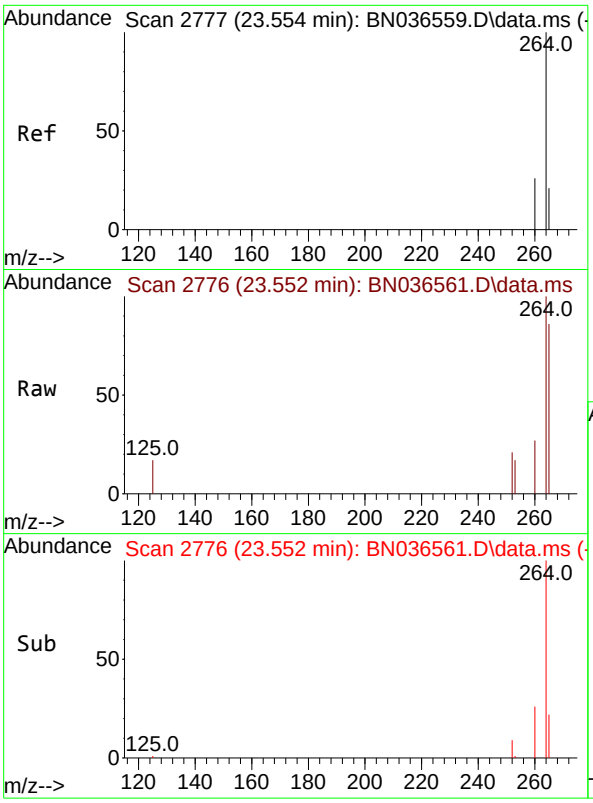




#34
Bis(2-ethylhexyl)phthalate
Concen: 1.529 ng
RT: 21.214 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Tgt Ion:149 Resp: 22621

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 26.3 | 20.7 | 31.1 |
| 279 | 2.7 | 3.6 | 5.4# |



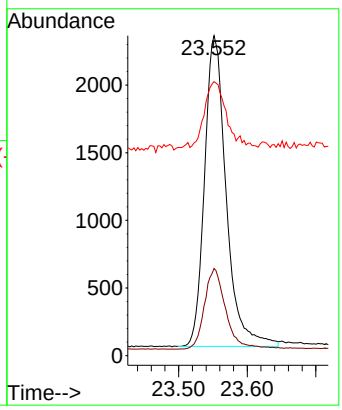


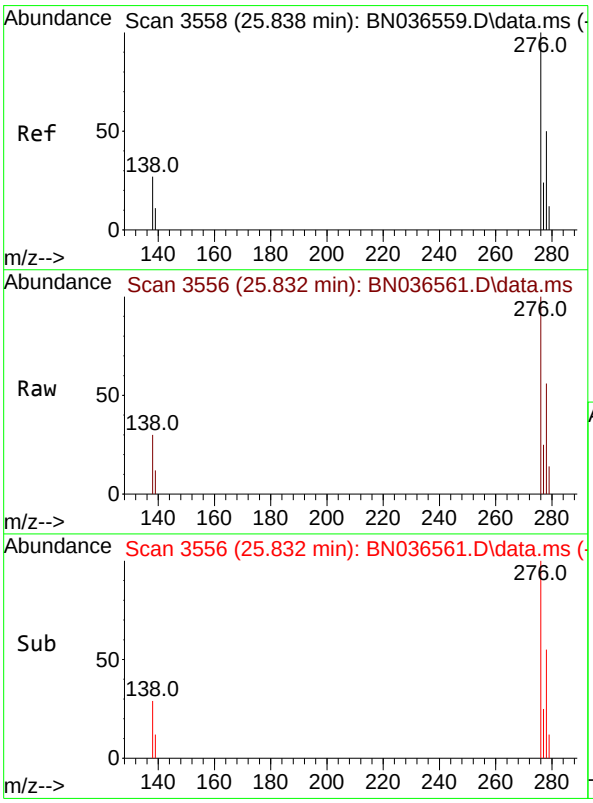

#35
Perylene-d12
Concen: 0.400 ng
RT: 23.552 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC1.6

Tgt Ion:264 Resp: 5048

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 27.2 | 22.6 | 33.8 |
| 265 | 85.7 | 88.1 | 132.1# |

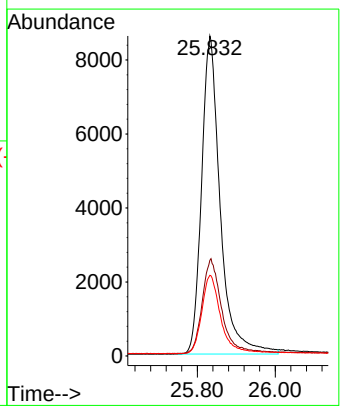


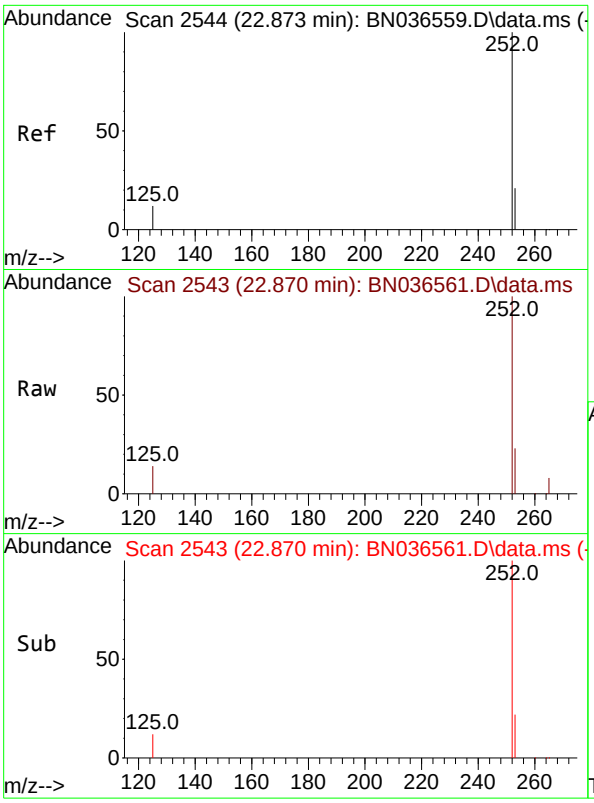




#36
Indeno(1,2,3-cd)pyrene
Concen: 1.570 ng
RT: 25.832 min Scan# 3556
Delta R.T. -0.006 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Tgt Ion:276 Resp: 28605

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 30.4 | 23.4 | 35.2 |
| 277 | 24.9 | 20.0 | 30.0 |



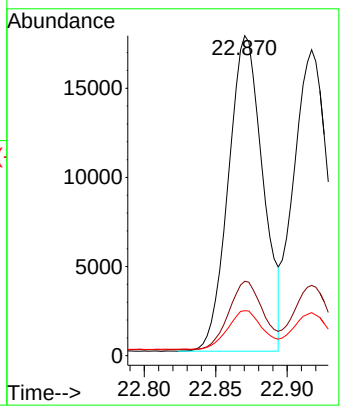


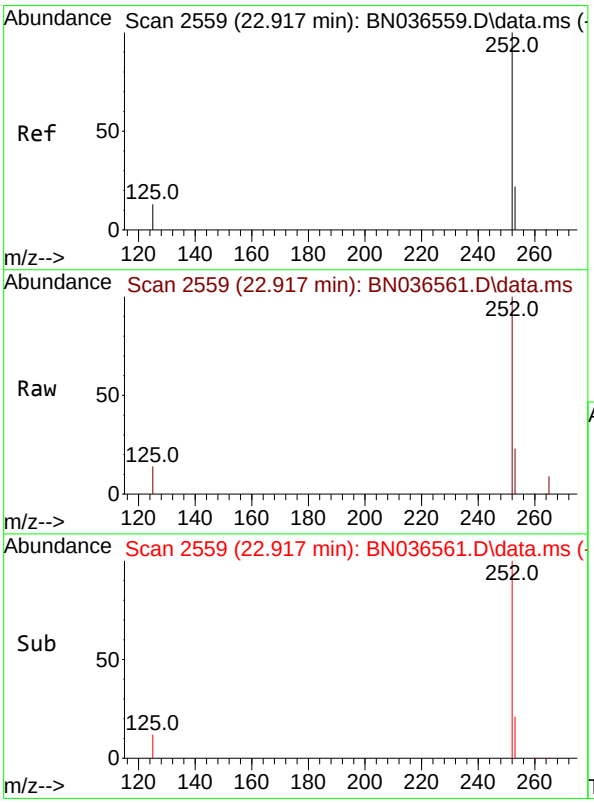

#37
Benzo(b)fluoranthene
Concen: 1.623 ng
RT: 22.870 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC1.6

Tgt Ion:252 Resp: 29819

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 23.3 | 23.9 | 35.9# |
| 125 | 14.0 | 17.4 | 26.2# |

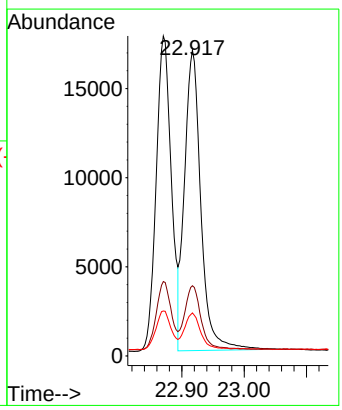


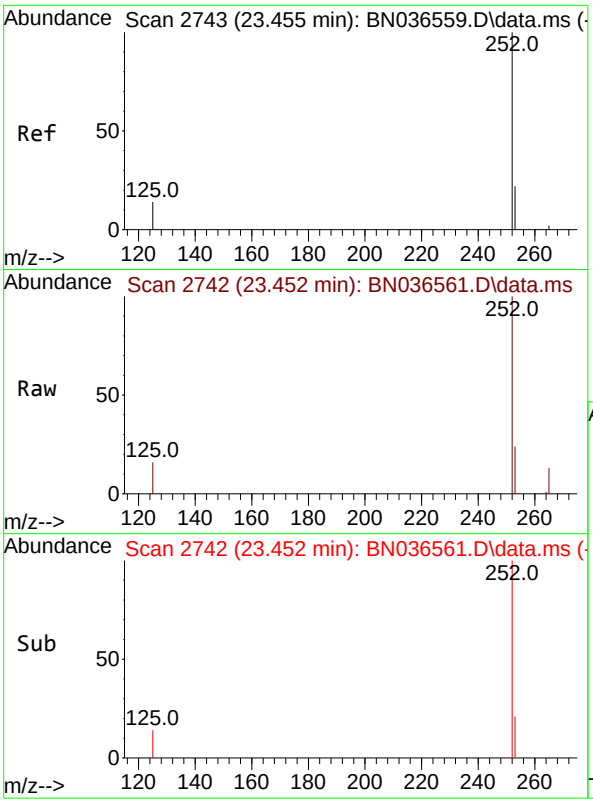




#38
Benzo(k)fluoranthene
Concen: 1.593 ng
RT: 22.917 min Scan# 2559
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Tgt Ion:252 Resp: 30710

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 23.0 | 24.6 | 36.8# |
| 125 | 14.1 | 17.8 | 26.8# |



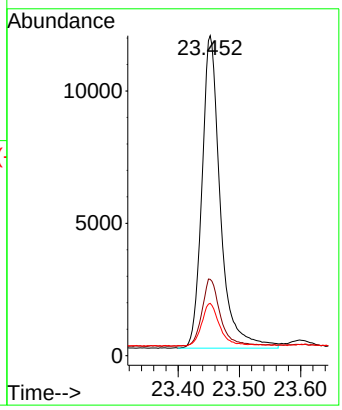


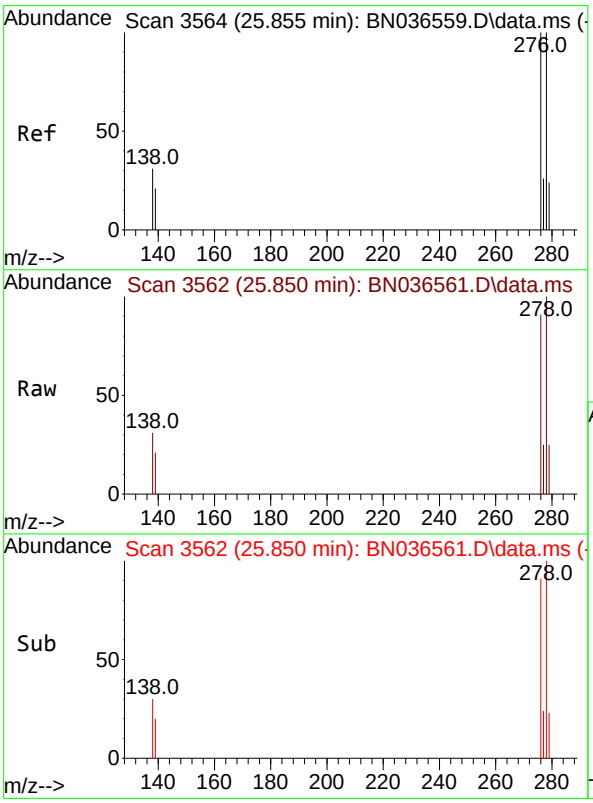

#39
Benzo(a)pyrene
Concen: 1.596 ng
RT: 23.452 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC1.6

Tgt Ion:252 Resp: 24696

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 23.9 | 27.8 | 41.8# |
| 125 | 16.3 | 22.7 | 34.1# |

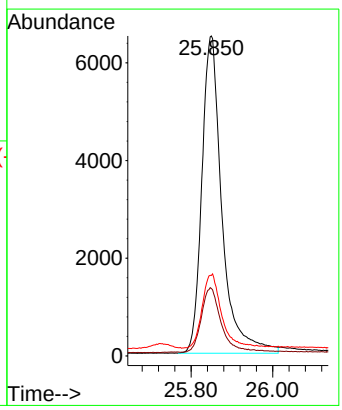


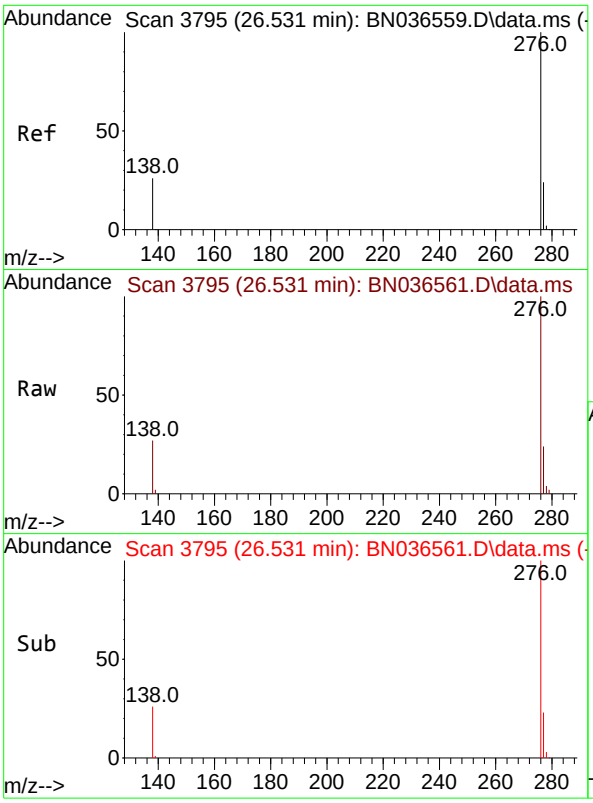




#40
Dibenzo(a,h)anthracene
Concen: 1.569 ng
RT: 25.850 min Scan# 3562
Delta R.T. -0.006 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Tgt Ion:278 Resp: 22248

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 21.1 | 20.8 | 31.2 |
| 279 | 25.1 | 28.8 | 43.2# |



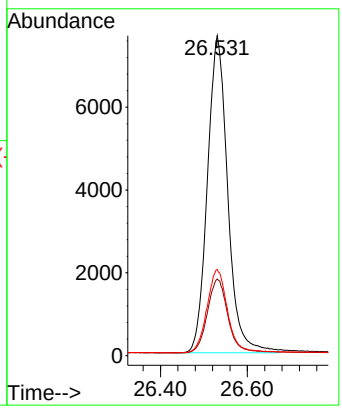



#41
Benzo(g,h,i)perylene
Concen: 1.535 ng
RT: 26.531 min Scan# 3
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC1.6

Tgt Ion:276 Resp: 24906

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 23.9 | 22.2 | 33.4 |
| 138 | 26.9 | 24.1 | 36.1 |



Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036562.D
Acq On : 10 Mar 2025 14:43
Operator : RC/JU
Sample : SSTDICC3.2
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC3.2

Quant Time: Mar 10 16:02:50 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:54:23 2025
Response via : Initial Calibration

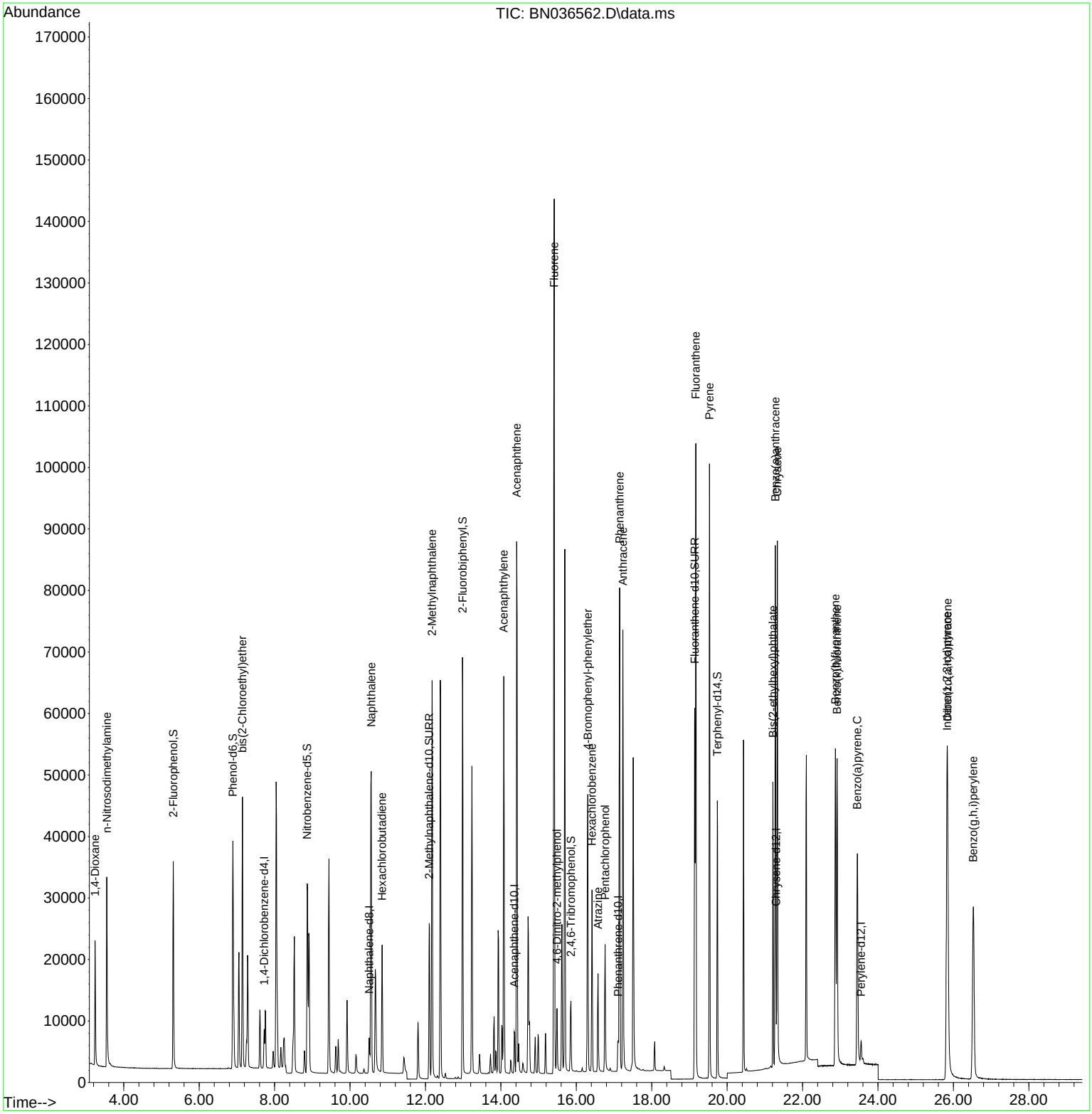
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.724 | 152 | 2890 | 0.400 | ng | | 0.00 |
| 7) Naphthalene-d8 | 10.509 | 136 | 6824 | 0.400 | ng | | 0.00 |
| 13) Acenaphthene-d10 | 14.355 | 164 | 3957 | 0.400 | ng | | -0.01 |
| 19) Phenanthrene-d10 | 17.111 | 188 | 7488 | 0.400 | ng | | 0.00 |
| 29) Chrysene-d12 | 21.295 | 240 | 5439 | 0.400 | ng | | 0.00 |
| 35) Perylene-d12 | 23.551 | 264 | 5002 | 0.400 | ng | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 4) 2-Fluorophenol | 5.312 | 112 | 23032 | 3.420 | ng | | 0.00 |
| 5) Phenol-d6 | 6.894 | 99 | 28996 | 3.485 | ng | | 0.00 |
| 8) Nitrobenzene-d5 | 8.864 | 82 | 24586 | 3.312 | ng | | -0.01 |
| 11) 2-Methylnaphthalene-d10 | 12.101 | 152 | 34578 | 3.407 | ng | | -0.01 |
| 14) 2,4,6-Tribromophenol | 15.858 | 330 | 6252 | 3.482 | ng | | 0.00 |
| 15) 2-Fluorobiphenyl | 12.983 | 172 | 81236 | 3.529 | ng | | 0.00 |
| 27) Fluoranthene-d10 | 19.141 | 212 | 65134 | 3.394 | ng | | 0.00 |
| 31) Terphenyl-d14 | 19.740 | 244 | 42959 | 3.297 | ng | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.239 | 88 | 10288 | 3.209 | ng | | 97 |
| 3) n-Nitrosodimethylamine | 3.550 | 42 | 20412 | 3.147 | ng | # | 96 |
| 6) bis(2-Chloroethyl)ether | 7.146 | 93 | 27978 | 3.253 | ng | | 99 |
| 9) Naphthalene | 10.562 | 128 | 66694 | 3.323 | ng | | 96 |
| 10) Hexachlorobutadiene | 10.850 | 225 | 15618 | 3.305 | ng | # | 99 |
| 12) 2-Methylnaphthalene | 12.177 | 142 | 43768 | 3.427 | ng | | 97 |
| 16) Acenaphthylene | 14.077 | 152 | 65654 | 3.516 | ng | | 99 |
| 17) Acenaphthene | 14.420 | 154 | 42378 | 3.467 | ng | | 97 |
| 18) Fluorene | 15.414 | 166 | 56295 | 3.404 | ng | | 100 |
| 20) 4,6-Dinitro-2-methylph... | 15.489 | 198 | 6567 | 3.315 | ng | # | 58 |
| 21) 4-Bromophenyl-phenylether | 16.304 | 248 | 16652 | 3.549 | ng | # | 82 |
| 22) Hexachlorobenzene | 16.416 | 284 | 19287 | 3.406 | ng | | 100 |
| 23) Atrazine | 16.577 | 200 | 12969 | 3.448 | ng | # | 90 |
| 24) Pentachlorophenol | 16.764 | 266 | 9625 | 3.726 | ng | | 99 |
| 25) Phenanthrene | 17.148 | 178 | 77903 | 3.468 | ng | | 99 |
| 26) Anthracene | 17.235 | 178 | 72775 | 3.590 | ng | | 99 |
| 28) Fluoranthene | 19.169 | 202 | 86688 | 3.436 | ng | | 99 |
| 30) Pyrene | 19.531 | 202 | 86694 | 3.260 | ng | | 100 |
| 32) Benzo(a)anthracene | 21.277 | 228 | 66496 | 3.516 | ng | | 99 |
| 33) Chrysene | 21.331 | 228 | 70334 | 3.403 | ng | | 99 |
| 34) Bis(2-ethylhexyl)phtha... | 21.214 | 149 | 39682 | 2.947 | ng | # | 98 |
| 36) Indeno(1,2,3-cd)pyrene | 25.829 | 276 | 67767 | 3.754 | ng | | 98 |
| 37) Benzo(b)fluoranthene | 22.870 | 252 | 63823 | 3.506 | ng | # | 84 |
| 38) Benzo(k)fluoranthene | 22.914 | 252 | 65410 | 3.425 | ng | # | 83 |
| 39) Benzo(a)pyrene | 23.452 | 252 | 54009 | 3.523 | ng | # | 77 |
| 40) Dibenzo(a,h)anthracene | 25.843 | 278 | 54058 | 3.846 | ng | # | 84 |
| 41) Benzo(g,h,i)perylene | 26.528 | 276 | 57986 | 3.606 | ng | | 94 |

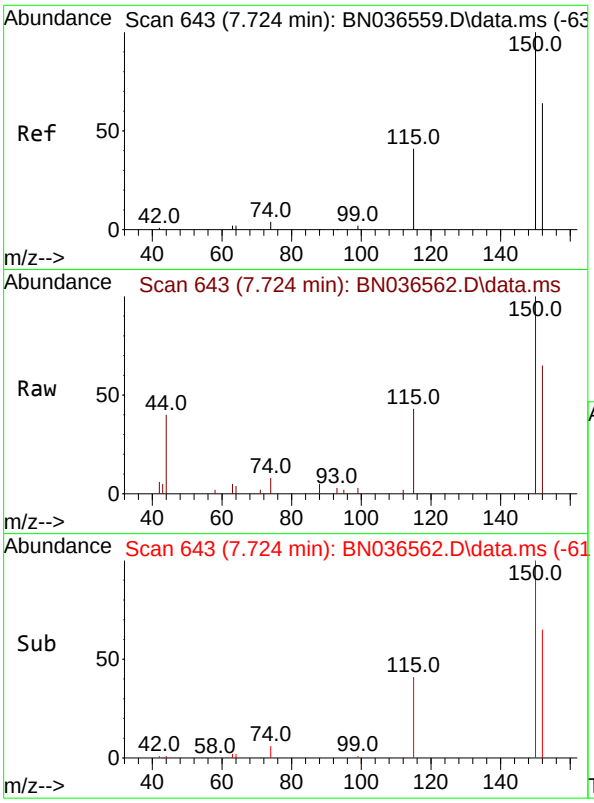
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036562.D
Acq On : 10 Mar 2025 14:43
Operator : RC/JU
Sample : SSTDICC3.2
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC3.2

Quant Time: Mar 10 16:02:50 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:54:23 2025
Response via : Initial Calibration



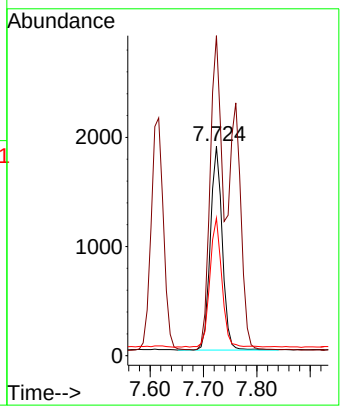


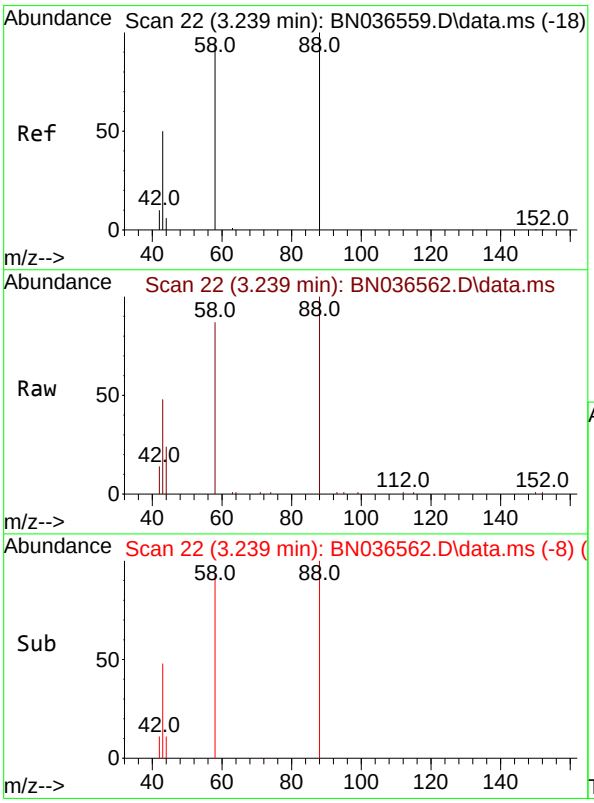

#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC3.2

Tgt Ion:152 Resp: 2890

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 152.9 | 123.7 | 185.5 |
| 115 | 65.7 | 54.3 | 81.5 |

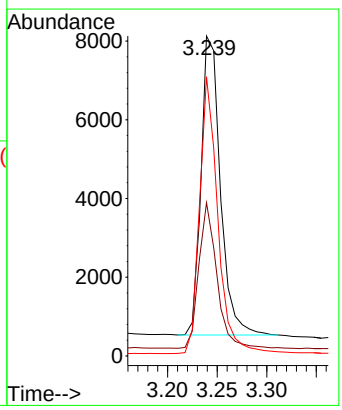


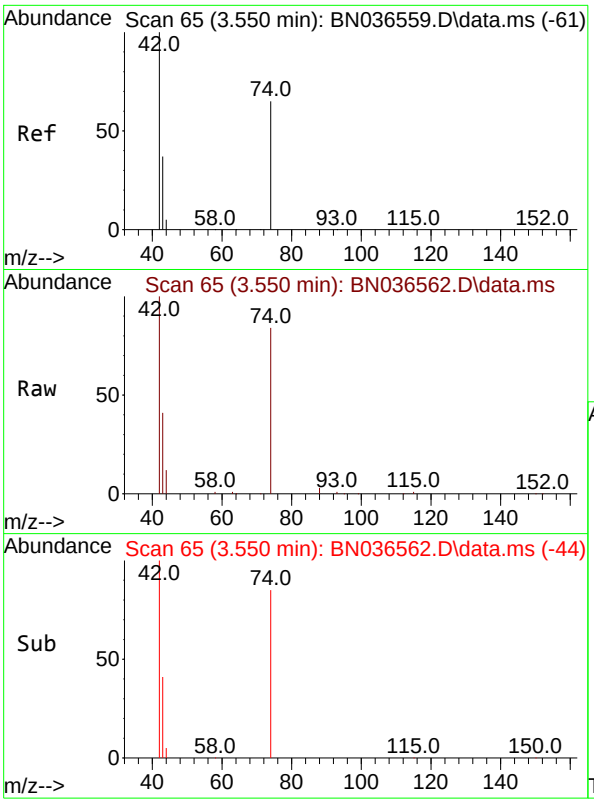




#2
1,4-Dioxane
Concen: 3.209 ng
RT: 3.239 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Tgt Ion: 88 Resp: 10288

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 45.2 | 37.8 | 56.8 |
| 58 | 87.2 | 67.4 | 101.2 |



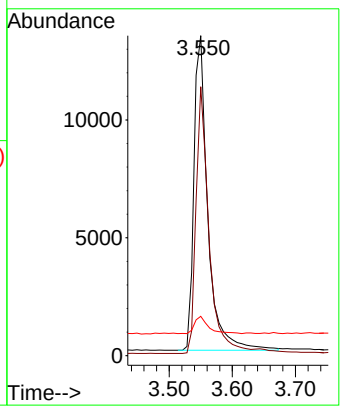


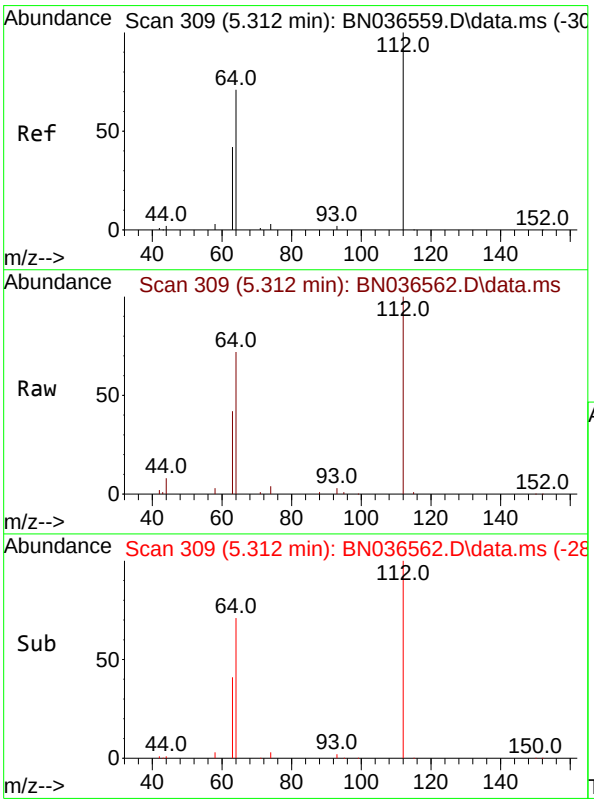

#3
n-Nitrosodimethylamine
Concen: 3.147 ng
RT: 3.550 min Scan# 6
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC3.2

Tgt Ion: 42 Resp: 20412

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 78.8 | 60.6 | 90.8 |
| 44 | 5.5 | 6.3 | 9.5# |

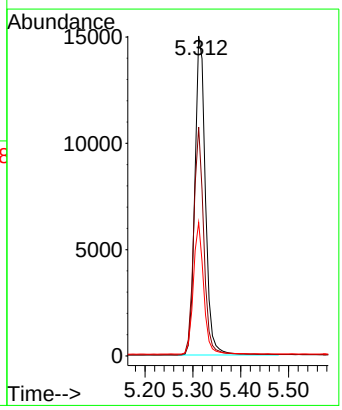


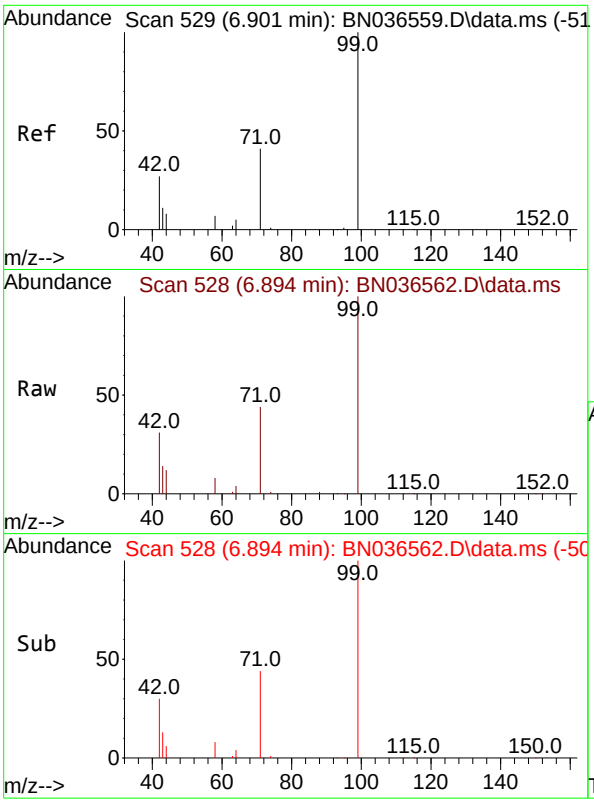




#4
2-Fluorophenol
Concen: 3.420 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Tgt Ion:112 Resp: 23032

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 68.4 | 53.1 | 79.7 |
| 63 | 39.8 | 31.8 | 47.8 |



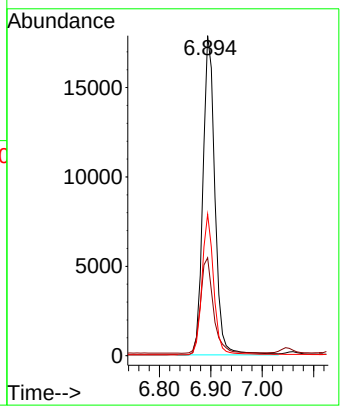


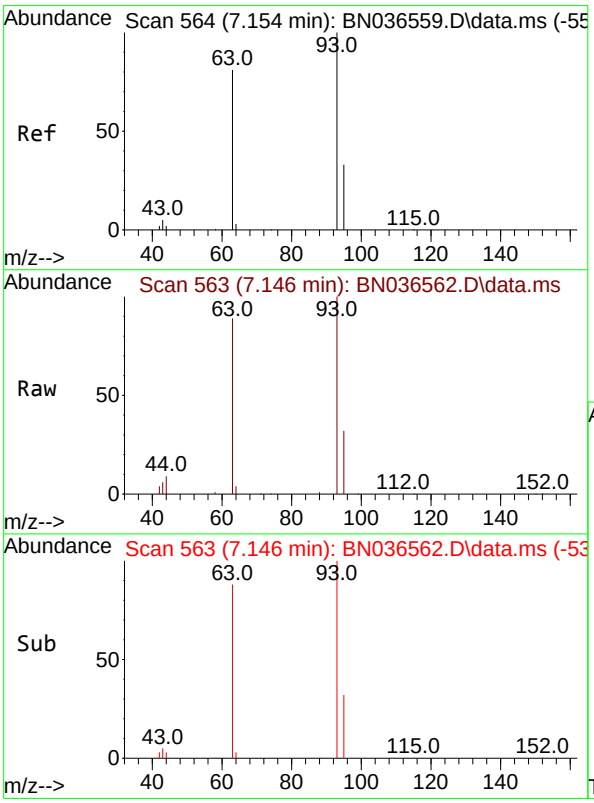

#5
Phenol-d6
Concen: 3.485 ng
RT: 6.894 min Scan# 5
Delta R.T. -0.007 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC3.2

Tgt Ion: 99 Resp: 28996

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 32.3 | 26.5 | 39.7 |
| 71 | 43.2 | 34.1 | 51.1 |

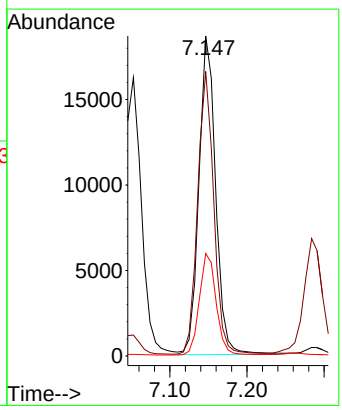


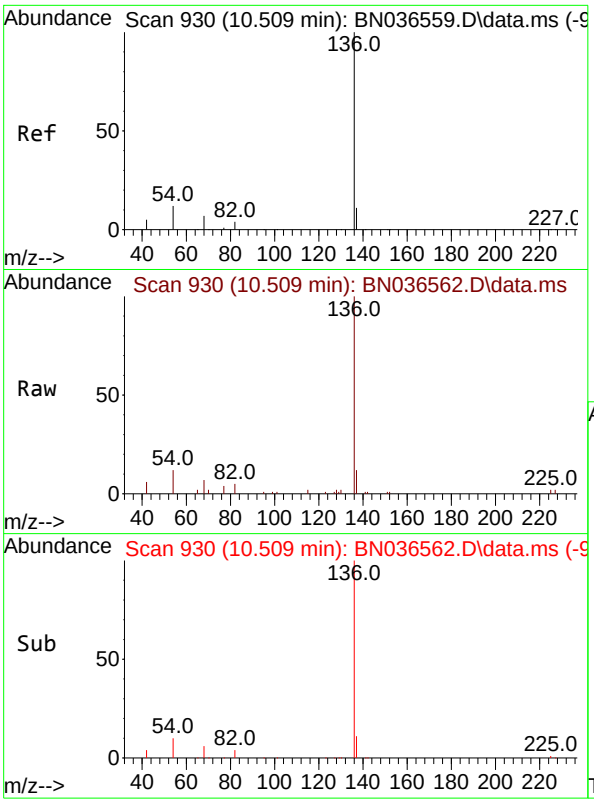




#6
bis(2-Chloroethyl)ether
Concen: 3.253 ng
RT: 7.146 min Scan# 563
Delta R.T. -0.007 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Tgt Ion: 93 Resp: 27978

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 85.7 | 67.7 | 101.5 |
| 95 | 32.0 | 25.6 | 38.4 |



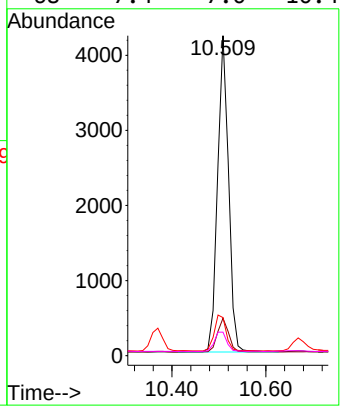


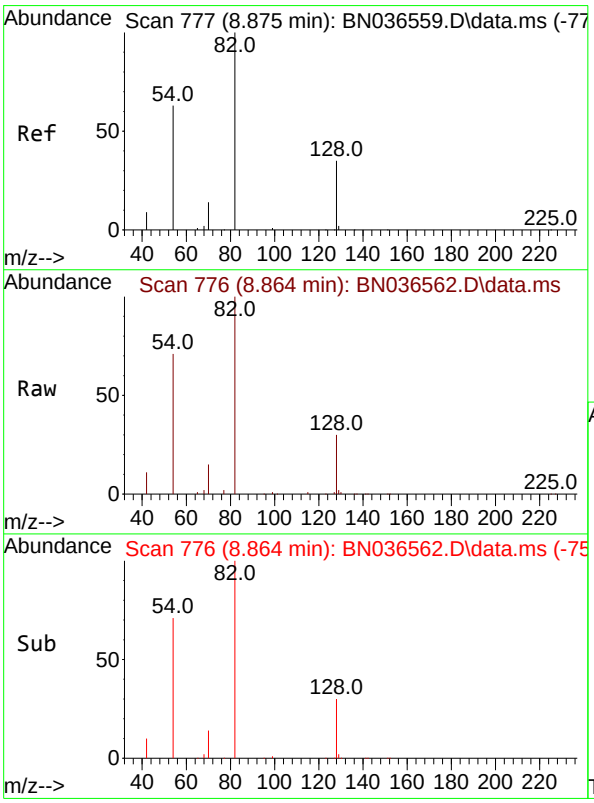

#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC3.2

Tgt Ion:136 Resp: 6824

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.7 | 10.3 | 15.5 |
| 54 | 11.9 | 11.5 | 17.3 |
| 68 | 7.4 | 7.0 | 10.4 |

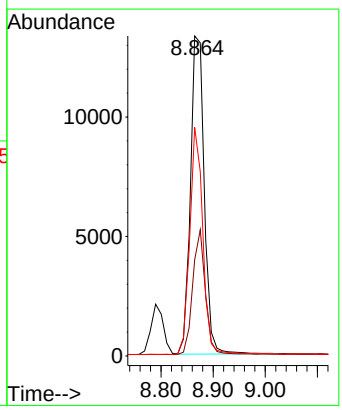


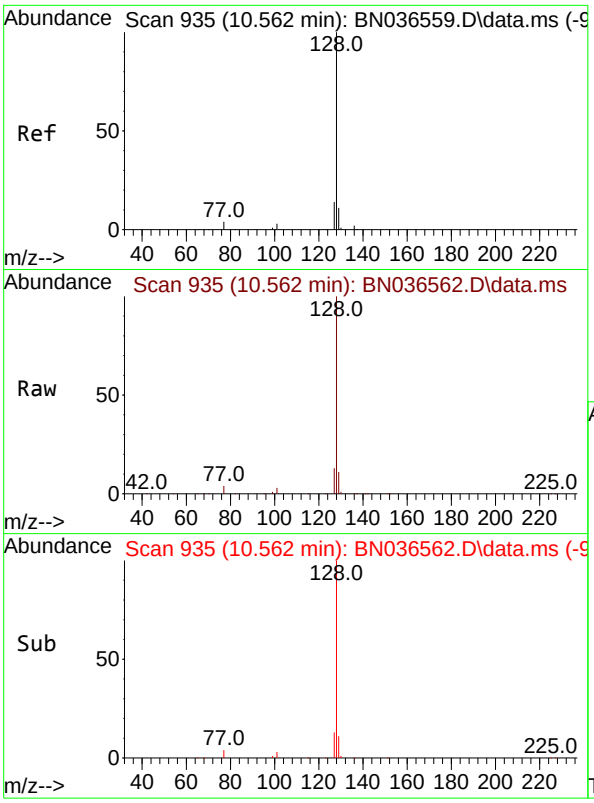




#8
Nitrobenzene-d5
Concen: 3.312 ng
RT: 8.864 min Scan# 776
Delta R.T. -0.011 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Tgt Ion: 82 Resp: 24586

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 30.0 | 30.6 | 45.8# |
| 54 | 71.4 | 52.2 | 78.4 |



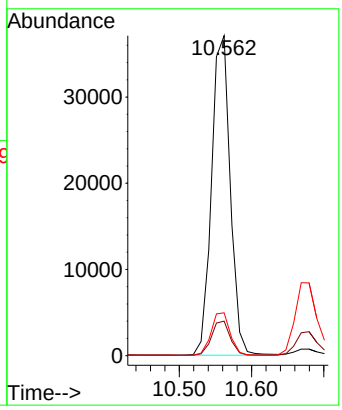


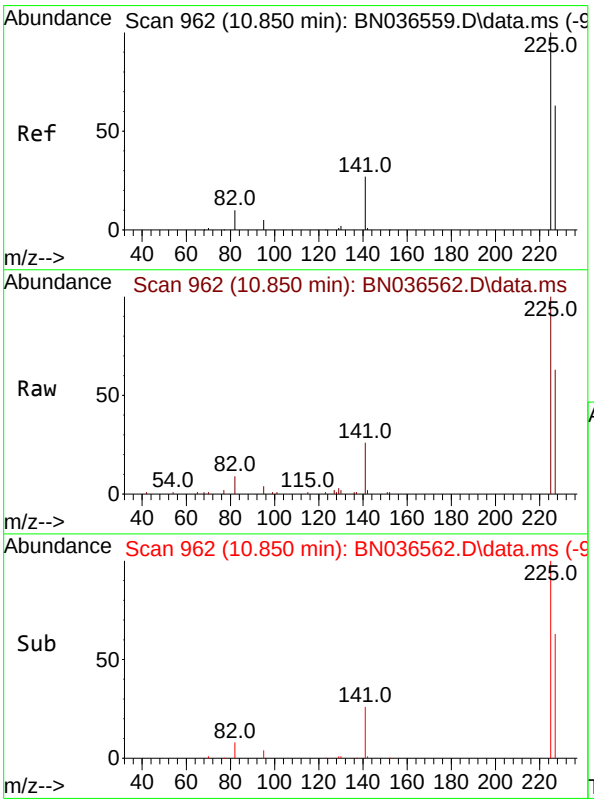

#9
Naphthalene
Concen: 3.323 ng
RT: 10.562 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC3.2

Tgt Ion:128 Resp: 66694

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 10.8 | 9.8 | 14.6 |
| 127 | 13.4 | 11.8 | 17.8 |

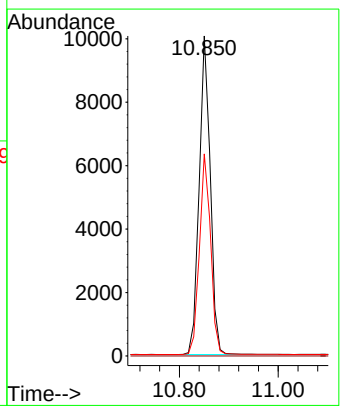


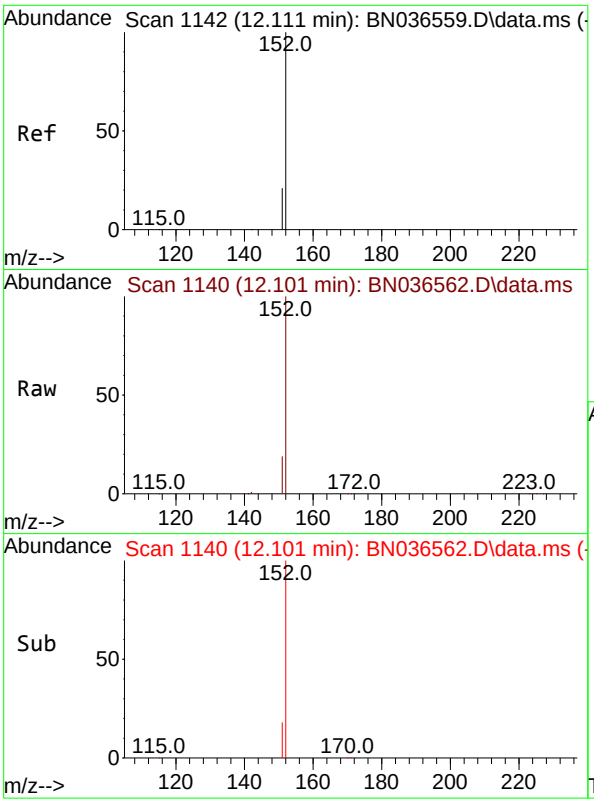




#10
Hexachlorobutadiene
Concen: 3.305 ng
RT: 10.850 min Scan# 962
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Tgt Ion:225 Resp: 15618

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 0.0 | 0.0 | 0.0 |
| 227 | 63.6 | 51.8 | 77.8 |



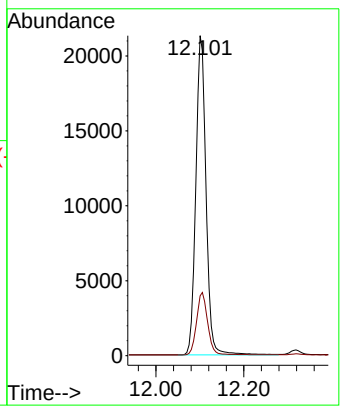


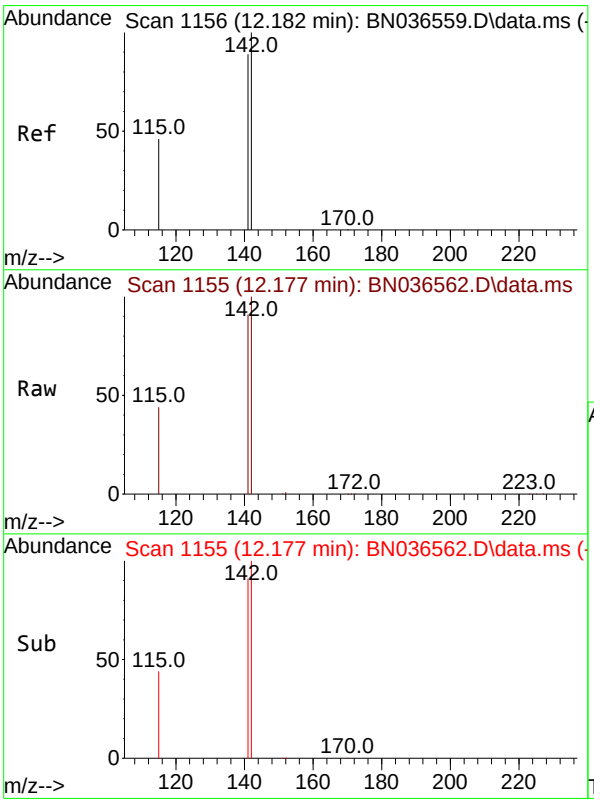

#11
2-Methylnaphthalene-d10
Concen: 3.407 ng
RT: 12.101 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC3.2

Tgt Ion:152 Resp: 34578

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 21.2 | 17.0 | 25.6 |

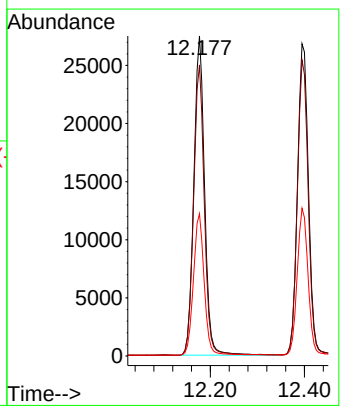


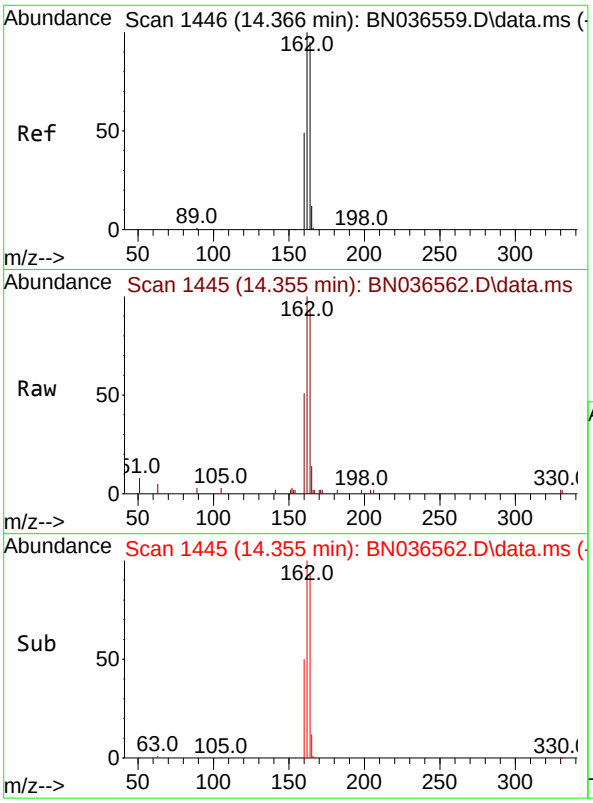




#12
2-Methylnaphthalene
Concen: 3.427 ng
RT: 12.177 min Scan# 1155
Delta R.T. -0.005 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Tgt Ion:142 Resp: 43768

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 90.9 | 71.7 | 107.5 |
| 115 | 44.5 | 38.3 | 57.5 |



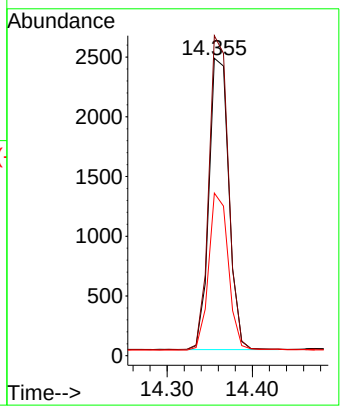


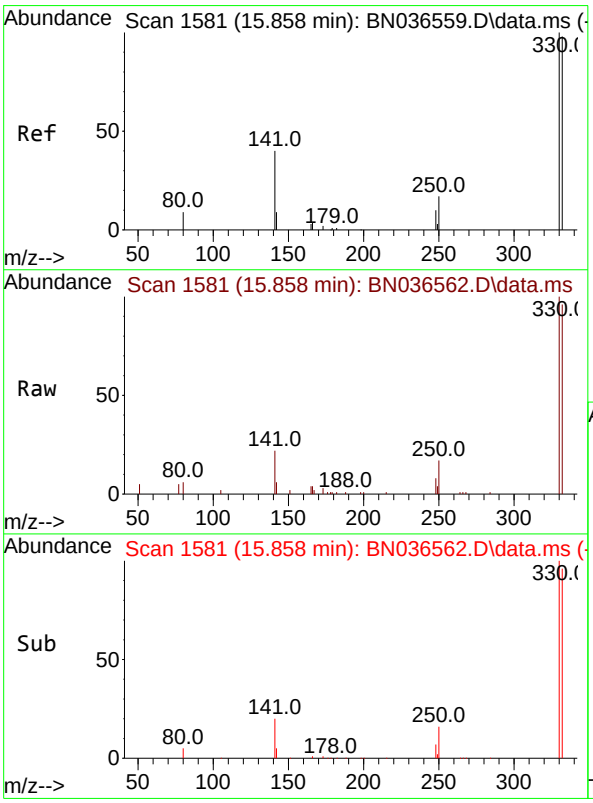

#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.355 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC3.2

Tgt Ion:164 Resp: 3957

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 107.6 | 84.2 | 126.2 |
| 160 | 54.7 | 42.2 | 63.2 |

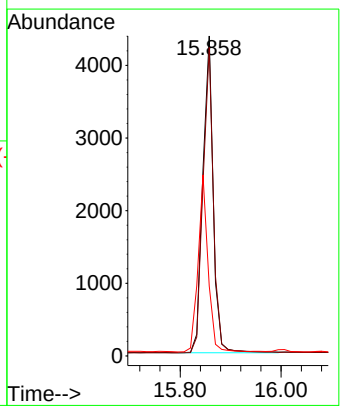


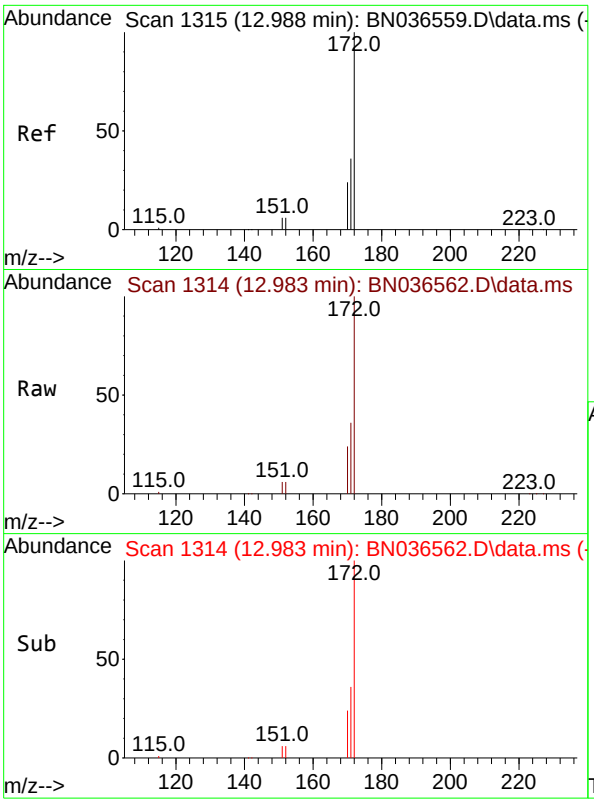




#14
2,4,6-Tribromophenol
Concen: 3.482 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Tgt Ion:330 Resp: 6252

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 96.1 | 75.2 | 112.8 |
| 141 | 53.7 | 43.4 | 65.2 |



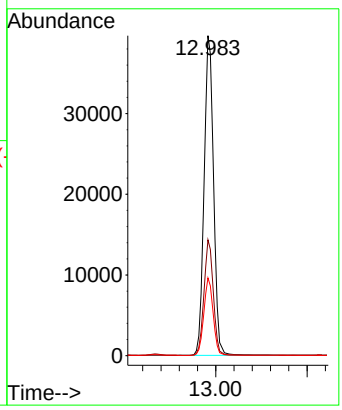


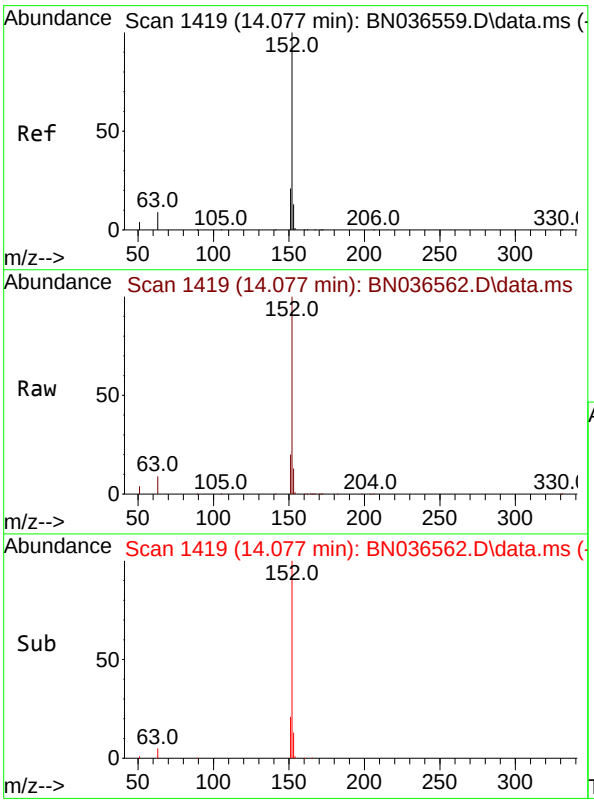

#15
2-Fluorobiphenyl
Concen: 3.529 ng
RT: 12.983 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC3.2

Tgt Ion:172 Resp: 81236

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 36.2 | 29.5 | 44.3 |
| 170 | 24.3 | 20.2 | 30.4 |

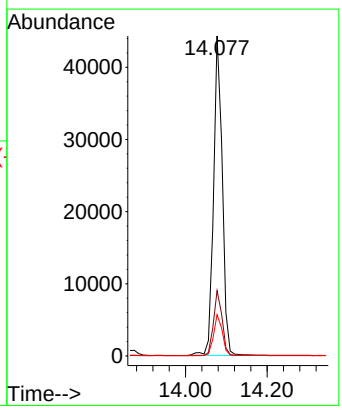


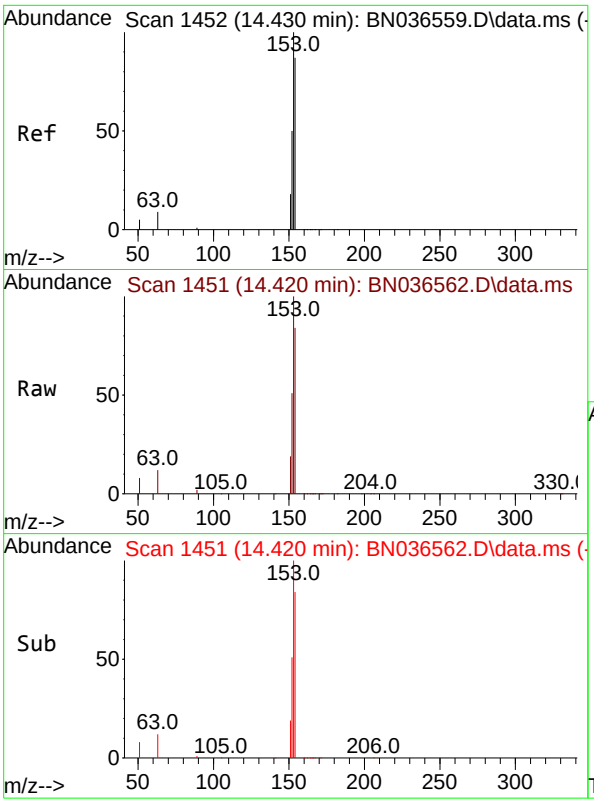




#16
Acenaphthylene
Concen: 3.516 ng
RT: 14.077 min Scan# 1419
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Tgt Ion:152 Resp: 65654

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.0 | 16.2 | 24.4 |
| 153 | 12.8 | 10.6 | 15.8 |



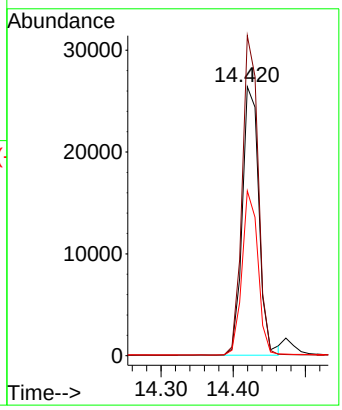


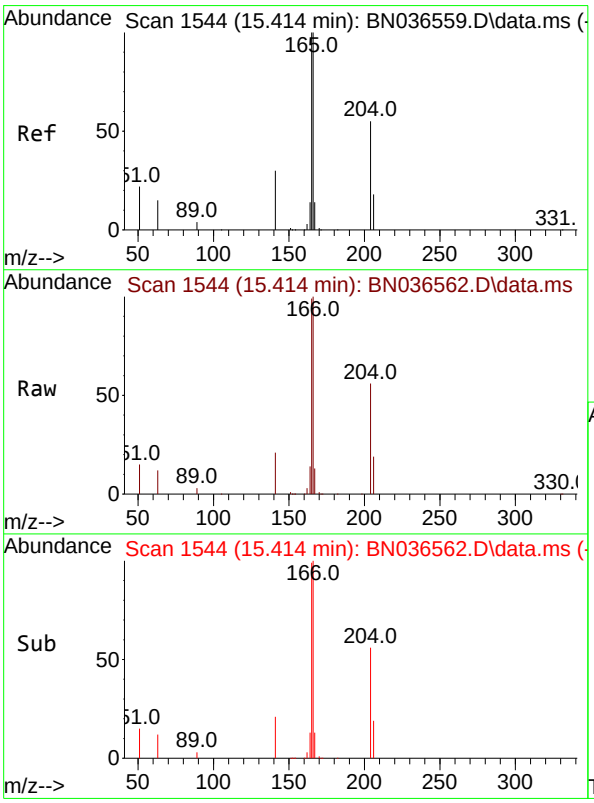

#17
Acenaphthene
Concen: 3.467 ng
RT: 14.420 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC3.2

Tgt Ion:154 Resp: 42378

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 114.6 | 94.1 | 141.1 |
| 152 | 58.9 | 49.8 | 74.6 |

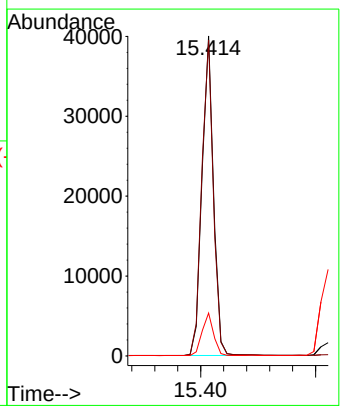


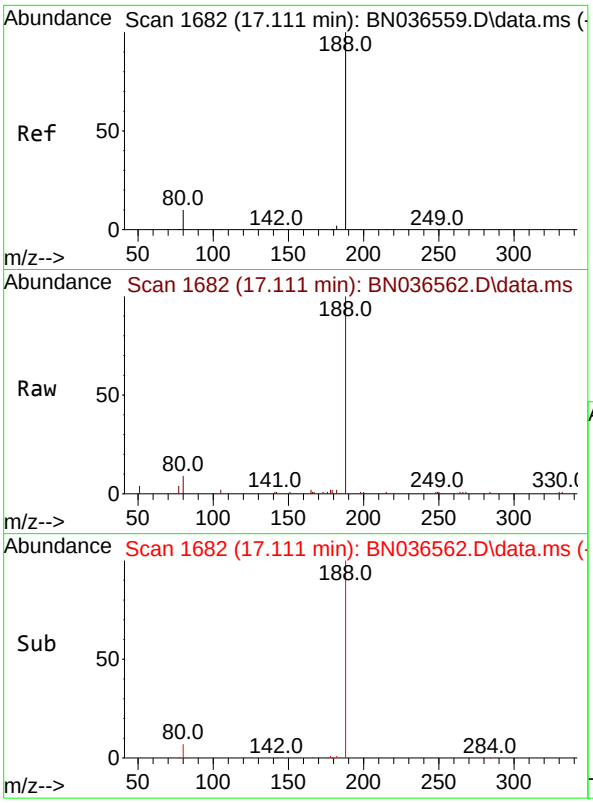




#18
Fluorene
Concen: 3.404 ng
RT: 15.414 min Scan# 1544
Delta R.T. -0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Tgt Ion:166 Resp: 56295

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 100.2 | 79.8 | 119.8 |
| 167 | 13.0 | 10.6 | 15.8 |



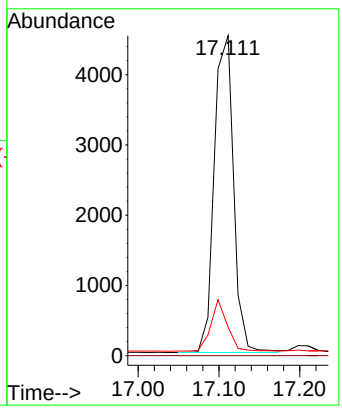


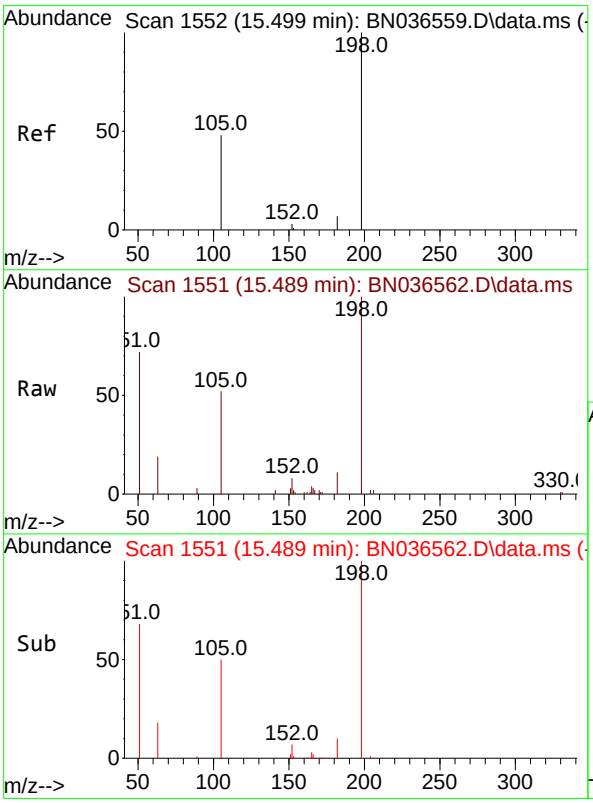

#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.111 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC3.2

Tgt Ion:188 Resp: 7488

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 8.9 | 8.8 | 13.2 |

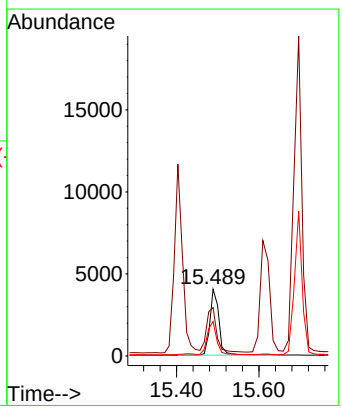


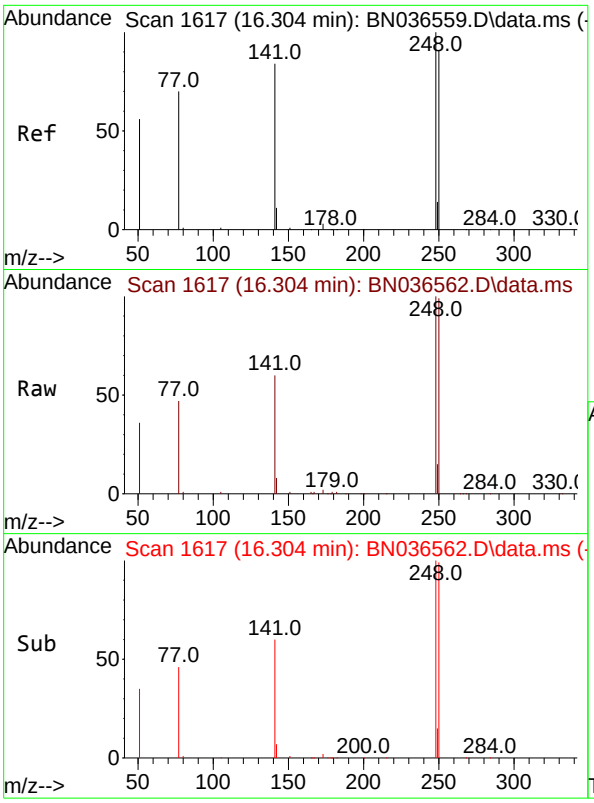




#20
4,6-Dinitro-2-methylphenol
Concen: 3.315 ng
RT: 15.489 min Scan# 1551
Delta R.T. -0.010 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Tgt Ion:198 Resp: 6567

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 198 | 100 | | |
| 51 | 72.3 | 107.9 | 161.9# |
| 105 | 51.5 | 56.2 | 84.2# |



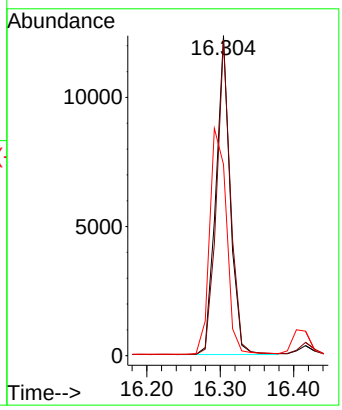


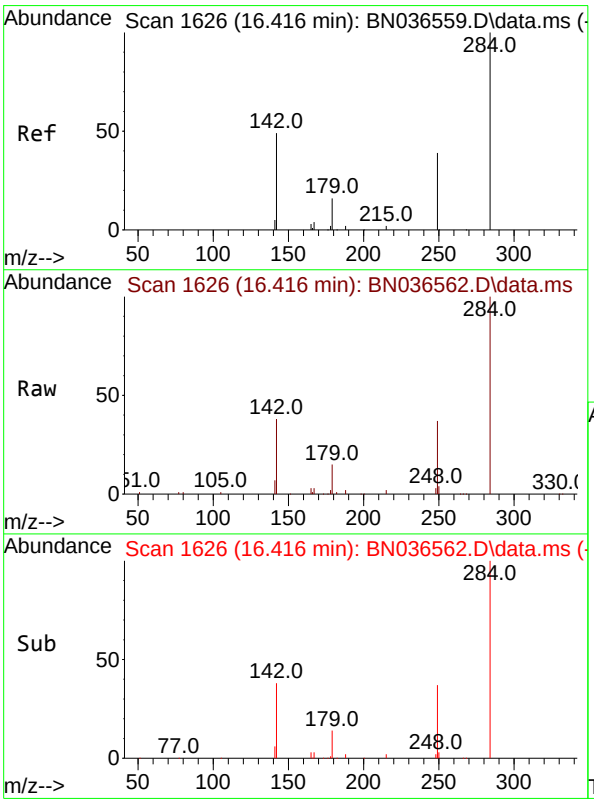

#21
4-Bromophenyl-phenylether
Concen: 3.549 ng
RT: 16.304 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC3.2

Tgt Ion:248 Resp: 16652

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 98.6 | 73.0 | 109.6 |
| 141 | 59.8 | 68.6 | 103.0# |

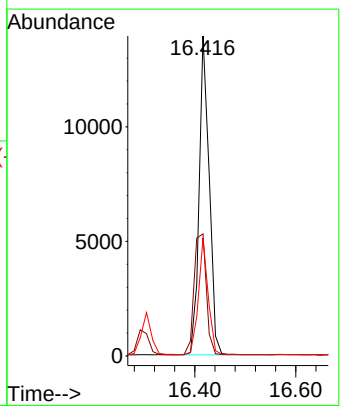


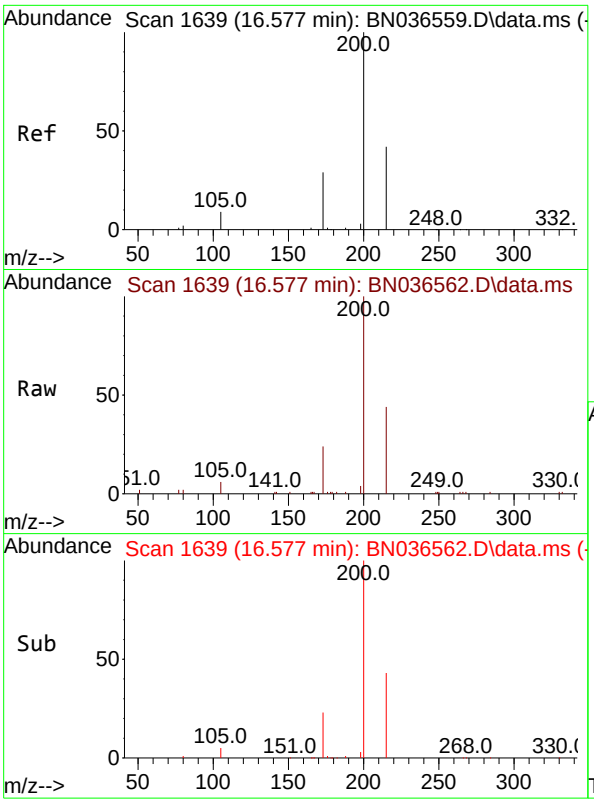




#22
Hexachlorobenzene
Concen: 3.406 ng
RT: 16.416 min Scan# 1626
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Tgt Ion:284 Resp: 19287

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 46.2 | 37.0 | 55.4 |
| 249 | 35.5 | 28.1 | 42.1 |



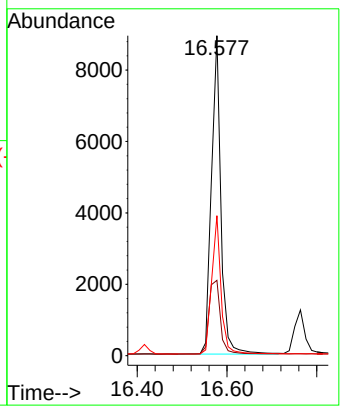


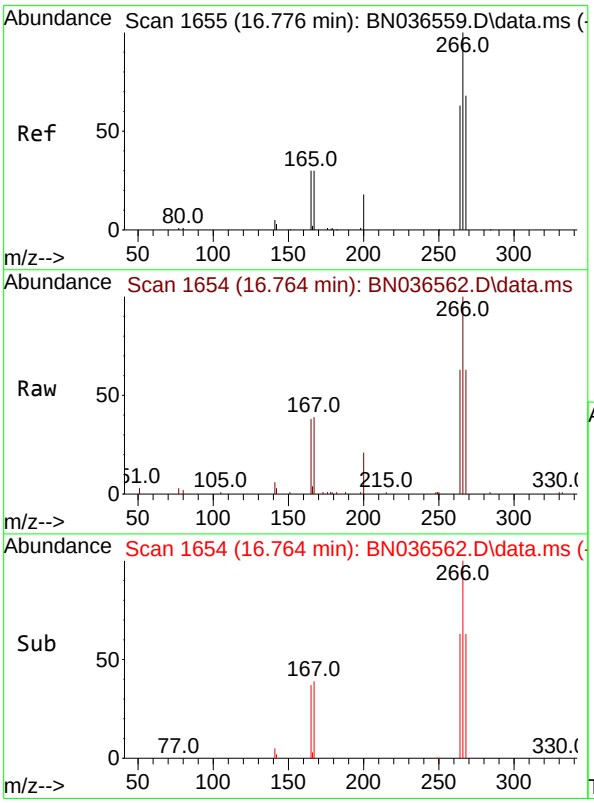

#23
Atrazine
Concen: 3.448 ng
RT: 16.577 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC3.2

Tgt Ion:200 Resp: 12969

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 173 | 23.6 | 27.3 | 40.9# |
| 215 | 43.7 | 36.8 | 55.2 |

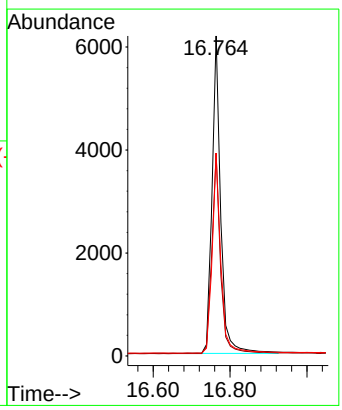


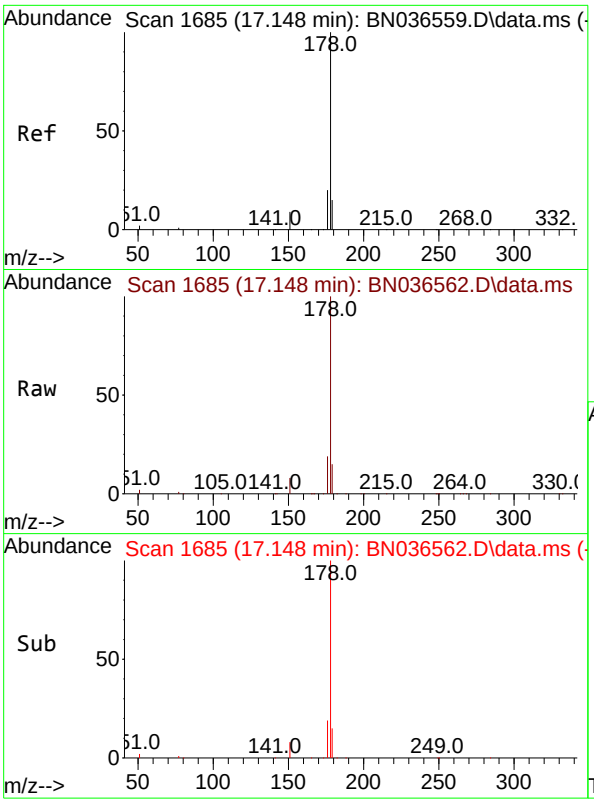




#24
Pentachlorophenol
Concen: 3.726 ng
RT: 16.764 min Scan# 1654
Delta R.T. -0.012 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Tgt Ion:266 Resp: 9625

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 264 | 63.1 | 49.6 | 74.4 |
| 268 | 63.1 | 50.9 | 76.3 |



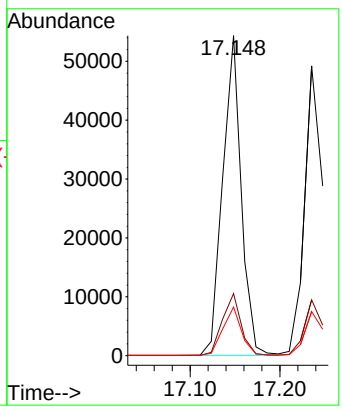


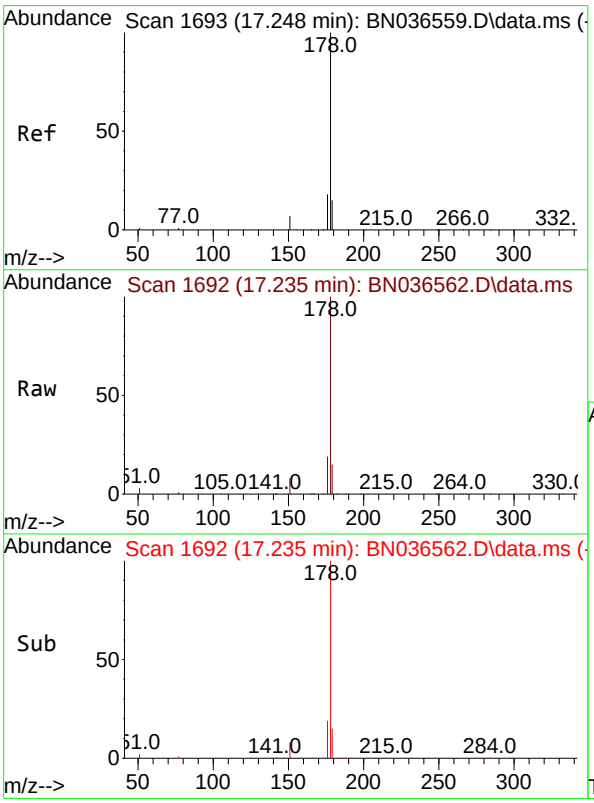

#25
Phenanthrene
Concen: 3.468 ng
RT: 17.148 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC3.2

Tgt Ion:178 Resp: 77903

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.5 | 15.9 | 23.9 |
| 179 | 15.1 | 12.2 | 18.4 |

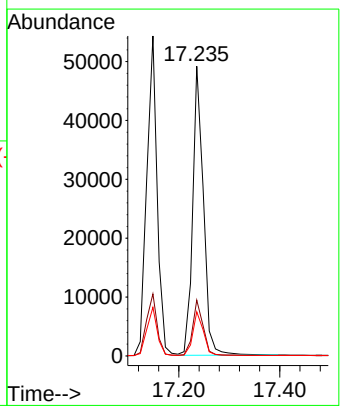


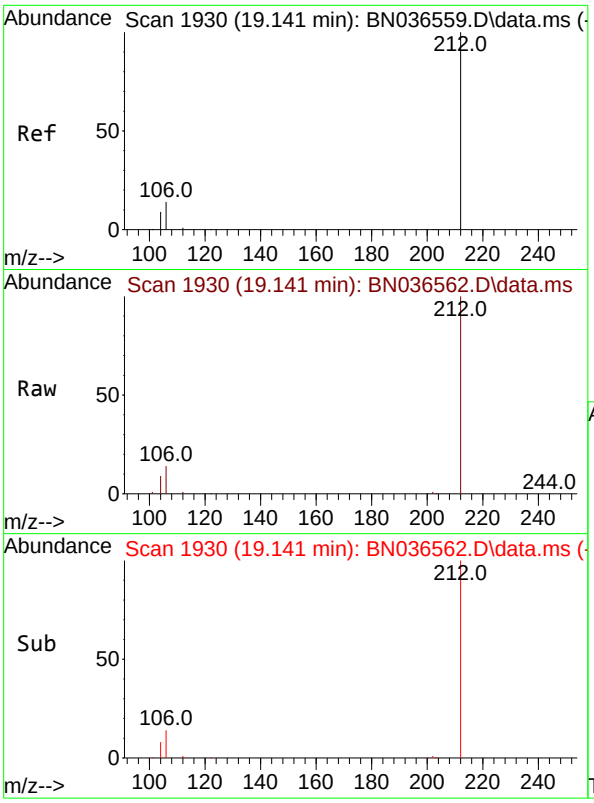




#26
Anthracene
Concen: 3.590 ng
RT: 17.235 min Scan# 1692
Delta R.T. -0.012 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Tgt Ion:178 Resp: 72775

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.9 | 15.4 | 23.2 |
| 179 | 15.2 | 12.6 | 18.8 |



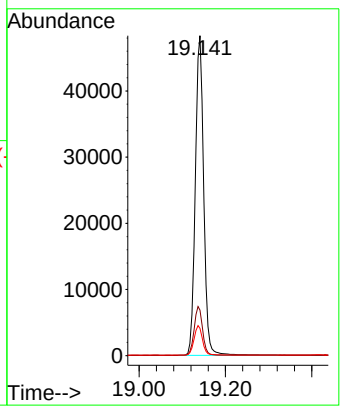


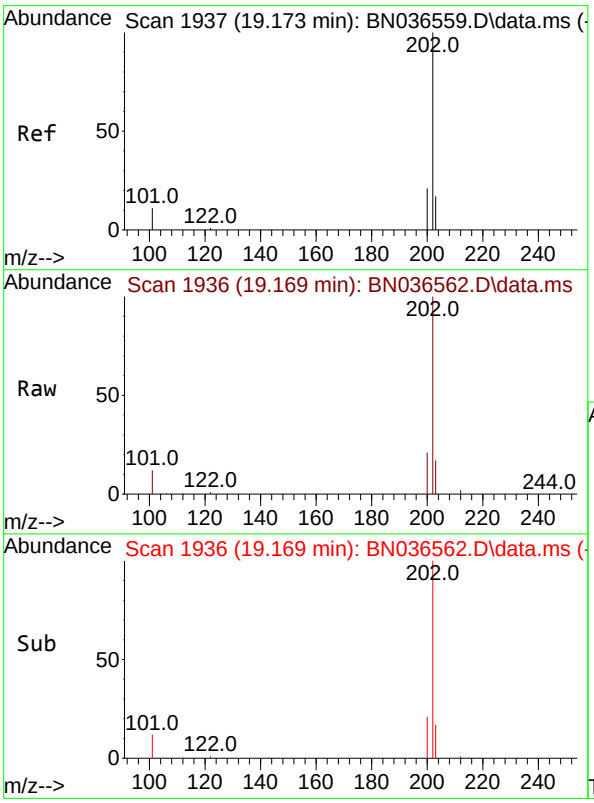

#27
Fluoranthene-d10
Concen: 3.394 ng
RT: 19.141 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC3.2

Tgt Ion:212 Resp: 65134

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 15.4 | 11.8 | 17.6 |
| 104 | 9.2 | 7.3 | 10.9 |

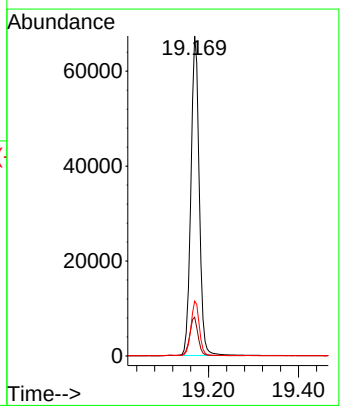


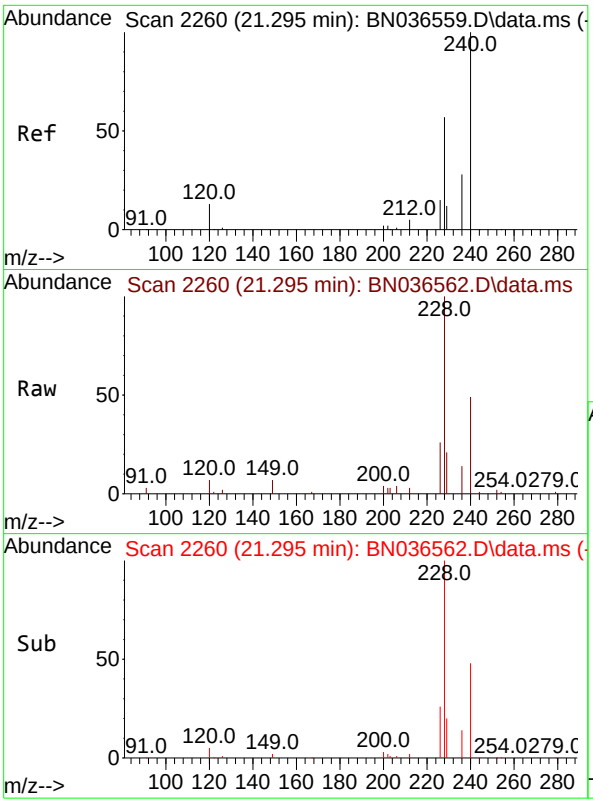




#28
Fluoranthene
Concen: 3.436 ng
RT: 19.169 min Scan# 1936
Delta R.T. -0.005 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Tgt Ion:202 Resp: 86688

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 12.3 | 9.4 | 14.0 |
| 203 | 17.0 | 13.5 | 20.3 |



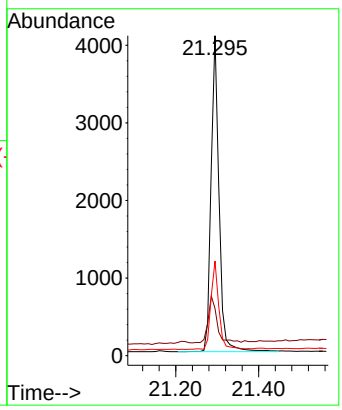


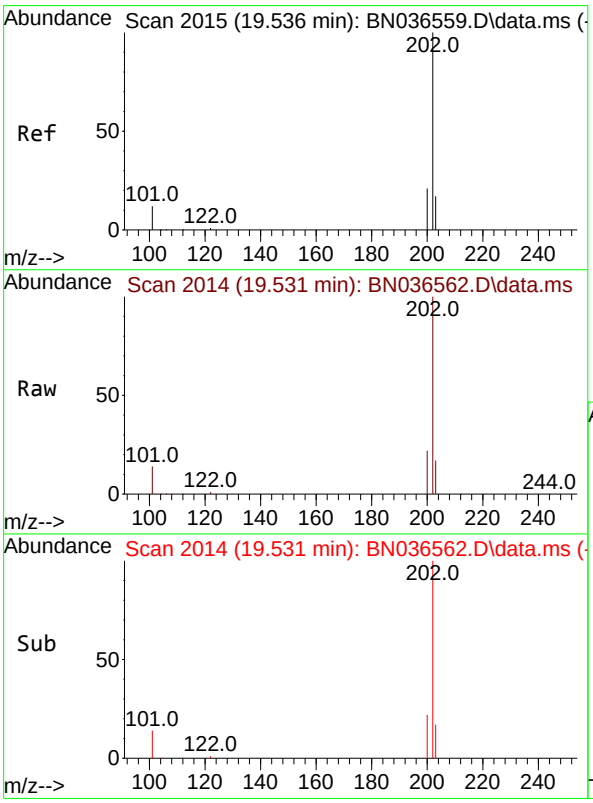

#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC3.2

Tgt Ion:240 Resp: 5439

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 14.8 | 14.6 | 22.0 |
| 236 | 29.5 | 24.1 | 36.1 |

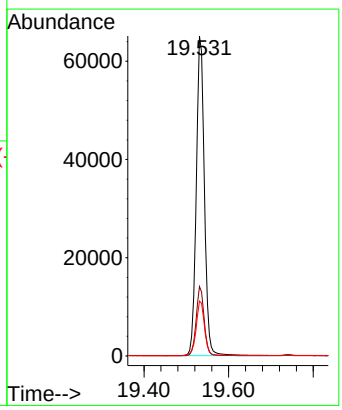


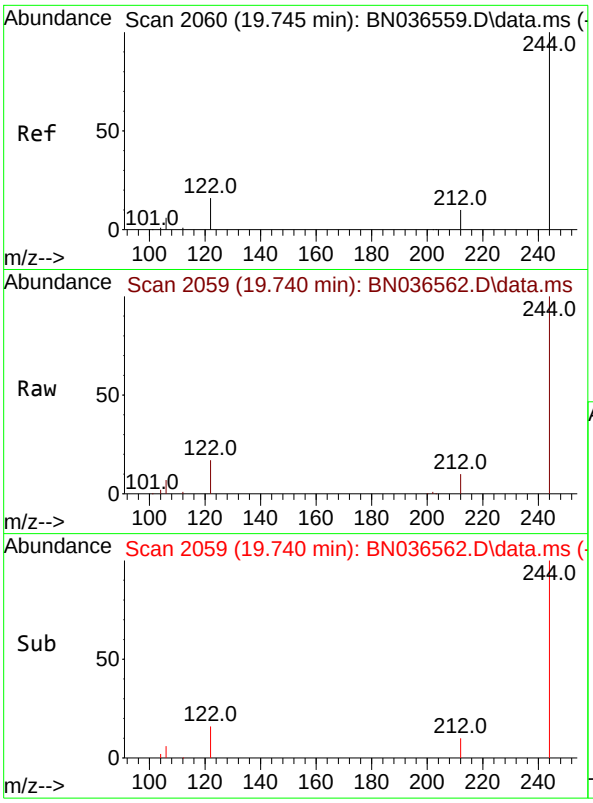




#30
Pyrene
Concen: 3.260 ng
RT: 19.531 min Scan# 2014
Delta R.T. -0.005 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Tgt Ion:202 Resp: 86694

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.4 | 17.1 | 25.7 |
| 203 | 17.6 | 14.1 | 21.1 |



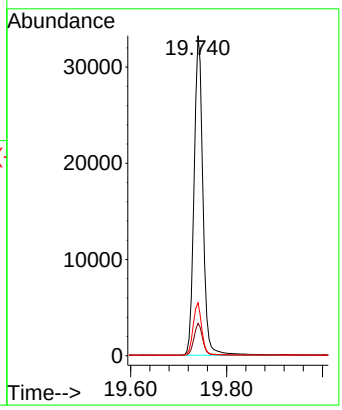


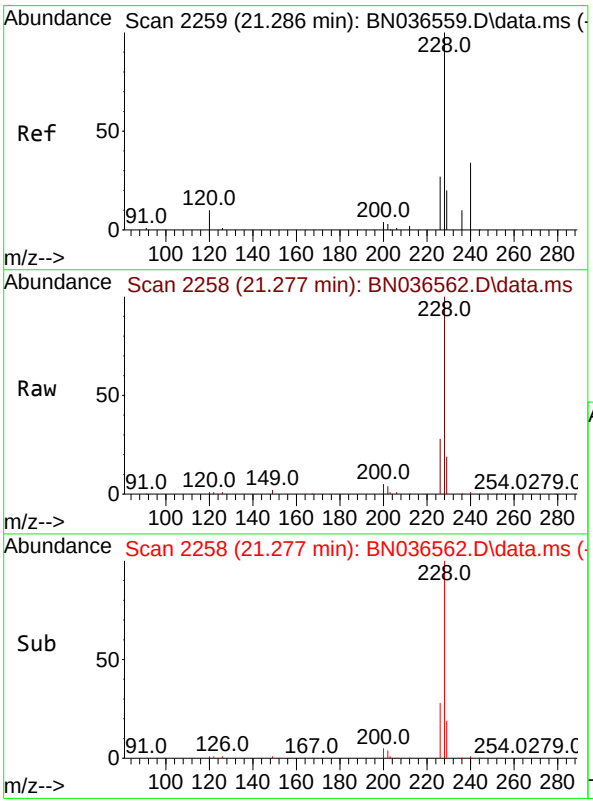

#31
Terphenyl-d14
Concen: 3.297 ng
RT: 19.740 min Scan# 2
Delta R.T. -0.005 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC3.2

Tgt Ion:244 Resp: 42959

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 10.1 | 9.6 | 14.4 |
| 122 | 16.6 | 13.9 | 20.9 |

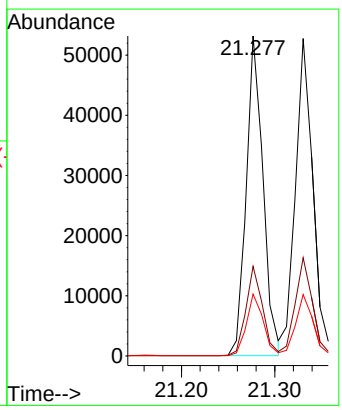


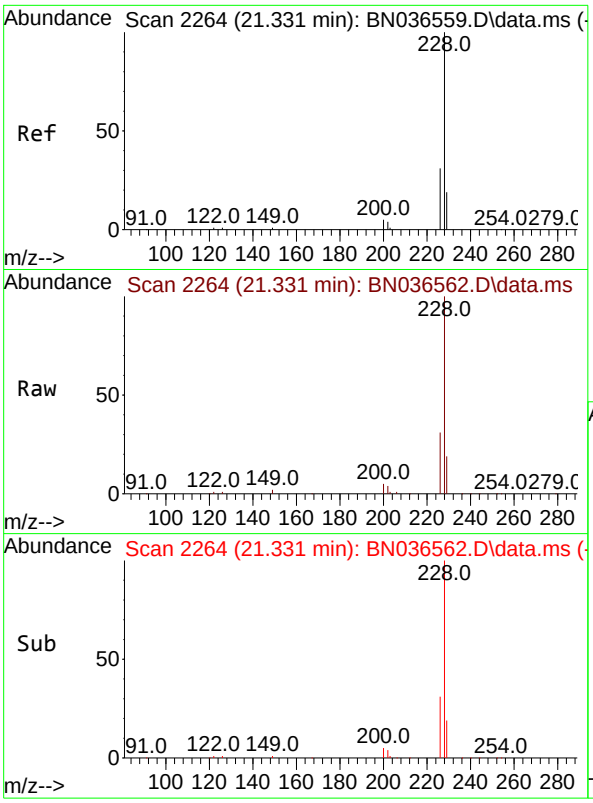




#32
Benzo(a)anthracene
Concen: 3.516 ng
RT: 21.277 min Scan# 2258
Delta R.T. -0.009 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Tgt Ion:228 Resp: 66496

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 28.0 | 22.5 | 33.7 |
| 229 | 19.4 | 16.6 | 25.0 |



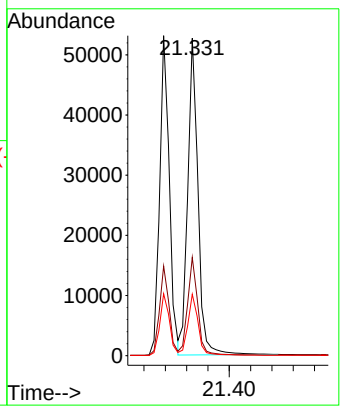


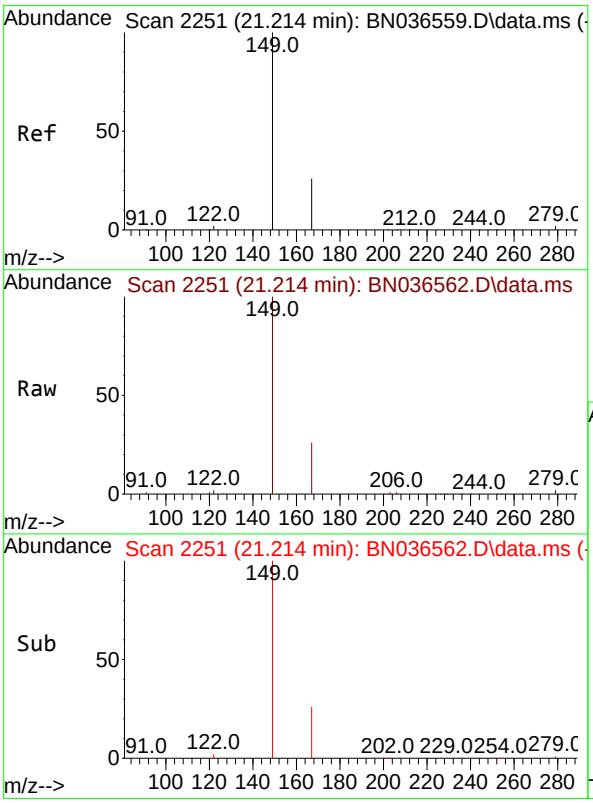

#33
Chrysene
Concen: 3.403 ng
RT: 21.331 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC3.2

Tgt Ion:228 Resp: 70334

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 31.0 | 25.3 | 37.9 |
| 229 | 19.4 | 15.8 | 23.8 |

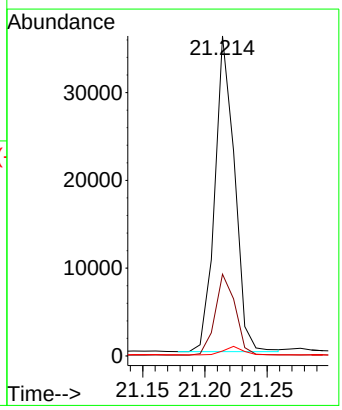


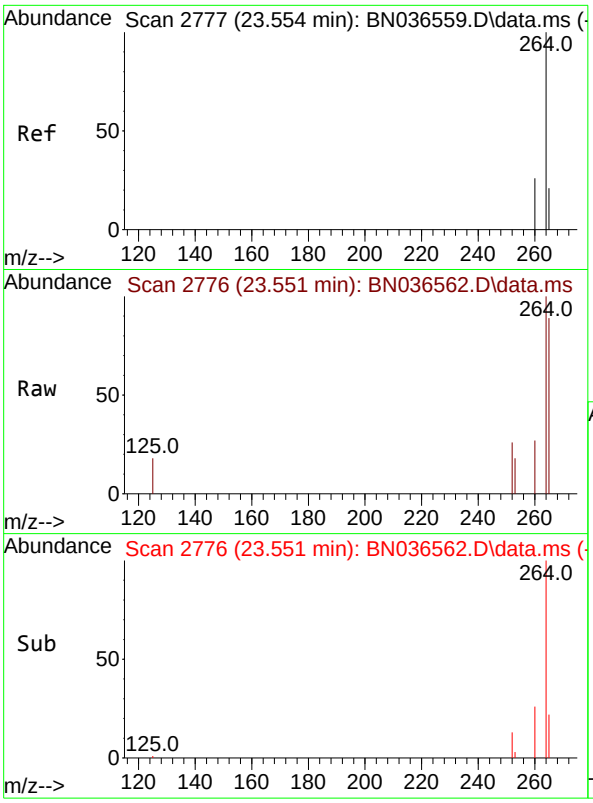




#34
Bis(2-ethylhexyl)phthalate
Concen: 2.947 ng
RT: 21.214 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Tgt Ion:149 Resp: 39682

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 26.3 | 20.7 | 31.1 |
| 279 | 2.6 | 3.6 | 5.4# |



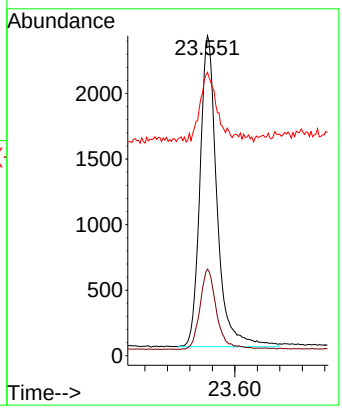


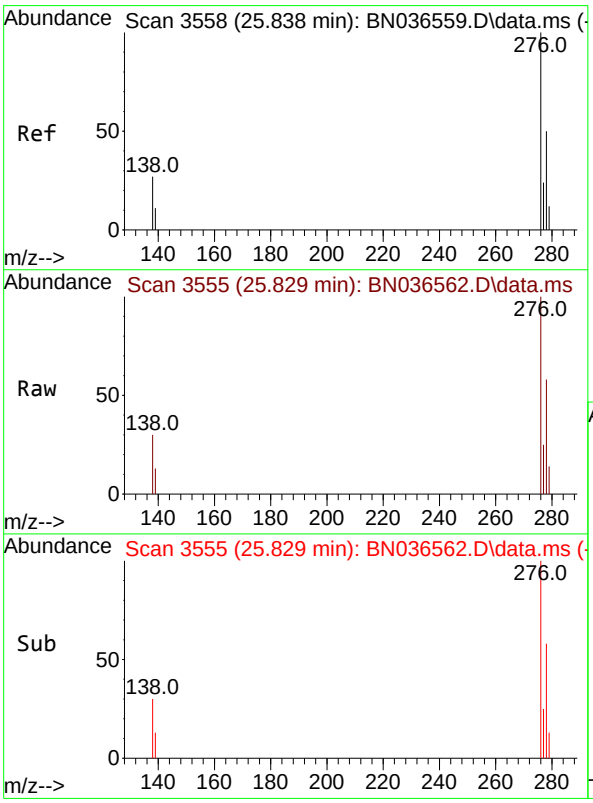

#35
Perylene-d12
Concen: 0.400 ng
RT: 23.551 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC3.2

Tgt Ion:264 Resp: 5002

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 27.0 | 22.6 | 33.8 |
| 265 | 88.6 | 88.1 | 132.1 |

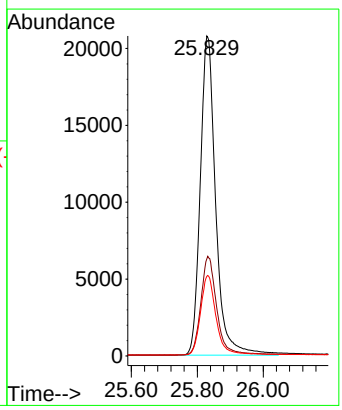


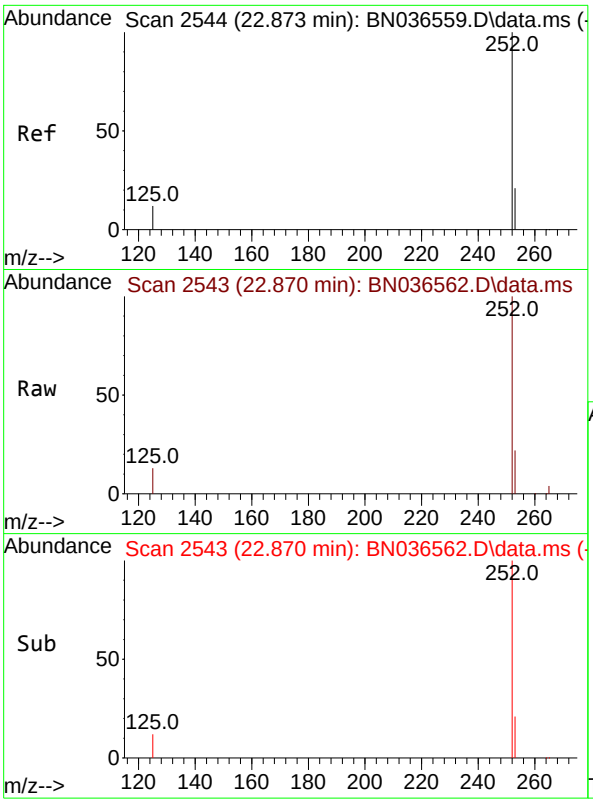




#36
Indeno(1,2,3-cd)pyrene
Concen: 3.754 ng
RT: 25.829 min Scan# 3555
Delta R.T. -0.009 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Tgt Ion:276 Resp: 67767

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 31.3 | 23.4 | 35.2 |
| 277 | 24.8 | 20.0 | 30.0 |



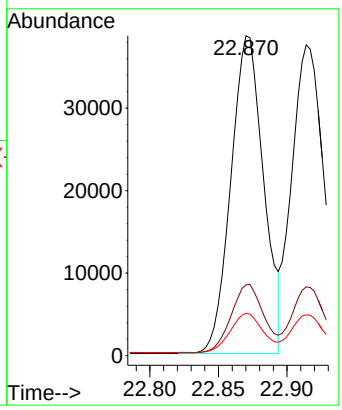


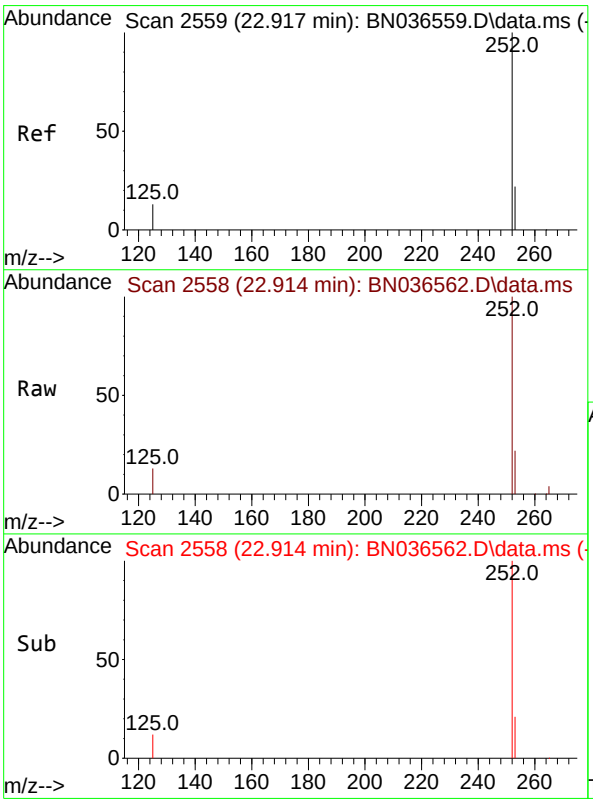

#37
Benzo(b)fluoranthene
Concen: 3.506 ng
RT: 22.870 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC3.2

Tgt Ion:252 Resp: 63823

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.2 | 23.9 | 35.9# |
| 125 | 13.3 | 17.4 | 26.2# |

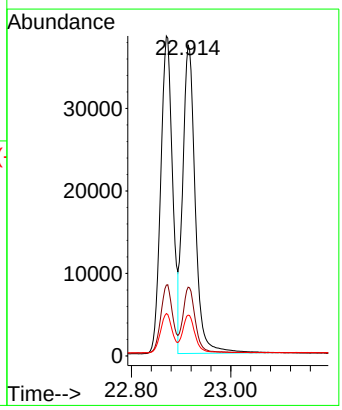


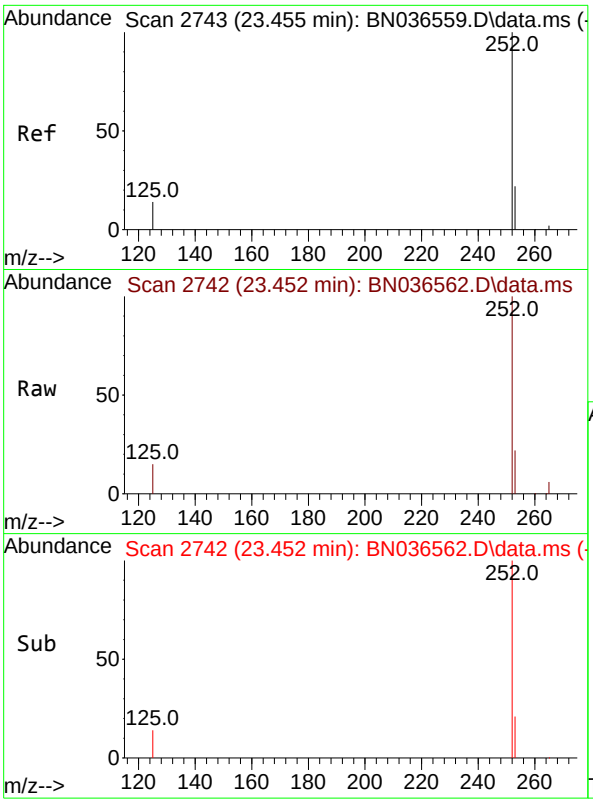




#38
Benzo(k)fluoranthene
Concen: 3.425 ng
RT: 22.914 min Scan# 2558
Delta R.T. -0.003 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Tgt Ion:252 Resp: 65410

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.1 | 24.6 | 36.8# |
| 125 | 13.2 | 17.8 | 26.8# |



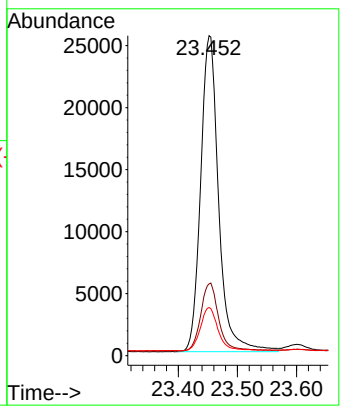


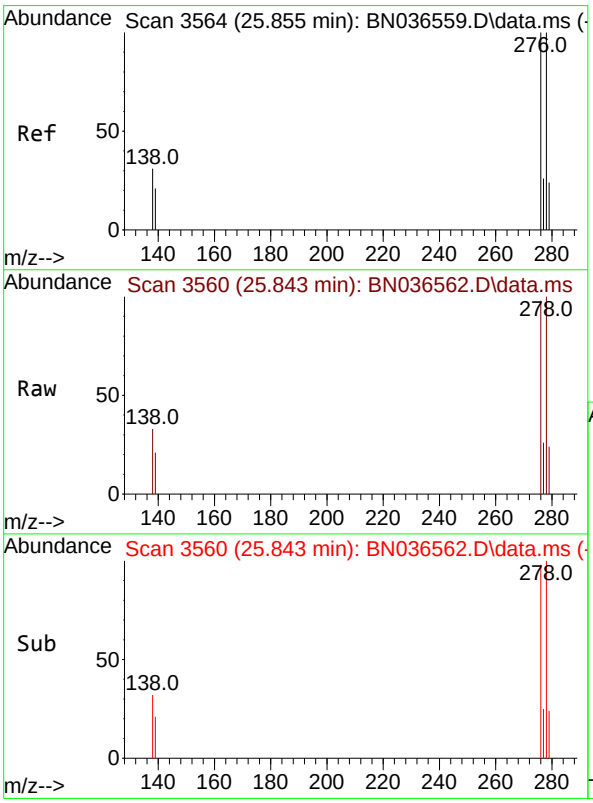

#39
Benzo(a)pyrene
Concen: 3.523 ng
RT: 23.452 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC3.2

Tgt Ion:252 Resp: 54009

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.4 | 27.8 | 41.8# |
| 125 | 15.1 | 22.7 | 34.1# |

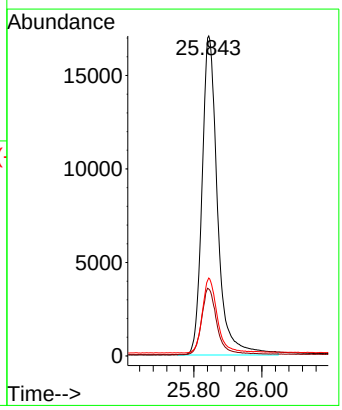


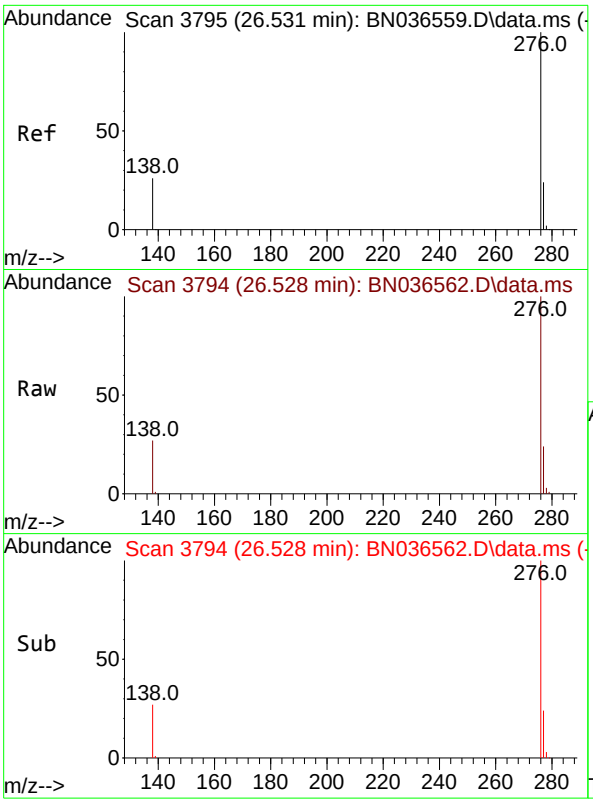




#40
Dibenzo(a,h)anthracene
Concen: 3.846 ng
RT: 25.843 min Scan# 3560
Delta R.T. -0.012 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Tgt Ion:278 Resp: 54058

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 20.9 | 20.8 | 31.2 |
| 279 | 24.4 | 28.8 | 43.2# |



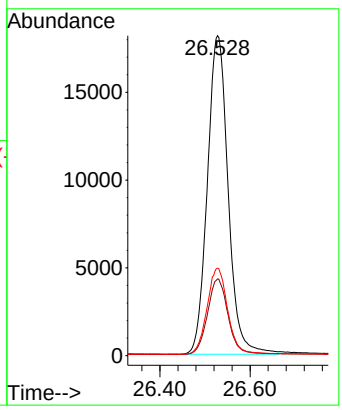



#41
Benzo(g,h,i)perylene
Concen: 3.606 ng
RT: 26.528 min Scan# 3
Delta R.T. -0.003 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC3.2

Tgt Ion:276 Resp: 57986

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 24.0 | 22.2 | 33.4 |
| 138 | 27.4 | 24.1 | 36.1 |



Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036563.D
Acq On : 10 Mar 2025 15:19
Operator : RC/JU
Sample : SSTDICC5.0
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC5.0

Quant Time: Mar 10 16:03:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:54:23 2025
Response via : Initial Calibration

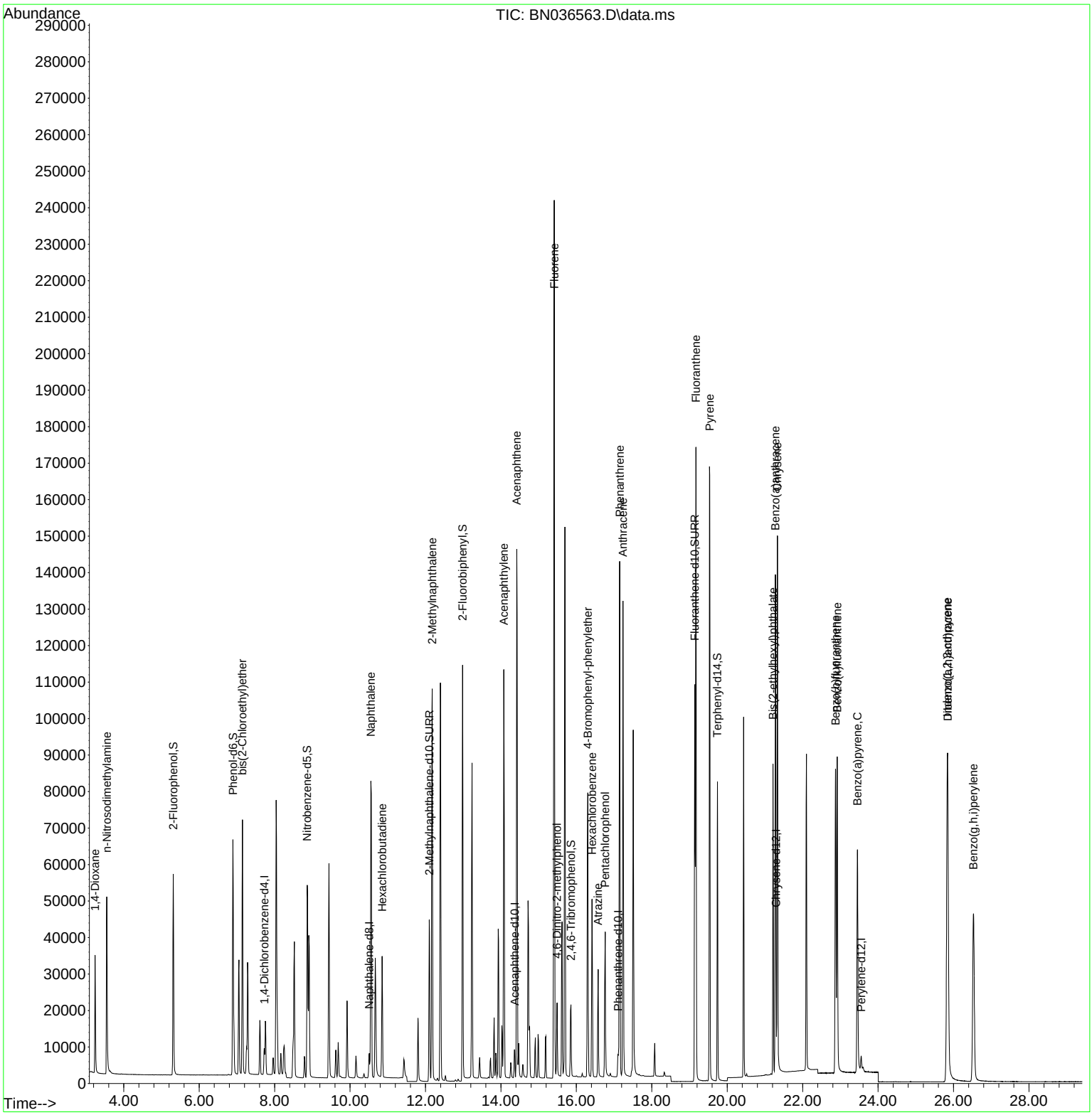
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.724 | 152 | 3261 | 0.400 | ng | | 0.00 |
| 7) Naphthalene-d8 | 10.509 | 136 | 7995 | 0.400 | ng | # | 0.00 |
| 13) Acenaphthene-d10 | 14.366 | 164 | 4664 | 0.400 | ng | | 0.00 |
| 19) Phenanthrene-d10 | 17.111 | 188 | 9061 | 0.400 | ng | | 0.00 |
| 29) Chrysene-d12 | 21.295 | 240 | 6472 | 0.400 | ng | | 0.00 |
| 35) Perylene-d12 | 23.551 | 264 | 5580 | 0.400 | ng | # | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 4) 2-Fluorophenol | 5.312 | 112 | 37154 | 4.889 | ng | | 0.00 |
| 5) Phenol-d6 | 6.894 | 99 | 48085 | 5.122 | ng | | 0.00 |
| 8) Nitrobenzene-d5 | 8.864 | 82 | 41042 | 4.719 | ng | | -0.01 |
| 11) 2-Methylnaphthalene-d10 | 12.101 | 152 | 58048 | 4.881 | ng | | -0.01 |
| 14) 2,4,6-Tribromophenol | 15.858 | 330 | 10964 | 5.181 | ng | | 0.00 |
| 15) 2-Fluorobiphenyl | 12.983 | 172 | 141052 | 5.199 | ng | | 0.00 |
| 27) Fluoranthene-d10 | 19.141 | 212 | 113317 | 4.879 | ng | | 0.00 |
| 31) Terphenyl-d14 | 19.740 | 244 | 74923 | 4.832 | ng | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.239 | 88 | 16253 | 4.492 | ng | | 97 |
| 3) n-Nitrosodimethylamine | 3.550 | 42 | 32163 | 4.395 | ng | # | 95 |
| 6) bis(2-Chloroethyl)ether | 7.146 | 93 | 44986 | 4.636 | ng | | 99 |
| 9) Naphthalene | 10.551 | 128 | 109289 | 4.647 | ng | | 97 |
| 10) Hexachlorobutadiene | 10.850 | 225 | 25105 | 4.535 | ng | # | 99 |
| 12) 2-Methylnaphthalene | 12.177 | 142 | 73010 | 4.879 | ng | | 98 |
| 16) Acenaphthylene | 14.077 | 152 | 112792 | 5.125 | ng | | 99 |
| 17) Acenaphthene | 14.420 | 154 | 72446 | 5.028 | ng | | 96 |
| 18) Fluorene | 15.414 | 166 | 96215 | 4.937 | ng | | 97 |
| 20) 4,6-Dinitro-2-methylph... | 15.489 | 198 | 12627 | 4.968 | ng | # | 56 |
| 21) 4-Bromophenyl-phenylether | 16.304 | 248 | 28657 | 5.048 | ng | # | 81 |
| 22) Hexachlorobenzene | 16.416 | 284 | 32686 | 4.770 | ng | | 99 |
| 23) Atrazine | 16.577 | 200 | 22705 | 4.988 | ng | # | 90 |
| 24) Pentachlorophenol | 16.764 | 266 | 17612 | 5.634 | ng | | 99 |
| 25) Phenanthrene | 17.148 | 178 | 135347 | 4.979 | ng | | 100 |
| 26) Anthracene | 17.235 | 178 | 125954 | 5.135 | ng | | 99 |
| 28) Fluoranthene | 19.169 | 202 | 149107 | 4.883 | ng | | 99 |
| 30) Pyrene | 19.536 | 202 | 148584 | 4.695 | ng | | 100 |
| 32) Benzo(a)anthracene | 21.277 | 228 | 114481 | 5.087 | ng | | 98 |
| 33) Chrysene | 21.331 | 228 | 117149 | 4.764 | ng | | 99 |
| 34) Bis(2-ethylhexyl)phtha... | 21.214 | 149 | 70345 | 4.390 | ng | # | 99 |
| 36) Indeno(1,2,3-cd)pyrene | 25.835 | 276 | 109561 | 5.440 | ng | | 98 |
| 37) Benzo(b)fluoranthene | 22.873 | 252 | 104498 | 5.146 | ng | # | 84 |
| 38) Benzo(k)fluoranthene | 22.917 | 252 | 106995 | 5.022 | ng | # | 82 |
| 39) Benzo(a)pyrene | 23.452 | 252 | 88413 | 5.170 | ng | # | 76 |
| 40) Dibenzo(a,h)anthracene | 25.846 | 278 | 87308 | 5.568 | ng | # | 84 |
| 41) Benzo(g,h,i)perylene | 26.531 | 276 | 93067 | 5.189 | ng | | 93 |

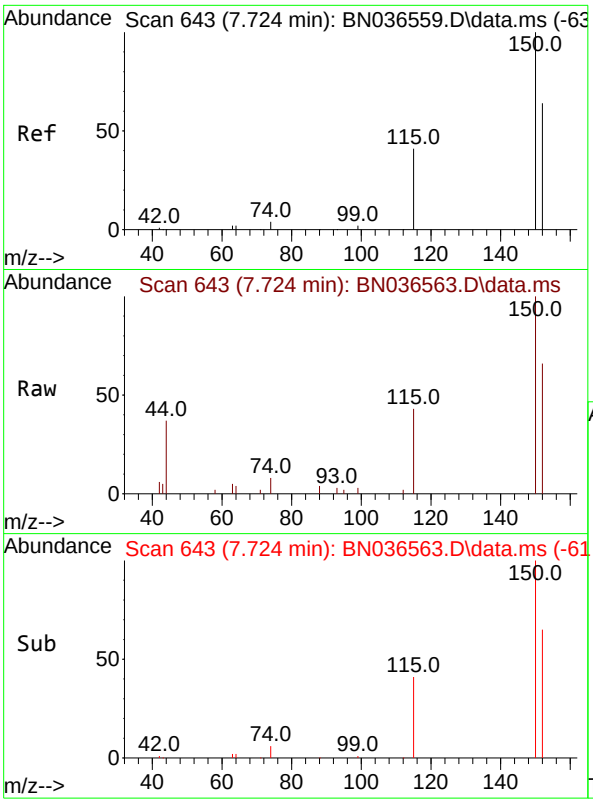
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036563.D
Acq On : 10 Mar 2025 15:19
Operator : RC/JU
Sample : SSTDICC5.0
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC5.0

Quant Time: Mar 10 16:03:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:54:23 2025
Response via : Initial Calibration



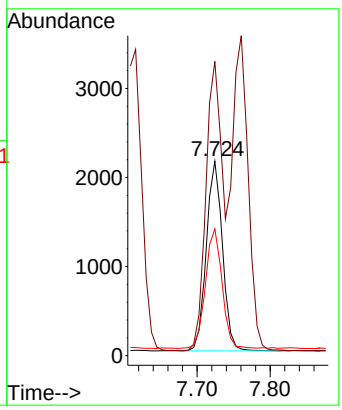


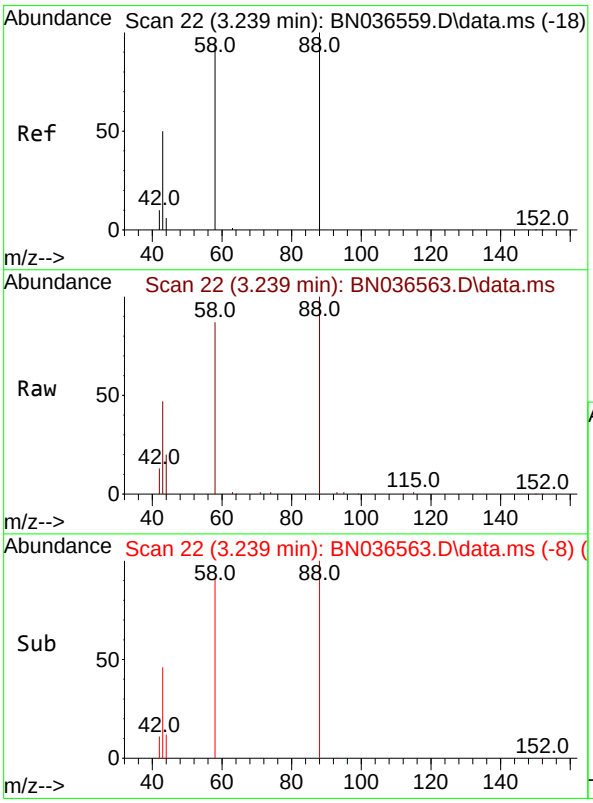

#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC5.0

Tgt Ion:152 Resp: 3261

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 151.3 | 123.7 | 185.5 |
| 115 | 65.2 | 54.3 | 81.5 |

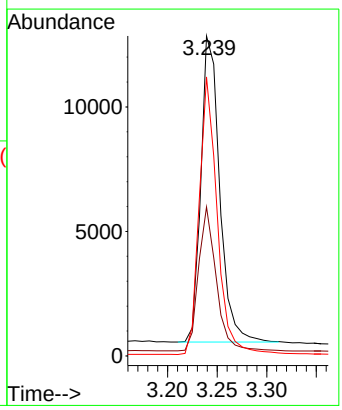


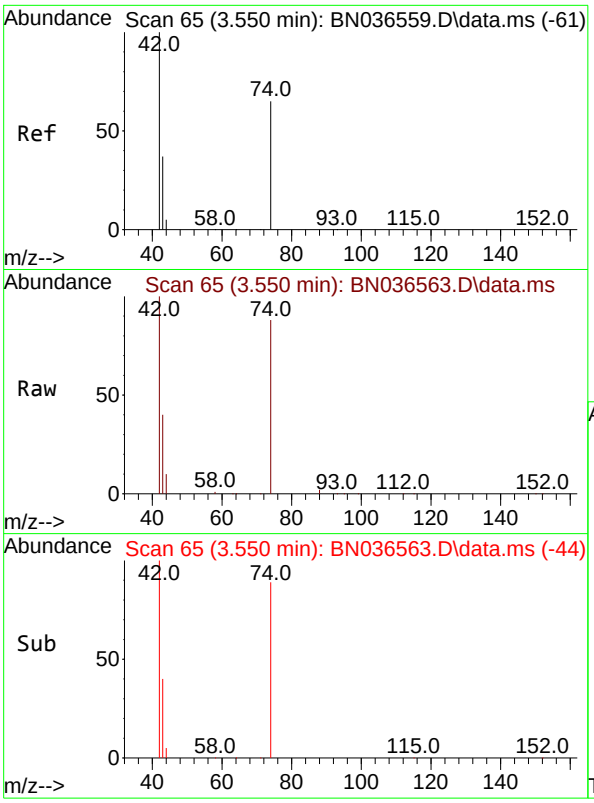




#2
1,4-Dioxane
Concen: 4.492 ng
RT: 3.239 min Scan# 22
Delta R.T. -0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Tgt Ion: 88 Resp: 16253

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 44.3 | 37.8 | 56.8 |
| 58 | 86.4 | 67.4 | 101.2 |



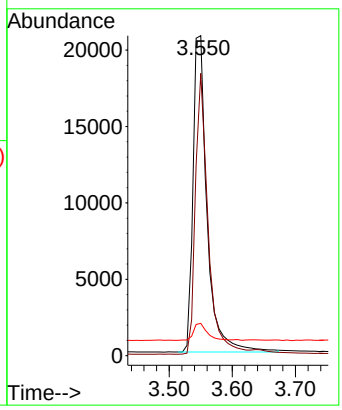


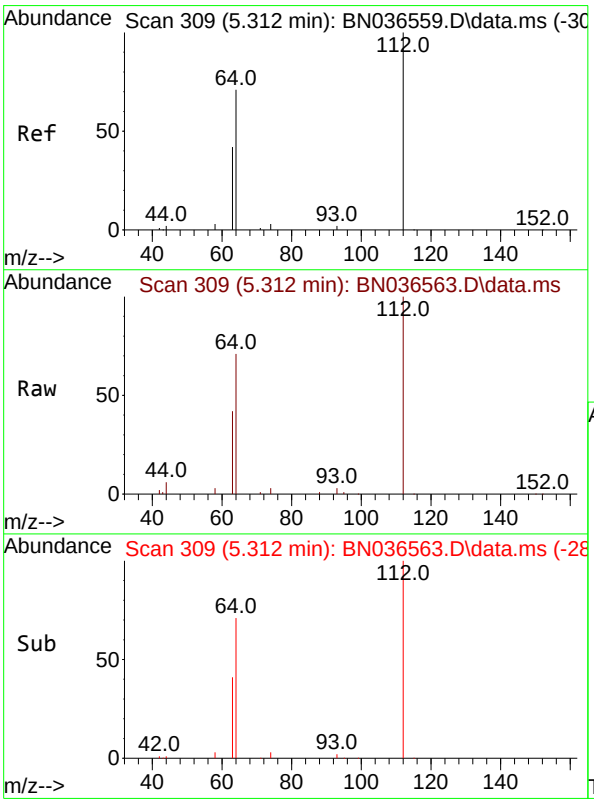

#3
n-Nitrosodimethylamine
Concen: 4.395 ng
RT: 3.550 min Scan# 6
Delta R.T. 0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC5.0

Tgt Ion: 42 Resp: 32163

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 79.9 | 60.6 | 90.8 |
| 44 | 5.3 | 6.3 | 9.5# |

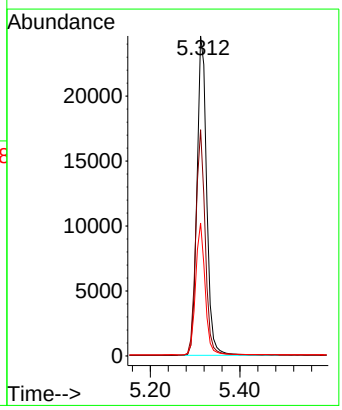


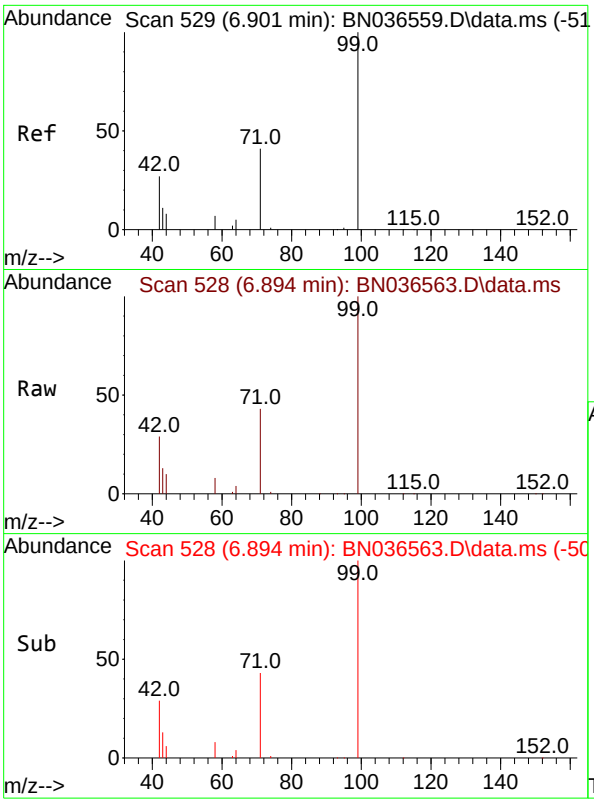




#4
2-Fluorophenol
Concen: 4.889 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Tgt Ion:112 Resp: 37154

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 68.5 | 53.1 | 79.7 |
| 63 | 40.1 | 31.8 | 47.8 |



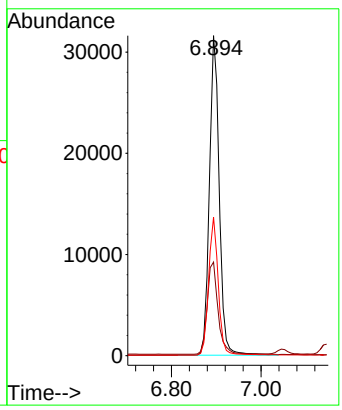


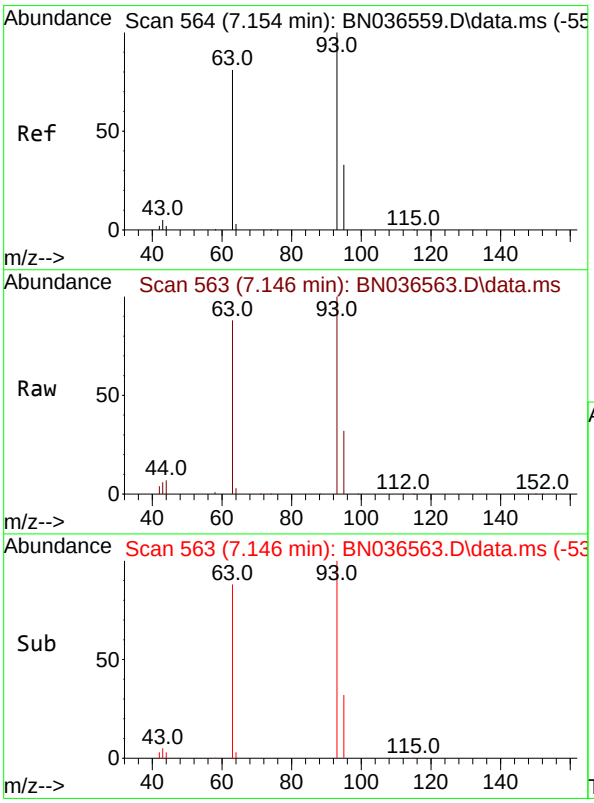

#5
Phenol-d6
Concen: 5.122 ng
RT: 6.894 min Scan# 5
Delta R.T. -0.007 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC5.0

Tgt Ion: 99 Resp: 48085

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 31.8 | 26.5 | 39.7 |
| 71 | 42.6 | 34.1 | 51.1 |

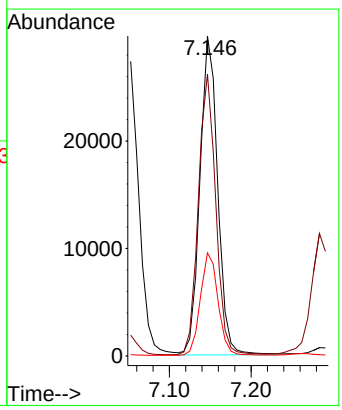


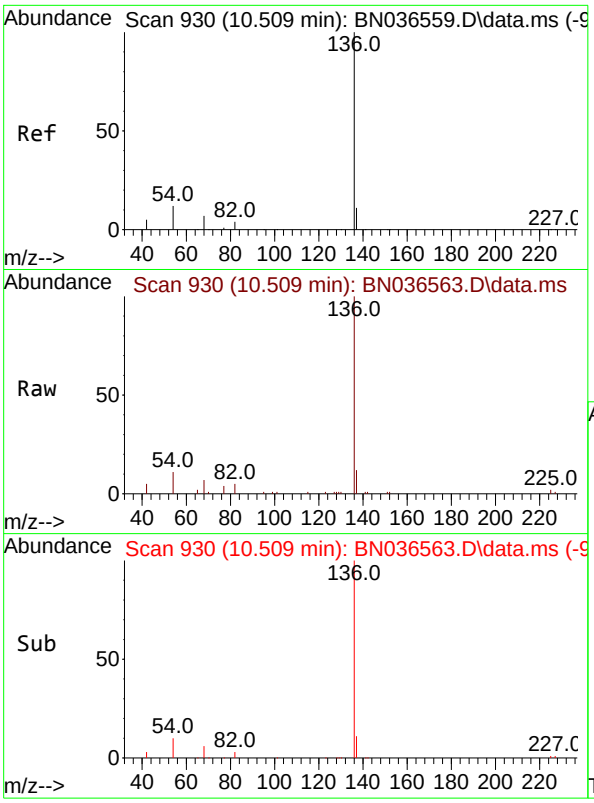




#6
bis(2-Chloroethyl)ether
Concen: 4.636 ng
RT: 7.146 min Scan# 563
Delta R.T. -0.007 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Tgt Ion: 93 Resp: 44986

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 85.8 | 67.7 | 101.5 |
| 95 | 32.0 | 25.6 | 38.4 |



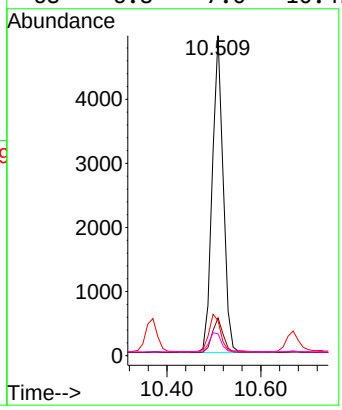


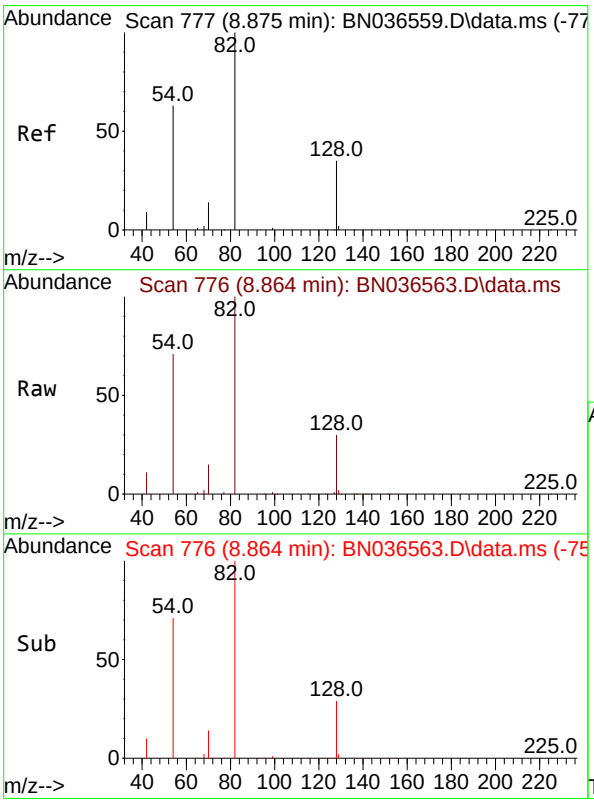

#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC5.0

Tgt Ion:136 Resp: 7995

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.8 | 10.3 | 15.5 |
| 54 | 10.9 | 11.5 | 17.3# |
| 68 | 6.8 | 7.0 | 10.4# |

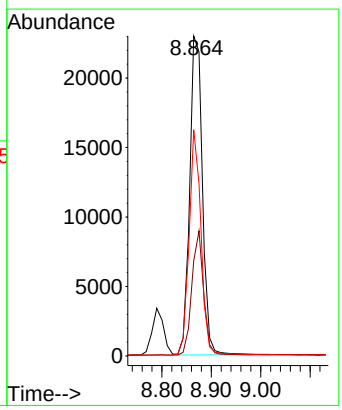


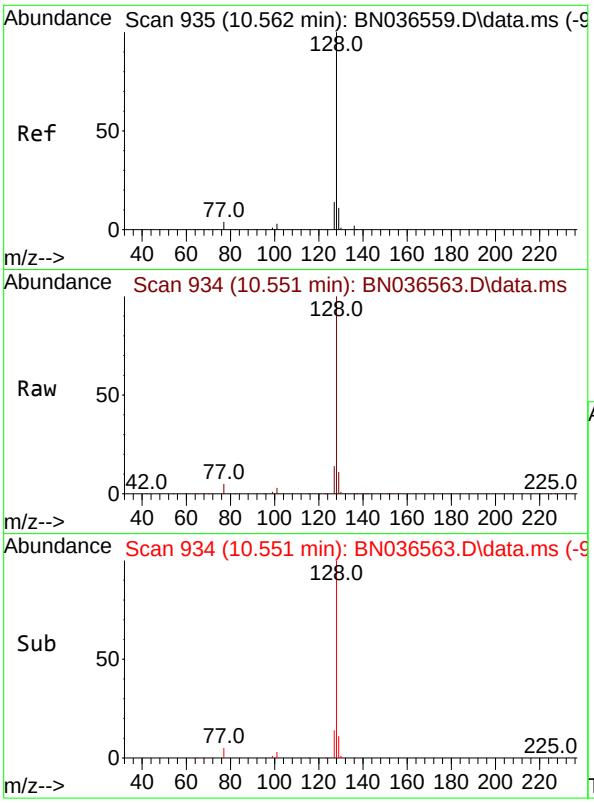




#8
Nitrobenzene-d5
Concen: 4.719 ng
RT: 8.864 min Scan# 776
Delta R.T. -0.011 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Tgt Ion: 82 Resp: 41042

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 29.7 | 30.6 | 45.8# |
| 54 | 70.7 | 52.2 | 78.4 |



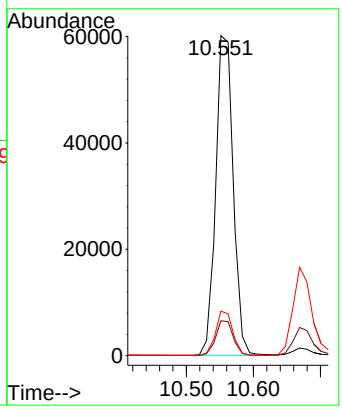


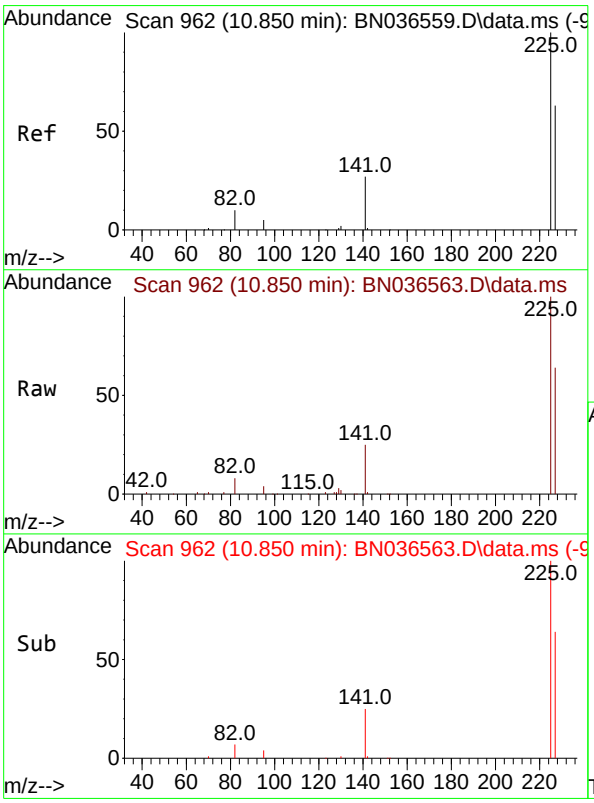

#9
Naphthalene
Concen: 4.647 ng
RT: 10.551 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC5.0

Tgt Ion:128 Resp: 109289

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 10.9 | 9.8 | 14.6 |
| 127 | 13.9 | 11.8 | 17.8 |

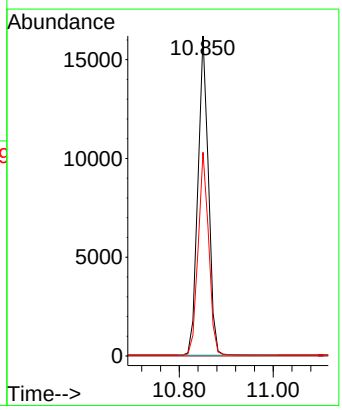


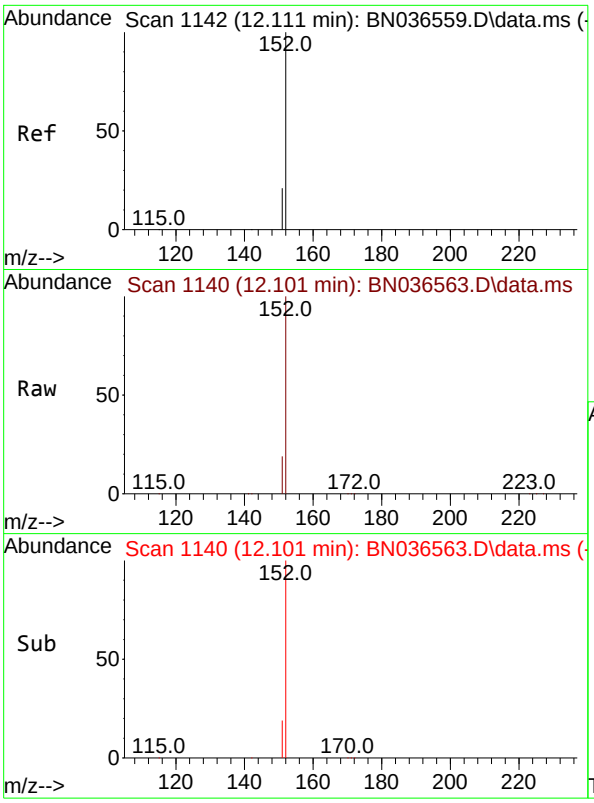




#10
Hexachlorobutadiene
Concen: 4.535 ng
RT: 10.850 min Scan# 962
Delta R.T. -0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Tgt Ion:225 Resp: 25105

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 0.0 | 0.0 | 0.0 |
| 227 | 63.7 | 51.8 | 77.8 |



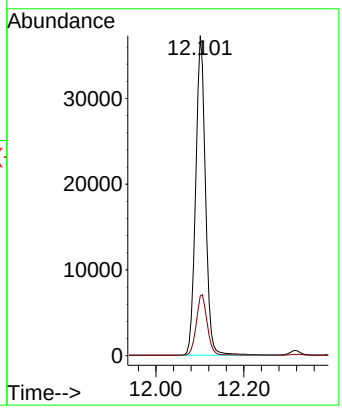


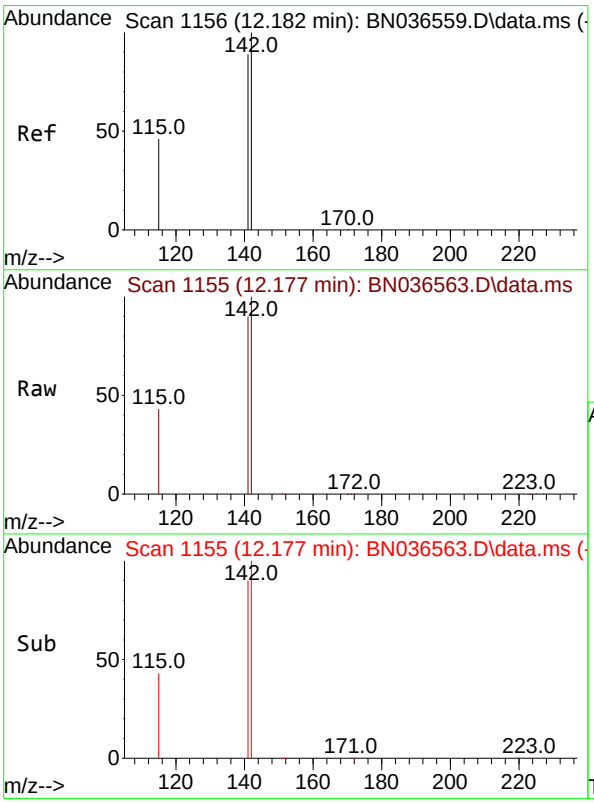

#11
2-Methylnaphthalene-d10
Concen: 4.881 ng
RT: 12.101 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC5.0

Tgt Ion:152 Resp: 58048

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 21.2 | 17.0 | 25.6 |

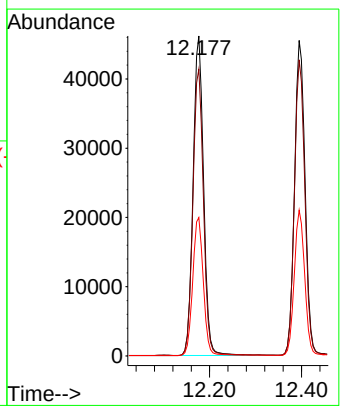


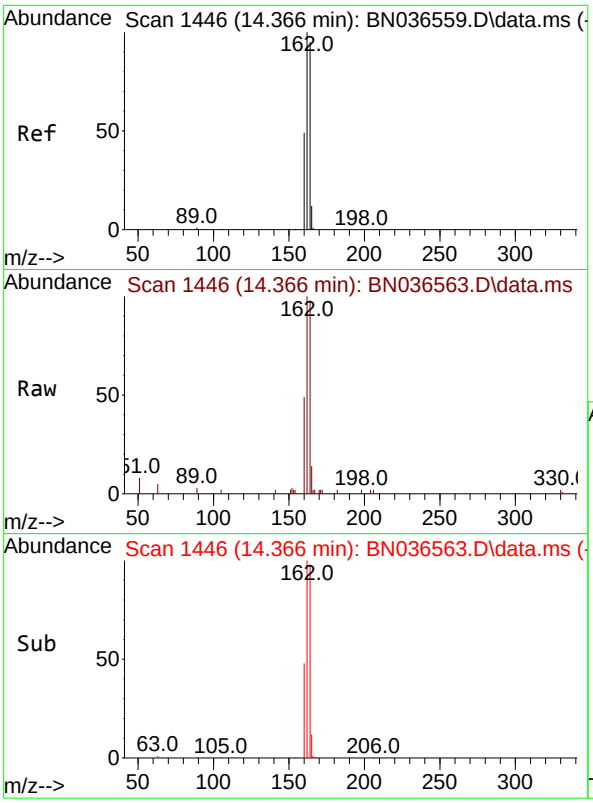




#12
2-Methylnaphthalene
Concen: 4.879 ng
RT: 12.177 min Scan# 1155
Delta R.T. -0.005 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Tgt Ion:142 Resp: 73010

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 89.6 | 71.7 | 107.5 |
| 115 | 43.2 | 38.3 | 57.5 |



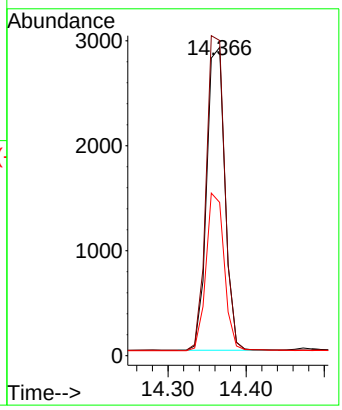


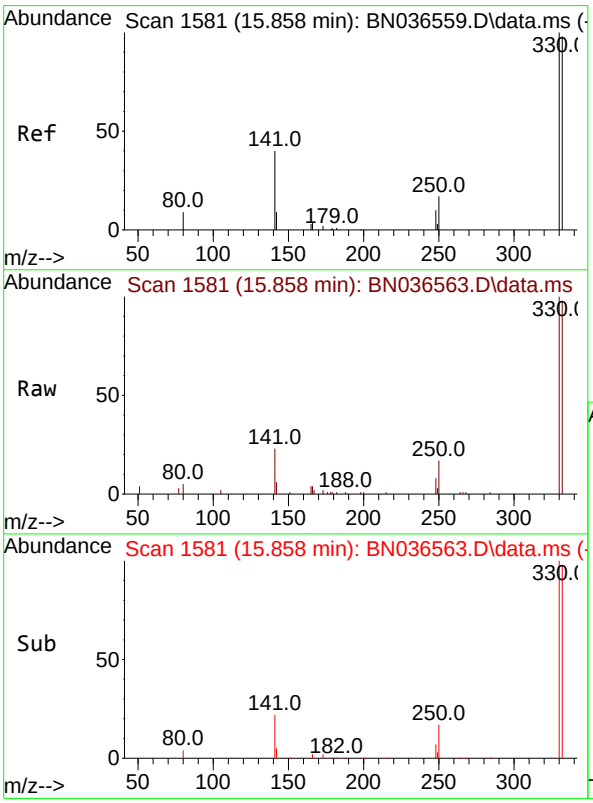

#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC5.0

Tgt Ion:164 Resp: 4664

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 102.2 | 84.2 | 126.2 |
| 160 | 49.7 | 42.2 | 63.2 |

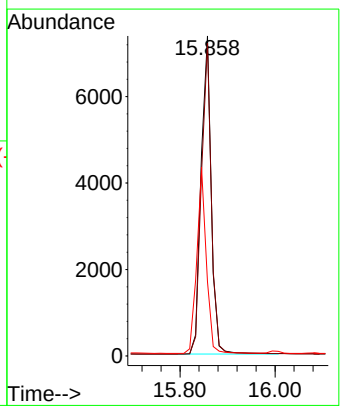


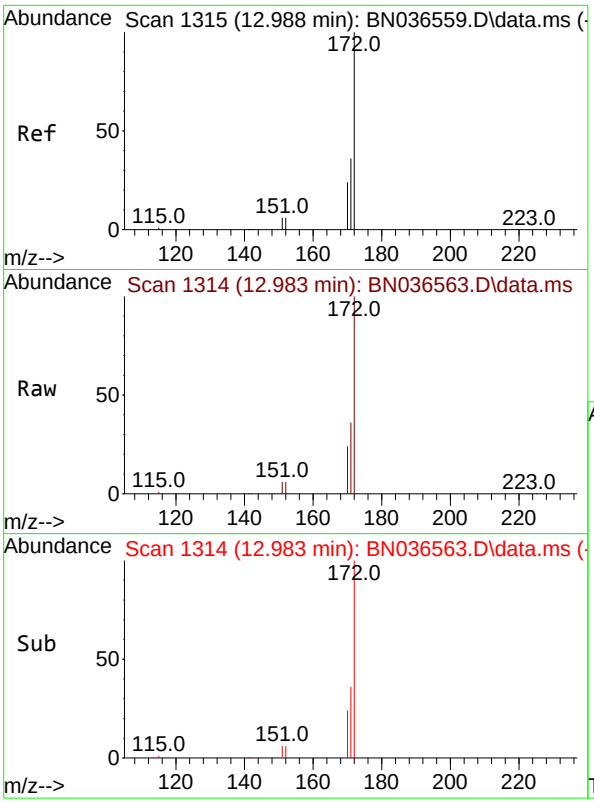




#14
2,4,6-Tribromophenol
Concen: 5.181 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Tgt Ion:330 Resp: 10964

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 95.9 | 75.2 | 112.8 |
| 141 | 54.7 | 43.4 | 65.2 |



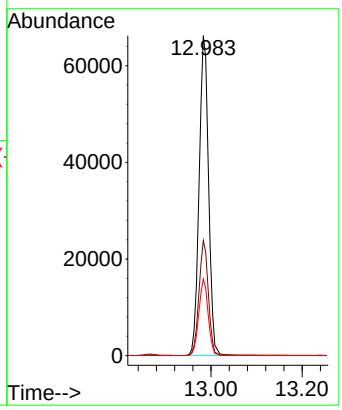


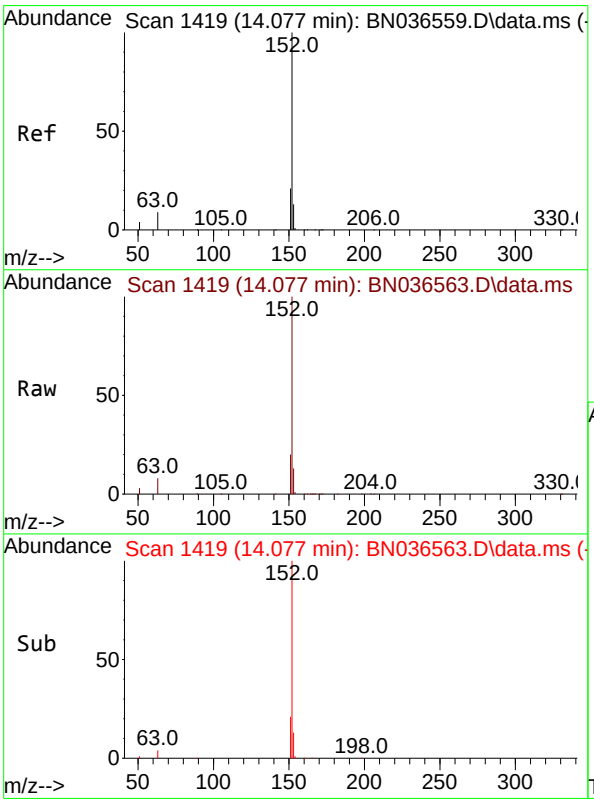

#15
2-Fluorobiphenyl
Concen: 5.199 ng
RT: 12.983 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC5.0

Tgt Ion:172 Resp: 141052

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 36.0 | 29.5 | 44.3 |
| 170 | 24.0 | 20.2 | 30.4 |

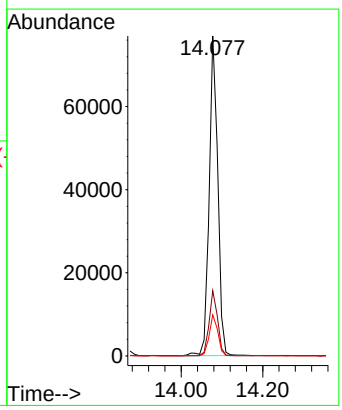


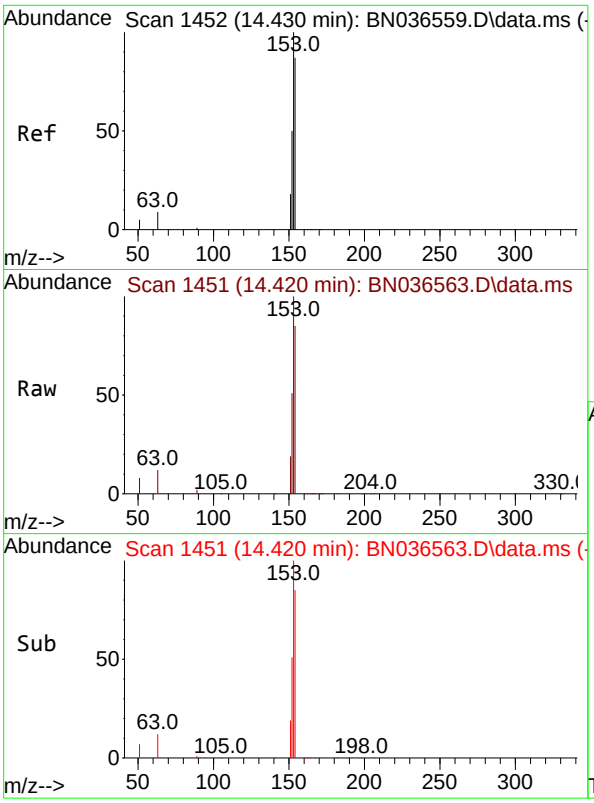




#16
Acenaphthylene
Concen: 5.125 ng
RT: 14.077 min Scan# 1419
Delta R.T. -0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Tgt Ion:152 Resp: 112792

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.0 | 16.2 | 24.4 |
| 153 | 12.8 | 10.6 | 15.8 |



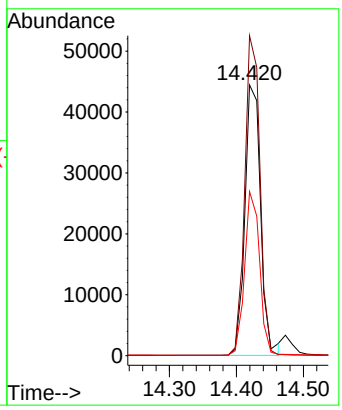


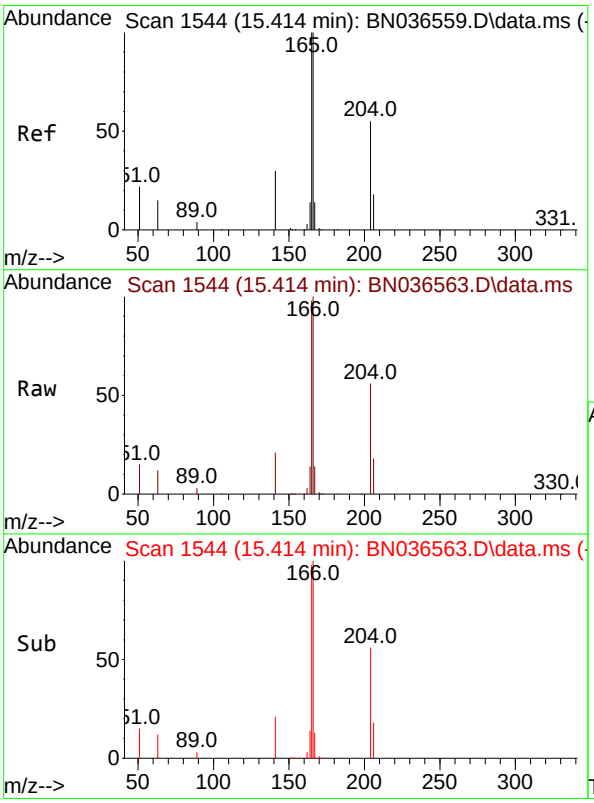

#17
Acenaphthene
Concen: 5.028 ng
RT: 14.420 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC5.0

Tgt Ion:154 Resp: 72446

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 114.1 | 94.1 | 141.1 |
| 152 | 57.7 | 49.8 | 74.6 |

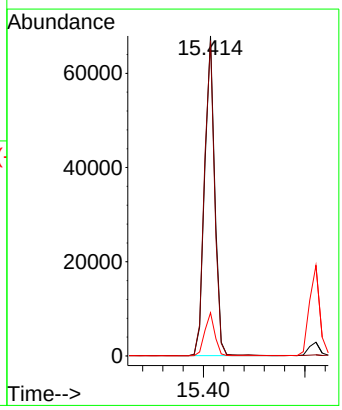


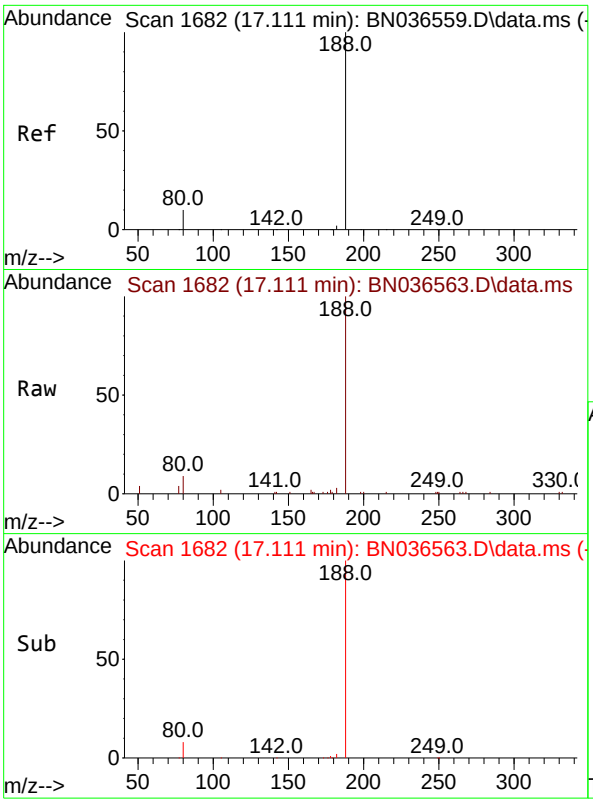




#18
Fluorene
Concen: 4.937 ng
RT: 15.414 min Scan# 1544
Delta R.T. -0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Tgt Ion:166 Resp: 96215

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 96.5 | 79.8 | 119.8 |
| 167 | 13.0 | 10.6 | 15.8 |



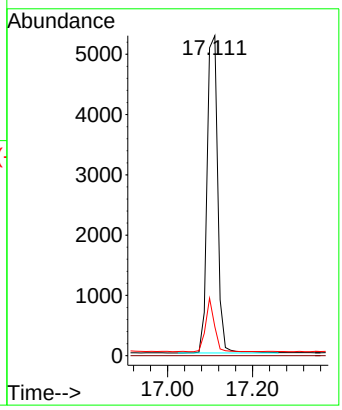


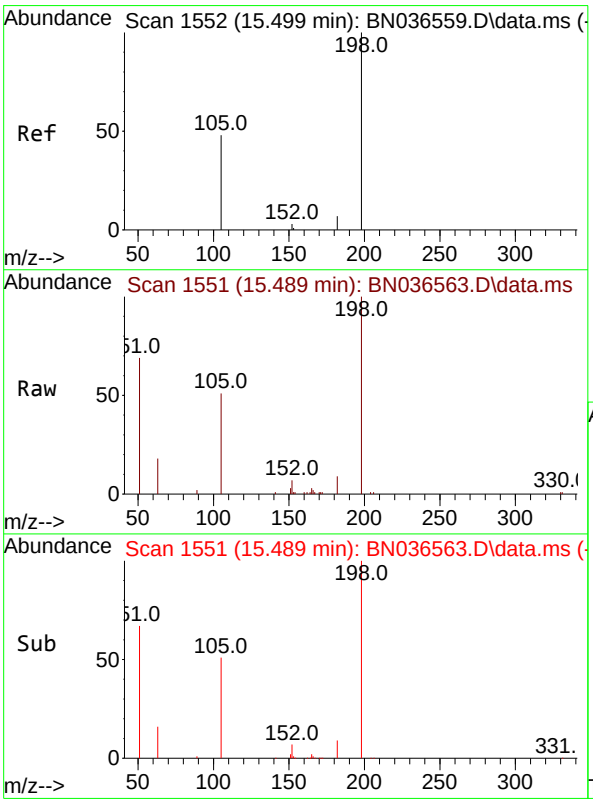

#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.111 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC5.0

Tgt Ion:188 Resp: 9061

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 9.1 | 8.8 | 13.2 |

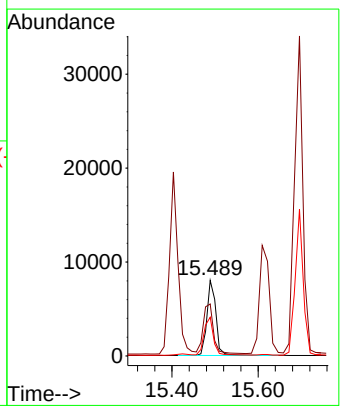


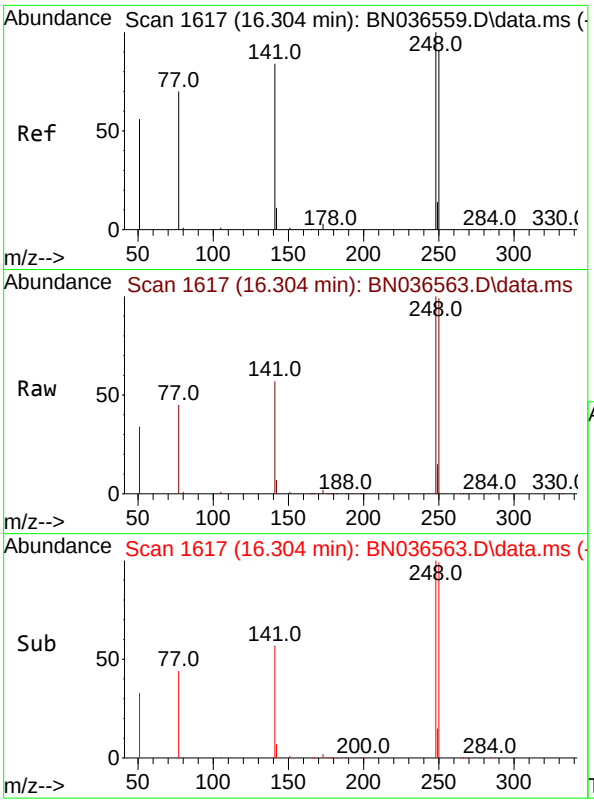




#20
4,6-Dinitro-2-methylphenol
Concen: 4.968 ng
RT: 15.489 min Scan# 1551
Delta R.T. -0.010 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Tgt Ion:198 Resp: 12627

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 198 | 100 | | |
| 51 | 68.9 | 107.9 | 161.9# |
| 105 | 51.3 | 56.2 | 84.2# |



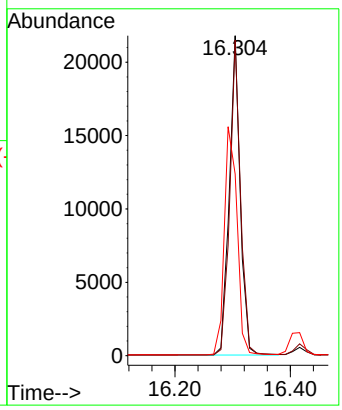


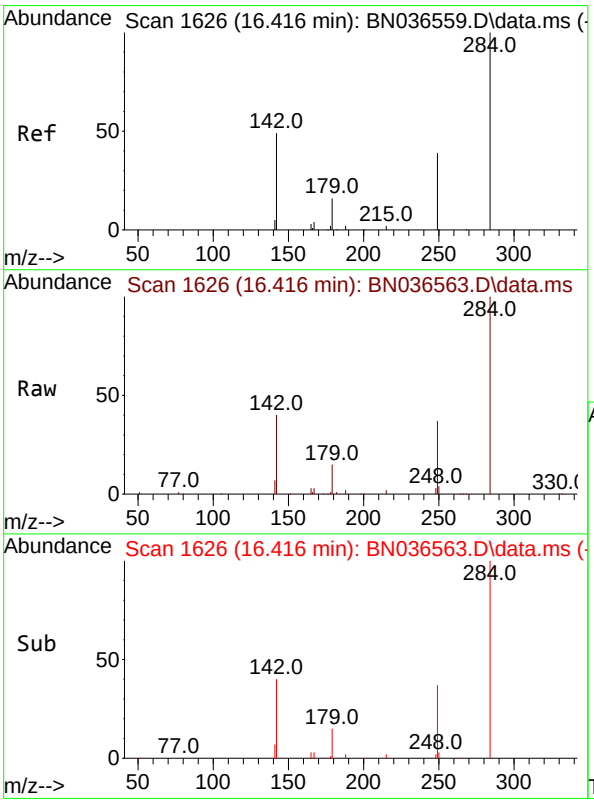

#21
4-Bromophenyl-phenylether
Concen: 5.048 ng
RT: 16.304 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC5.0

Tgt Ion:248 Resp: 28657

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 98.6 | 73.0 | 109.6 |
| 141 | 56.7 | 68.6 | 103.0# |

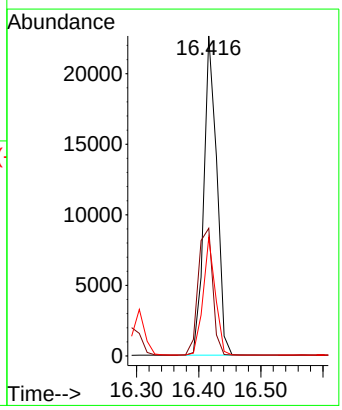


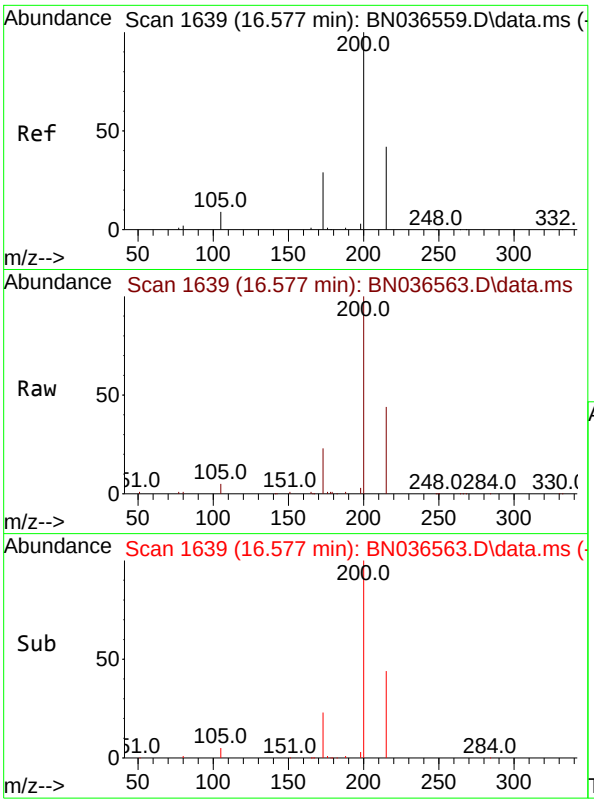




#22
Hexachlorobenzene
Concen: 4.770 ng
RT: 16.416 min Scan# 1626
Delta R.T. -0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Tgt Ion:284 Resp: 32686

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 45.1 | 37.0 | 55.4 |
| 249 | 35.1 | 28.1 | 42.1 |



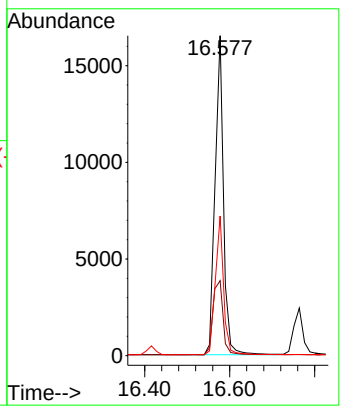


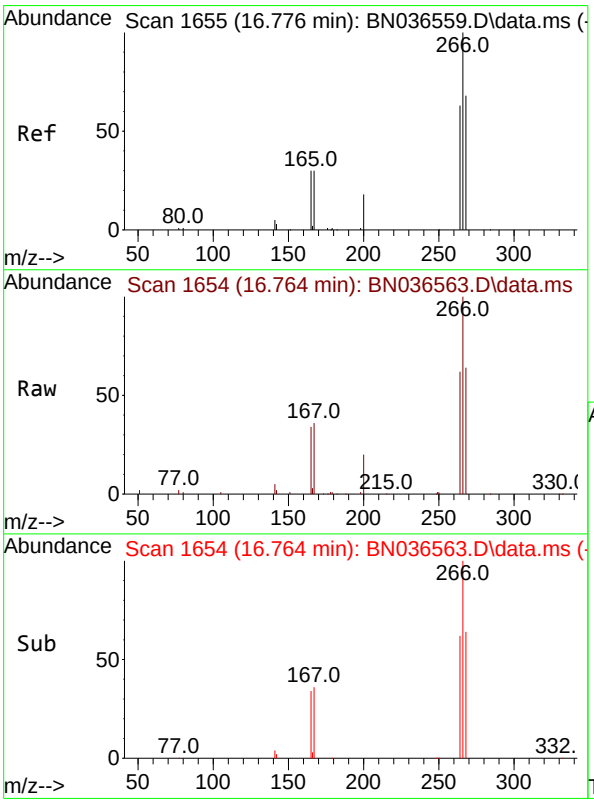

#23
Atrazine
Concen: 4.988 ng
RT: 16.577 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC5.0

Tgt Ion:200 Resp: 22705

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 173 | 23.4 | 27.3 | 40.9# |
| 215 | 43.7 | 36.8 | 55.2 |

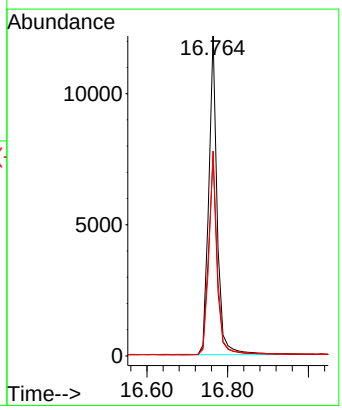


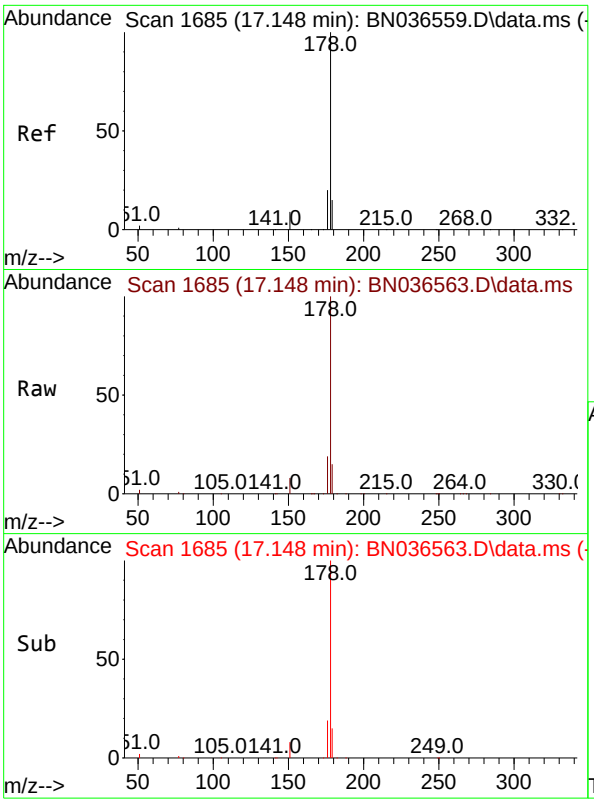




#24
Pentachlorophenol
Concen: 5.634 ng
RT: 16.764 min Scan# 1654
Delta R.T. -0.012 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Tgt Ion:266 Resp: 17612

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 264 | 63.1 | 49.6 | 74.4 |
| 268 | 63.7 | 50.9 | 76.3 |



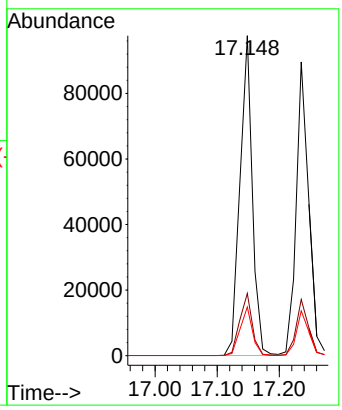


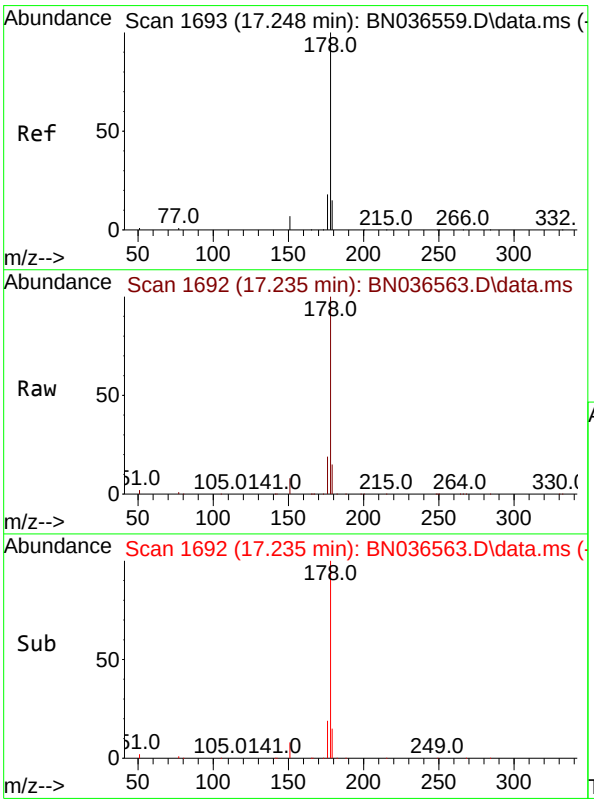

#25
Phenanthrene
Concen: 4.979 ng
RT: 17.148 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC5.0

Tgt Ion:178 Resp: 135347

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.7 | 15.9 | 23.9 |
| 179 | 15.2 | 12.2 | 18.4 |

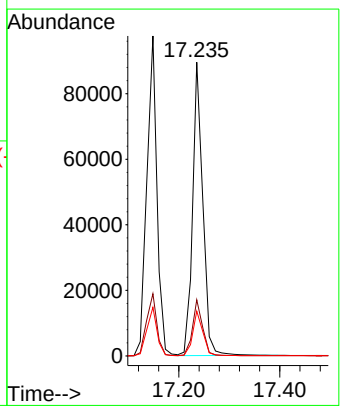


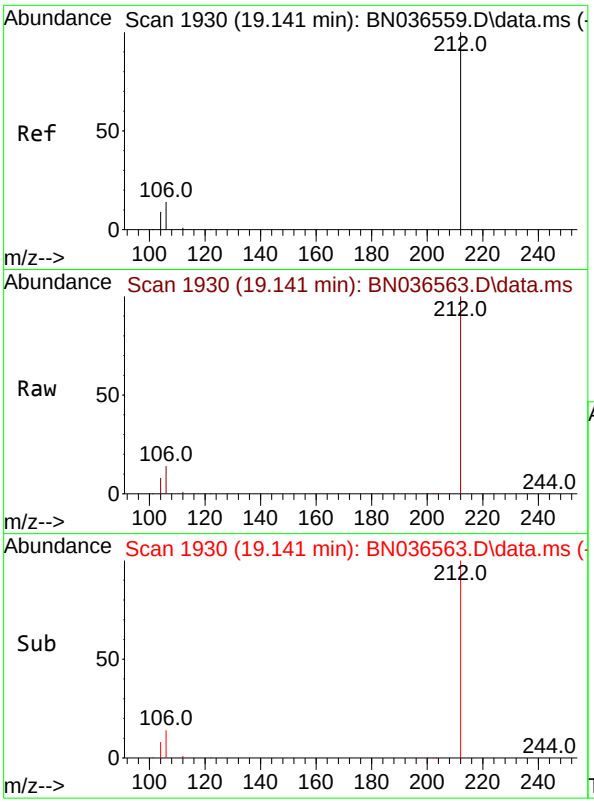




#26
Anthracene
Concen: 5.135 ng
RT: 17.235 min Scan# 1692
Delta R.T. -0.012 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Tgt Ion:178 Resp: 125954

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.0 | 15.4 | 23.2 |
| 179 | 15.2 | 12.6 | 18.8 |



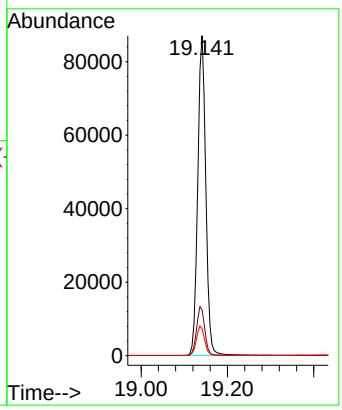


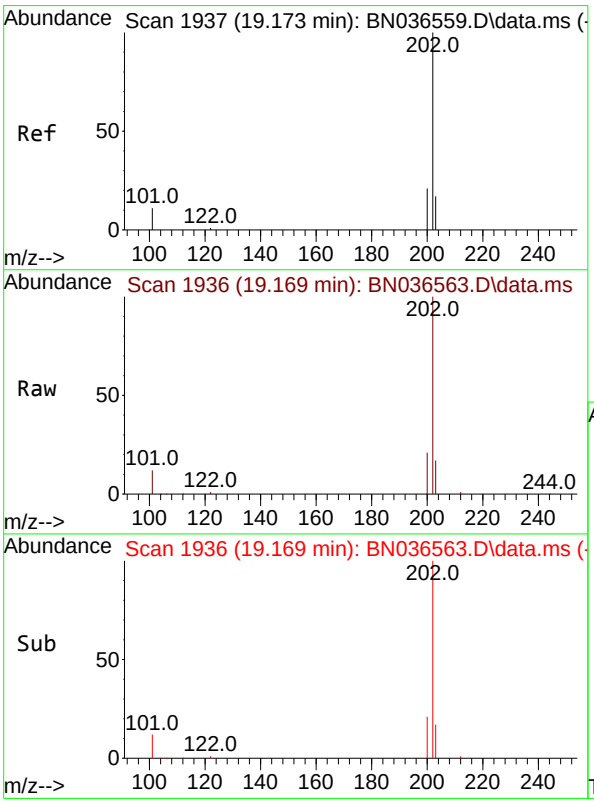

#27
Fluoranthene-d10
Concen: 4.879 ng
RT: 19.141 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC5.0

Tgt Ion:212 Resp: 113317

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 15.5 | 11.8 | 17.6 |
| 104 | 9.2 | 7.3 | 10.9 |

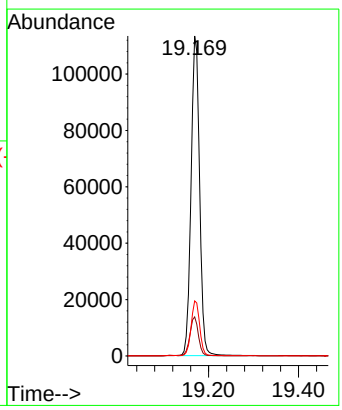


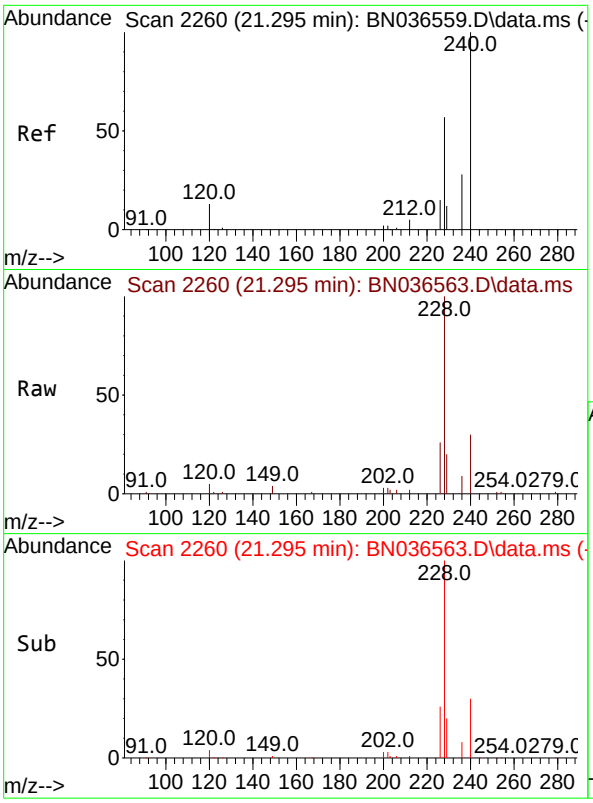




#28
Fluoranthene
Concen: 4.883 ng
RT: 19.169 min Scan# 1936
Delta R.T. -0.005 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Tgt Ion:202 Resp: 149107

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 12.3 | 9.4 | 14.0 |
| 203 | 17.3 | 13.5 | 20.3 |



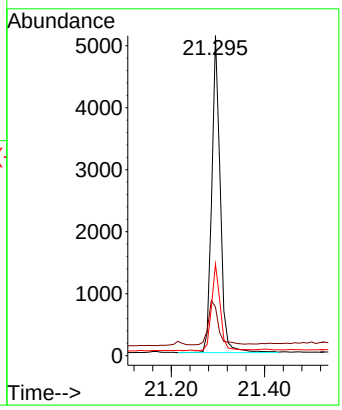


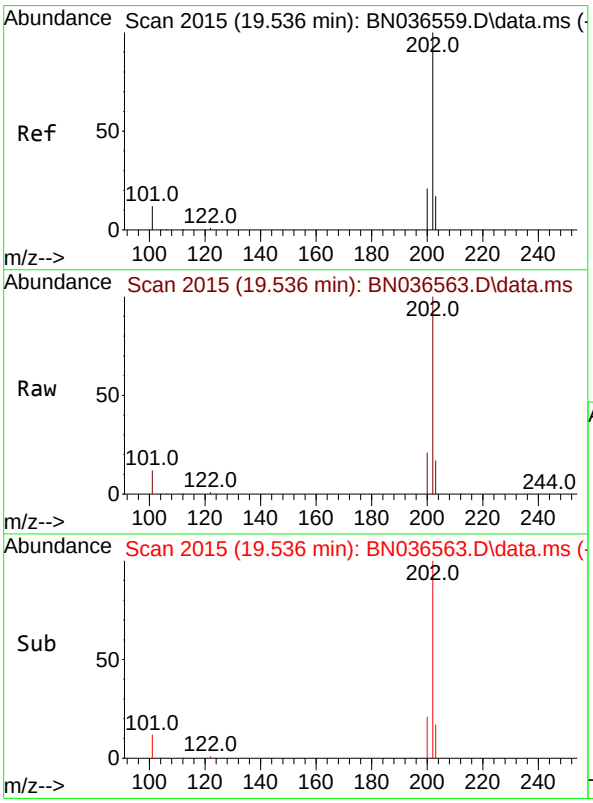

#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC5.0

Tgt Ion:240 Resp: 6472

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 15.2 | 14.6 | 22.0 |
| 236 | 28.7 | 24.1 | 36.1 |

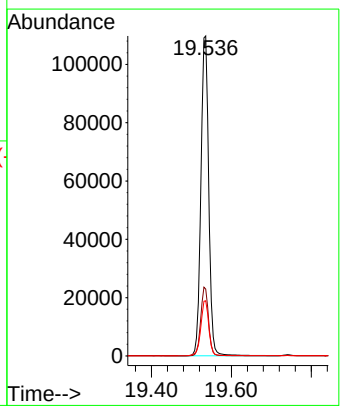


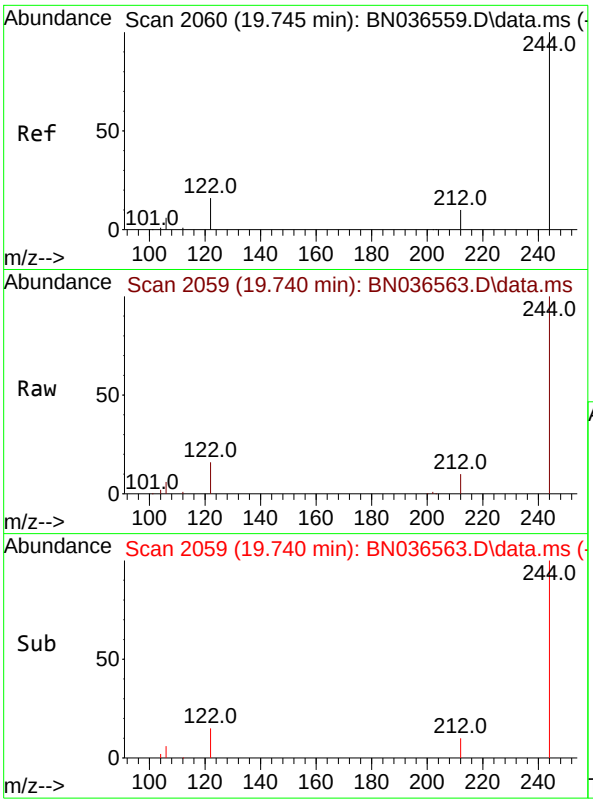




#30
Pyrene
Concen: 4.695 ng
RT: 19.536 min Scan# 2015
Delta R.T. 0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Tgt Ion:202 Resp: 148584

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.4 | 17.1 | 25.7 |
| 203 | 17.7 | 14.1 | 21.1 |



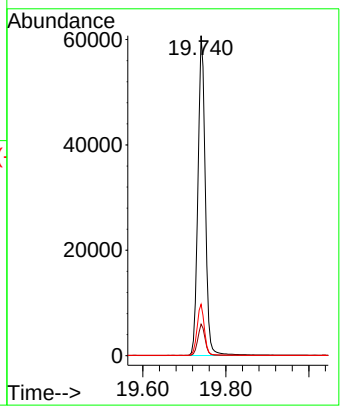


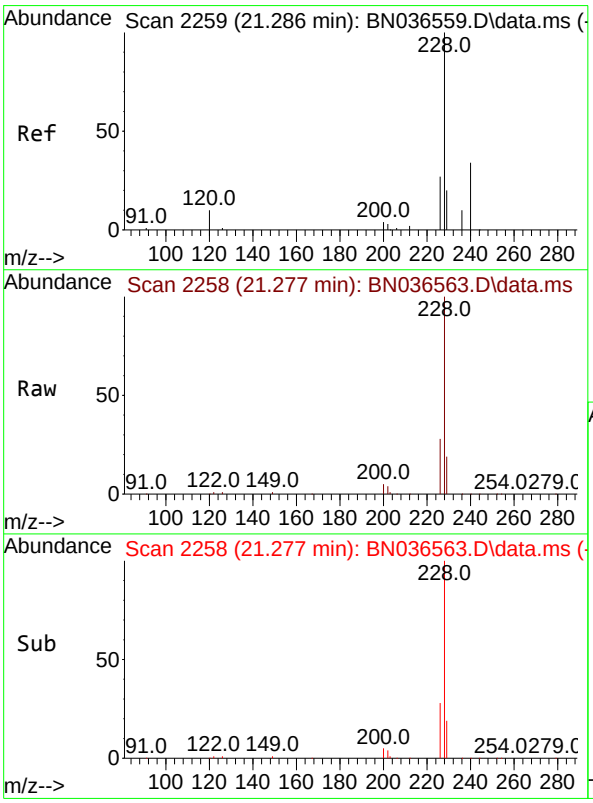

#31
Terphenyl-d14
Concen: 4.832 ng
RT: 19.740 min Scan# 2
Delta R.T. -0.005 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC5.0

Tgt Ion:244 Resp: 74923

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 9.9 | 9.6 | 14.4 |
| 122 | 16.1 | 13.9 | 20.9 |

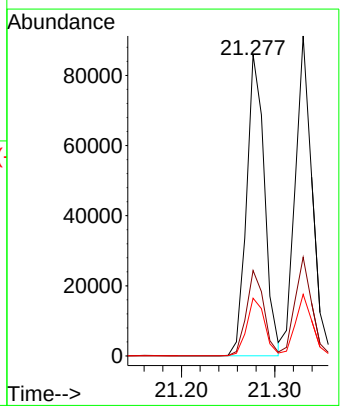


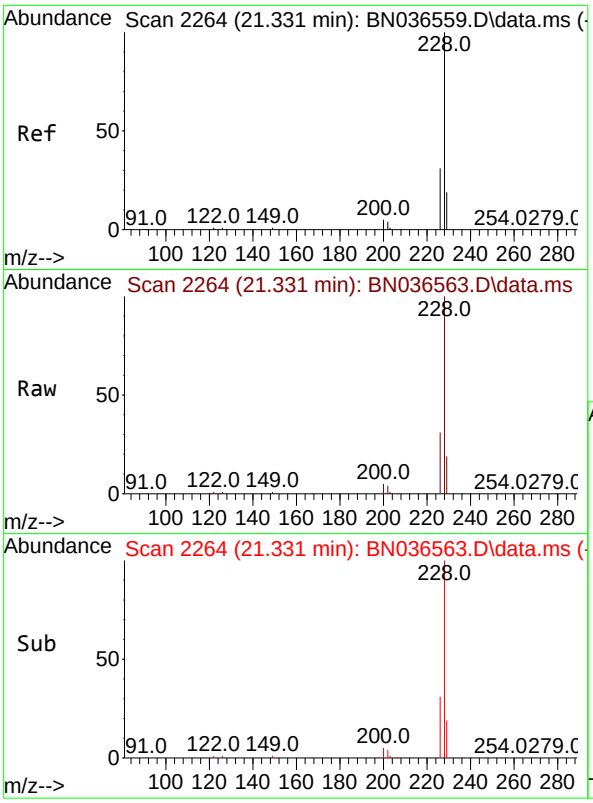




#32
Benzo(a)anthracene
Concen: 5.087 ng
RT: 21.277 min Scan# 2258
Delta R.T. -0.009 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Tgt Ion:228 Resp: 114481

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 28.3 | 22.5 | 33.7 |
| 229 | 19.2 | 16.6 | 25.0 |



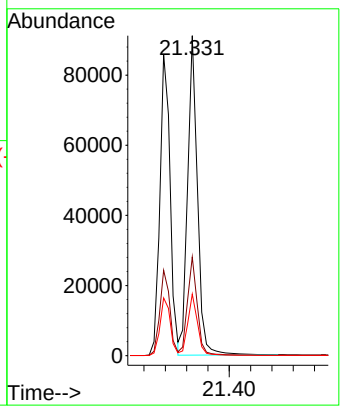


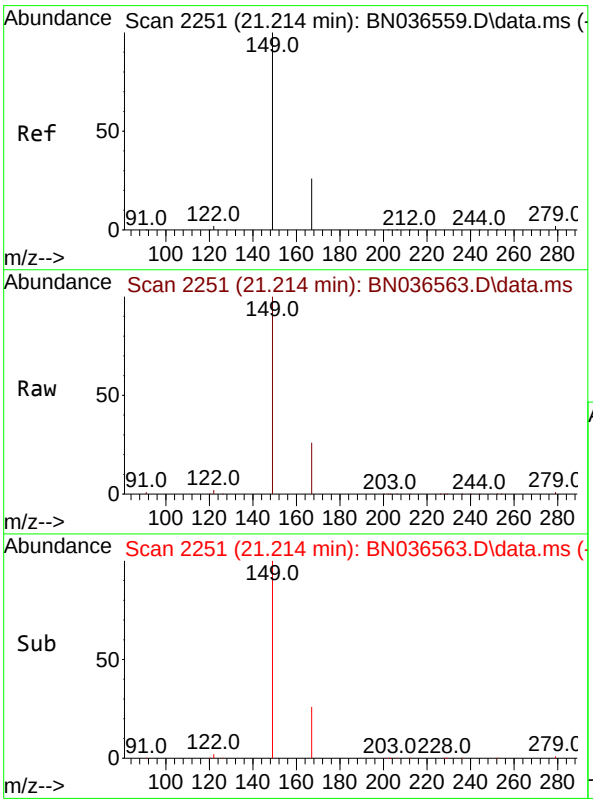

#33
Chrysene
Concen: 4.764 ng
RT: 21.331 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC5.0

Tgt Ion:228 Resp: 117149

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 30.9 | 25.3 | 37.9 |
| 229 | 19.3 | 15.8 | 23.8 |

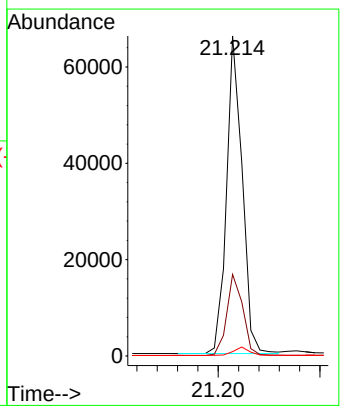


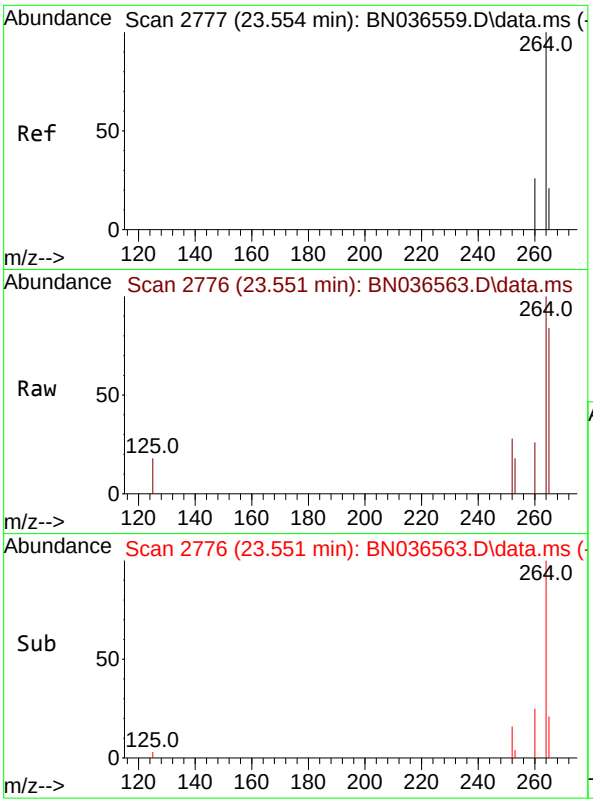




#34
Bis(2-ethylhexyl)phthalate
Concen: 4.390 ng
RT: 21.214 min Scan# 2251
Delta R.T. -0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Tgt Ion:149 Resp: 70345

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 26.2 | 20.7 | 31.1 |
| 279 | 2.6 | 3.6 | 5.4# |



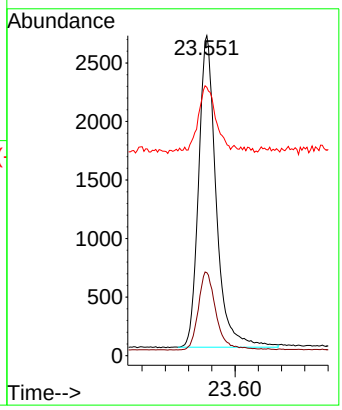


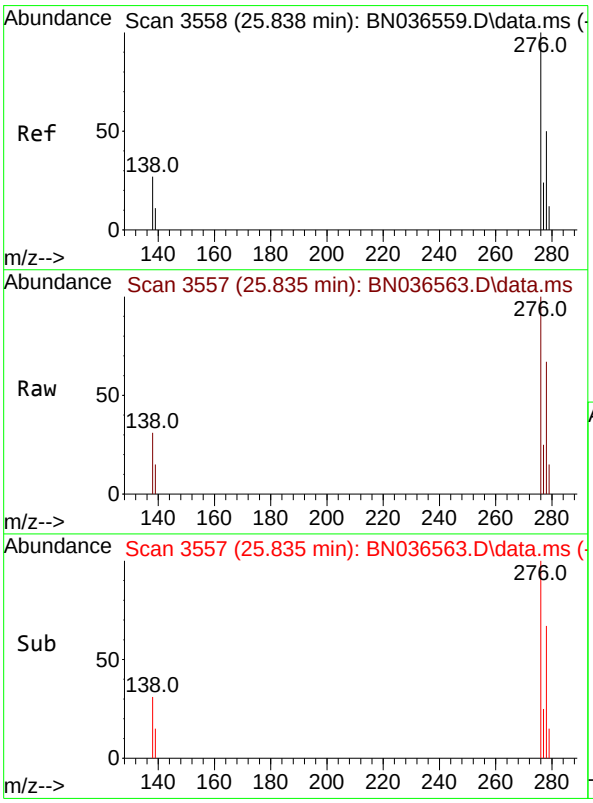

#35
Perylene-d12
Concen: 0.400 ng
RT: 23.551 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC5.0

Tgt Ion:264 Resp: 5580

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 25.9 | 22.6 | 33.8 |
| 265 | 83.8 | 88.1 | 132.1# |

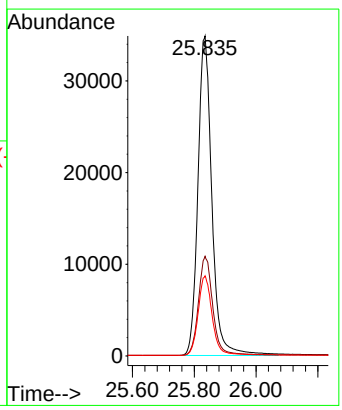


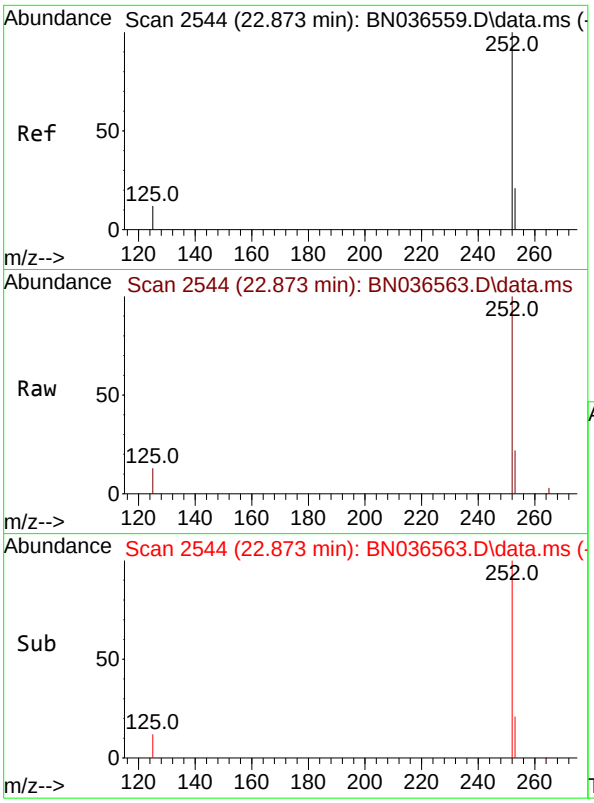




#36
Indeno(1,2,3-cd)pyrene
Concen: 5.440 ng
RT: 25.835 min Scan# 3557
Delta R.T. -0.003 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Tgt Ion:276 Resp: 109561

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 31.6 | 23.4 | 35.2 |
| 277 | 24.9 | 20.0 | 30.0 |



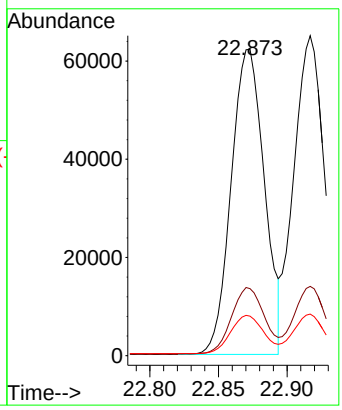


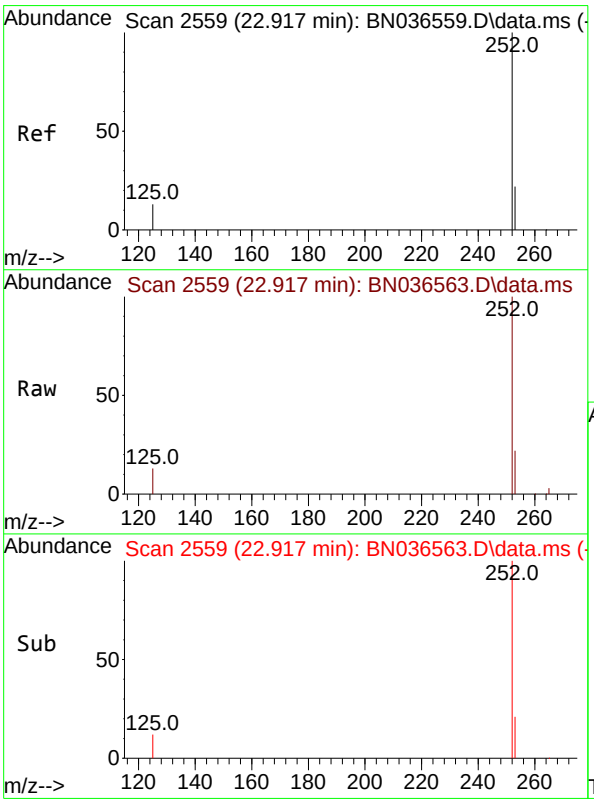

#37
Benzo(b)fluoranthene
Concen: 5.146 ng
RT: 22.873 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC5.0

Tgt Ion:252 Resp: 104498

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 21.9 | 23.9 | 35.9# |
| 125 | 12.9 | 17.4 | 26.2# |

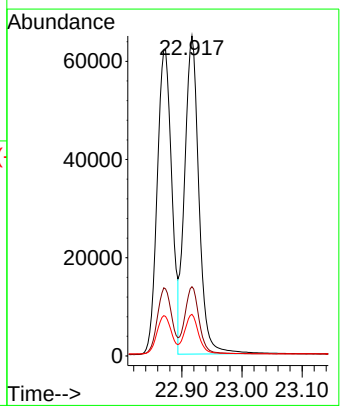


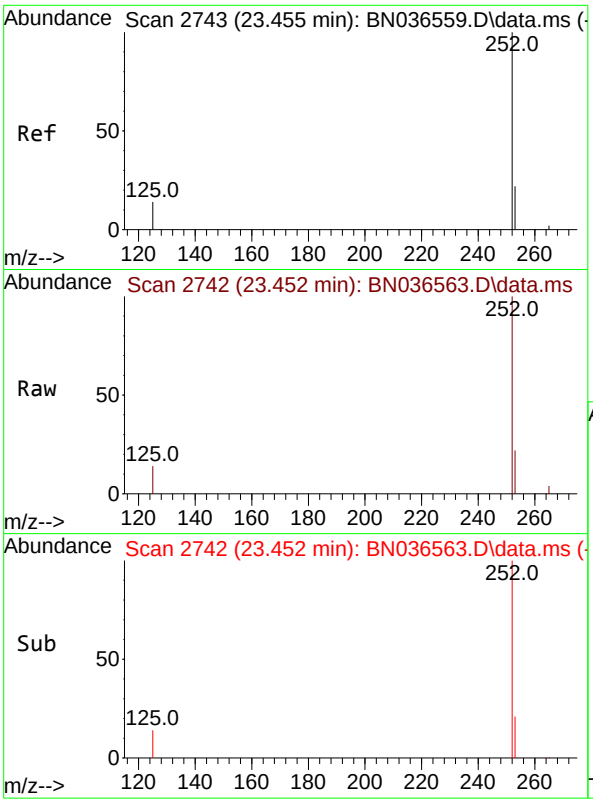




#38
Benzo(k)fluoranthene
Concen: 5.022 ng
RT: 22.917 min Scan# 2559
Delta R.T. 0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Tgt Ion:252 Resp: 106995

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 21.6 | 24.6 | 36.8# |
| 125 | 13.0 | 17.8 | 26.8# |



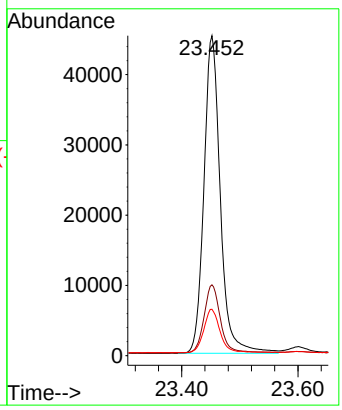


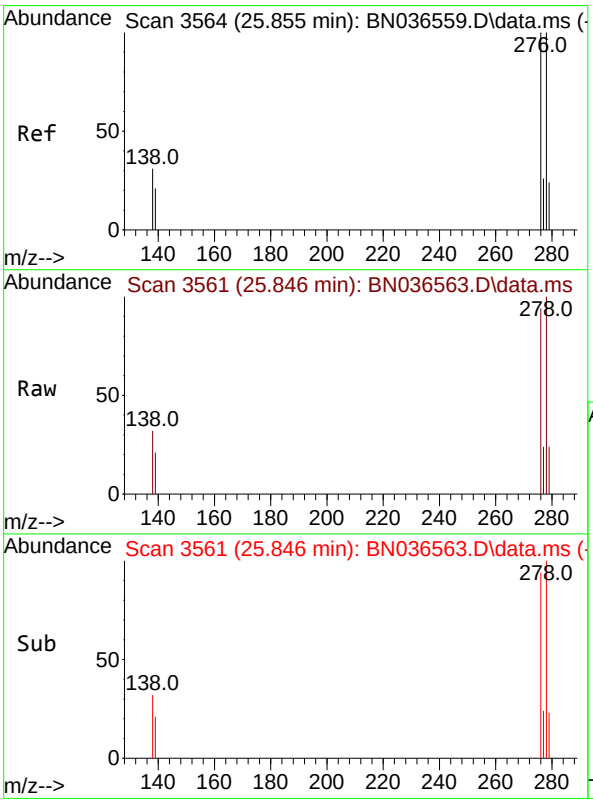

#39
Benzo(a)pyrene
Concen: 5.170 ng
RT: 23.452 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC5.0

Tgt Ion:252 Resp: 88413

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.2 | 27.8 | 41.8# |
| 125 | 14.5 | 22.7 | 34.1# |

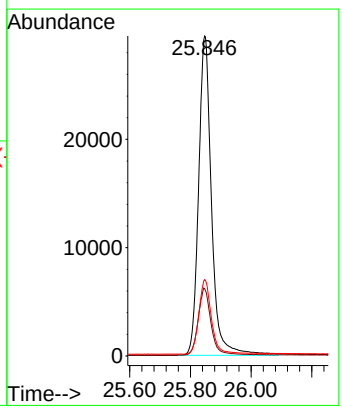


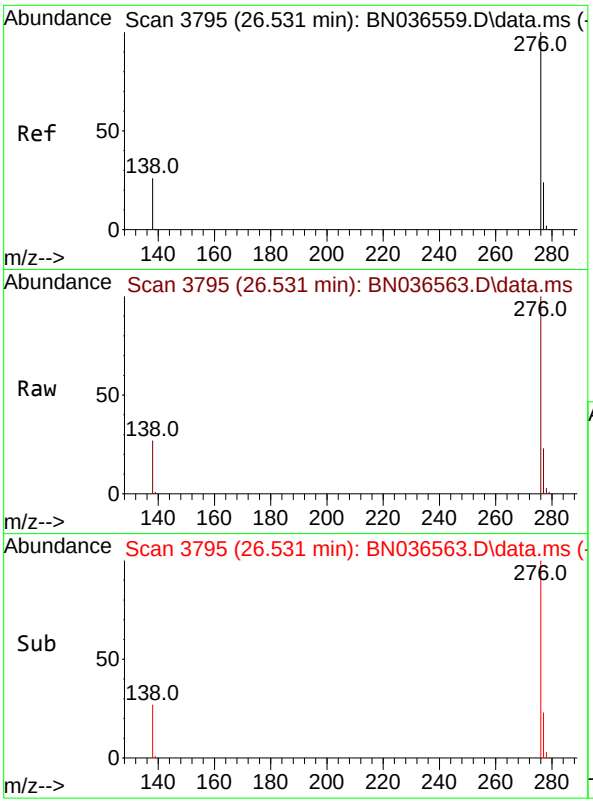




#40
Dibenzo(a,h)anthracene
Concen: 5.568 ng
RT: 25.846 min Scan# 3561
Delta R.T. -0.009 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Tgt Ion:278 Resp: 87308

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 21.0 | 20.8 | 31.2 |
| 279 | 23.9 | 28.8 | 43.2# |



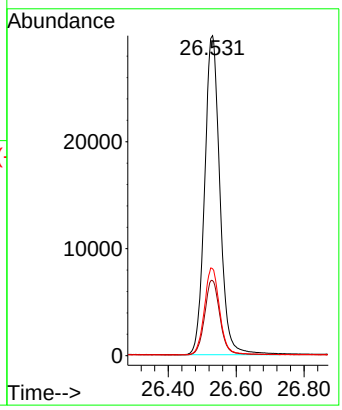



#41
Benzo(g,h,i)perylene
Concen: 5.189 ng
RT: 26.531 min Scan# 3
Delta R.T. -0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC5.0

Tgt Ion:276 Resp: 93067

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 23.4 | 22.2 | 33.4 |
| 138 | 27.1 | 24.1 | 36.1 |



Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036564.D
Acq On : 10 Mar 2025 16:38
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
ICVBN031025

Quant Time: Mar 10 17:10:04 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

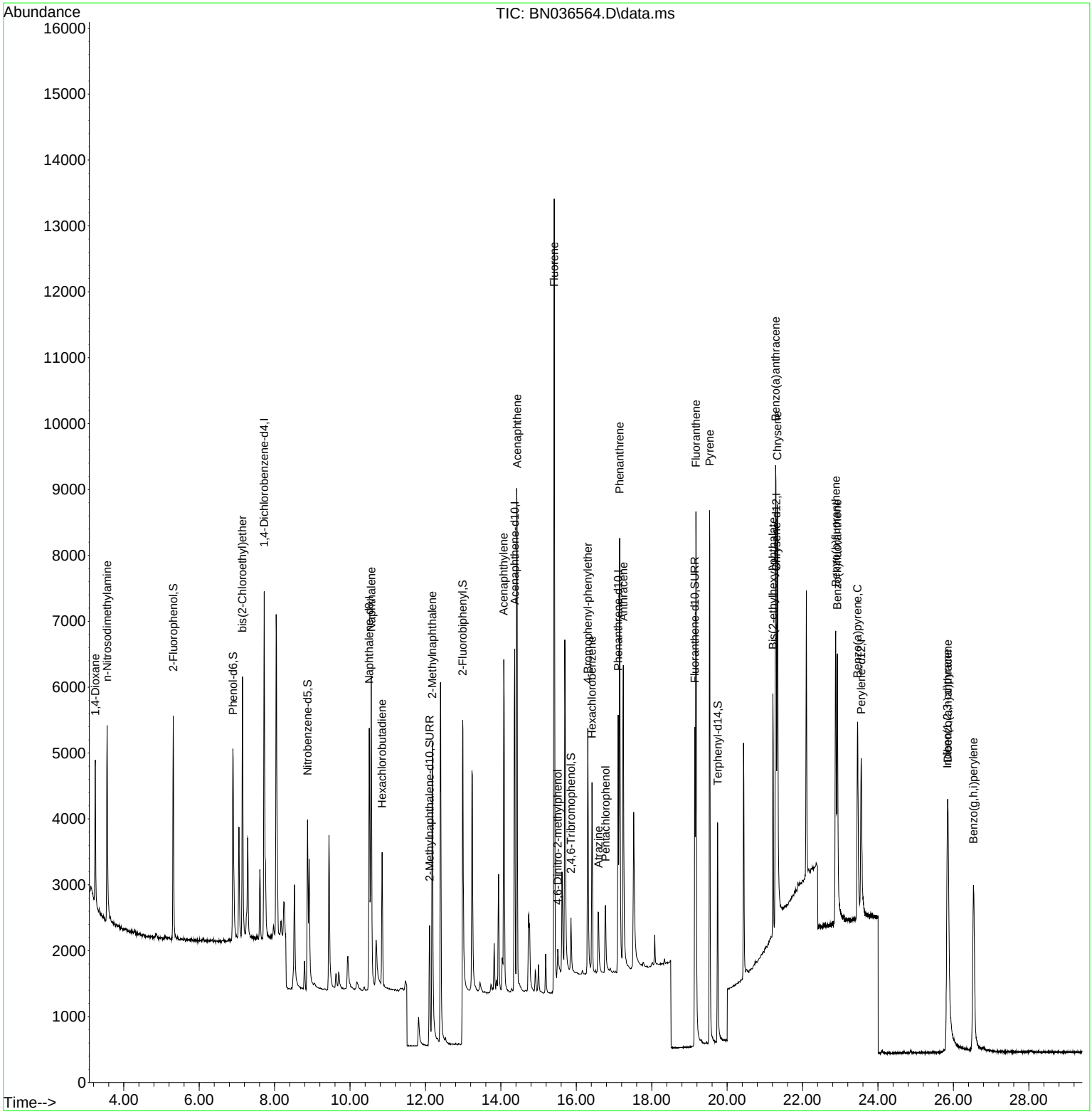
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.724 | 152 | 2488 | 0.400 | ng | | 0.00 |
| 7) Naphthalene-d8 | 10.509 | 136 | 5634 | 0.400 | ng | | 0.00 |
| 13) Acenaphthene-d10 | 14.366 | 164 | 3085 | 0.400 | ng | | 0.00 |
| 19) Phenanthrene-d10 | 17.111 | 188 | 5778 | 0.400 | ng | | 0.00 |
| 29) Chrysene-d12 | 21.304 | 240 | 4219 | 0.400 | ng | | 0.00 |
| 35) Perylene-d12 | 23.554 | 264 | 3835 | 0.400 | ng | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 4) 2-Fluorophenol | 5.312 | 112 | 2418 | 0.417 | ng | | 0.00 |
| 5) Phenol-d6 | 6.901 | 99 | 2744 | 0.383 | ng | | 0.00 |
| 8) Nitrobenzene-d5 | 8.875 | 82 | 2356 | 0.384 | ng | | 0.00 |
| 11) 2-Methylnaphthalene-d10 | 12.111 | 152 | 3345 | 0.399 | ng | | 0.00 |
| 14) 2,4,6-Tribromophenol | 15.858 | 330 | 511 | 0.365 | ng | | 0.00 |
| 15) 2-Fluorobiphenyl | 12.988 | 172 | 7753 | 0.432 | ng | | 0.00 |
| 27) Fluoranthene-d10 | 19.141 | 212 | 6152 | 0.415 | ng | | 0.00 |
| 31) Terphenyl-d14 | 19.750 | 244 | 3880 | 0.384 | ng | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.247 | 88 | 1297 | 0.470 | ng | | 97 |
| 3) n-Nitrosodimethylamine | 3.557 | 42 | 2284 | 0.409 | ng | | 96 |
| 6) bis(2-Chloroethyl)ether | 7.147 | 93 | 2945 | 0.398 | ng | | 100 |
| 9) Naphthalene | 10.562 | 128 | 6710 | 0.405 | ng | | 99 |
| 10) Hexachlorobutadiene | 10.850 | 225 | 1694 | 0.434 | ng | # | 98 |
| 12) 2-Methylnaphthalene | 12.182 | 142 | 4064 | 0.385 | ng | | 99 |
| 16) Acenaphthylene | 14.077 | 152 | 6059 | 0.416 | ng | | 99 |
| 17) Acenaphthene | 14.430 | 154 | 4035 | 0.423 | ng | | 99 |
| 18) Fluorene | 15.414 | 166 | 5226 | 0.405 | ng | | 99 |
| 20) 4,6-Dinitro-2-methylph... | 15.510 | 198 | 404 | 0.420 | ng | | 94 |
| 21) 4-Bromophenyl-phenylether | 16.304 | 248 | 1524 | 0.421 | ng | | 96 |
| 22) Hexachlorobenzene | 16.416 | 284 | 1987 | 0.455 | ng | | 99 |
| 23) Atrazine | 16.590 | 200 | 1165 | 0.401 | ng | | 95 |
| 24) Pentachlorophenol | 16.776 | 266 | 699 | 0.351 | ng | | 95 |
| 25) Phenanthrene | 17.148 | 178 | 7229 | 0.417 | ng | | 99 |
| 26) Anthracene | 17.248 | 178 | 6358 | 0.407 | ng | | 99 |
| 28) Fluoranthene | 19.174 | 202 | 8068 | 0.414 | ng | | 100 |
| 30) Pyrene | 19.536 | 202 | 8156 | 0.395 | ng | | 100 |
| 32) Benzo(a)anthracene | 21.286 | 228 | 5814 | 0.396 | ng | | 100 |
| 33) Chrysene | 21.331 | 228 | 6940 | 0.433 | ng | | 98 |
| 34) Bis(2-ethylhexyl)phtha... | 21.214 | 149 | 3594 | 0.344 | ng | | 98 |
| 36) Indeno(1,2,3-cd)pyrene | 25.841 | 276 | 6410 | 0.463 | ng | | 98 |
| 37) Benzo(b)fluoranthene | 22.879 | 252 | 5902 | 0.423 | ng | | 99 |
| 38) Benzo(k)fluoranthene | 22.923 | 252 | 6286 | 0.429 | ng | | 98 |
| 39) Benzo(a)pyrene | 23.458 | 252 | 5147 | 0.438 | ng | | 99 |
| 40) Dibenzo(a,h)anthracene | 25.855 | 278 | 4740 | 0.440 | ng | | 97 |
| 41) Benzo(g,h,i)perylene | 26.534 | 276 | 5877 | 0.477 | ng | | 97 |

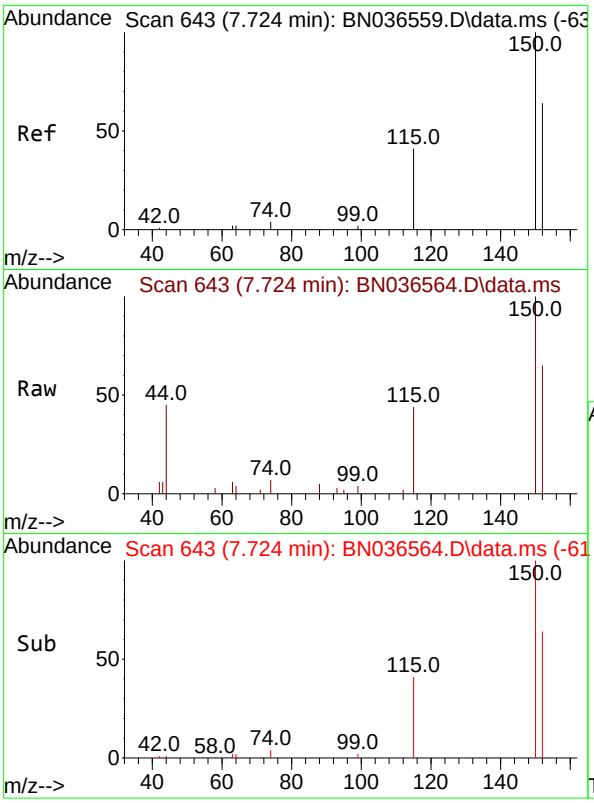
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036564.D
Acq On : 10 Mar 2025 16:38
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
ICVBN031025

Quant Time: Mar 10 17:10:04 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration



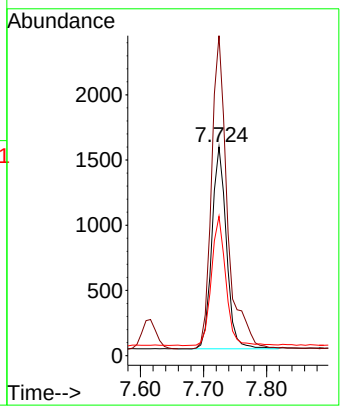


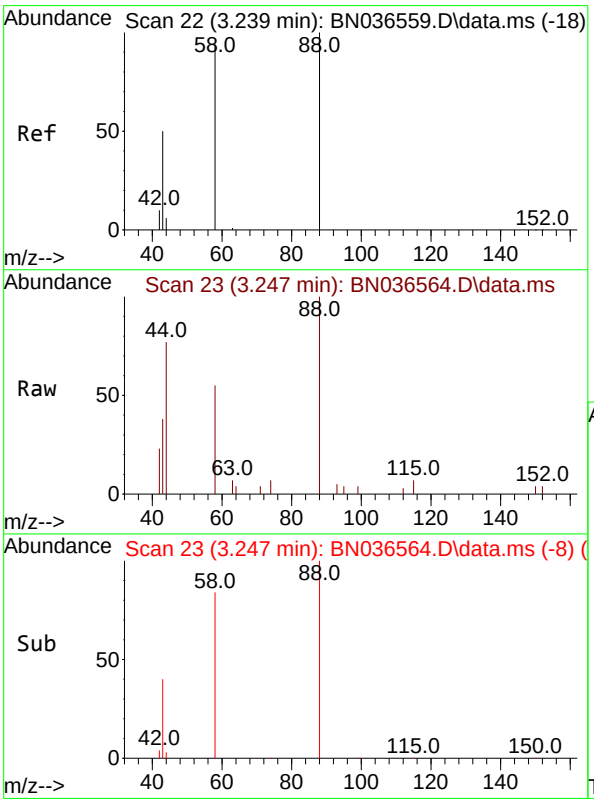

#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

**Instrument :**
BNA_N
**ClientSampleId :**
ICVBN031025

Tgt Ion:152 Resp: 2488

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 153.3 | 123.7 | 185.5 |
| 115 | 66.7 | 54.3 | 81.5 |

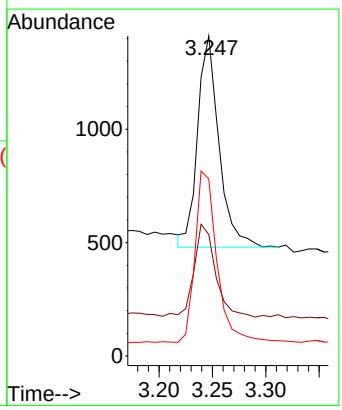


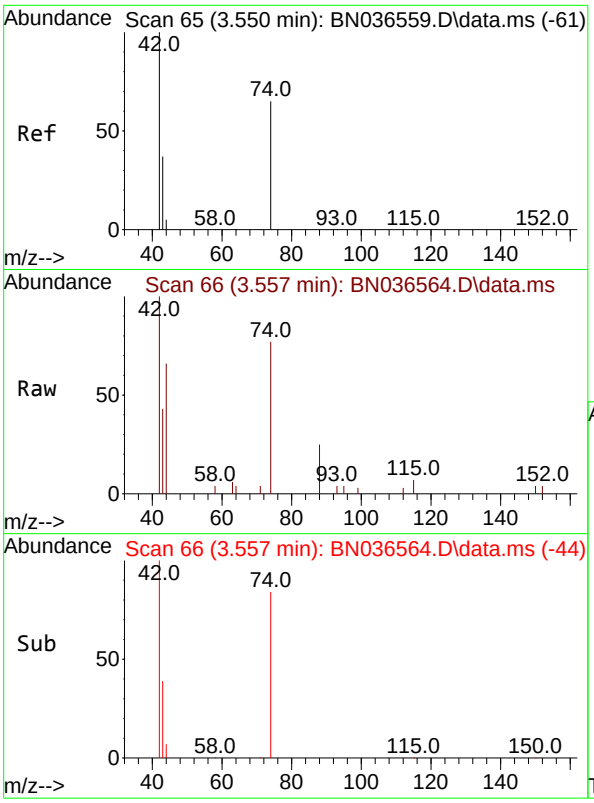




#2
1,4-Dioxane
Concen: 0.470 ng
RT: 3.247 min Scan# 23
Delta R.T. 0.008 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Tgt Ion: 88 Resp: 1297

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 44.1 | 37.8 | 56.8 |
| 58 | 82.4 | 67.4 | 101.2 |



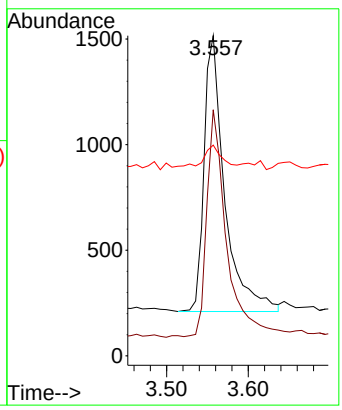


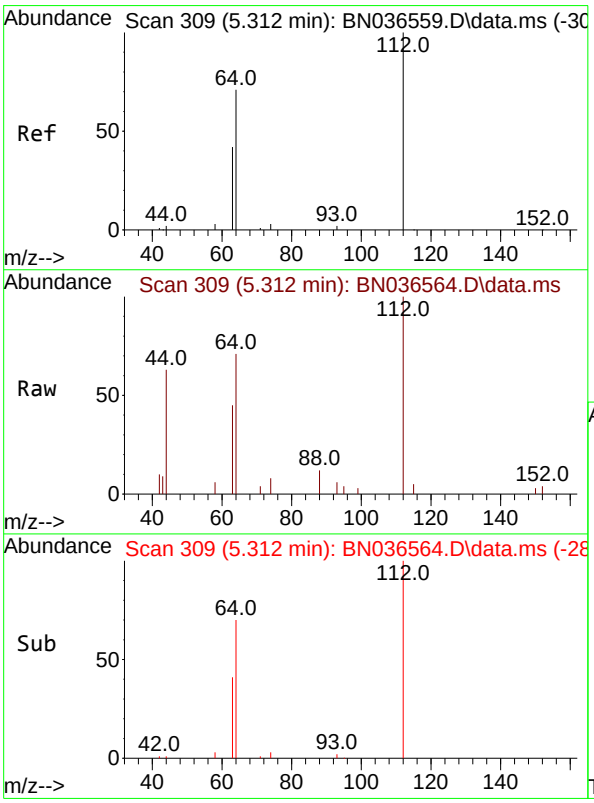

#3
n-Nitrosodimethylamine
Concen: 0.409 ng
RT: 3.557 min Scan# 6
Delta R.T. 0.007 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

**Instrument :**
BNA_N
**ClientSampleId :**
ICVBN031025

Tgt Ion: 42 Resp: 2284

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 79.2 | 60.6 | 90.8 |
| 44 | 8.2 | 6.3 | 9.5 |

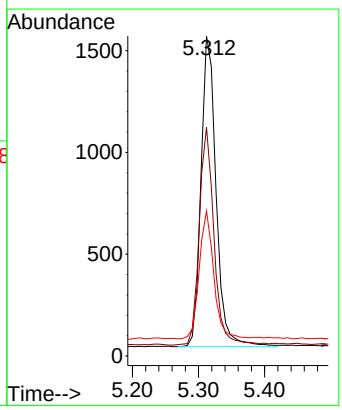


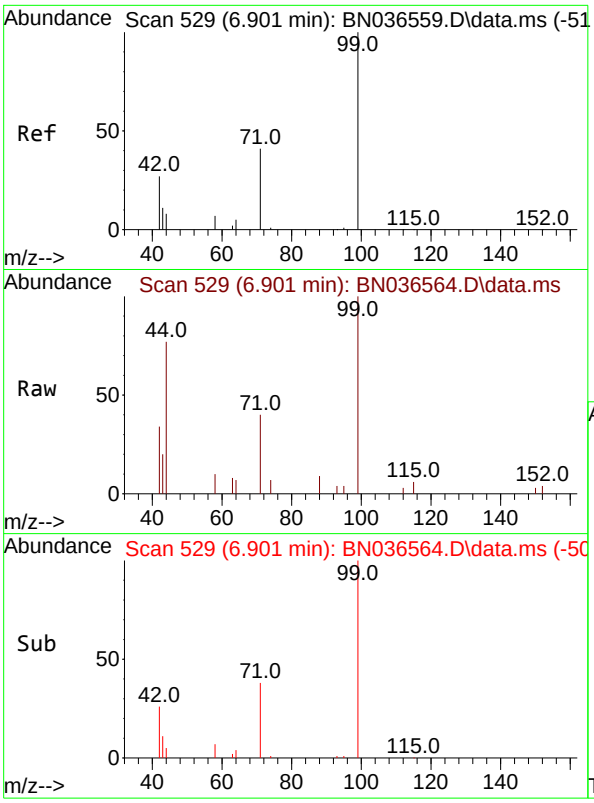




#4
2-Fluorophenol
Concen: 0.417 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Tgt Ion:112 Resp: 2418

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 68.2 | 53.1 | 79.7 |
| 63 | 39.8 | 31.8 | 47.8 |



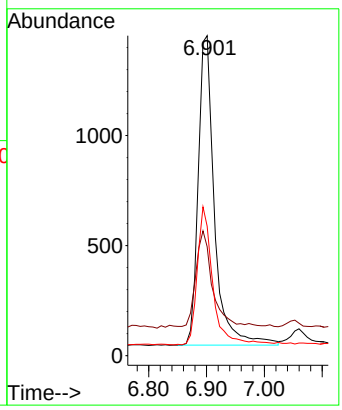


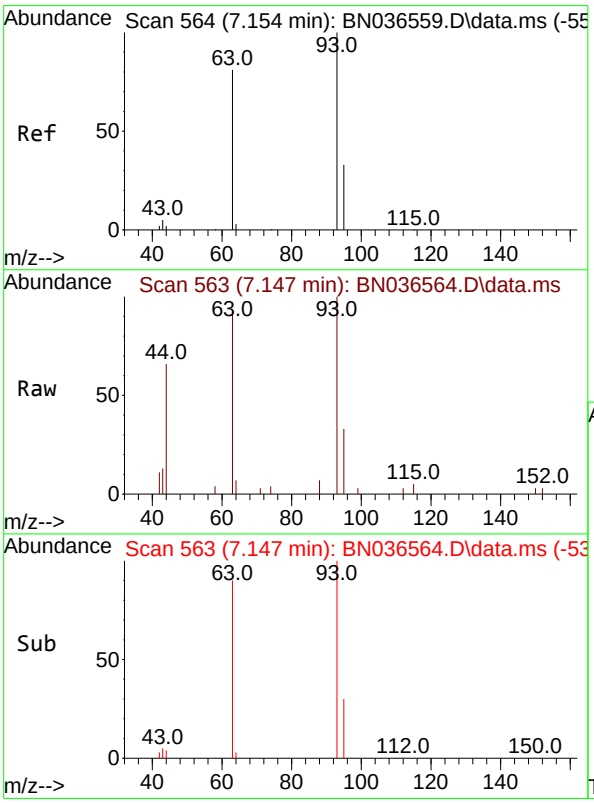

#5
Phenol-d6
Concen: 0.383 ng
RT: 6.901 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

**Instrument :**
BNA_N
**ClientSampleId :**
ICVBN031025

Tgt Ion: 99 Resp: 2744

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 32.1 | 26.5 | 39.7 |
| 71 | 42.9 | 34.1 | 51.1 |

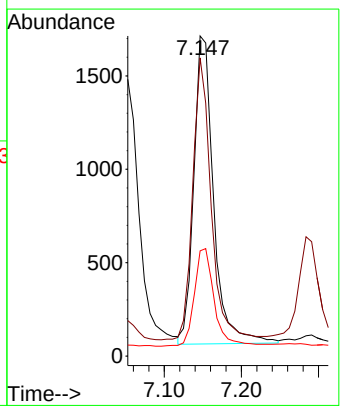


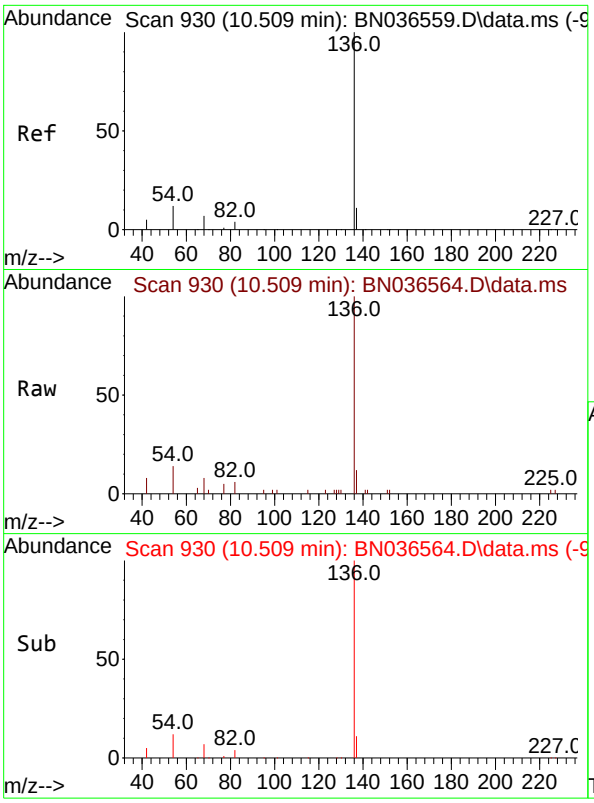




#6
bis(2-Chloroethyl)ether
Concen: 0.398 ng
RT: 7.147 min Scan# 563
Delta R.T. -0.007 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Tgt Ion: 93 Resp: 2945

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 85.1 | 67.7 | 101.5 |
| 95 | 31.7 | 25.6 | 38.4 |



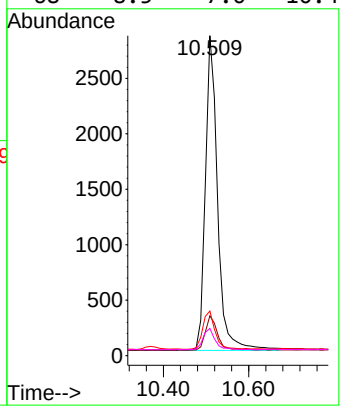


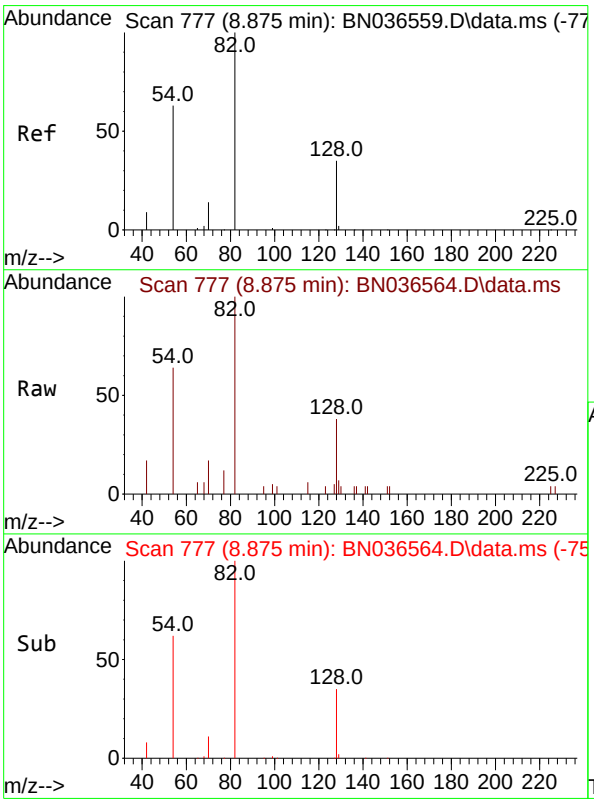

#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

**Instrument :**
BNA_N
**ClientSampleId :**
ICVBN031025

Tgt Ion:136 Resp: 5634

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 12.4 | 10.3 | 15.5 |
| 54 | 13.9 | 11.5 | 17.3 |
| 68 | 8.5 | 7.0 | 10.4 |

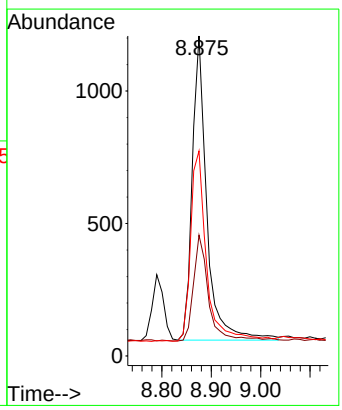


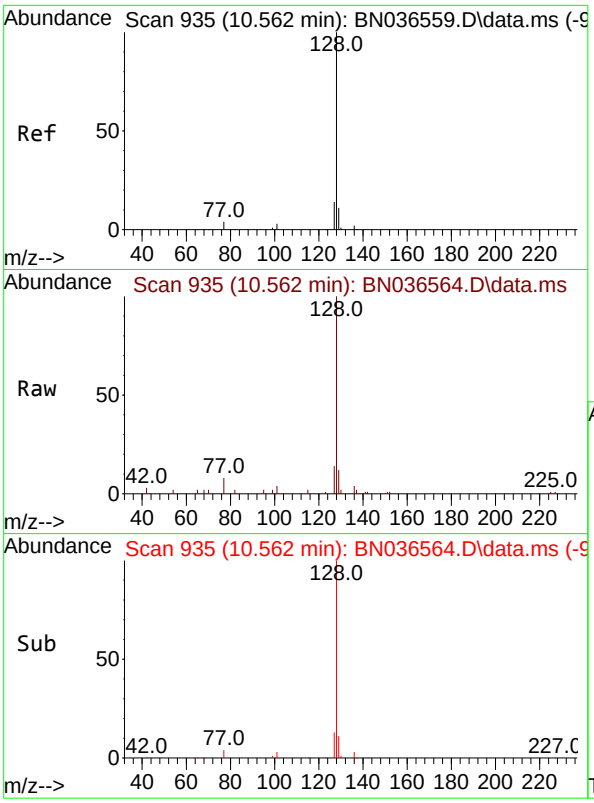




#8
Nitrobenzene-d5
Concen: 0.384 ng
RT: 8.875 min Scan# 777
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Tgt Ion: 82 Resp: 2356

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 37.7 | 30.6 | 45.8 |
| 54 | 64.1 | 52.2 | 78.4 |



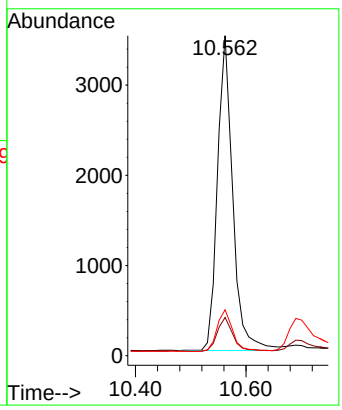


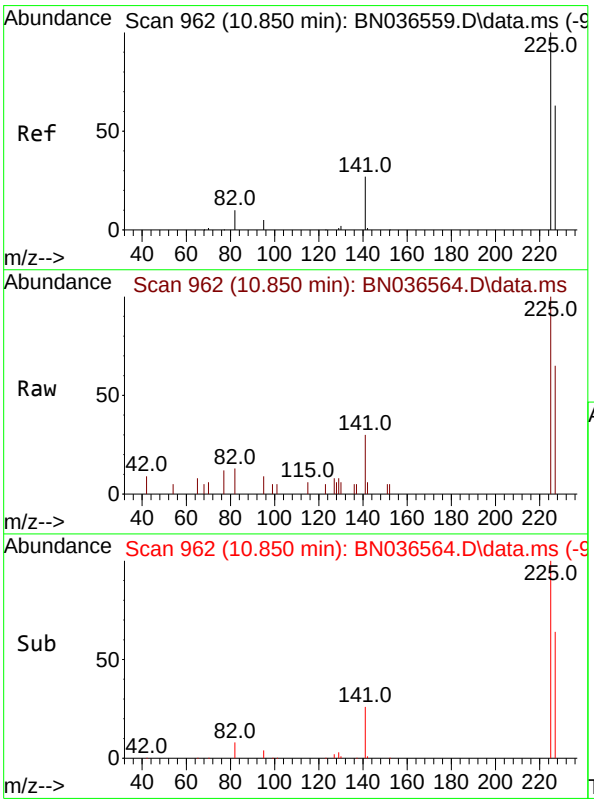

#9
Naphthalene
Concen: 0.405 ng
RT: 10.562 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

**Instrument :**
BNA_N
**ClientSampleId :**
ICVBN031025

Tgt Ion:128 Resp: 6710

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 11.9 | 9.8 | 14.6 |
| 127 | 14.3 | 11.8 | 17.8 |

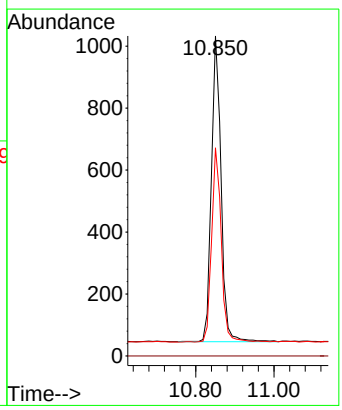


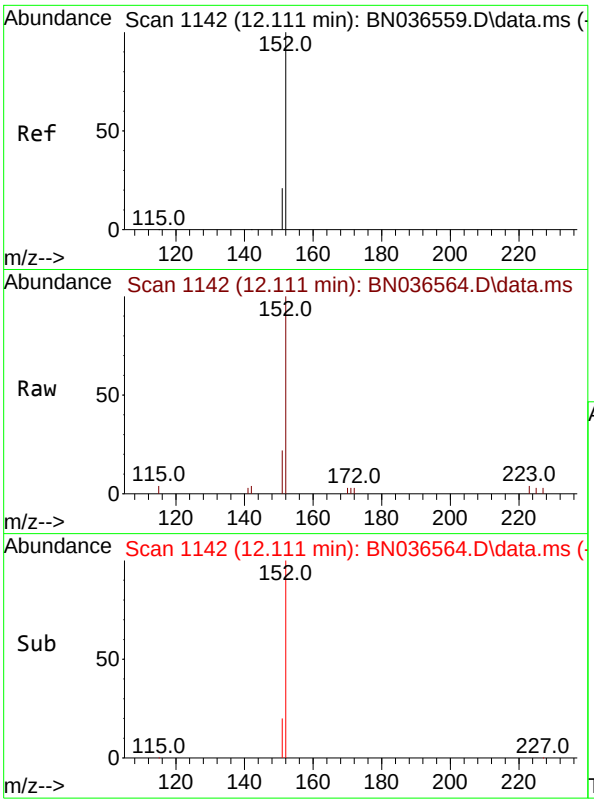




#10
Hexachlorobutadiene
Concen: 0.434 ng
RT: 10.850 min Scan# 962
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Tgt Ion:225 Resp: 1694

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 0.0 | 0.0 | 0.0 |
| 227 | 63.5 | 51.8 | 77.8 |



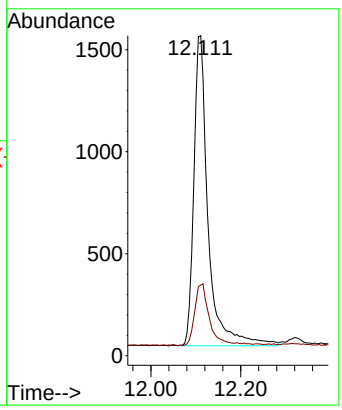


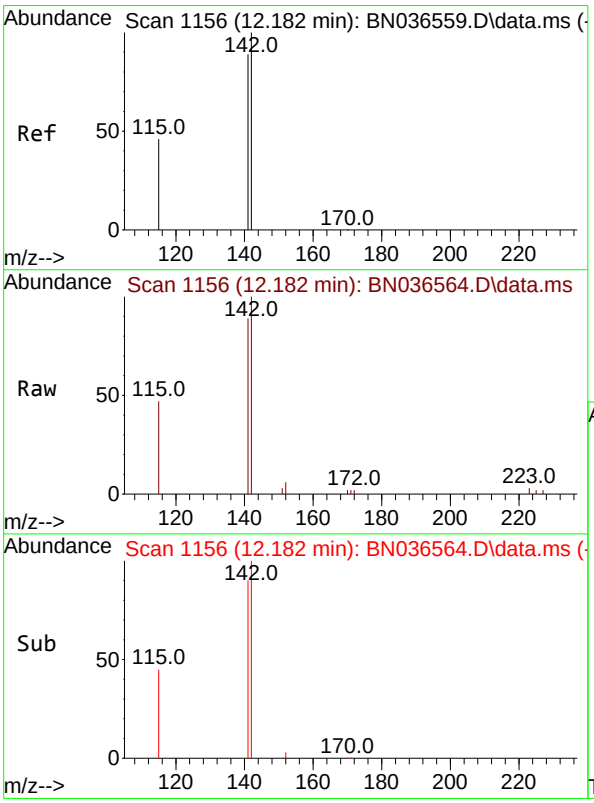

#11
2-Methylnaphthalene-d10
Concen: 0.399 ng
RT: 12.111 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

**Instrument :**
BNA_N
**ClientSampleId :**
ICVBN031025

Tgt Ion:152 Resp: 3345

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.2 | 17.0 | 25.6 |

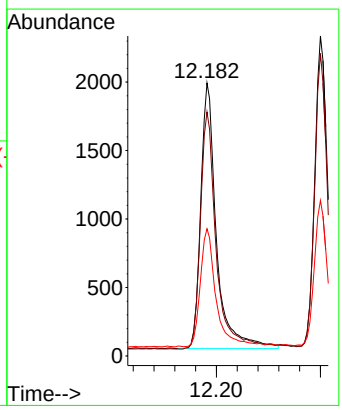


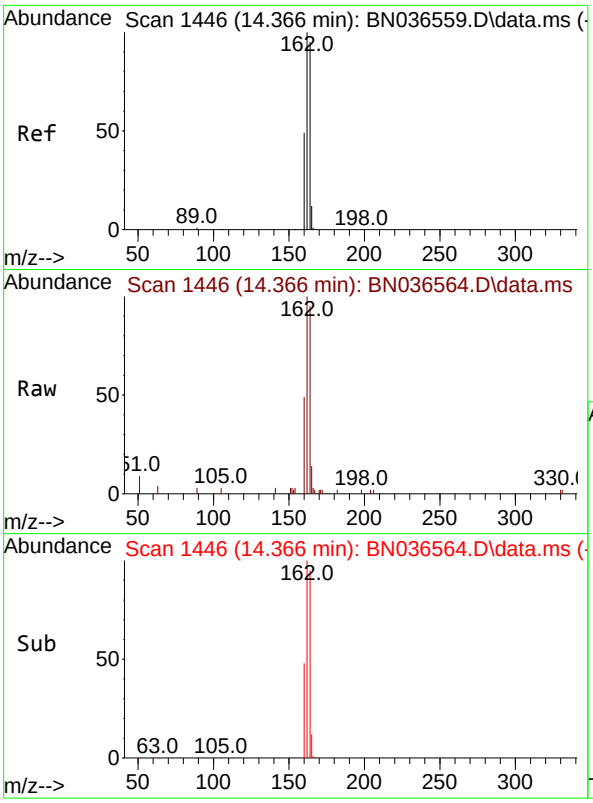




#12
2-Methylnaphthalene
Concen: 0.385 ng
RT: 12.182 min Scan# 1156
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Tgt Ion:142 Resp: 4064

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 89.4 | 71.7 | 107.5 |
| 115 | 46.6 | 38.3 | 57.5 |



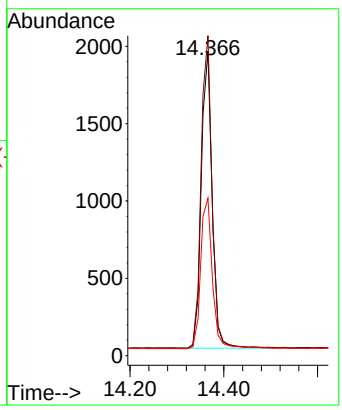


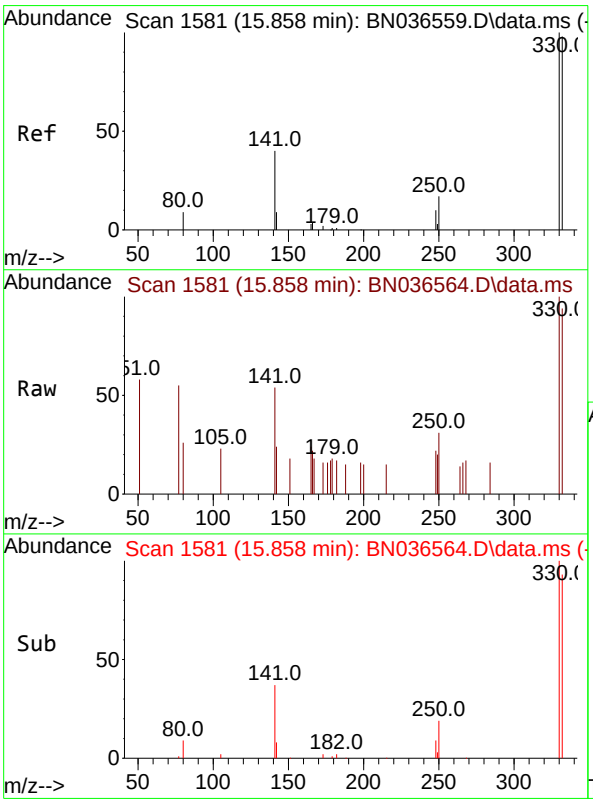

#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

**Instrument :**
BNA_N
**ClientSampleId :**
ICVBN031025

Tgt Ion:164 Resp: 3085

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 105.0 | 84.2 | 126.2 |
| 160 | 51.7 | 42.2 | 63.2 |

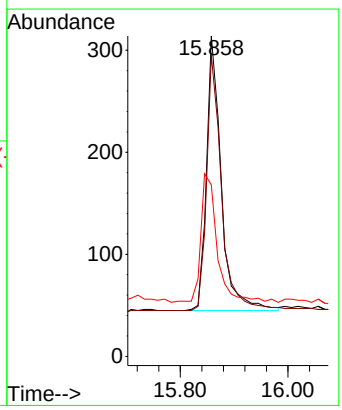


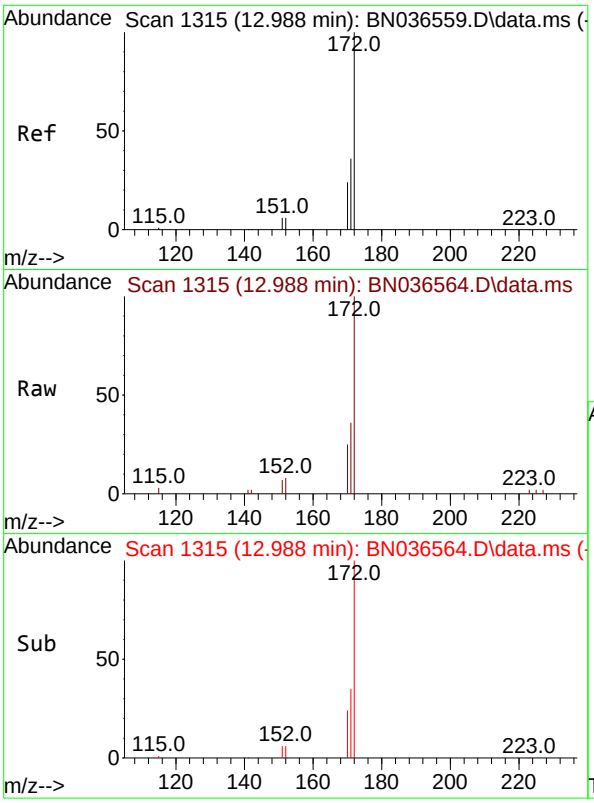




#14
2,4,6-Tribromophenol
Concen: 0.365 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Tgt Ion:330 Resp: 511

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 93.9 | 75.2 | 112.8 |
| 141 | 51.5 | 43.4 | 65.2 |



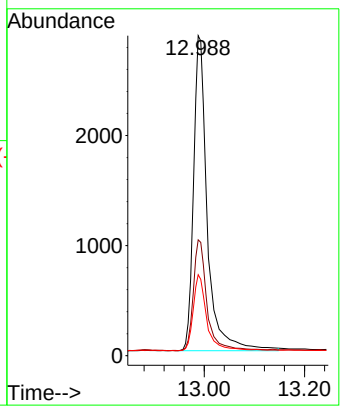


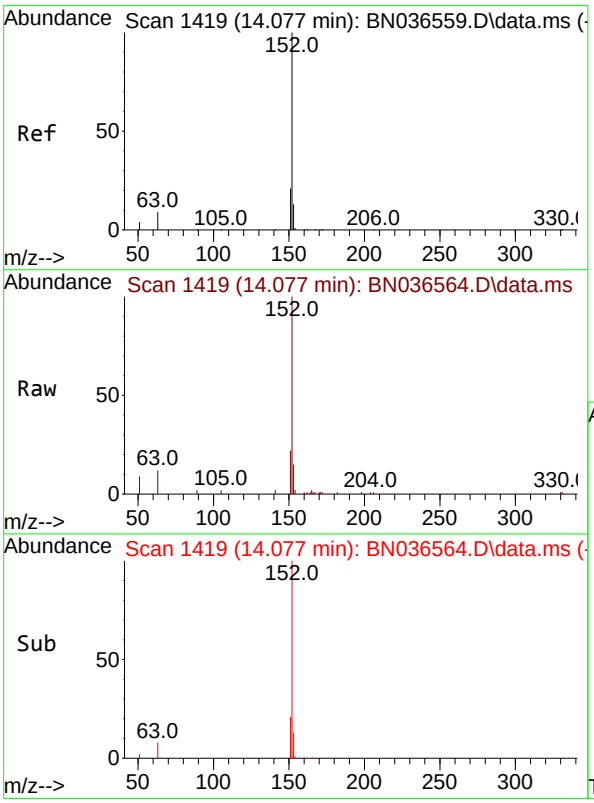

#15
2-Fluorobiphenyl
Concen: 0.432 ng
RT: 12.988 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

**Instrument :**
BNA_N
**ClientSampleId :**
ICVBN031025

Tgt Ion:172 Resp: 7753

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 36.2 | 29.5 | 44.3 |
| 170 | 25.3 | 20.2 | 30.4 |

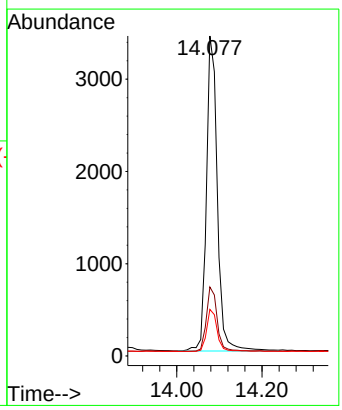


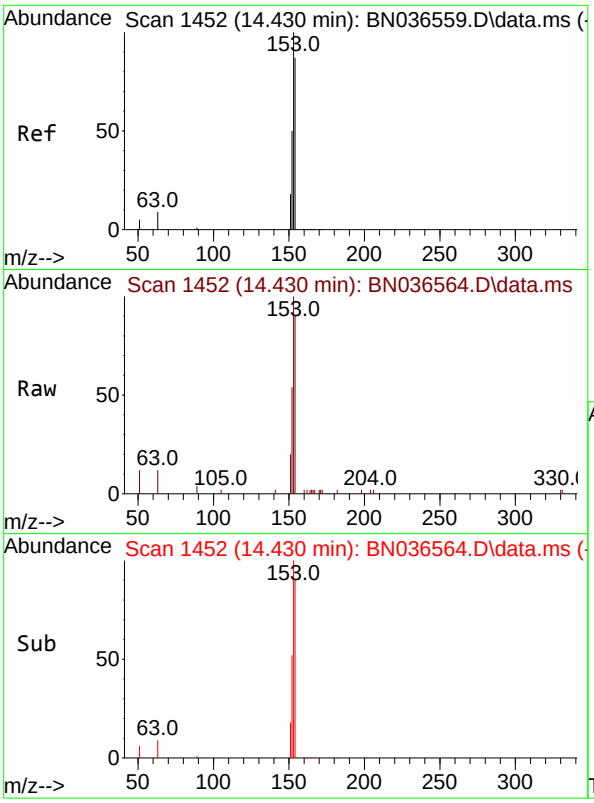




#16
Acenaphthylene
Concen: 0.416 ng
RT: 14.077 min Scan# 1419
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Tgt Ion:152 Resp: 6059

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.1 | 16.2 | 24.4 |
| 153 | 12.9 | 10.6 | 15.8 |



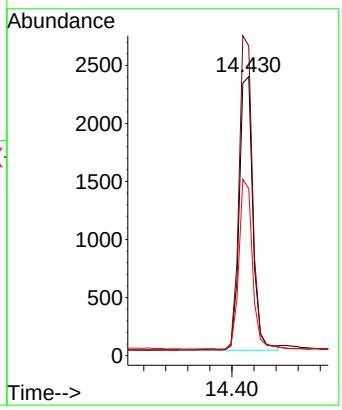


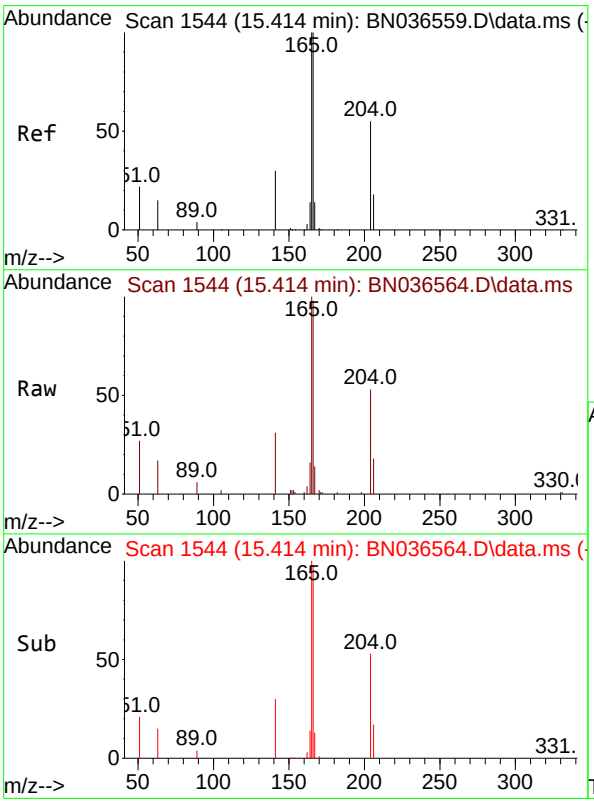

#17
Acenaphthene
Concen: 0.423 ng
RT: 14.430 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

**Instrument :**
BNA_N
**ClientSampleId :**
ICVBN031025

Tgt Ion:154 Resp: 4035

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 115.5 | 94.1 | 141.1 |
| 152 | 61.9 | 49.8 | 74.6 |

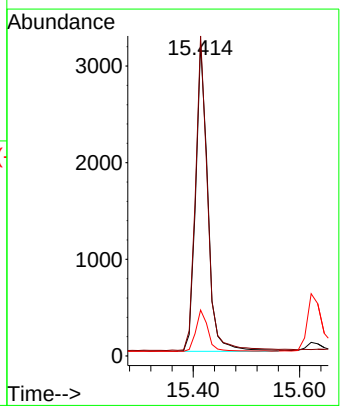


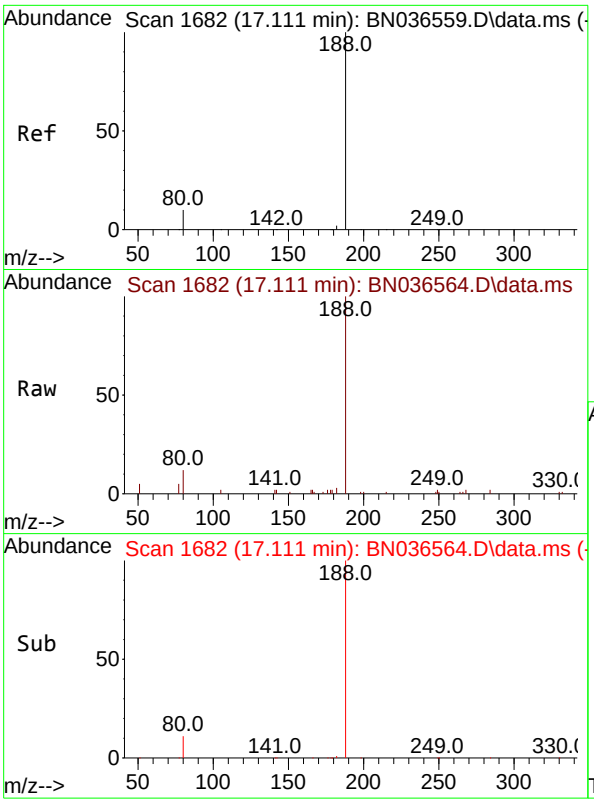




#18
Fluorene
Concen: 0.405 ng
RT: 15.414 min Scan# 1544
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Tgt Ion:166 Resp: 5226

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 101.1 | 79.8 | 119.8 |
| 167 | 13.1 | 10.6 | 15.8 |



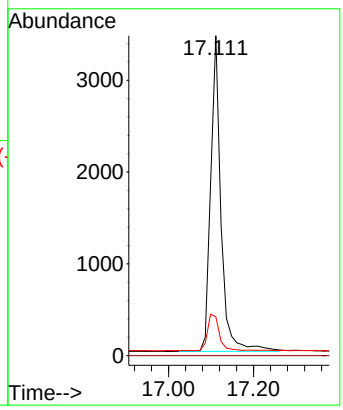


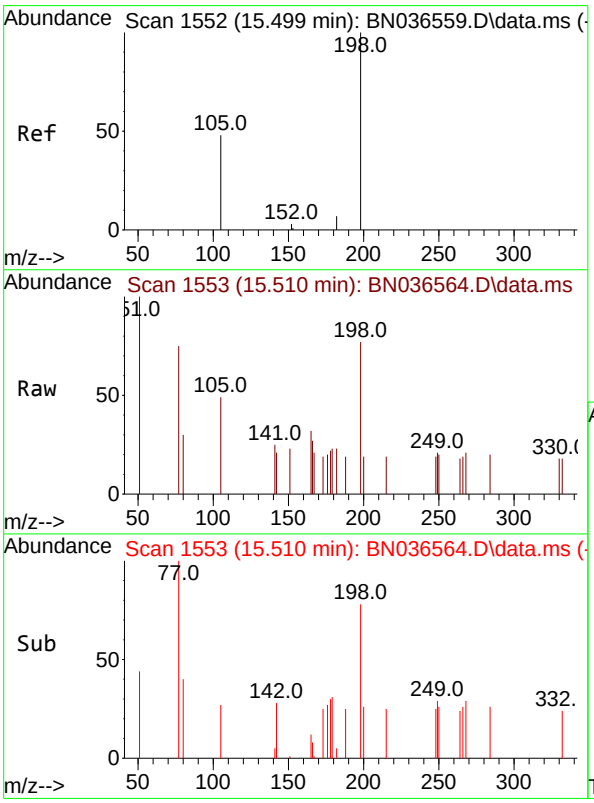

#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.111 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

**Instrument :**
BNA_N
**ClientSampleId :**
ICVBN031025

Tgt Ion:188 Resp: 5778

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 12.2 | 8.8 | 13.2 |

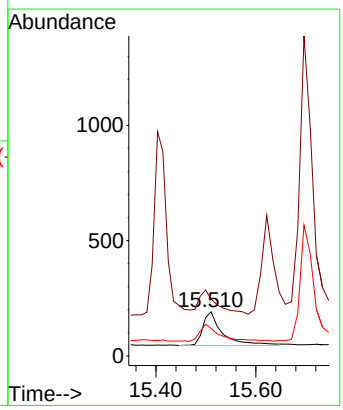


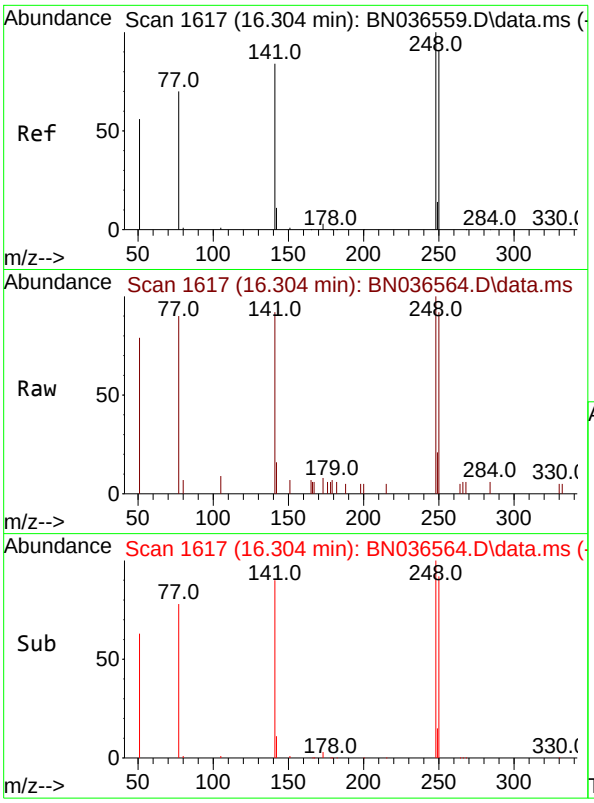




#20
4,6-Dinitro-2-methylphenol
Concen: 0.420 ng
RT: 15.510 min Scan# 1553
Delta R.T. 0.011 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Tgt Ion:198 Resp: 404

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 198 | 100 | | |
| 51 | 129.3 | 107.9 | 161.9 |
| 105 | 62.8 | 56.2 | 84.2 |



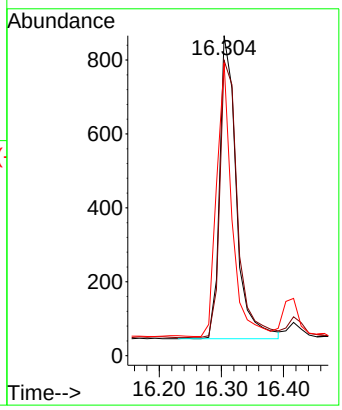


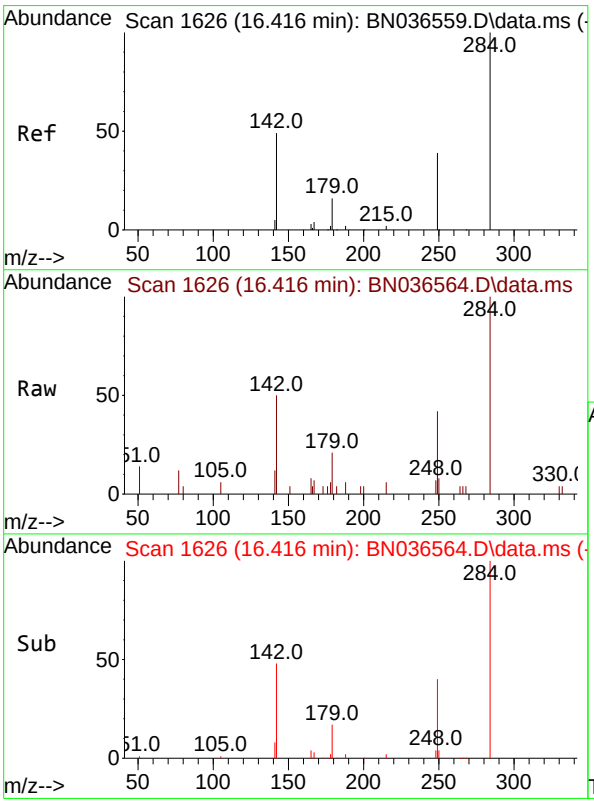

#21
4-Bromophenyl-phenylether
Concen: 0.421 ng
RT: 16.304 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

**Instrument :**
BNA_N
**ClientSampleId :**
ICVBN031025

Tgt Ion:248 Resp: 1524

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 92.3 | 73.0 | 109.6 |
| 141 | 91.6 | 68.6 | 103.0 |

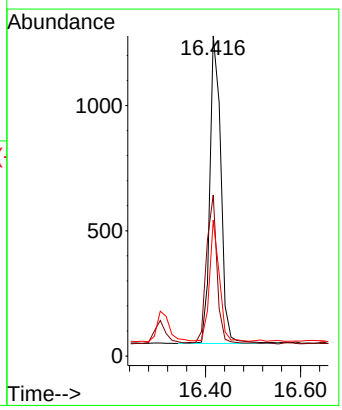


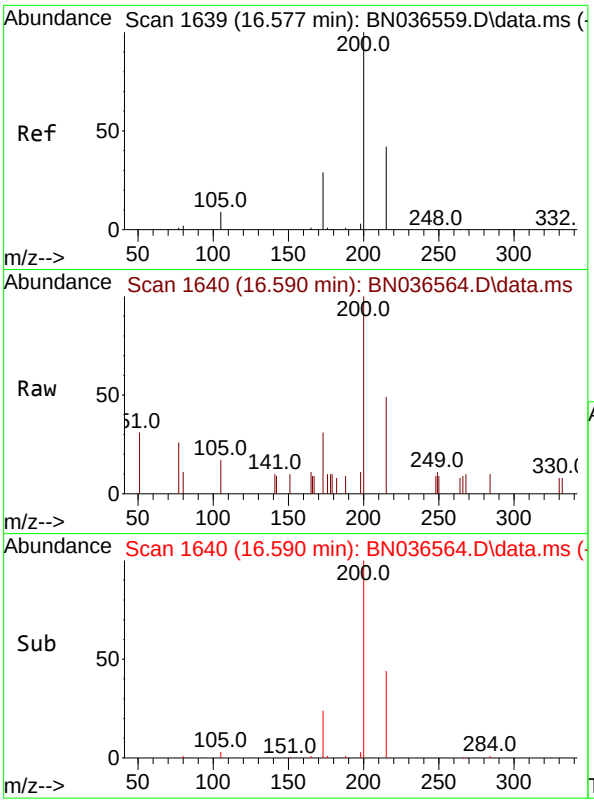




#22
Hexachlorobenzene
Concen: 0.455 ng
RT: 16.416 min Scan# 1626
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Tgt Ion:284 Resp: 1987

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 47.5 | 37.0 | 55.4 |
| 249 | 34.9 | 28.1 | 42.1 |



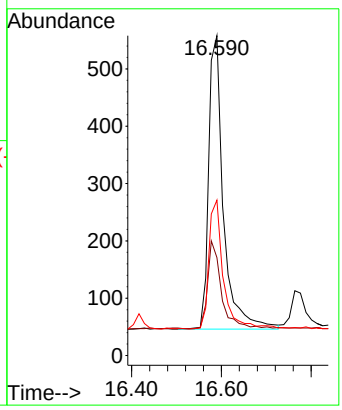


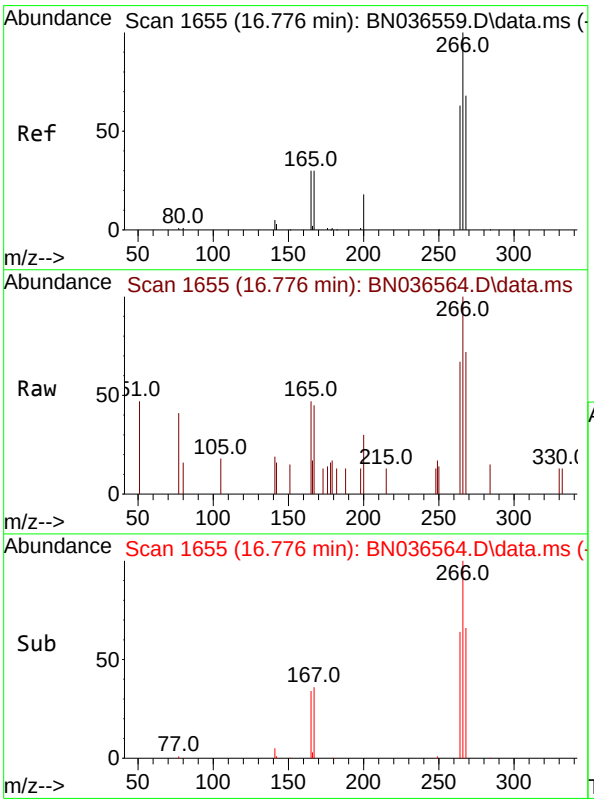

#23
Atrazine
Concen: 0.401 ng
RT: 16.590 min Scan# 1
Delta R.T. 0.012 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

**Instrument :**
BNA_N
**ClientSampleId :**
ICVBN031025

Tgt Ion:200 Resp: 1165

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 173 | 30.6 | 27.3 | 40.9 |
| 215 | 48.6 | 36.8 | 55.2 |

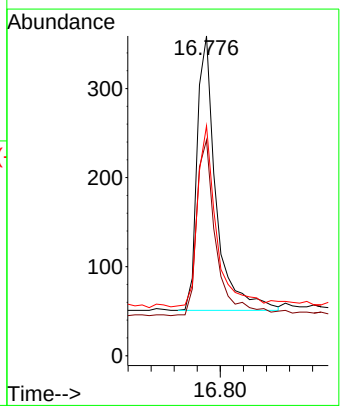


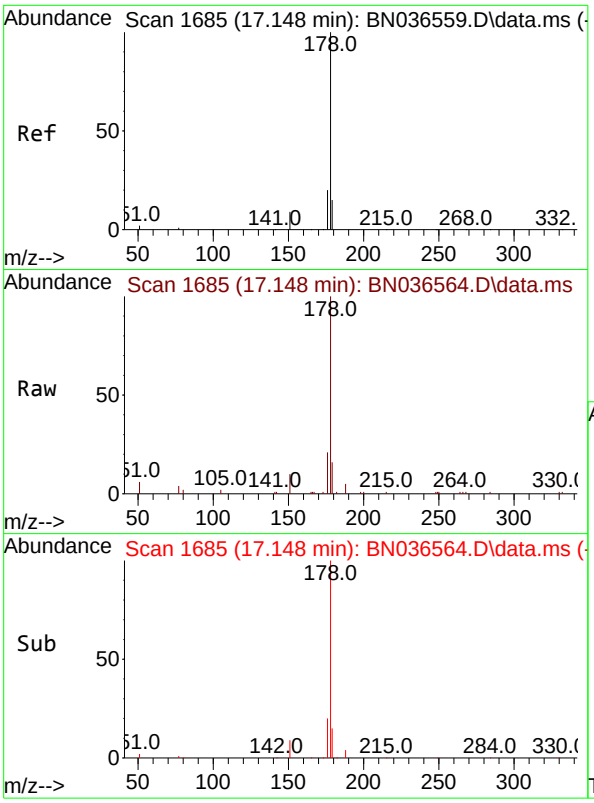




#24
Pentachlorophenol
Concen: 0.351 ng
RT: 16.776 min Scan# 1655
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Tgt Ion:266 Resp: 699

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 264 | 67.1 | 49.6 | 74.4 |
| 268 | 66.7 | 50.9 | 76.3 |



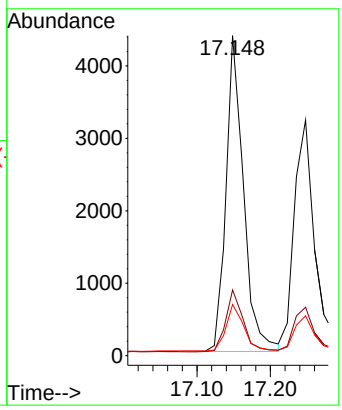


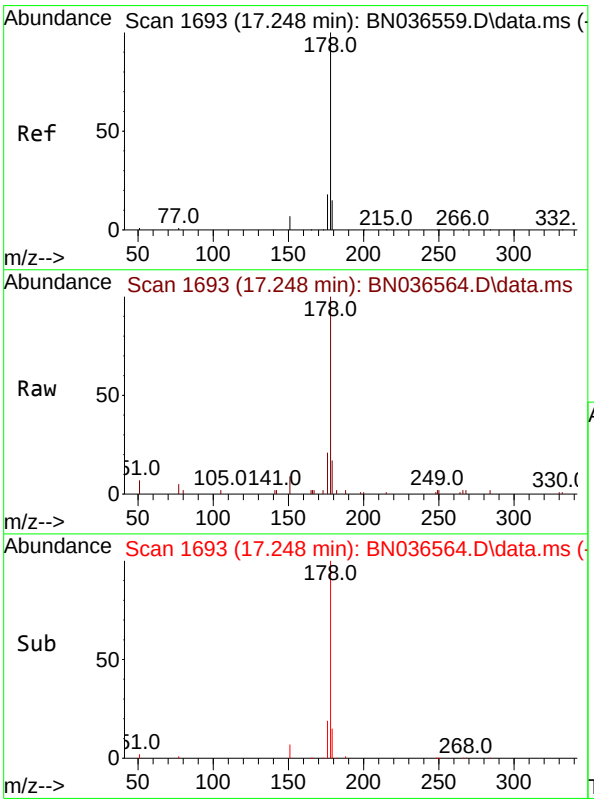

#25
Phenanthrene
Concen: 0.417 ng
RT: 17.148 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

**Instrument :**
BNA_N
**ClientSampleId :**
ICVBN031025

Tgt Ion:178 Resp: 7229

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.8 | 15.9 | 23.9 |
| 179 | 15.0 | 12.2 | 18.4 |

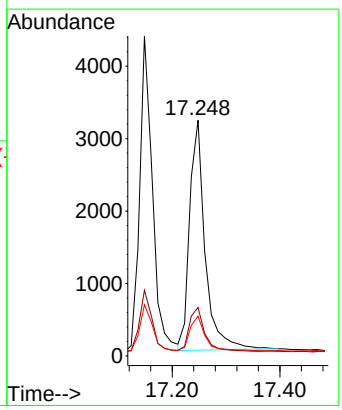


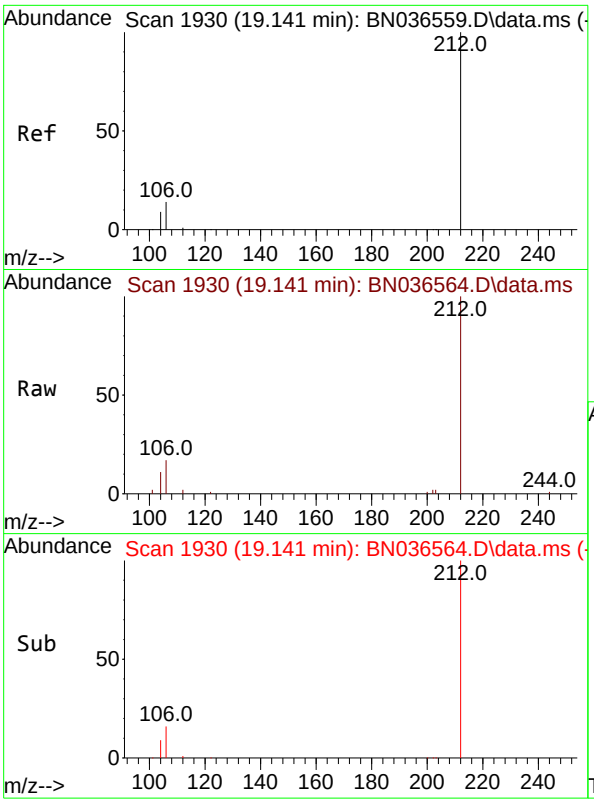




#26
Anthracene
Concen: 0.407 ng
RT: 17.248 min Scan# 1693
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Tgt Ion:178 Resp: 6358

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.2 | 15.4 | 23.2 |
| 179 | 14.8 | 12.6 | 18.8 |



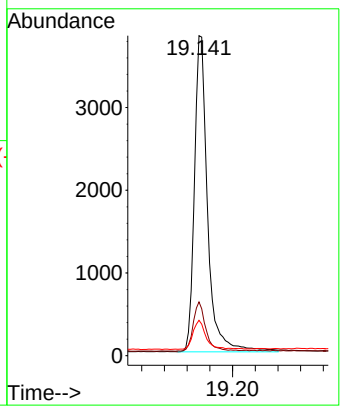


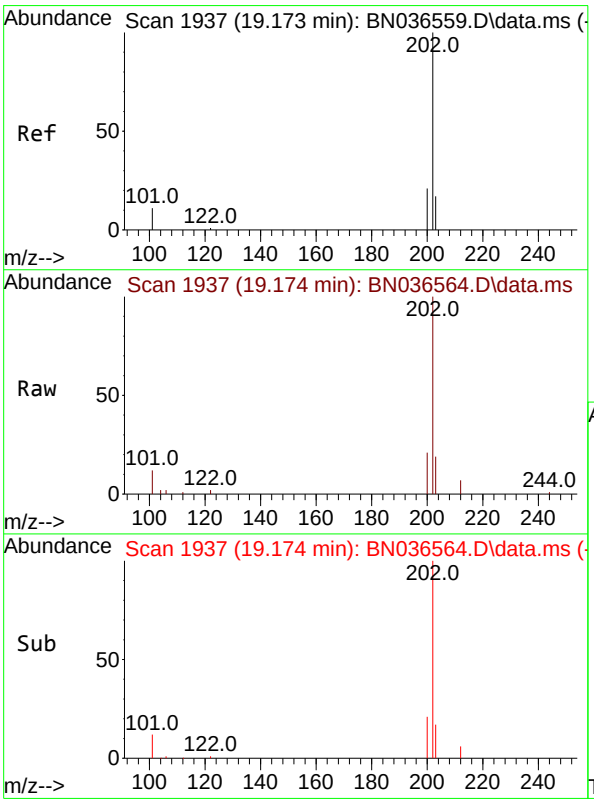

#27
Fluoranthene-d10
Concen: 0.415 ng
RT: 19.141 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

**Instrument :**
BNA_N
**ClientSampleId :**
ICVBN031025

Tgt Ion:212 Resp: 6152

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 14.8 | 11.8 | 17.6 |
| 104 | 8.8 | 7.3 | 10.9 |

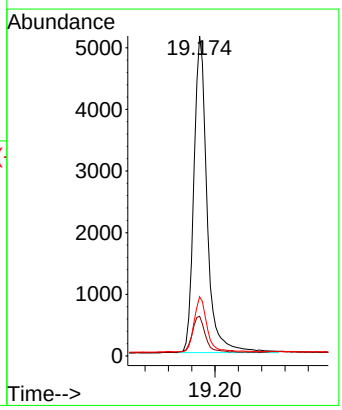


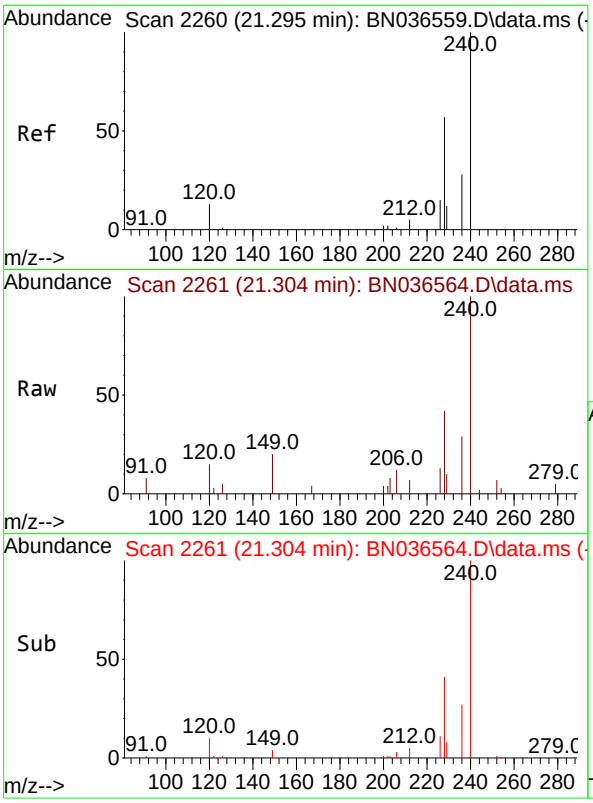




#28
Fluoranthene
Concen: 0.414 ng
RT: 19.174 min Scan# 1937
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Tgt Ion:202 Resp: 8068

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 11.6 | 9.4 | 14.0 |
| 203 | 16.8 | 13.5 | 20.3 |



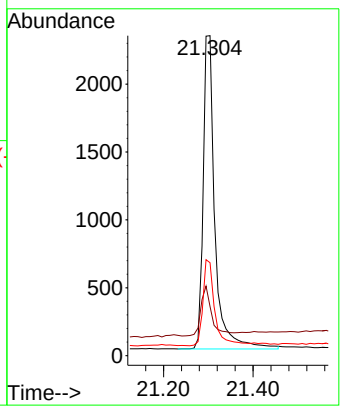


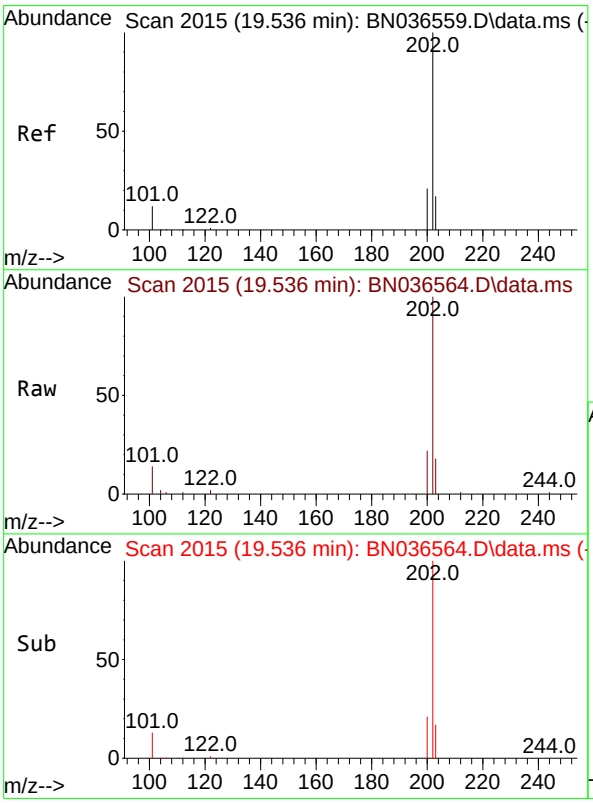

#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.304 min Scan# 2
Delta R.T. 0.009 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

**Instrument :**
BNA_N
**ClientSampleId :**
ICVBN031025

Tgt Ion:240 Resp: 4219

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 15.4 | 14.6 | 22.0 |
| 236 | 29.1 | 24.1 | 36.1 |

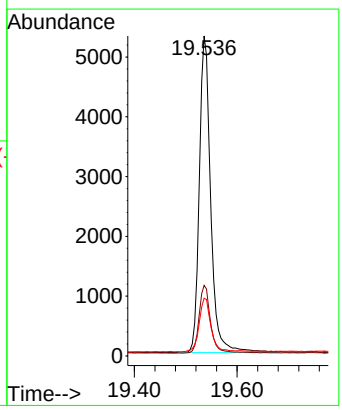


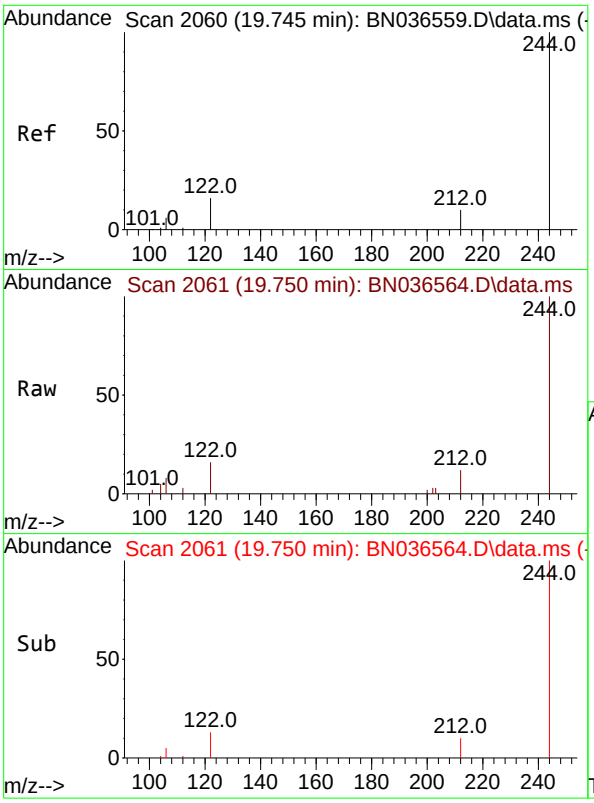




#30
Pyrene
Concen: 0.395 ng
RT: 19.536 min Scan# 2015
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Tgt Ion:202 Resp: 8156

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.4 | 17.1 | 25.7 |
| 203 | 17.4 | 14.1 | 21.1 |



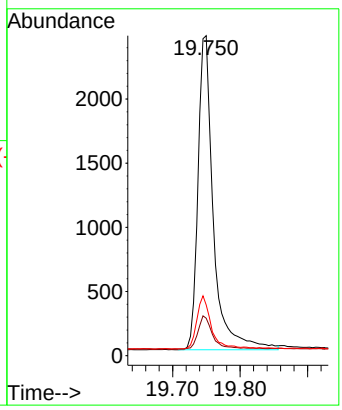


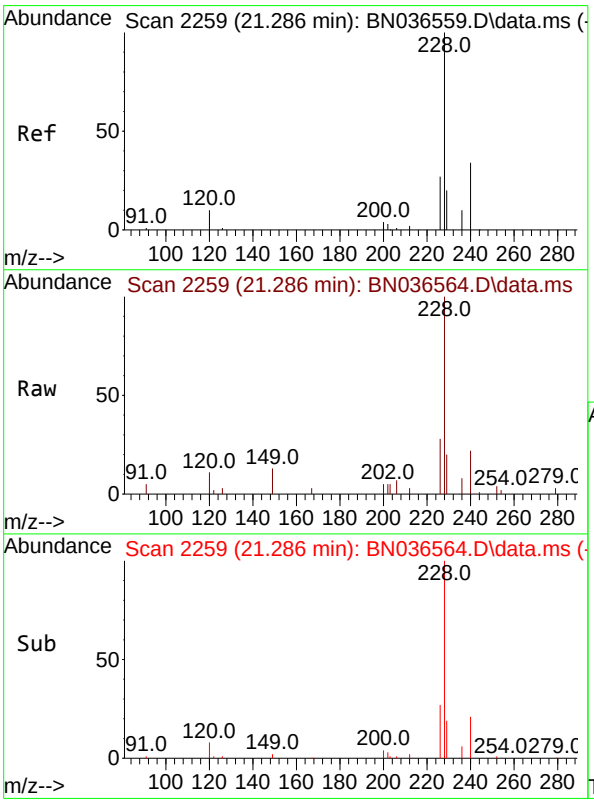

#31
Terphenyl-d14
Concen: 0.384 ng
RT: 19.750 min Scan# 2
Delta R.T. 0.005 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

**Instrument :**
BNA_N
**ClientSampleId :**
ICVBN031025

Tgt Ion:244 Resp: 3880

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 11.7 | 9.6 | 14.4 |
| 122 | 15.8 | 13.9 | 20.9 |

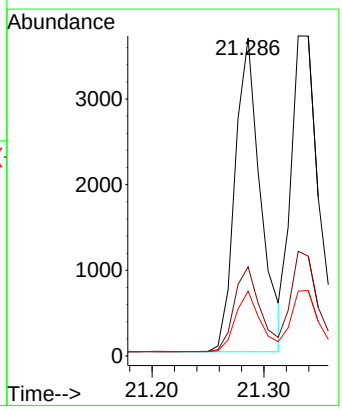


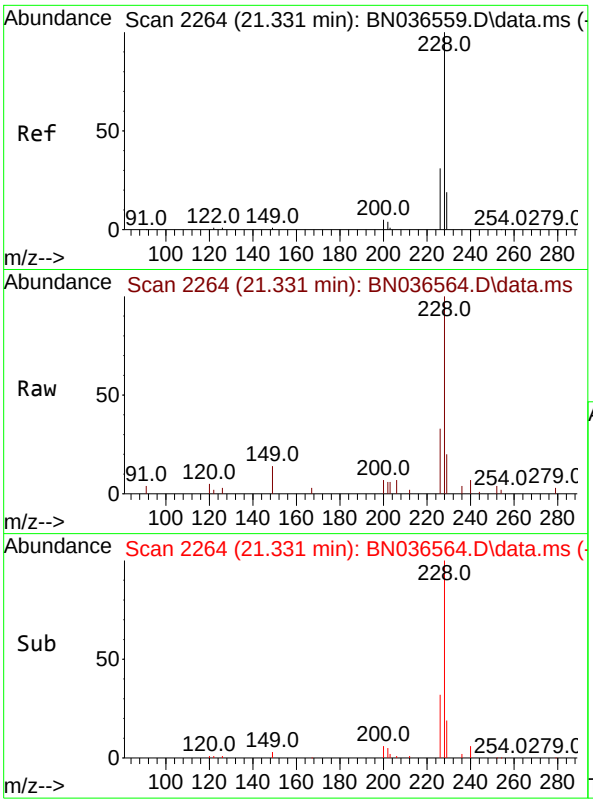




#32
Benzo(a)anthracene
Concen: 0.396 ng
RT: 21.286 min Scan# 2259
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Tgt Ion:228 Resp: 5814

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 28.1 | 22.5 | 33.7 |
| 229 | 20.4 | 16.6 | 25.0 |



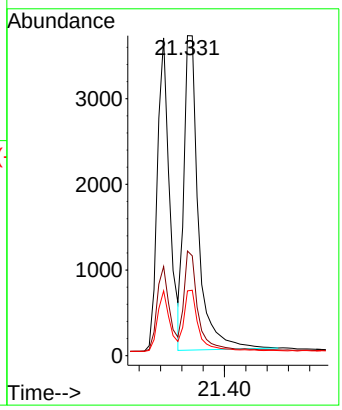


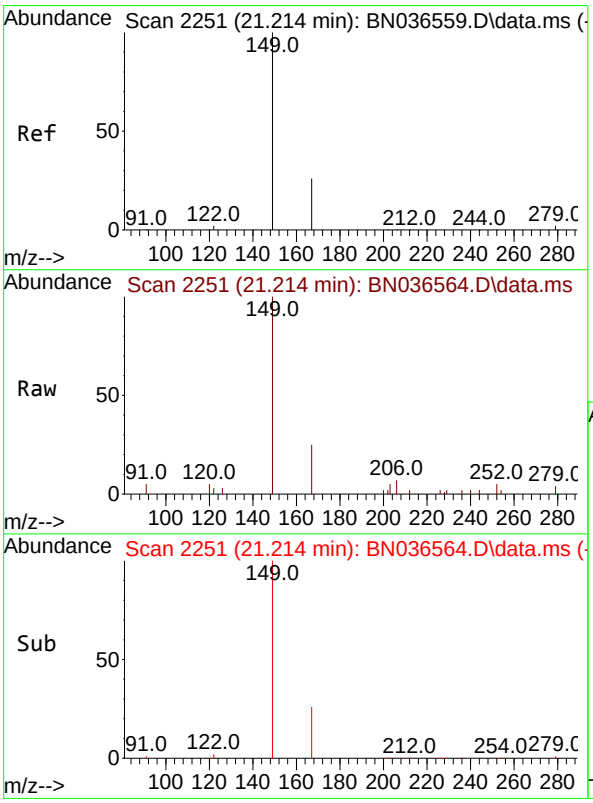

#33
Chrysene
Concen: 0.433 ng
RT: 21.331 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

**Instrument :**
BNA_N
**ClientSampleId :**
ICVBN031025

Tgt Ion:228 Resp: 6940

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 32.7 | 25.3 | 37.9 |
| 229 | 20.3 | 15.8 | 23.8 |

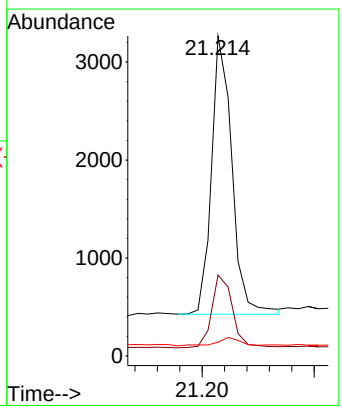


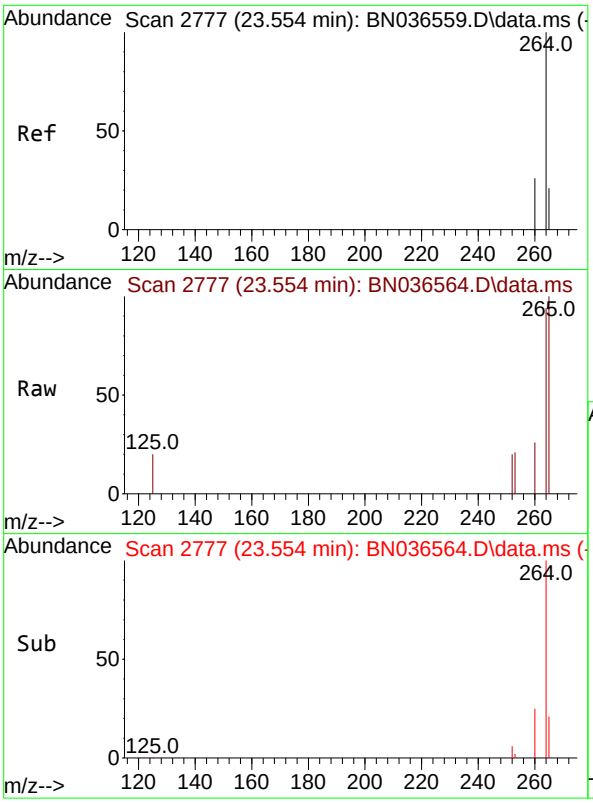




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.344 ng
RT: 21.214 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Tgt Ion:149 Resp: 3594

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 26.6 | 20.7 | 31.1 |
| 279 | 3.7 | 3.6 | 5.4 |



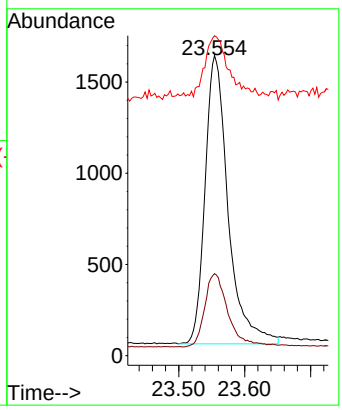


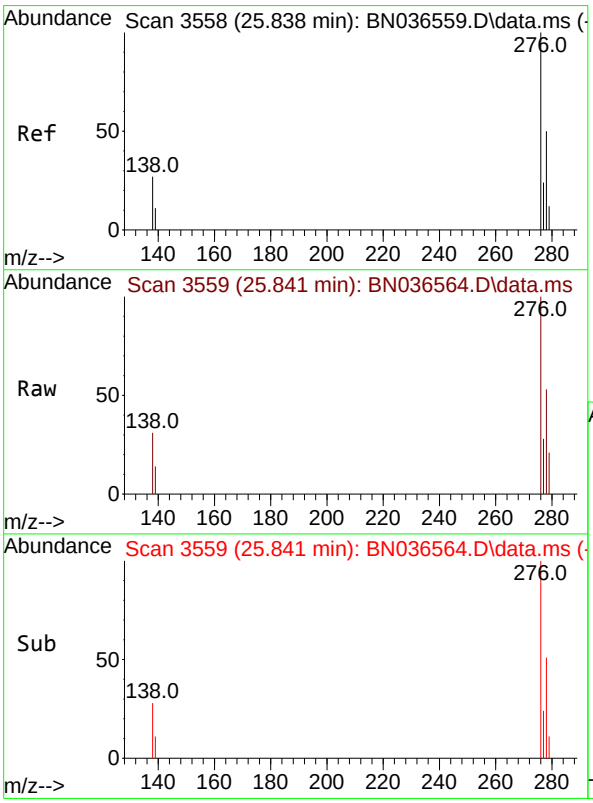

#35
Perylene-d12
Concen: 0.400 ng
RT: 23.554 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

**Instrument :**
BNA_N
**ClientSampleId :**
ICVBN031025

Tgt Ion:264 Resp: 3835

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 27.4 | 22.6 | 33.8 |
| 265 | 106.6 | 88.1 | 132.1 |

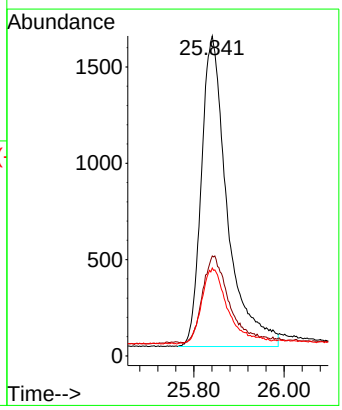


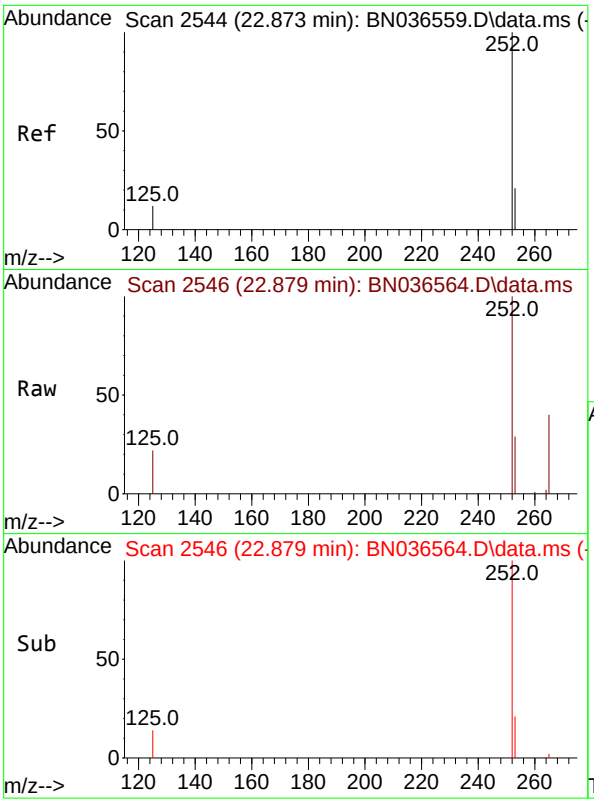




#36
Indeno(1,2,3-cd)pyrene
Concen: 0.463 ng
RT: 25.841 min Scan# 3559
Delta R.T. 0.003 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Tgt Ion:276 Resp: 6410

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 28.1 | 23.4 | 35.2 |
| 277 | 24.5 | 20.0 | 30.0 |



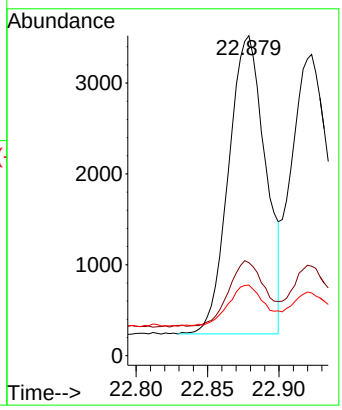


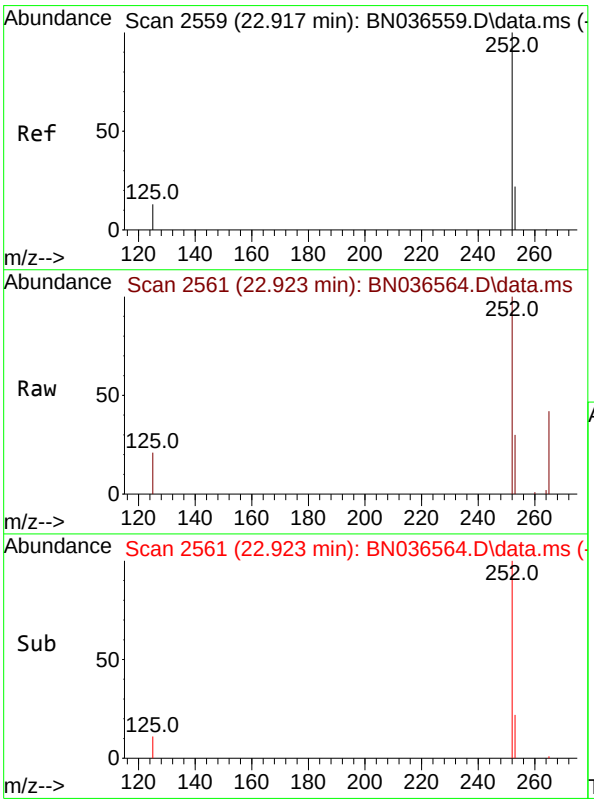

#37
Benzo(b)fluoranthene
Concen: 0.423 ng
RT: 22.879 min Scan# 2
Delta R.T. 0.006 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

**Instrument :**
BNA_N
**ClientSampleId :**
ICVBN031025

Tgt Ion:252 Resp: 5902

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 29.0 | 23.9 | 35.9 |
| 125 | 22.1 | 17.4 | 26.2 |

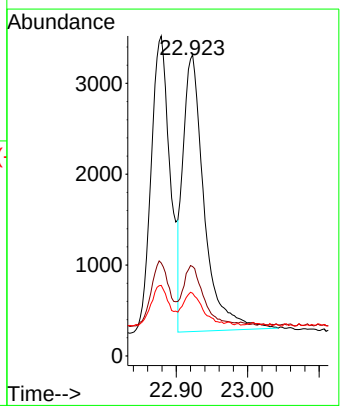


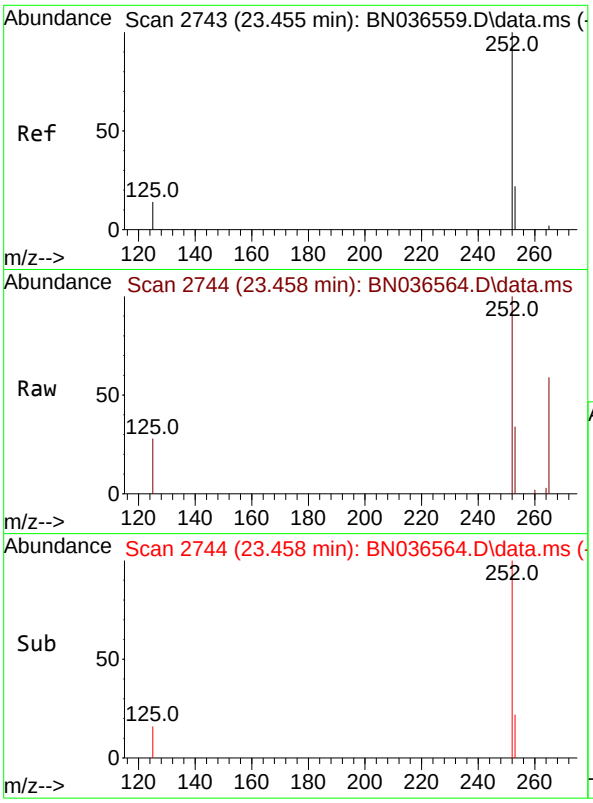




#38
Benzo(k)fluoranthene
Concen: 0.429 ng
RT: 22.923 min Scan# 2561
Delta R.T. 0.006 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Tgt Ion:252 Resp: 6286

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 29.7 | 24.6 | 36.8 |
| 125 | 20.8 | 17.8 | 26.8 |



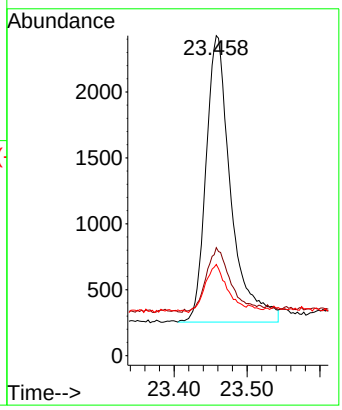


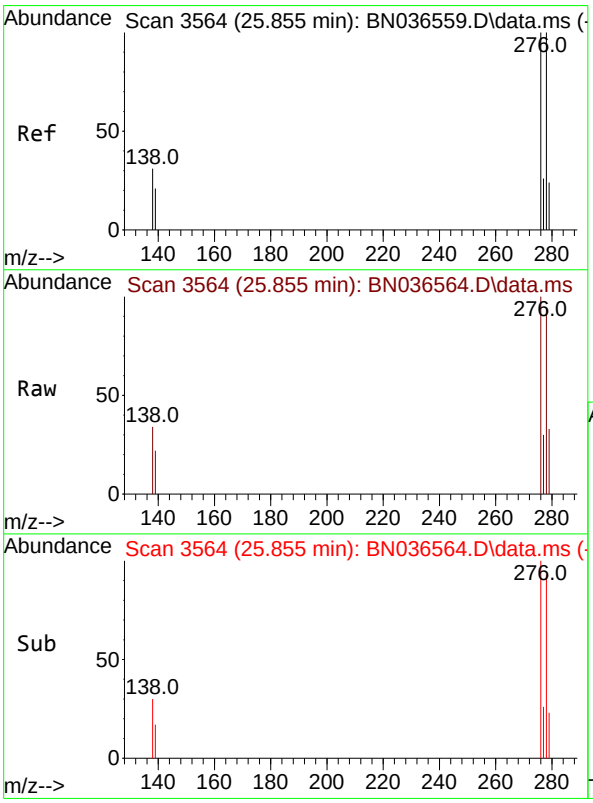

#39
Benzo(a)pyrene
Concen: 0.438 ng
RT: 23.458 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

**Instrument :**
BNA_N
**ClientSampleId :**
ICVBN031025

Tgt Ion:252 Resp: 5147

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 33.7 | 27.8 | 41.8 |
| 125 | 28.5 | 22.7 | 34.1 |

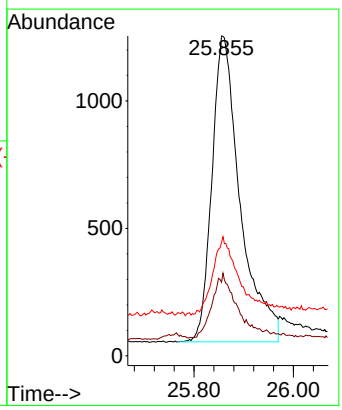


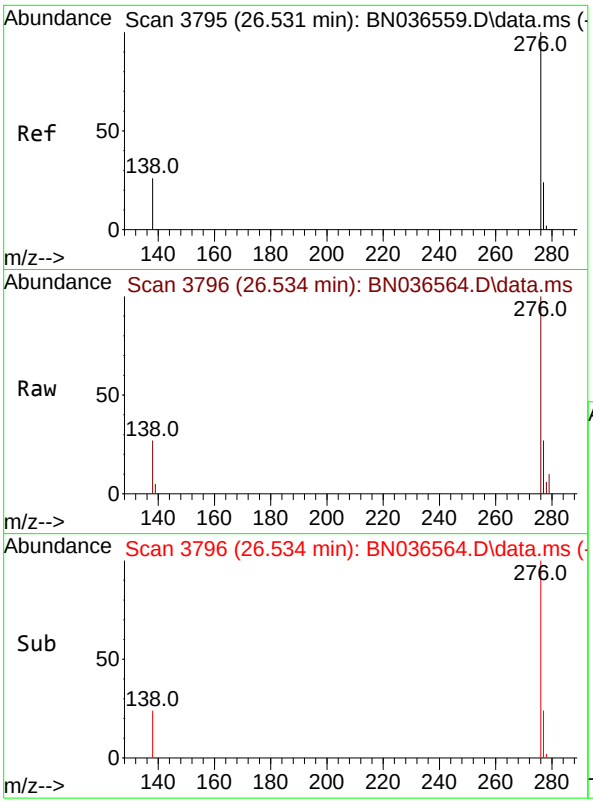




#40
Dibenzo(a,h)anthracene
Concen: 0.440 ng
RT: 25.855 min Scan# 3564
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Tgt Ion:278 Resp: 4740

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 23.0 | 20.8 | 31.2 |
| 279 | 35.5 | 28.8 | 43.2 |



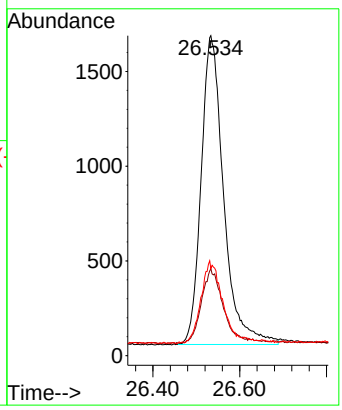



#41
Benzo(g,h,i)perylene
Concen: 0.477 ng
RT: 26.534 min Scan# 3
Delta R.T. 0.003 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

**Instrument :**
BNA_N
**ClientSampleId :**
ICVBN031025

Tgt Ion:276 Resp: 5877

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 27.2 | 22.2 | 33.4 |
| 138 | 27.2 | 24.1 | 36.1 |



# Evaluate Continuing Calibration Report

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036564.D
Acq On : 10 Mar 2025 16:38
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
ICVBN031025

Quant Time: Mar 10 17:10:04 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
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 | 113 | 0.00 |
| 2 | | 1,4-Dioxane | 0.444 | 0.521 | -17.3 | 118 | 0.00 |
| 3 | | n-Nitrosodimethylamine | 0.898 | 0.918 | -2.2 | 111 | 0.00 |
| 4 | S | 2-Fluorophenol | 0.932 | 0.972 | -4.3 | 111 | 0.00 |
| 5 | S | Phenol-d6 | 1.152 | 1.103 | 4.3 | 110 | 0.00 |
| 6 | | bis(2-Chloroethyl)ether | 1.190 | 1.184 | 0.5 | 113 | 0.00 |
| 7 | I | Naphthalene-d8 | 1.000 | 1.000 | 0.0 | 111 | 0.00 |
| 8 | S | Nitrobenzene-d5 | 0.435 | 0.418 | 3.9 | 112 | 0.00 |
| 9 | | Naphthalene | 1.177 | 1.191 | -1.2 | 109 | 0.00 |
| 10 | | Hexachlorobutadiene | 0.277 | 0.301 | -8.7 | 113 | 0.00 |
| 11 | SURR | 2-Methylnaphthalene-d10 | 0.595 | 0.594 | 0.2 | 108 | 0.00 |
| 12 | | 2-Methylnaphthalene | 0.749 | 0.721 | 3.7 | 104 | 0.00 |
| 13 | I | Acenaphthene-d10 | 1.000 | 1.000 | 0.0 | 102 | 0.00 |
| 14 | S | 2,4,6-Tribromophenol | 0.182 | 0.166 | 8.8 | 90 | 0.00 |
| 15 | S | 2-Fluorobiphenyl | 2.327 | 2.513 | -8.0 | 107 | 0.00 |
| 16 | | Acenaphthylene | 1.888 | 1.964 | -4.0 | 103 | 0.00 |
| 17 | | Acenaphthene | 1.236 | 1.308 | -5.8 | 104 | 0.00 |
| 18 | | Fluorene | 1.672 | 1.694 | -1.3 | 98 | 0.00 |
| 19 | I | Phenanthrene-d10 | 1.000 | 1.000 | 0.0 | 96 | 0.00 |
| 20 | | 4,6-Dinitro-2-methylphenol | 0.086 | 0.070 | 18.6 | 87 | 0.01 |
| 21 | | 4-Bromophenyl-phenylether | 0.251 | 0.264 | -5.2 | 93 | 0.00 |
| 22 | | Hexachlorobenzene | 0.303 | 0.344 | -13.5 | 98 | 0.00 |
| 23 | | Atrazine | 0.201 | 0.202 | -0.5 | 91 | 0.01 |
| 24 | | Pentachlorophenol | 0.138 | 0.121 | 12.3 | 85 | 0.00 |
| 25 | | Phenanthrene | 1.200 | 1.251 | -4.2 | 93 | 0.00 |
| 26 | | Anthracene | 1.083 | 1.100 | -1.6 | 92 | 0.00 |
| 27 | SURR | Fluoranthene-d10 | 1.025 | 1.065 | -3.9 | 92 | 0.00 |
| 28 | | Fluoranthene | 1.348 | 1.396 | -3.6 | 93 | 0.00 |
| 29 | I | Chrysene-d12 | 1.000 | 1.000 | 0.0 | 103 | 0.00 |
| 30 | | Pyrene | 1.956 | 1.933 | 1.2 | 93 | 0.00 |
| 31 | S | Terphenyl-d14 | 0.958 | 0.920 | 4.0 | 92 | 0.00 |
| 32 | | Benzo(a)anthracene | 1.391 | 1.378 | 0.9 | 98 | 0.00 |
| 33 | | Chrysene | 1.520 | 1.645 | -8.2 | 105 | 0.00 |
| 34 | | Bis(2-ethylhexyl)phthalate | 0.990 | 0.852 | 13.9 | 84 | 0.00 |
| 35 | I | Perylene-d12 | 1.000 | 1.000 | 0.0 | 108 | 0.00 |
| 36 | | Indeno(1,2,3-cd)pyrene | 1.444 | 1.671 | -15.7 | 117 | 0.00 |
| 37 | | Benzo(b)fluoranthene | 1.456 | 1.539 | -5.7 | 108 | 0.00 |
| 38 | | Benzo(k)fluoranthene | 1.527 | 1.639 | -7.3 | 110 | 0.00 |
| 39 | C | Benzo(a)pyrene | 1.226 | 1.342 | -9.5 | 112 | 0.00 |
| 40 | | Dibenzo(a,h)anthracene | 1.124 | 1.236 | -10.0 | 115 | 0.00 |
| 41 | | Benzo(g,h,i)perylene | 1.286 | 1.532 | -19.1 | 120 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036564.D
Acq On : 10 Mar 2025 16:38
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
ICVBN031025

Quant Time: Mar 10 17:10:04 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
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 | 113 | 0.00 |
| 2 | | 1,4-Dioxane | 0.400 | 0.470 | -17.5 | 118 | 0.00 |
| 3 | | n-Nitrosodimethylamine | 0.400 | 0.409 | -2.2 | 111 | 0.00 |
| 4 | S | 2-Fluorophenol | 0.400 | 0.417 | -4.2 | 111 | 0.00 |
| 5 | S | Phenol-d6 | 0.400 | 0.383 | 4.3 | 110 | 0.00 |
| 6 | | bis(2-Chloroethyl)ether | 0.400 | 0.398 | 0.5 | 113 | 0.00 |
| 7 | I | Naphthalene-d8 | 0.400 | 0.400 | 0.0 | 111 | 0.00 |
| 8 | S | Nitrobenzene-d5 | 0.400 | 0.384 | 4.0 | 112 | 0.00 |
| 9 | | Naphthalene | 0.400 | 0.405 | -1.3 | 109 | 0.00 |
| 10 | | Hexachlorobutadiene | 0.400 | 0.434 | -8.5 | 113 | 0.00 |
| 11 | SURR | 2-Methylnaphthalene-d10 | 0.400 | 0.399 | 0.3 | 108 | 0.00 |
| 12 | | 2-Methylnaphthalene | 0.400 | 0.385 | 3.8 | 104 | 0.00 |
| 13 | I | Acenaphthene-d10 | 0.400 | 0.400 | 0.0 | 102 | 0.00 |
| 14 | S | 2,4,6-Tribromophenol | 0.400 | 0.365 | 8.8 | 90 | 0.00 |
| 15 | S | 2-Fluorobiphenyl | 0.400 | 0.432 | -8.0 | 107 | 0.00 |
| 16 | | Acenaphthylene | 0.400 | 0.416 | -4.0 | 103 | 0.00 |
| 17 | | Acenaphthene | 0.400 | 0.423 | -5.7 | 104 | 0.00 |
| 18 | | Fluorene | 0.400 | 0.405 | -1.3 | 98 | 0.00 |
| 19 | I | Phenanthrene-d10 | 0.400 | 0.400 | 0.0 | 96 | 0.00 |
| 20 | | 4,6-Dinitro-2-methylphenol | 0.400 | 0.420 | -5.0 | 87 | 0.01 |
| 21 | | 4-Bromophenyl-phenylether | 0.400 | 0.421 | -5.2 | 93 | 0.00 |
| 22 | | Hexachlorobenzene | 0.400 | 0.455 | -13.7 | 98 | 0.00 |
| 23 | | Atrazine | 0.400 | 0.401 | -0.3 | 91 | 0.01 |
| 24 | | Pentachlorophenol | 0.400 | 0.351 | 12.3 | 85 | 0.00 |
| 25 | | Phenanthrene | 0.400 | 0.417 | -4.2 | 93 | 0.00 |
| 26 | | Anthracene | 0.400 | 0.407 | -1.7 | 92 | 0.00 |
| 27 | SURR | Fluoranthene-d10 | 0.400 | 0.415 | -3.7 | 92 | 0.00 |
| 28 | | Fluoranthene | 0.400 | 0.414 | -3.5 | 93 | 0.00 |
| 29 | I | Chrysene-d12 | 0.400 | 0.400 | 0.0 | 103 | 0.00 |
| 30 | | Pyrene | 0.400 | 0.395 | 1.3 | 93 | 0.00 |
| 31 | S | Terphenyl-d14 | 0.400 | 0.384 | 4.0 | 92 | 0.00 |
| 32 | | Benzo(a)anthracene | 0.400 | 0.396 | 1.0 | 98 | 0.00 |
| 33 | | Chrysene | 0.400 | 0.433 | -8.2 | 105 | 0.00 |
| 34 | | Bis(2-ethylhexyl)phthalate | 0.400 | 0.344 | 14.0 | 84 | 0.00 |
| 35 | I | Perylene-d12 | 0.400 | 0.400 | 0.0 | 108 | 0.00 |
| 36 | | Indeno(1,2,3-cd)pyrene | 0.400 | 0.463 | -15.8 | 117 | 0.00 |
| 37 | | Benzo(b)fluoranthene | 0.400 | 0.423 | -5.7 | 108 | 0.00 |
| 38 | | Benzo(k)fluoranthene | 0.400 | 0.429 | -7.2 | 110 | 0.00 |
| 39 | C | Benzo(a)pyrene | 0.400 | 0.438 | -9.5 | 112 | 0.00 |
| 40 | | Dibenzo(a,h)anthracene | 0.400 | 0.440 | -10.0 | 115 | 0.00 |
| 41 | | Benzo(g,h,i)perylene | 0.400 | 0.477 | -19.2 | 120 | 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.: Q1629 SAS No.: Q1629 SDG No.: Q1629

Instrument ID: BNA_N Calibration Date/Time: 03/28/2025 03:46

Lab File ID: BN036757.D Init. Calib. Date(s): 03/10/2025 03/10/2025

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 11:42 15:19

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

| COMPOUND | RRF | RRF0.4 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| 2-Methylnaphthalene-d10 | 0.595 | 0.509 | | -14.5 | 20.0 |
| Fluoranthene-d10 | 1.025 | 1.053 | | 2.7 | 20.0 |
| 2-Fluorophenol | 0.932 | 0.782 | | -16.1 | 20.0 |
| Phenol-d6 | 1.152 | 0.986 | | -14.4 | 20.0 |
| Nitrobenzene-d5 | 0.435 | 0.370 | | -14.9 | 20.0 |
| 2-Fluorobiphenyl | 2.327 | 2.013 | | -13.5 | 20.0 |
| 2,4,6-Tribromophenol | 0.182 | 0.184 | | 1.1 | 20.0 |
| Terphenyl-d14 | 0.958 | 0.749 | | -21.8 | 20.0 |
| 1,4-Dioxane | 0.444 | 0.442 | | -0.4 | 20.0 |

All other compounds must meet a minimum RRF of 0.010.

Form VII SV-1

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036757.D
Acq On : 28 Mar 2025 03:46
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Mar 28 05:36:56 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations APPROVED**
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.703 | 152 | 1974 | 0.400 | ng | | -0.02 |
| 7) Naphthalene-d8 | 10.488 | 136 | 4607 | 0.400 | ng | | -0.02 |
| 13) Acenaphthene-d10 | 14.334 | 164 | 2750 | 0.400 | ng | | -0.03 |
| 19) Phenanthrene-d10 | 17.087 | 188 | 5937 | 0.400 | ng | | -0.02 |
| 29) Chrysene-d12 | 21.277 | 240 | 5680 | 0.400 | ng | | #-0.02 |
| 35) Perylene-d12 | 23.519 | 264 | 5140 | 0.400 | ng | | #-0.03 |
| **System Monitoring Compounds** | | | | | | | |
| 4) 2-Fluorophenol | 5.291 | 112 | 1543 | 0.335 | ng | | -0.02 |
| 5) Phenol-d6 | 6.872 | 99 | 1947 | 0.343 | ng | | -0.03 |
| 8) Nitrobenzene-d5 | 8.854 | 82 | 1705 | 0.340 | ng | | -0.02 |
| 11) 2-Methylnaphthalene-d10 | 12.080 | 152 | 2347 | 0.342 | ng | | -0.03 |
| 14) 2,4,6-Tribromophenol | 15.833 | 330 | 507 | 0.406 | ng | | -0.02 |
| 15) 2-Fluorobiphenyl | 12.963 | 172 | 5537 | 0.346 | ng | | -0.03 |
| 27) Fluoranthene-d10 | 19.118 | 212 | 6252 | 0.411 | ng | | -0.02 |
| 31) Terphenyl-d14 | 19.722 | 244 | 4254 | 0.313 | ng | | -0.02 |
| **Target Compounds** | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.225 | 88 | 873 | 0.399 | ng | | 97 |
| 3) n-Nitrosodimethylamine | 3.536 | 42 | 1735 | 0.392 | ng | | 95 |
| 6) bis(2-Chloroethyl)ether | 7.125 | 93 | 2072 | 0.353 | ng | | 98 |
| 9) Naphthalene | 10.530 | 128 | 4865 | 0.359 | ng | | 99 |
| 10) Hexachlorobutadiene | 10.829 | 225 | 1140 | 0.357 | ng | # | 99 |
| 12) 2-Methylnaphthalene | 12.157 | 142 | 3049 | 0.354 | ng | | 98 |
| 16) Acenaphthylene | 14.056 | 152 | 4680 | 0.361 | ng | | 99 |
| 17) Acenaphthene | 14.398 | 154 | 3124 | 0.368 | ng | | 100 |
| 18) Fluorene | 15.393 | 166 | 4263 | 0.371 | ng | | 99 |
| 20) 4,6-Dinitro-2-methylph... | 15.478 | 198 | 472 | 0.457 | ng | | 83 |
| 21) 4-Bromophenyl-phenylether | 16.280 | 248 | 1382 | 0.372 | ng | | 91 |
| 22) Hexachlorobenzene | 16.391 | 284 | 1636 | 0.364 | ng | | 97 |
| 23) Atrazine | 16.553 | 200 | 1154 | 0.387 | ng | | 97 |
| 24) Pentachlorophenol | 16.739 | 266 | 868 | 0.424 | ng | | 97 |
| 25) Phenanthrene | 17.124 | 178 | 6866 | 0.386 | ng | | 100 |
| 26) Anthracene | 17.223 | 178 | 6014 | 0.374 | ng | | 99 |
| 28) Fluoranthene | 19.150 | 202 | 8476 | 0.424 | ng | | 99 |
| 30) Pyrene | 19.513 | 202 | 9024 | 0.325 | ng | | 100 |
| 32) Benzo(a)anthracene | 21.259 | 228 | 7146 | 0.362 | ng | | 99 |
| 33) Chrysene | 21.313 | 228 | 8272 | 0.383 | ng | | 99 |
| 34) Bis(2-ethylhexyl)phtha... | 21.196 | 149 | 5431 | 0.386 | ng | # | 99 |
| 36) Indeno(1,2,3-cd)pyrene | 25.782 | 276 | 7314 | 0.394 | ng | | 95 |
| 37) Benzo(b)fluoranthene | 22.841 | 252 | 7293 | 0.390 | ng | | 95 |
| 38) Benzo(k)fluoranthene | 22.888 | 252 | 7751m | 0.395 | ng | | |
| 39) Benzo(a)pyrene | 23.420 | 252 | 6291 | 0.399 | ng | | 95 |
| 40) Dibenzo(a,h)anthracene | 25.803 | 278 | 5522 | 0.382 | ng | | 91 |
| 41) Benzo(g,h,i)perylene | 26.475 | 276 | 6376 | 0.386 | ng | | 94 |

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

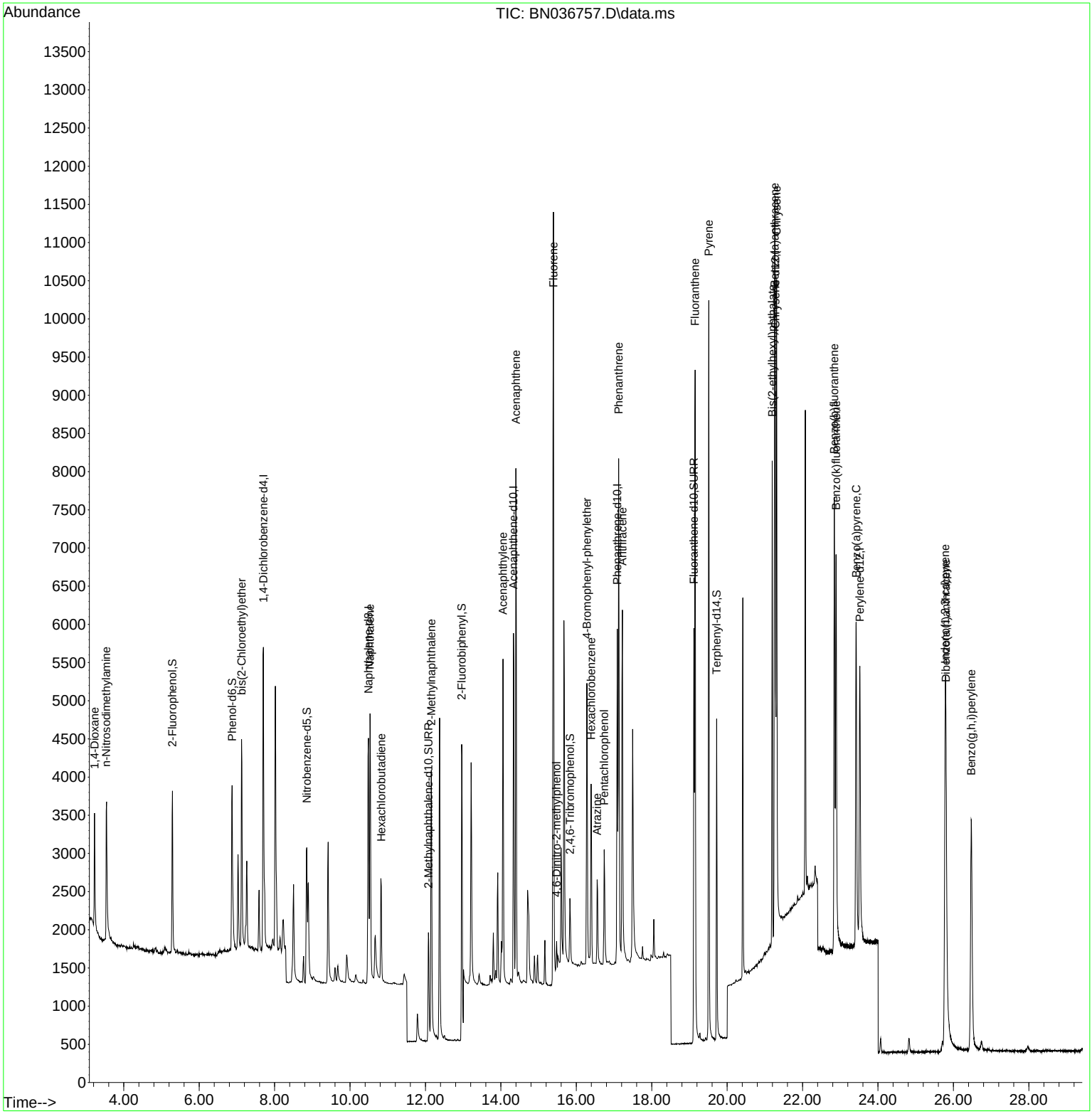
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036757.D
Acq On : 28 Mar 2025 03:46
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 22 Sample Multiplier: 1

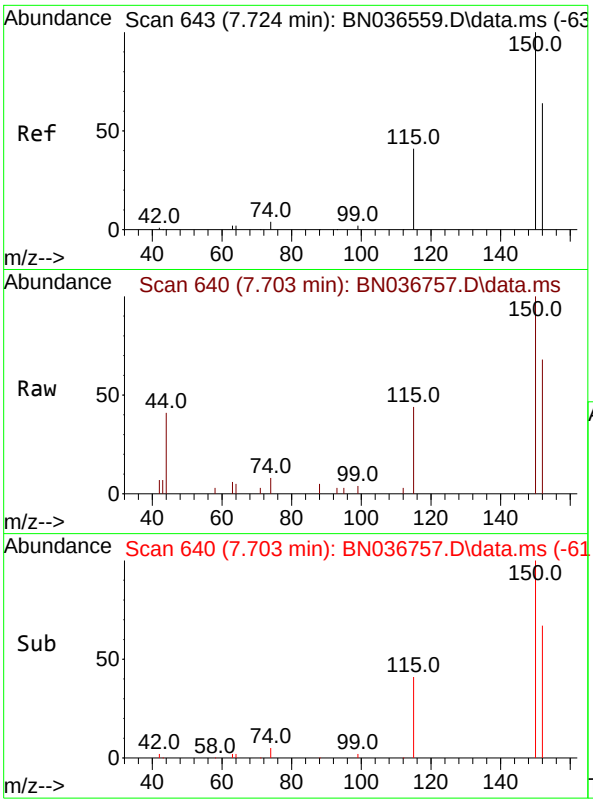
Quant Time: Mar 28 05:36:56 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations APPROVED**

Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

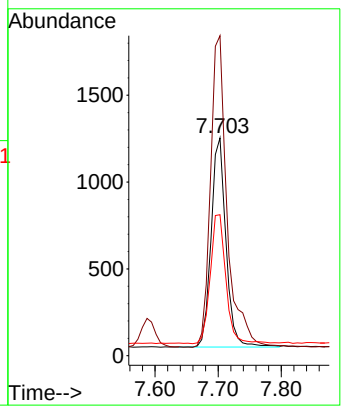





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.703 min Scan# 64
Delta R.T. -0.021 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:152 Resp: 197

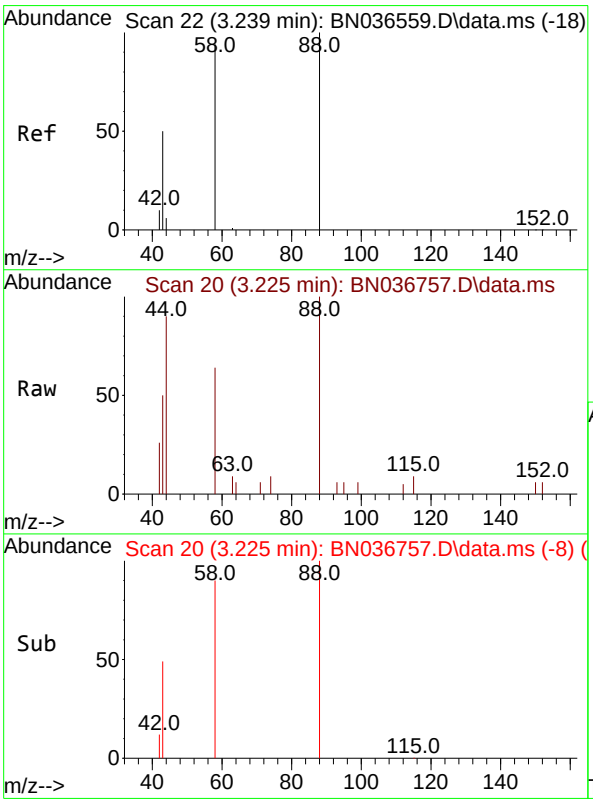
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 147.0 | 123.7 | 185.5 |
| 115 | 64.8 | 54.3 | 81.5 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations**
**APPROVED**

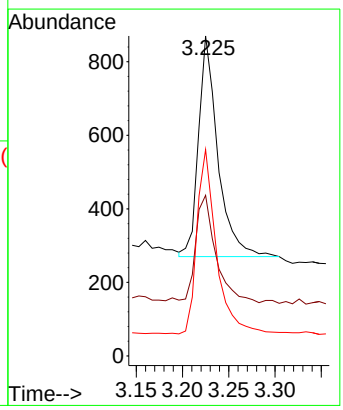
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

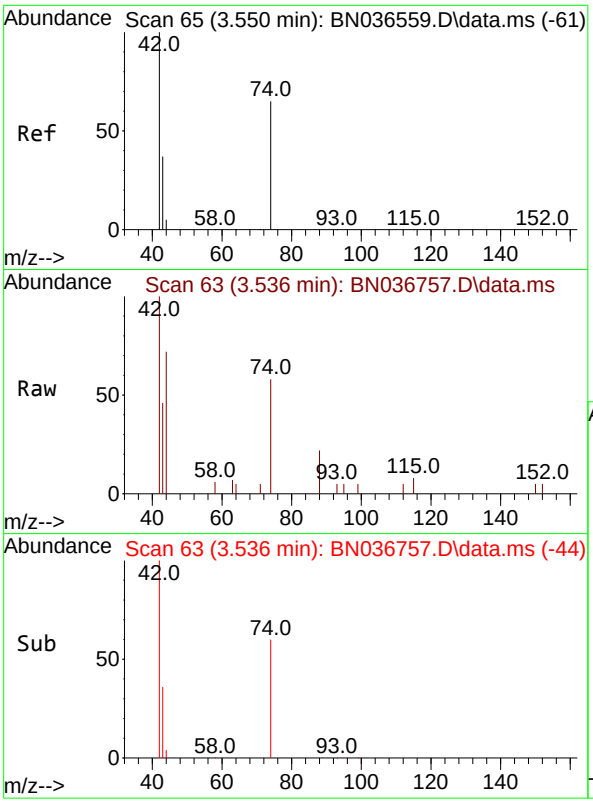



#2
1,4-Dioxane
Concen: 0.399 ng
RT: 3.225 min Scan# 20
Delta R.T. -0.014 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion: 88 Resp: 873

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 51.8 | 37.8 | 56.8 |
| 58 | 83.6 | 67.4 | 101.2 |

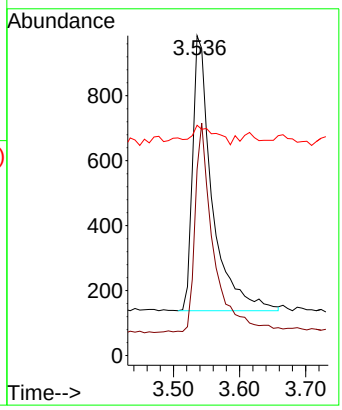





#3
n-Nitrosodimethylamine
Concen: 0.392 ng
RT: 3.536 min Scan# 6
Delta R.T. -0.014 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion: 42 Resp: 173

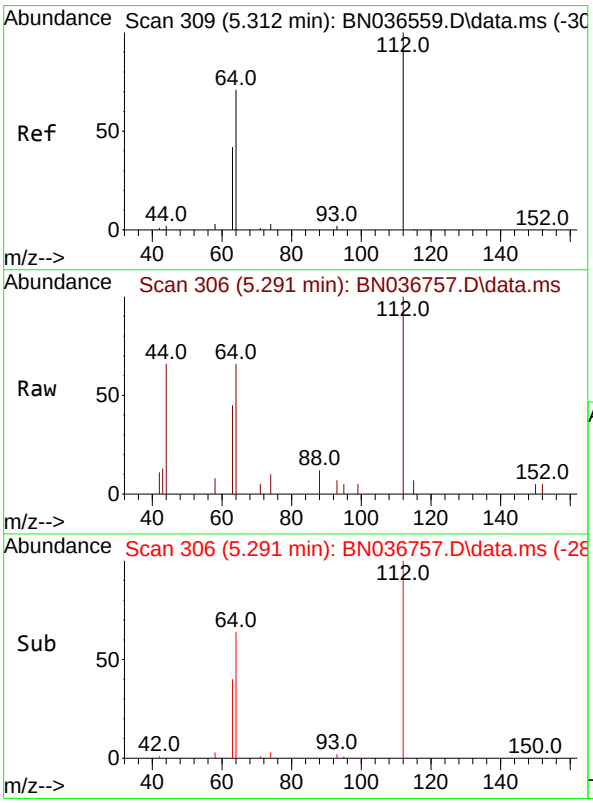
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 70.8 | 60.6 | 90.8 |
| 44 | 8.1 | 6.3 | 9.5 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations**
**APPROVED**

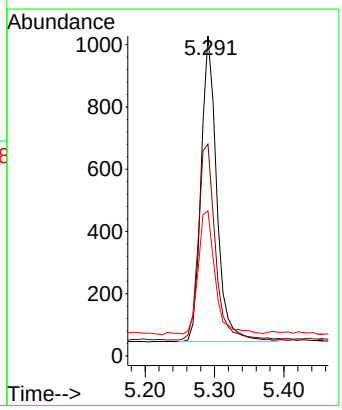
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

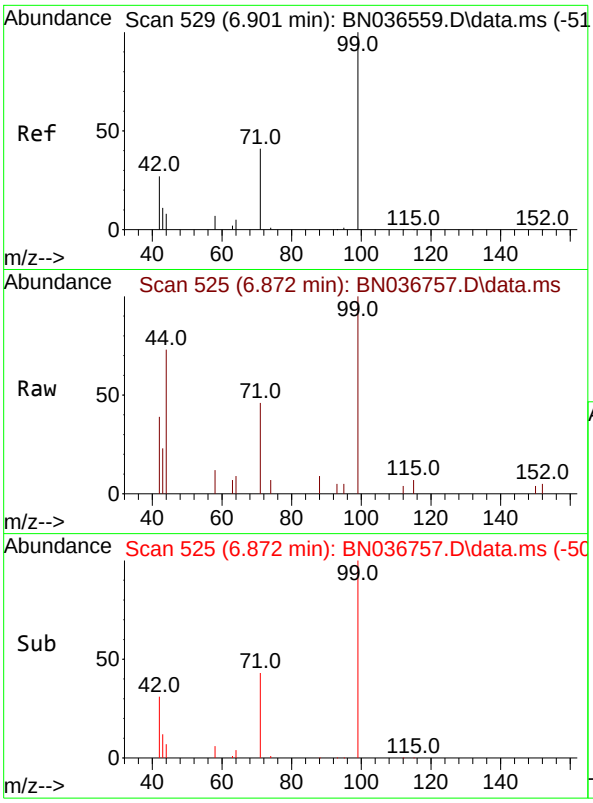



#4
2-Fluorophenol
Concen: 0.335 ng
RT: 5.291 min Scan# 306
Delta R.T. -0.022 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:112 Resp: 1543

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 69.8 | 53.1 | 79.7 |
| 63 | 43.0 | 31.8 | 47.8 |

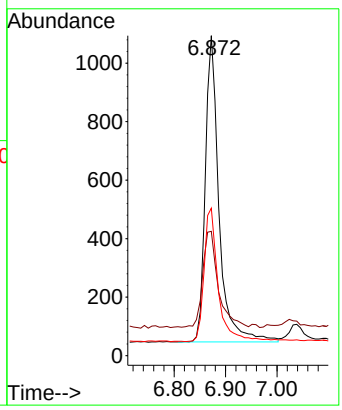





#5
Phenol-d6
Concen: 0.343 ng
RT: 6.872 min Scan# 5
Delta R.T. -0.029 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion: 99 Resp: 194

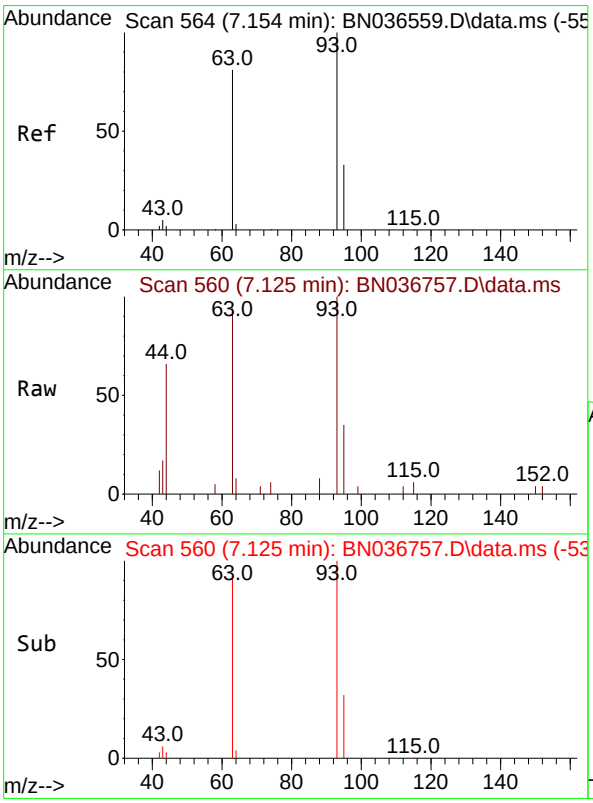
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 35.4 | 26.5 | 39.7 |
| 71 | 46.1 | 34.1 | 51.1 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations**
**APPROVED**

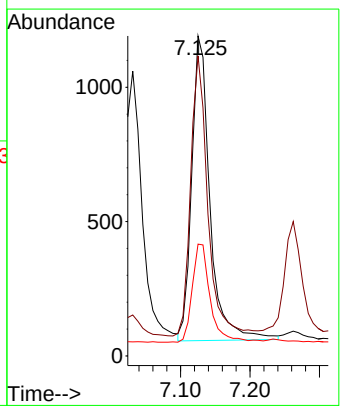
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

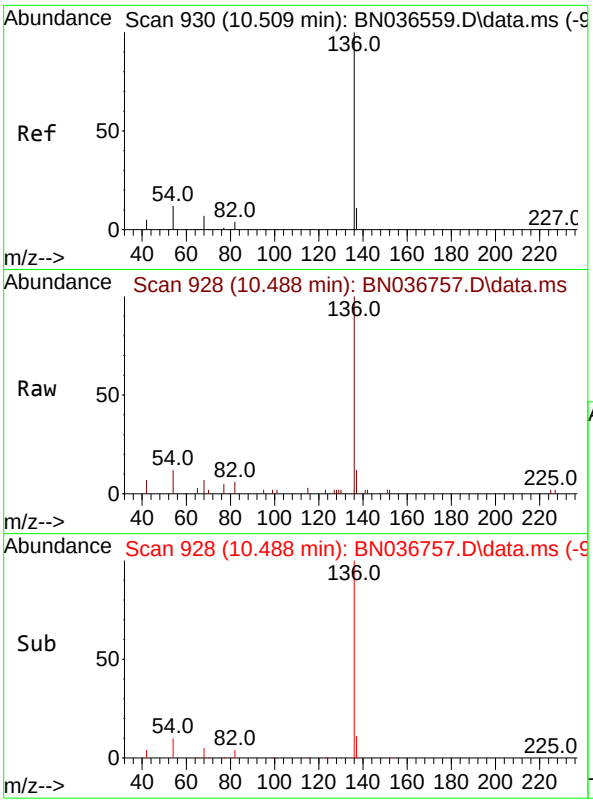



#6
bis(2-Chloroethyl)ether
Concen: 0.353 ng
RT: 7.125 min Scan# 560
Delta R.T. -0.029 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion: 93 Resp: 2072

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 86.9 | 67.7 | 101.5 |
| 95 | 31.7 | 25.6 | 38.4 |

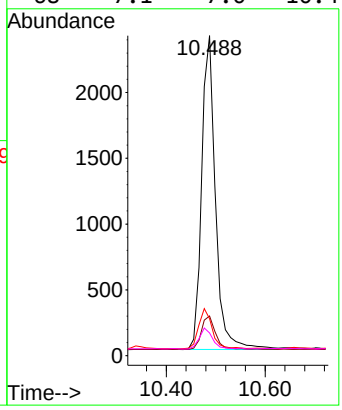





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.488 min Scan# 9
Delta R.T. -0.021 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:136 Resp: 460

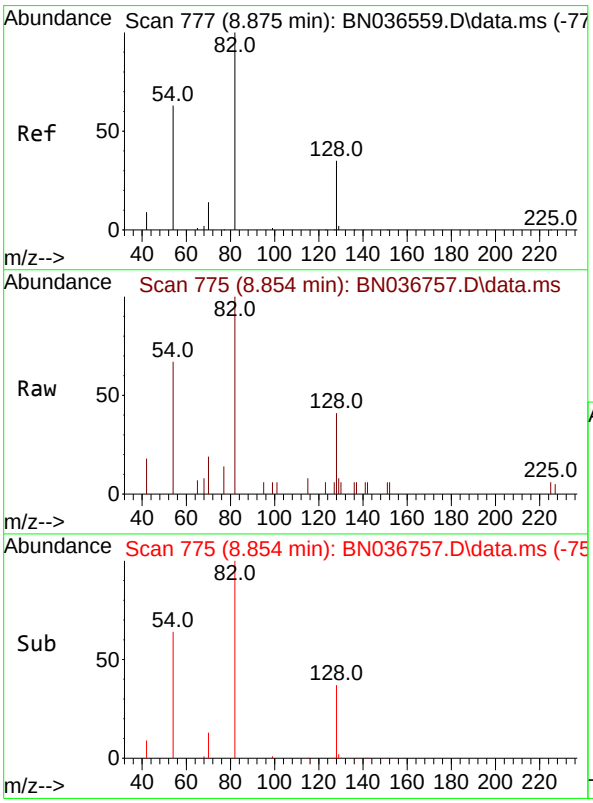
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 12.4 | 10.3 | 15.5 |
| 54 | 11.6 | 11.5 | 17.3 |
| 68 | 7.1 | 7.0 | 10.4 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations**
**APPROVED**

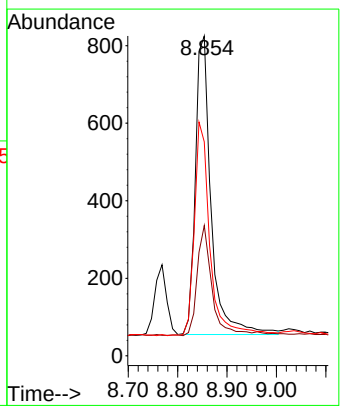
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

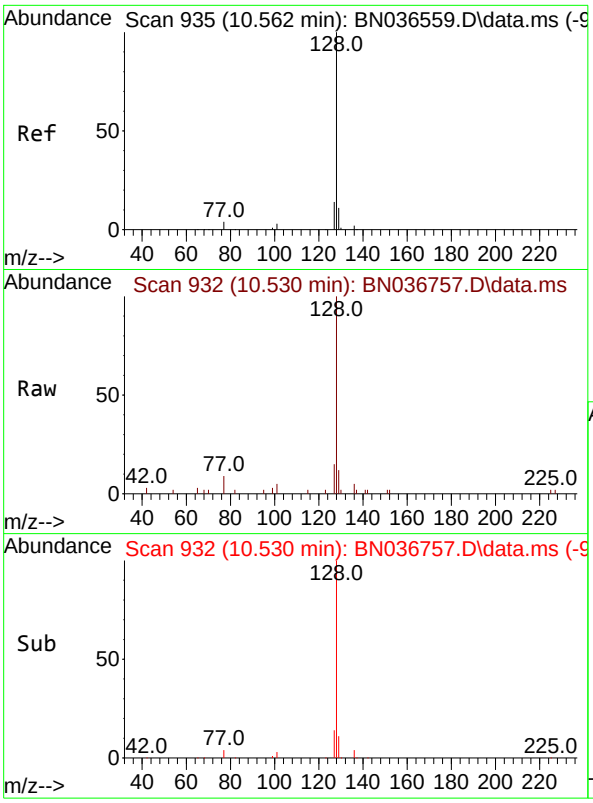



#8
Nitrobenzene-d5
Concen: 0.340 ng
RT: 8.854 min Scan# 775
Delta R.T. -0.021 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion: 82 Resp: 1705

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 40.7 | 30.6 | 45.8 |
| 54 | 66.9 | 52.2 | 78.4 |

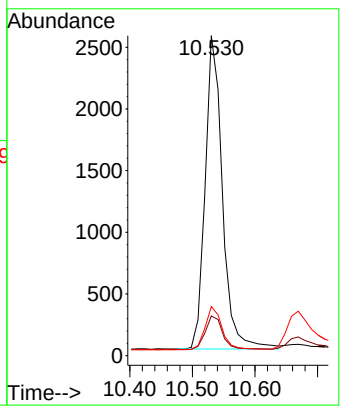





#9
Naphthalene
Concen: 0.359 ng
RT: 10.530 min Scan# 9
Delta R.T. -0.032 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:128 Resp: 486

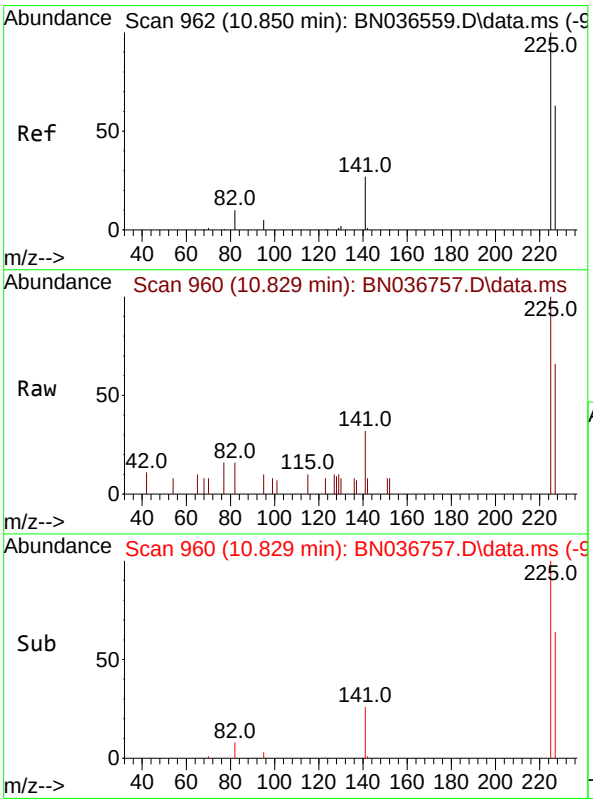
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 12.4 | 9.8 | 14.6 |
| 127 | 15.3 | 11.8 | 17.8 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations**
**APPROVED**

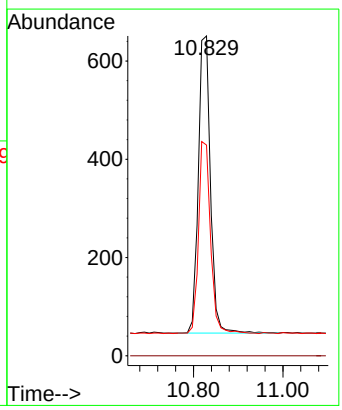
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

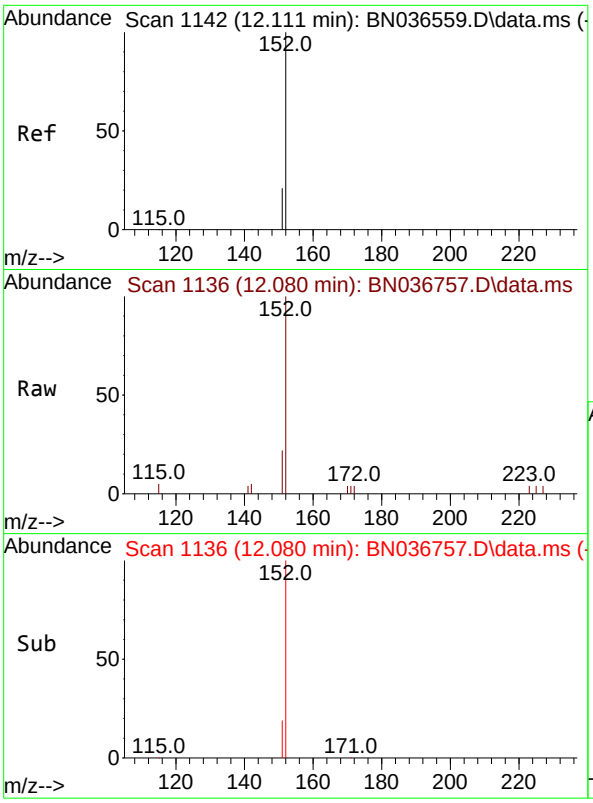



#10
Hexachlorobutadiene
Concen: 0.357 ng
RT: 10.829 min Scan# 960
Delta R.T. -0.021 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:225 Resp: 1140

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 0.0 | 0.0 | 0.0 |
| 227 | 64.3 | 51.8 | 77.8 |






#11
2-Methylnaphthalene-d10
Concen: 0.342 ng
RT: 12.080 min Scan# 1
Delta R.T. -0.030 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

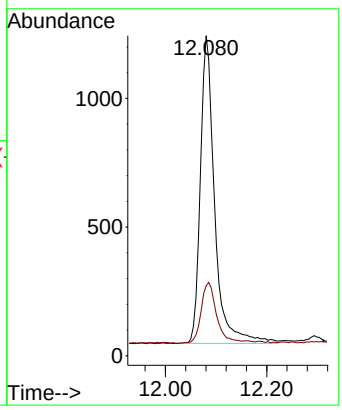
Tgt Ion:152 Resp: 234

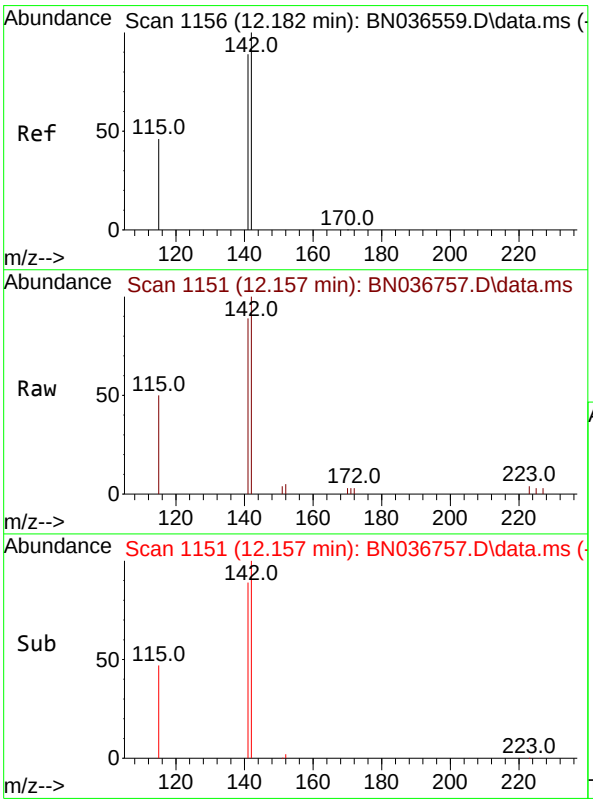
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 21.6 | 17.0 | 25.6 |

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations**
**APPROVED**

Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

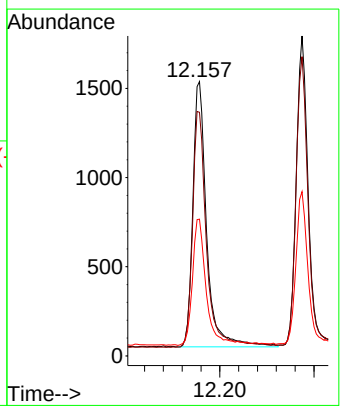


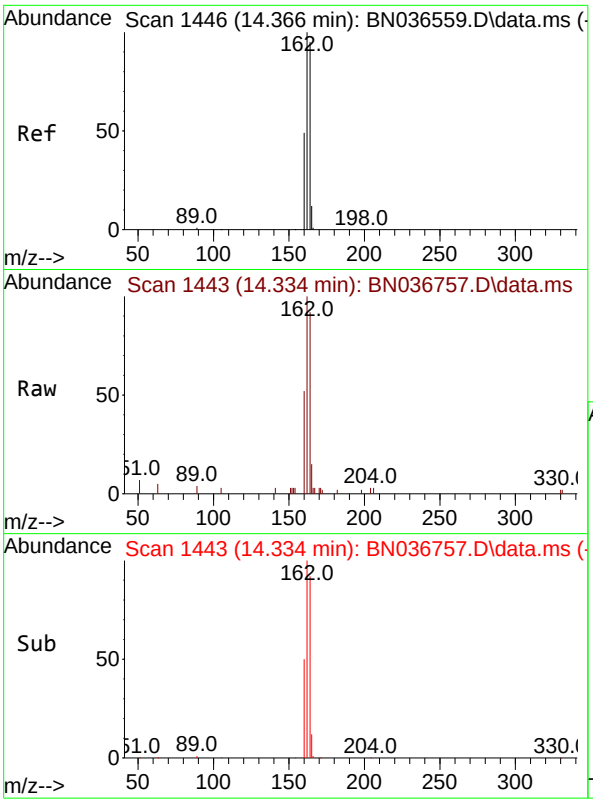




#12
2-Methylnaphthalene
Concen: 0.354 ng
RT: 12.157 min Scan# 1151
Delta R.T. -0.025 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:142 Resp: 3049

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 88.8 | 71.7 | 107.5 |
| 115 | 49.9 | 38.3 | 57.5 |

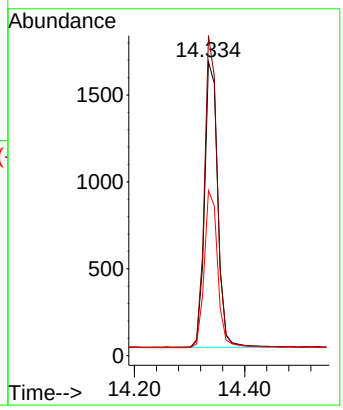





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.334 min Scan# 14
Delta R.T. -0.032 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:164 Resp: 275

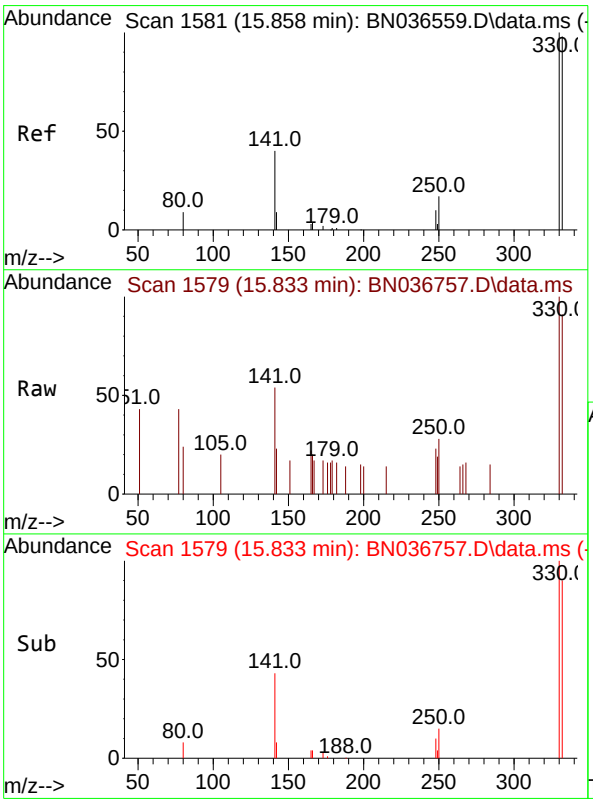
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 108.9 | 84.2 | 126.2 |
| 160 | 56.2 | 42.2 | 63.2 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations**
**APPROVED**

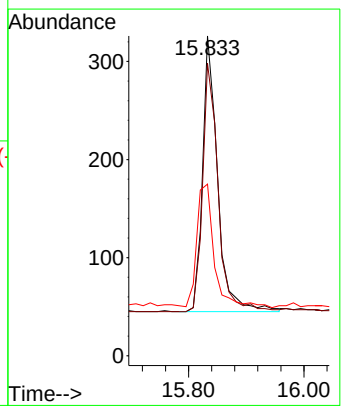
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

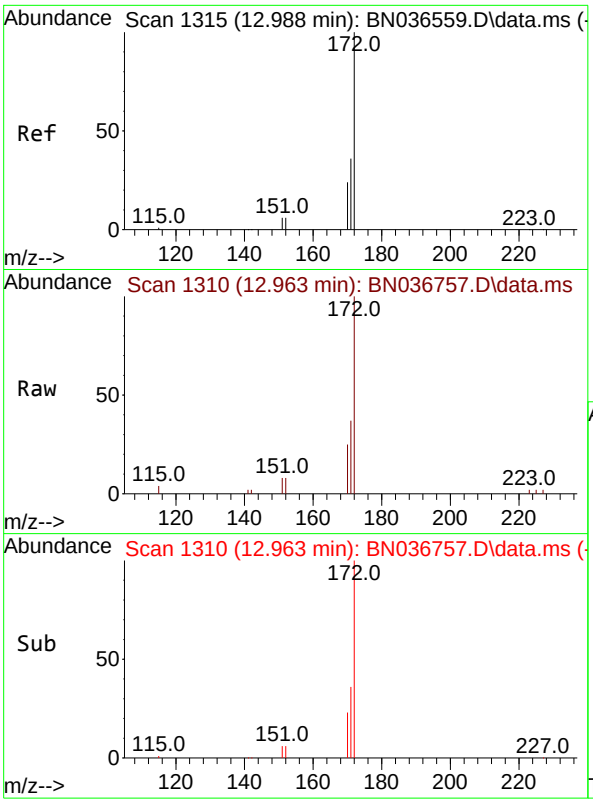



#14
2,4,6-Tribromophenol
Concen: 0.406 ng
RT: 15.833 min Scan# 1579
Delta R.T. -0.025 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:330 Resp: 507

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 92.9 | 75.2 | 112.8 |
| 141 | 52.3 | 43.4 | 65.2 |

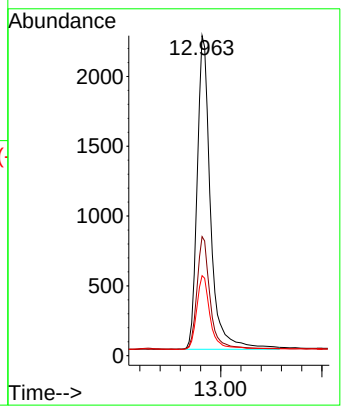





#15
2-Fluorobiphenyl
Concen: 0.346 ng
RT: 12.963 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:172 Resp: 553

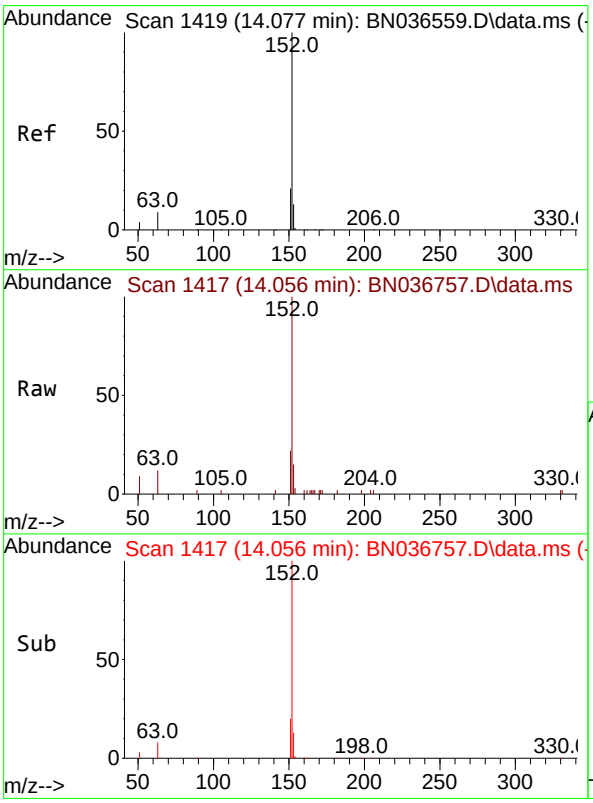
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 37.2 | 29.5 | 44.3 |
| 170 | 25.0 | 20.2 | 30.4 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations**
**APPROVED**

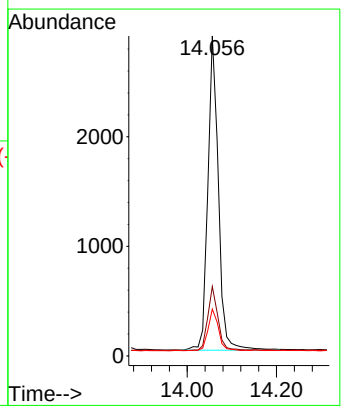
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

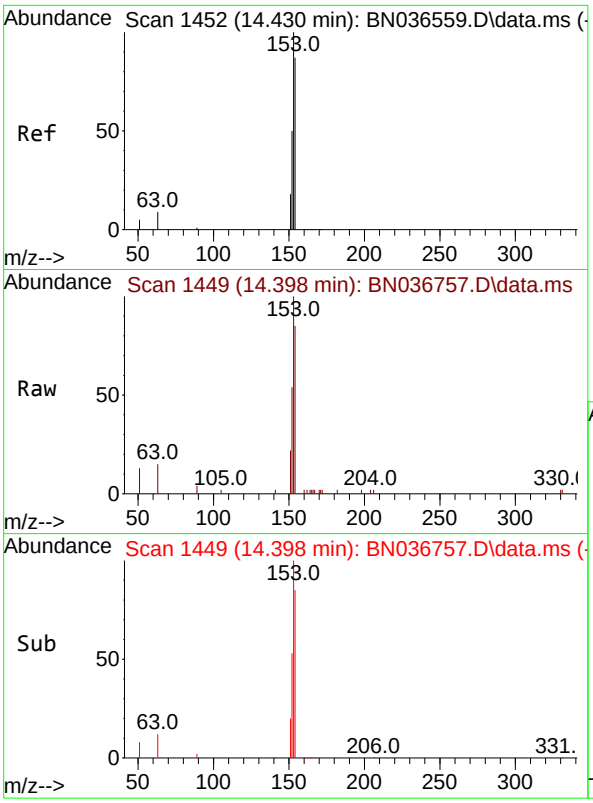



#16
Acenaphthylene
Concen: 0.361 ng
RT: 14.056 min Scan# 1417
Delta R.T. -0.021 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:152 Resp: 4680

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 19.7 | 16.2 | 24.4 |
| 153 | 13.4 | 10.6 | 15.8 |

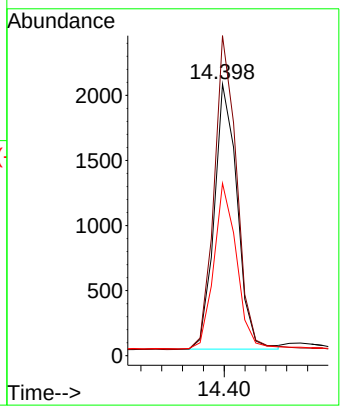





#17
Acenaphthene
Concen: 0.368 ng
RT: 14.398 min Scan# 14
Delta R.T. -0.032 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:154 Resp: 312

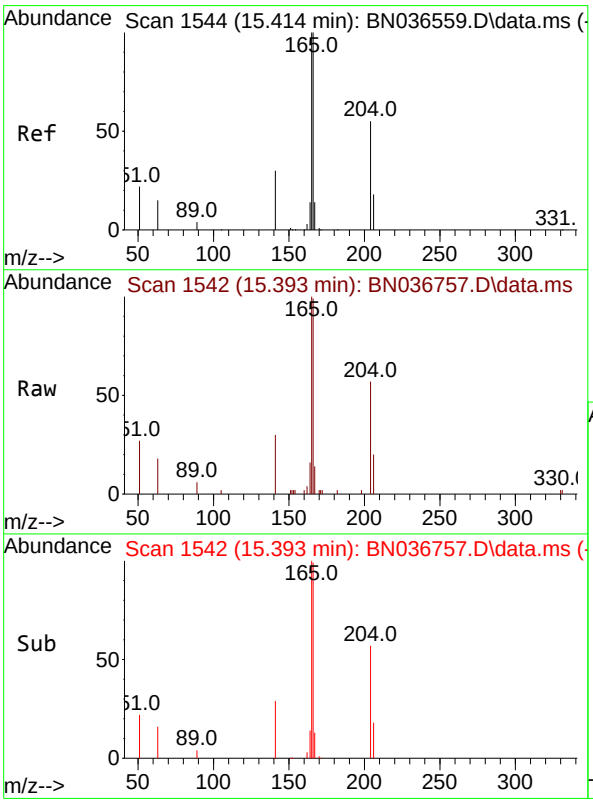
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 117.8 | 94.1 | 141.1 |
| 152 | 62.6 | 49.8 | 74.6 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations**
**APPROVED**

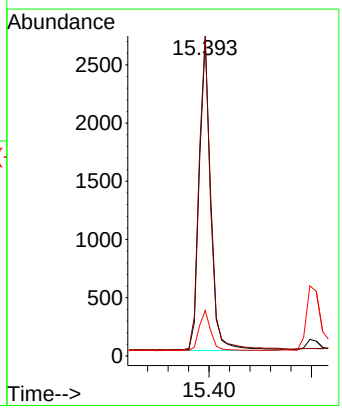
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

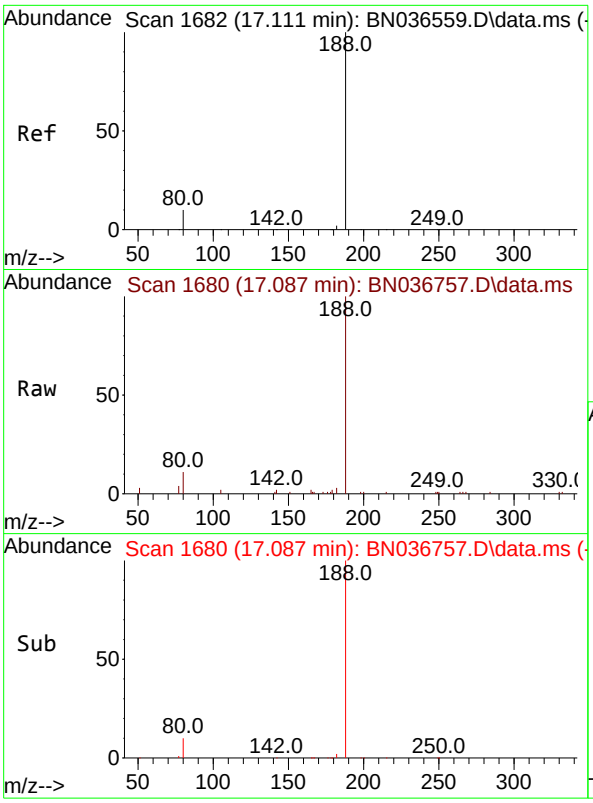



#18
Fluorene
Concen: 0.371 ng
RT: 15.393 min Scan# 1542
Delta R.T. -0.021 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:166 Resp: 4263

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 100.3 | 79.8 | 119.8 |
| 167 | 12.7 | 10.6 | 15.8 |

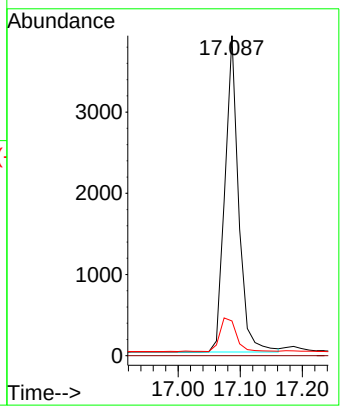





#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.087 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

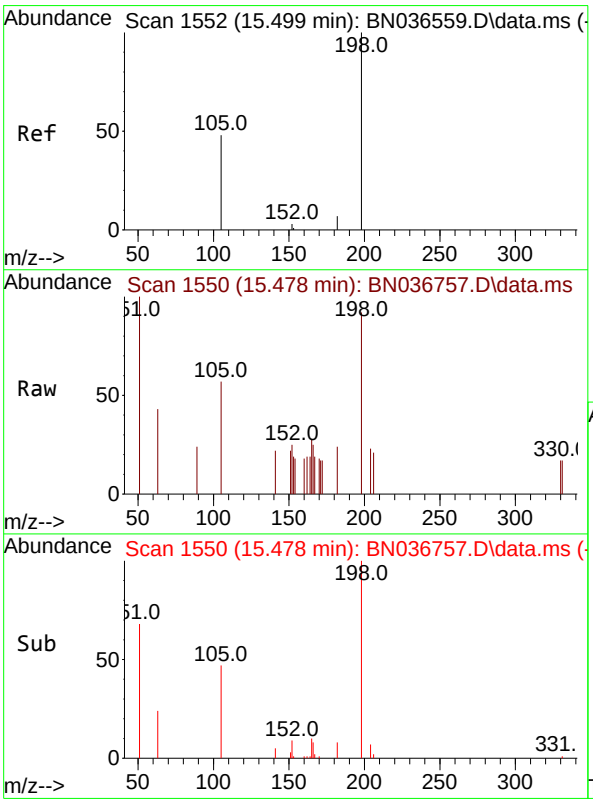
Tgt Ion:188 Resp: 593

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 10.8 | 8.8 | 13.2 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

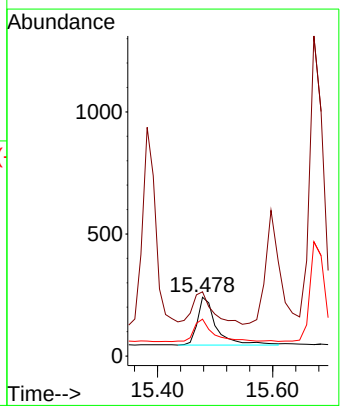
**Manual Integrations**
**APPROVED**
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

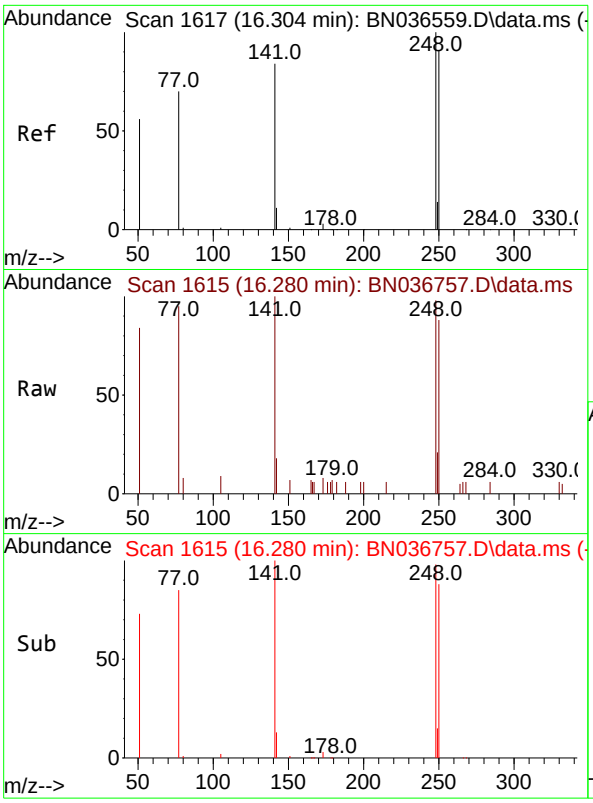



#20
4,6-Dinitro-2-methylphenol
Concen: 0.457 ng
RT: 15.478 min Scan# 1550
Delta R.T. -0.021 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:198 Resp: 472

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 198 | 100 | | |
| 51 | 109.1 | 107.9 | 161.9 |
| 105 | 62.7 | 56.2 | 84.2 |






#21
4-Bromophenyl-phenylether
Concen: 0.372 ng
RT: 16.280 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

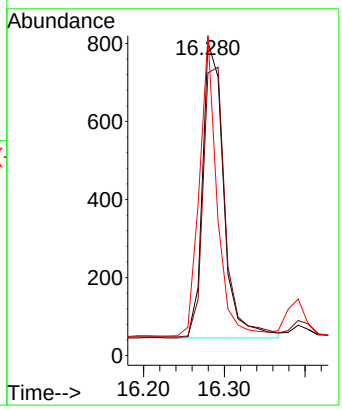
Tgt Ion:248 Resp: 138

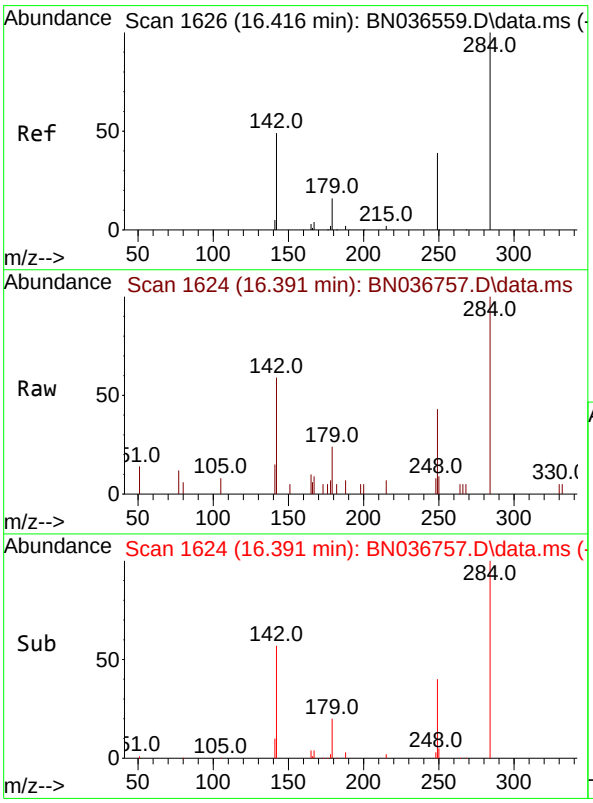
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 90.2 | 73.0 | 109.6 |
| 141 | 102.0 | 68.6 | 103.0 |

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations**
**APPROVED**

Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

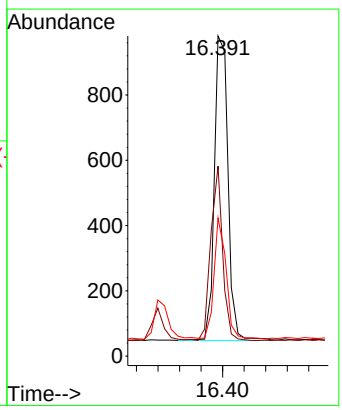


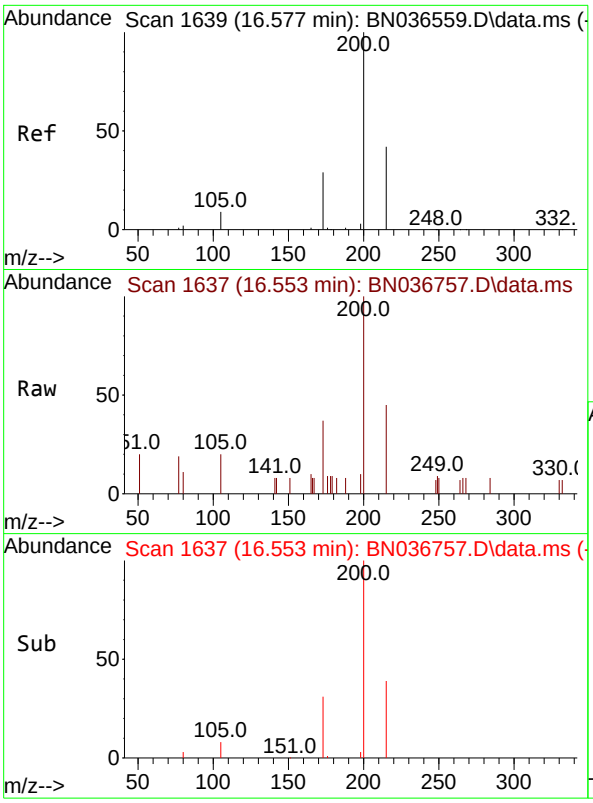




#22
Hexachlorobenzene
Concen: 0.364 ng
RT: 16.391 min Scan# 1624
Delta R.T. -0.025 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:284 Resp: 1636

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 49.6 | 37.0 | 55.4 |
| 249 | 35.2 | 28.1 | 42.1 |

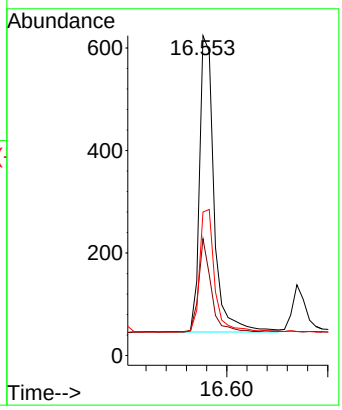





#23
Atrazine
Concen: 0.387 ng
RT: 16.553 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:200 Resp: 115

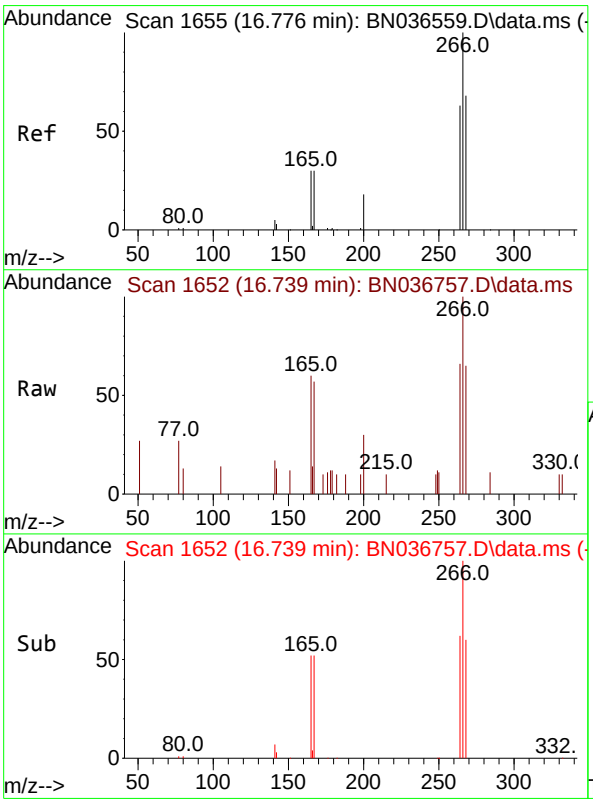
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 173 | 36.5 | 27.3 | 40.9 |
| 215 | 44.9 | 36.8 | 55.2 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations**
**APPROVED**

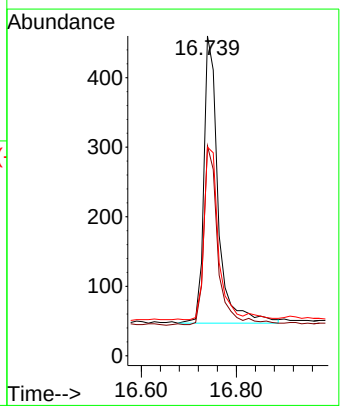
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

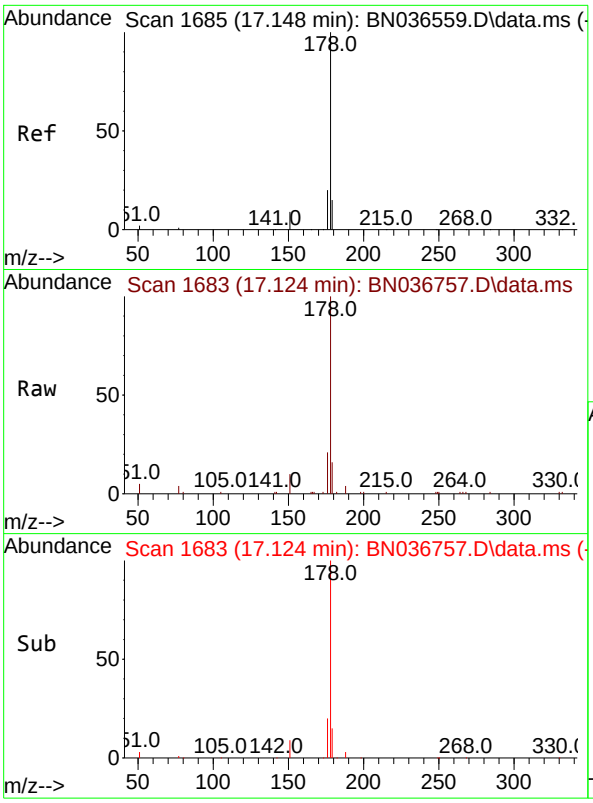



#24
Pentachlorophenol
Concen: 0.424 ng
RT: 16.739 min Scan# 1652
Delta R.T. -0.037 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:266 Resp: 868

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 264 | 62.2 | 49.6 | 74.4 |
| 268 | 59.4 | 50.9 | 76.3 |

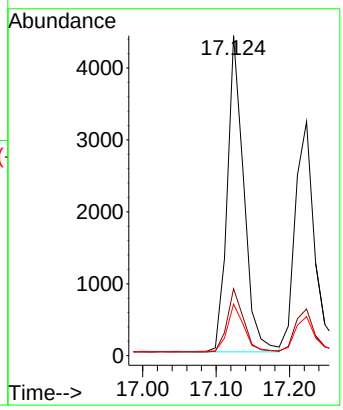





#25
Phenanthrene
Concen: 0.386 ng
RT: 17.124 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:178 Resp: 686(

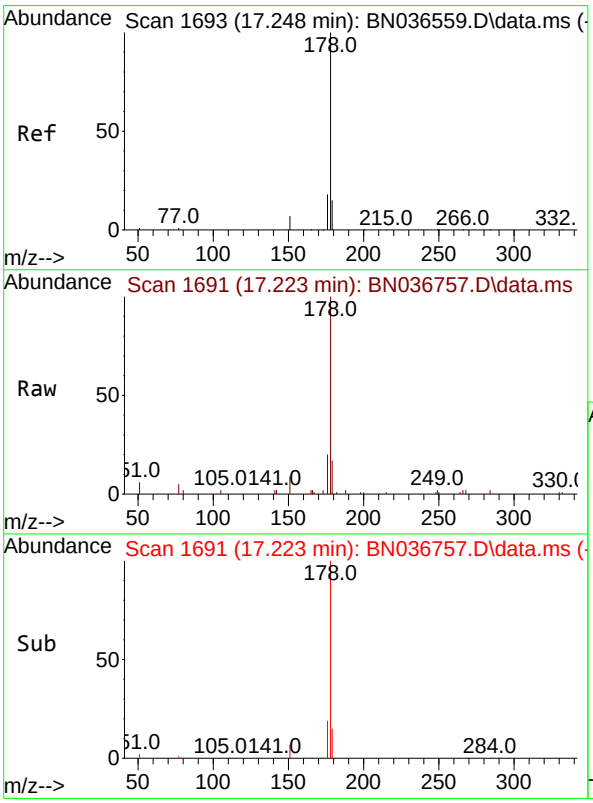
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.7 | 15.9 | 23.9 |
| 179 | 15.3 | 12.2 | 18.4 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations**
**APPROVED**

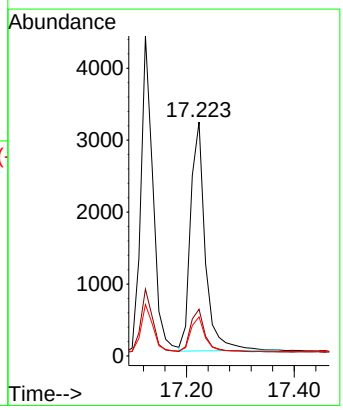
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

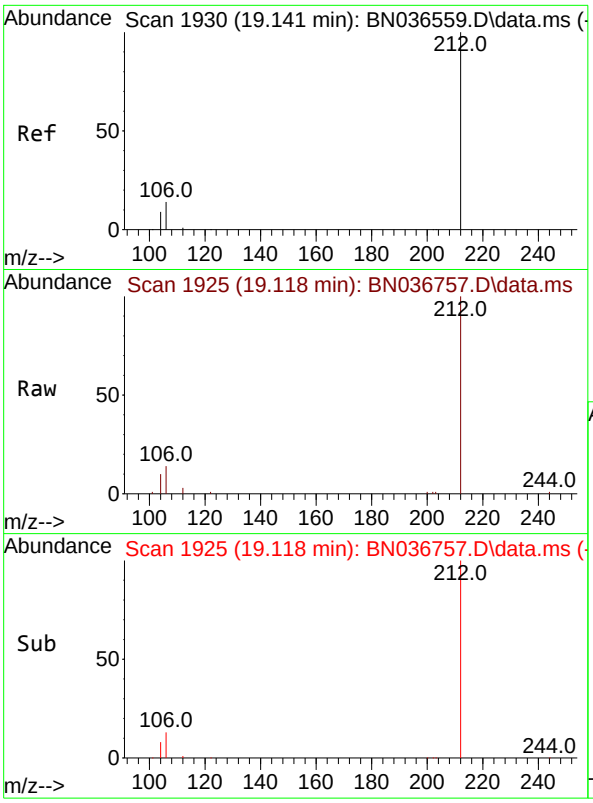



#26
Anthracene
Concen: 0.374 ng
RT: 17.223 min Scan# 1691
Delta R.T. -0.025 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:178 Resp: 6014

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.1 | 15.4 | 23.2 |
| 179 | 15.0 | 12.6 | 18.8 |

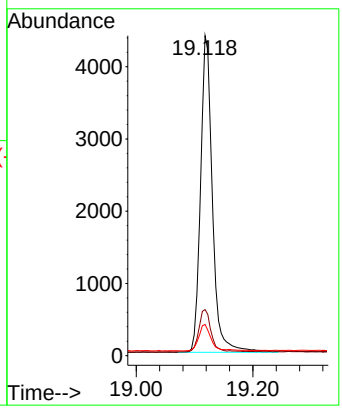





#27
Fluoranthene-d10
Concen: 0.411 ng
RT: 19.118 min Scan# 1
Delta R.T. -0.023 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:212 Resp: 625

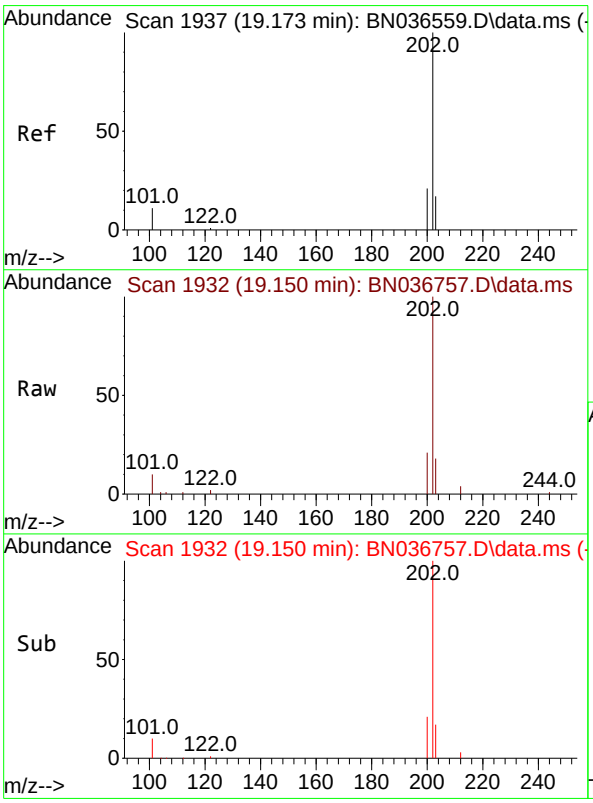
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 13.6 | 11.8 | 17.6 |
| 104 | 8.6 | 7.3 | 10.9 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations**
**APPROVED**

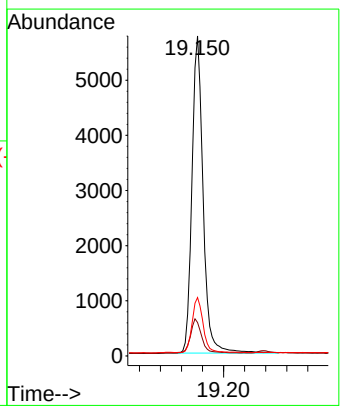
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

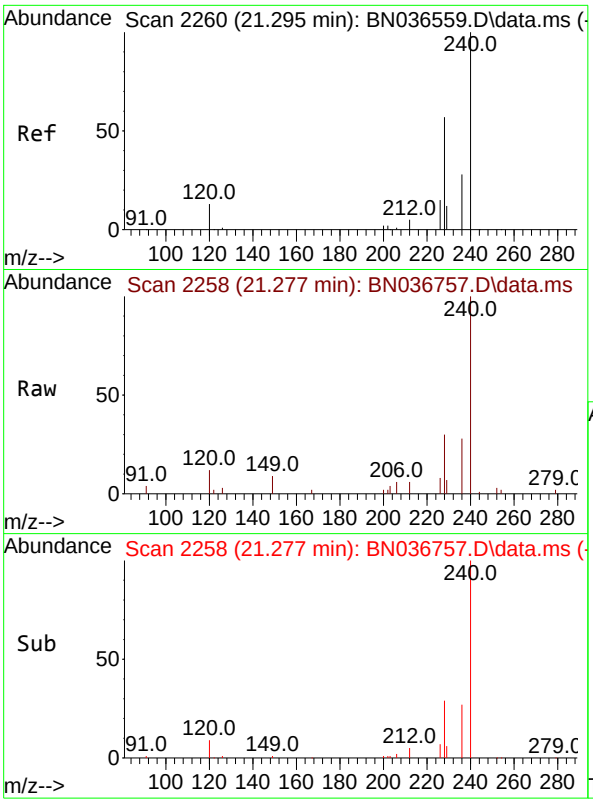



#28
Fluoranthene
Concen: 0.424 ng
RT: 19.150 min Scan# 1932
Delta R.T. -0.023 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:202 Resp: 8476

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 11.0 | 9.4 | 14.0 |
| 203 | 17.2 | 13.5 | 20.3 |

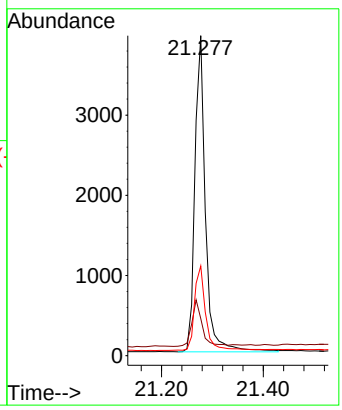





#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:240 Resp: 568

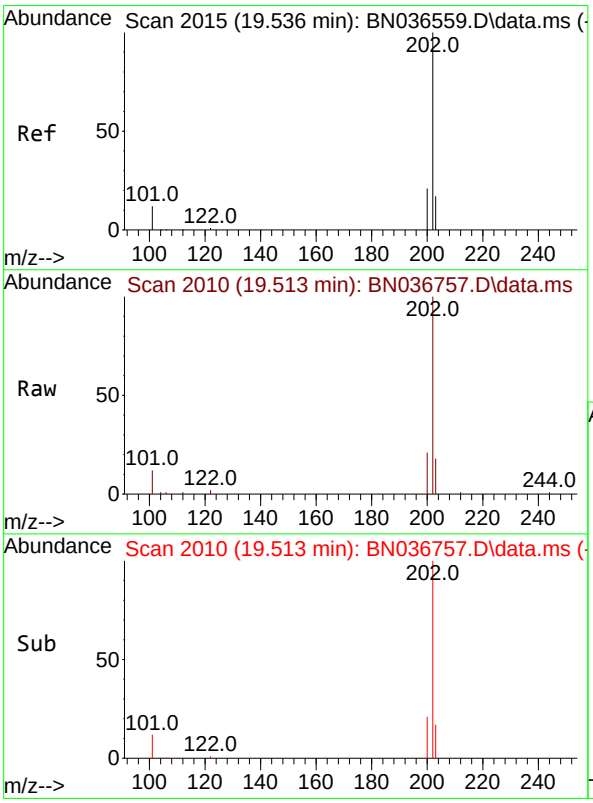
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 11.6 | 14.6 | 22.0 |
| 236 | 28.0 | 24.1 | 36.1 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations**
**APPROVED**

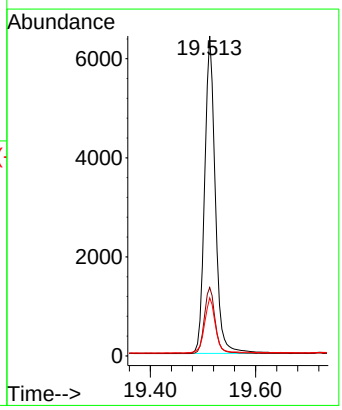
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

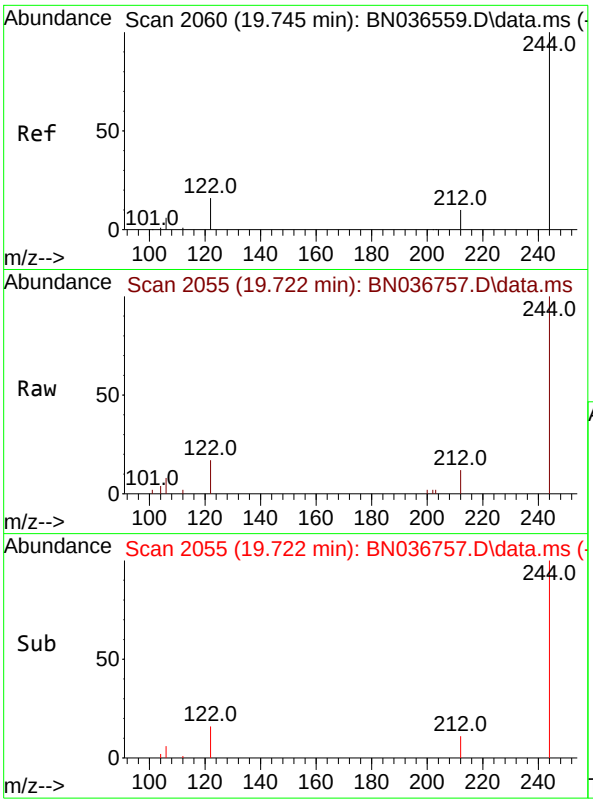



#30
Pyrene
Concen: 0.325 ng
RT: 19.513 min Scan# 2010
Delta R.T. -0.023 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:202 Resp: 9024

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.2 | 17.1 | 25.7 |
| 203 | 17.5 | 14.1 | 21.1 |

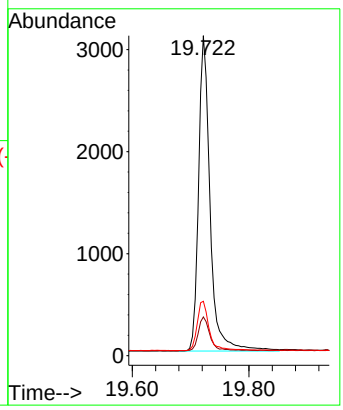





#31
Terphenyl-d14
Concen: 0.313 ng
RT: 19.722 min Scan# 2
Delta R.T. -0.023 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:244 Resp: 425

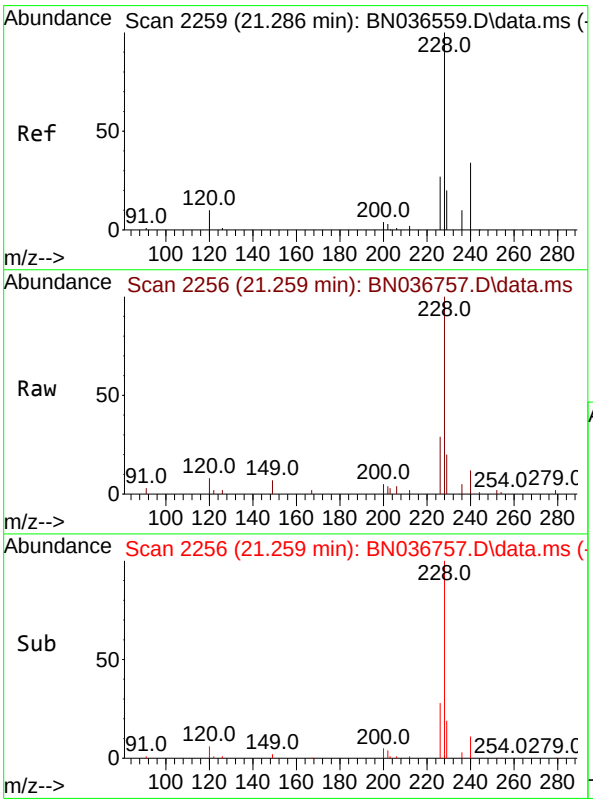
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 12.1 | 9.6 | 14.4 |
| 122 | 17.0 | 13.9 | 20.9 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations**
**APPROVED**

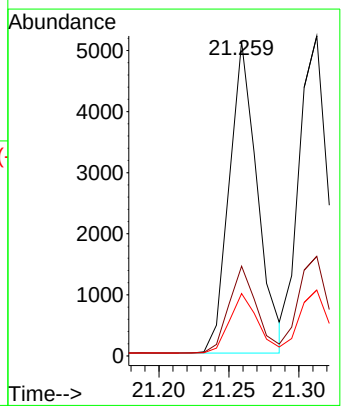
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

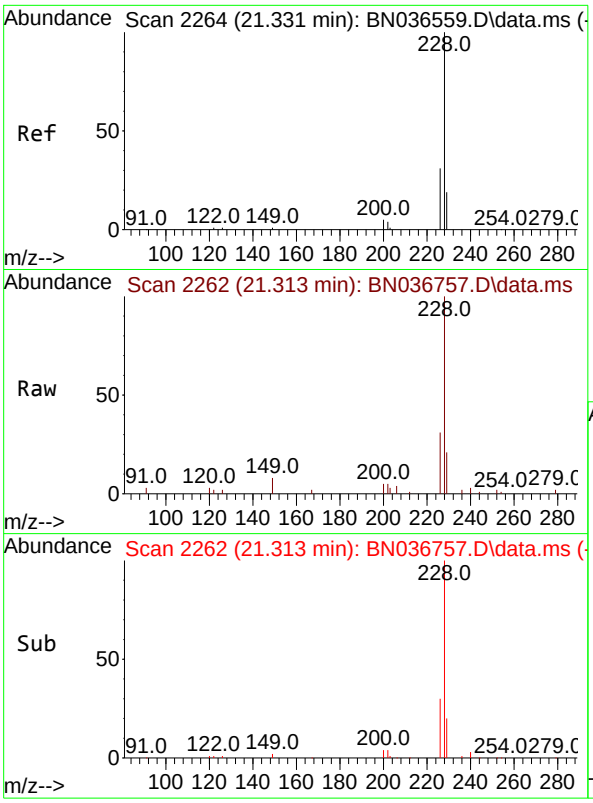



#32
Benzo(a)anthracene
Concen: 0.362 ng
RT: 21.259 min Scan# 2256
Delta R.T. -0.027 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:228 Resp: 7146

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 28.5 | 22.5 | 33.7 |
| 229 | 19.8 | 16.6 | 25.0 |

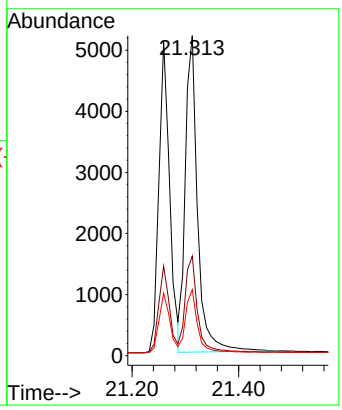





#33
Chrysene
Concen: 0.383 ng
RT: 21.313 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:228 Resp: 827

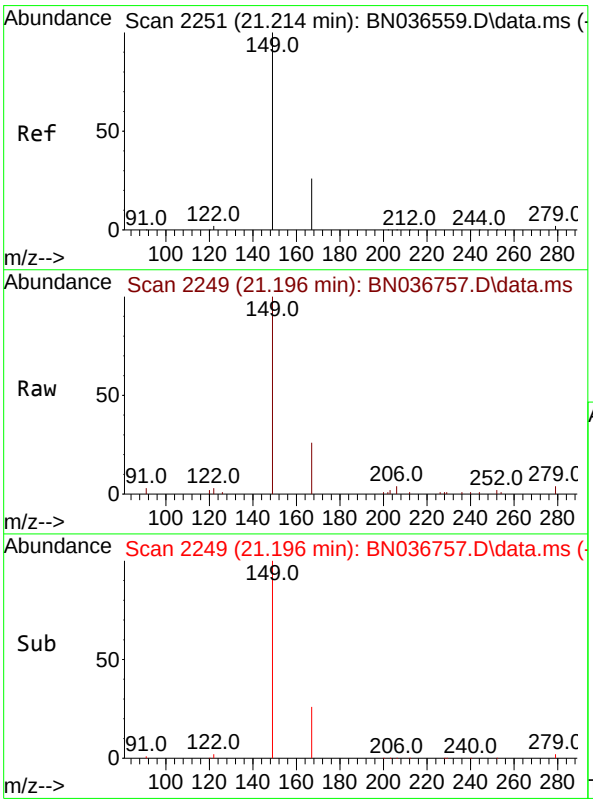
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 31.1 | 25.3 | 37.9 |
| 229 | 20.6 | 15.8 | 23.8 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations**
**APPROVED**

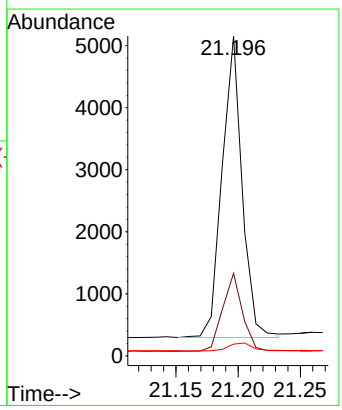
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

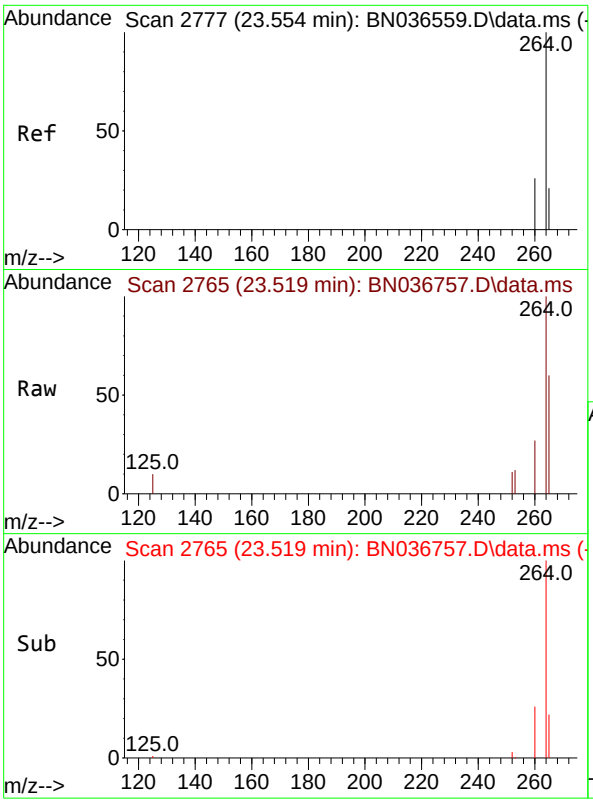



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.386 ng
RT: 21.196 min Scan# 2249
Delta R.T. -0.018 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:149 Resp: 5431

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 25.8 | 20.7 | 31.1 |
| 279 | 3.4 | 3.6 | 5.4# |






#35
Perylene-d12
Concen: 0.400 ng
RT: 23.519 min Scan# 2
Delta R.T. -0.035 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

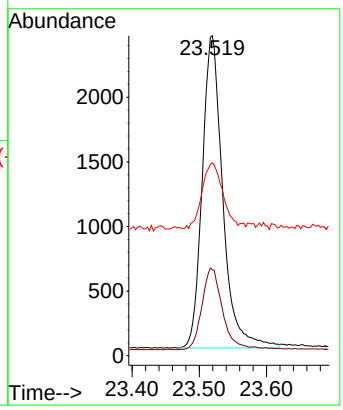
**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

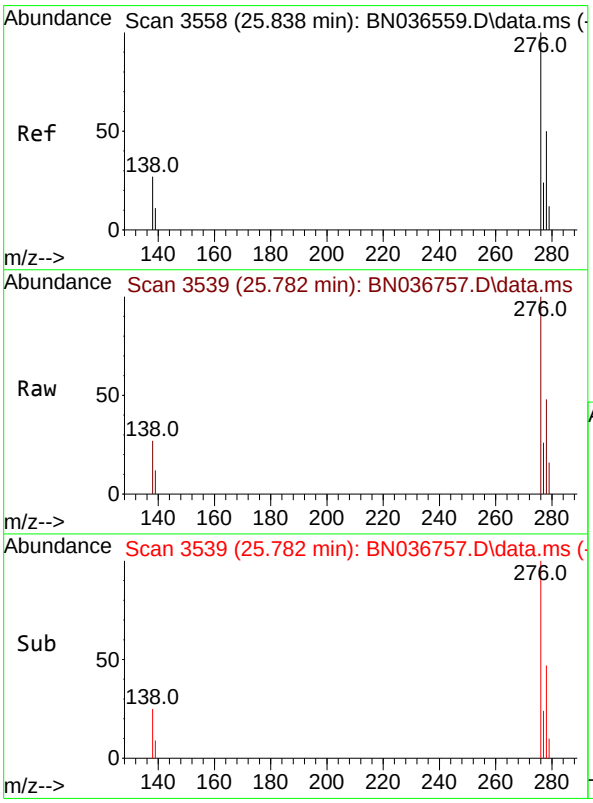
Tgt Ion:264 Resp: 514

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 26.8 | 22.6 | 33.8 |
| 265 | 60.3 | 88.1 | 132.1# |

**Manual Integrations**
**APPROVED**

Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

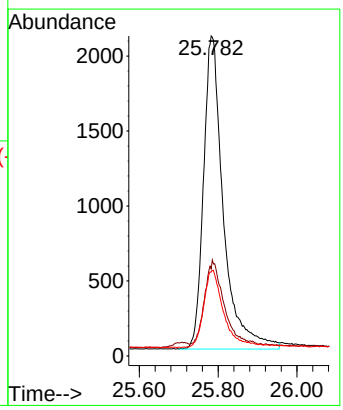


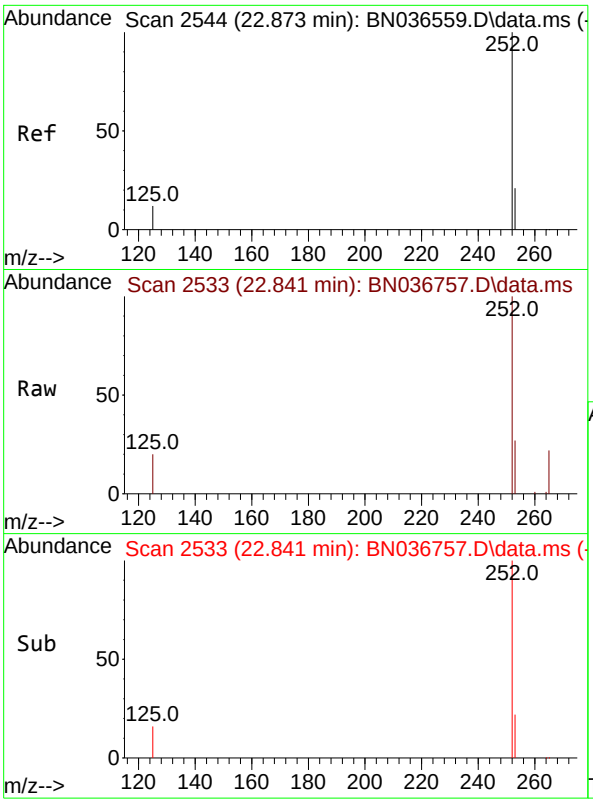




#36
Indeno(1,2,3-cd)pyrene
Concen: 0.394 ng
RT: 25.782 min Scan# 3539
Delta R.T. -0.055 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:276 Resp: 7314

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 24.9 | 23.4 | 35.2 |
| 277 | 24.6 | 20.0 | 30.0 |

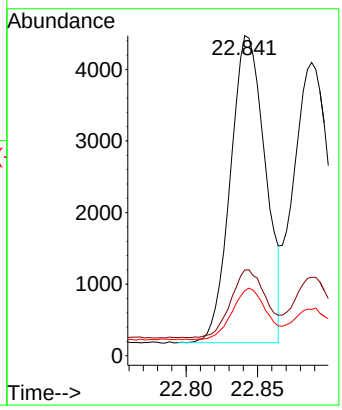





#37
Benzo(b)fluoranthene
Concen: 0.390 ng
RT: 22.841 min Scan# 2
Delta R.T. -0.032 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:252 Resp: 729

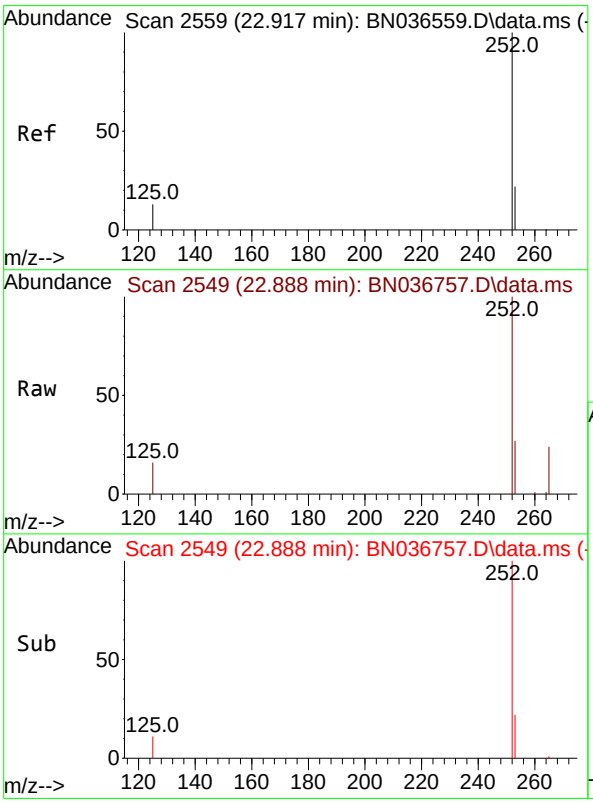
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 26.8 | 23.9 | 35.9 |
| 125 | 20.4 | 17.4 | 26.2 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations**
**APPROVED**

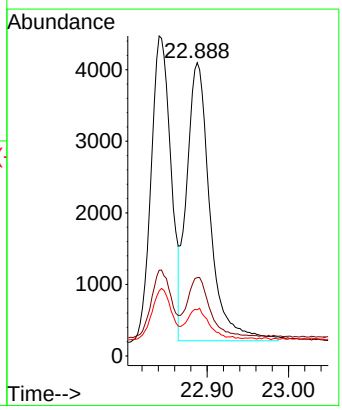
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

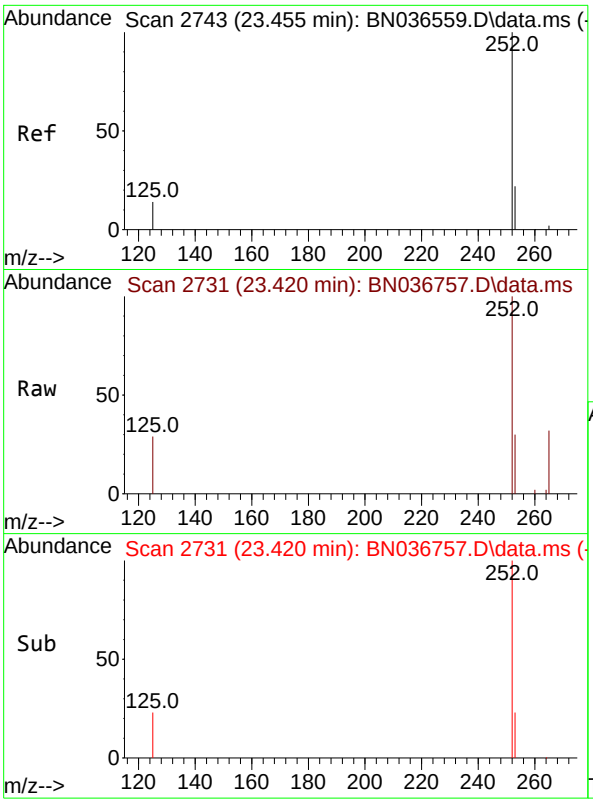



#38
Benzo(k)fluoranthene
Concen: 0.395 ng m
RT: 22.888 min Scan# 2549
Delta R.T. -0.029 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:252 Resp: 7751

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 26.7 | 24.6 | 36.8 |
| 125 | 15.8 | 17.8 | 26.8# |

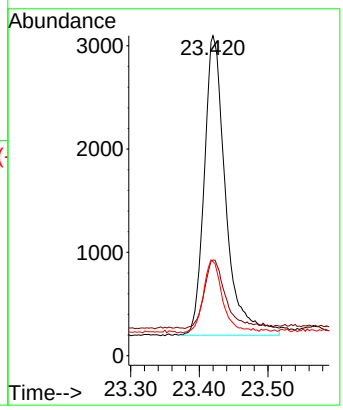





#39
Benzo(a)pyrene
Concen: 0.399 ng
RT: 23.420 min Scan# 2
Delta R.T. -0.035 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:252 Resp: 629

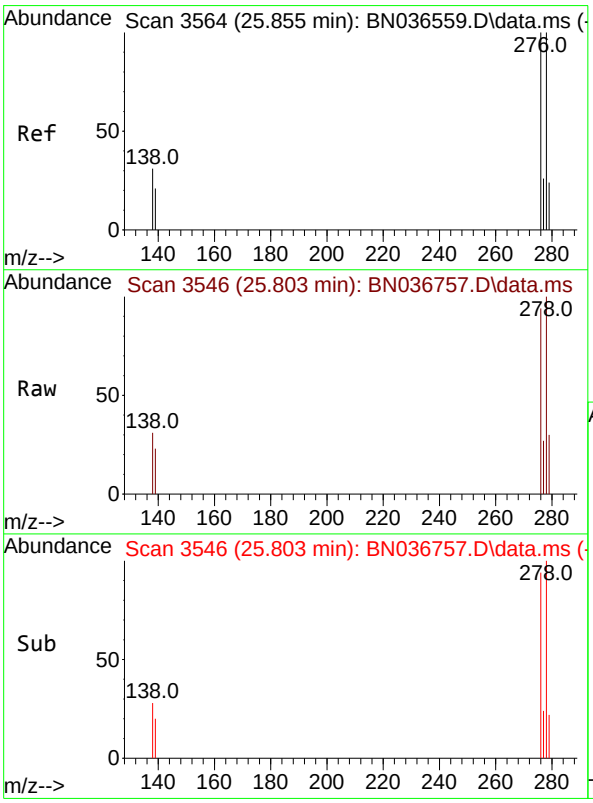
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 29.9 | 27.8 | 41.8 |
| 125 | 29.4 | 22.7 | 34.1 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations**
**APPROVED**

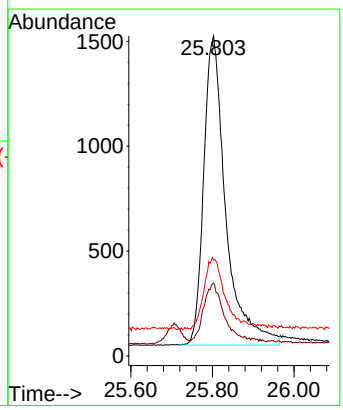
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

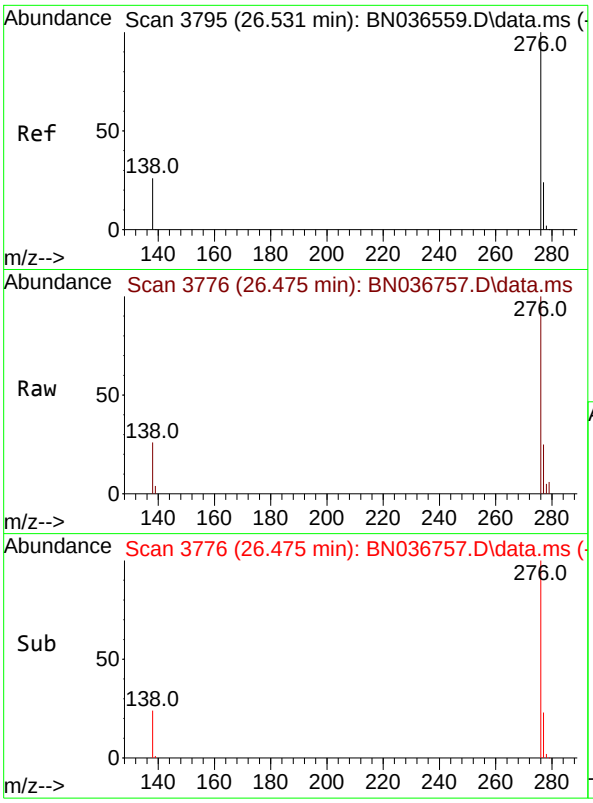



#40
Dibenzo(a,h)anthracene
Concen: 0.382 ng
RT: 25.803 min Scan# 3546
Delta R.T. -0.052 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:278 Resp: 5522

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 22.8 | 20.8 | 31.2 |
| 279 | 30.0 | 28.8 | 43.2 |

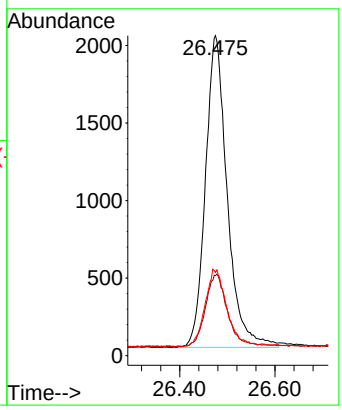





#41
Benzo(g,h,i)perylene
Concen: 0.386 ng
RT: 26.475 min Scan# 3
Delta R.T. -0.055 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:276 Resp: 637

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 25.1 | 22.2 | 33.4 |
| 138 | 26.0 | 24.1 | 36.1 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations**
**APPROVED**

Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036757.D
Acq On : 28 Mar 2025 03:46
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 22 Sample Multiplier: 1

**Instrument :**
BNA_N
**LabSampleId :**
SSTDCCC0.4

Quant Time: Mar 28 05:36:56 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
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 | 89 | -0.02 |
| 2 | | 1,4-Dioxane | 0.444 | 0.442 | 0.5 | 79 | -0.01 |
| 3 | | n-Nitrosodimethylamine | 0.898 | 0.879 | 2.1 | 84 | -0.01 |
| 4 | S | 2-Fluorophenol | 0.932 | 0.782 | 16.1 | 71 | -0.02 |
| 5 | S | Phenol-d6 | 1.152 | 0.986 | 14.4 | 78 | -0.03 |
| 6 | | bis(2-Chloroethyl)ether | 1.190 | 1.050 | 11.8 | 79 | -0.03 |
| 7 | I | Naphthalene-d8 | 1.000 | 1.000 | 0.0 | 90 | -0.02 |
| 8 | S | Nitrobenzene-d5 | 0.435 | 0.370 | 14.9 | 81 | -0.02 |
| 9 | | Naphthalene | 1.177 | 1.056 | 10.3 | 79 | -0.03 |
| 10 | | Hexachlorobutadiene | 0.277 | 0.247 | 10.8 | 76 | -0.02 |
| 11 | SURR | 2-Methylnaphthalene-d10 | 0.595 | 0.509 | 14.5 | 76 | -0.03 |
| 12 | | 2-Methylnaphthalene | 0.749 | 0.662 | 11.6 | 78 | -0.03 |
| 13 | I | Acenaphthene-d10 | 1.000 | 1.000 | 0.0 | 91 | -0.03 |
| 14 | S | 2,4,6-Tribromophenol | 0.182 | 0.184 | -1.1 | 89 | -0.02 |
| 15 | S | 2-Fluorobiphenyl | 2.327 | 2.013 | 13.5 | 76 | -0.03 |
| 16 | | Acenaphthylene | 1.888 | 1.702 | 9.9 | 80 | -0.02 |
| 17 | | Acenaphthene | 1.236 | 1.136 | 8.1 | 81 | -0.03 |
| 18 | | Fluorene | 1.672 | 1.550 | 7.3 | 80 | -0.02 |
| 19 | I | Phenanthrene-d10 | 1.000 | 1.000 | 0.0 | 99 | -0.02 |
| 20 | | 4,6-Dinitro-2-methylphenol | 0.086 | 0.080 | 7.0 | 102 | -0.02 |
| 21 | | 4-Bromophenyl-phenylether | 0.251 | 0.233 | 7.2 | 84 | -0.02 |
| 22 | | Hexachlorobenzene | 0.303 | 0.276 | 8.9 | 81 | -0.02 |
| 23 | | Atrazine | 0.201 | 0.194 | 3.5 | 90 | -0.02 |
| 24 | | Pentachlorophenol | 0.138 | 0.146 | -5.8 | 106 | -0.04 |
| 25 | | Phenanthrene | 1.200 | 1.156 | 3.7 | 88 | -0.02 |
| 26 | | Anthracene | 1.083 | 1.013 | 6.5 | 87 | -0.02 |
| 27 | SURR | Fluoranthene-d10 | 1.025 | 1.053 | -2.7 | 93 | -0.02 |
| 28 | | Fluoranthene | 1.348 | 1.428 | -5.9 | 97 | -0.02 |
| 29 | I | Chrysene-d12 | 1.000 | 1.000 | 0.0 | 138 | -0.02 |
| 30 | | Pyrene | 1.956 | 1.589 | 18.8 | 103 | -0.02 |
| 31 | S | Terphenyl-d14 | 0.958 | 0.749 | 21.8 | 101 | -0.02 |
| 32 | | Benzo(a)anthracene | 1.391 | 1.258 | 9.6 | 121 | -0.03 |
| 33 | | Chrysene | 1.520 | 1.456 | 4.2 | 125 | -0.02 |
| 34 | | Bis(2-ethylhexyl)phthalate | 0.990 | 0.956 | 3.4 | 127 | -0.02 |
| 35 | I | Perylene-d12 | 1.000 | 1.000 | 0.0 | 145 | -0.03 |
| 36 | | Indeno(1,2,3-cd)pyrene | 1.444 | 1.423 | 1.5 | 134 | -0.06 |
| 37 | | Benzo(b)fluoranthene | 1.456 | 1.419 | 2.5 | 133 | -0.03 |
| 38 | | Benzo(k)fluoranthene | 1.527 | 1.508 | 1.2 | 135 | -0.03 |
| 39 | C | Benzo(a)pyrene | 1.226 | 1.224 | 0.2 | 136 | -0.03 |
| 40 | | Dibenzo(a,h)anthracene | 1.124 | 1.074 | 4.4 | 134 | -0.05 |
| 41 | | Benzo(g,h,i)perylene | 1.286 | 1.240 | 3.6 | 130 | -0.06 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036757.D
Acq On : 28 Mar 2025 03:46
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 22 Sample Multiplier: 1

**Instrument :**
BNA_N
**LabSampleId :**
SSTDCCC0.4

Quant Time: Mar 28 05:36:56 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
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 | 89 | -0.02 |
| 2 | | 1,4-Dioxane | 0.400 | 0.399 | 0.3 | 79 | -0.01 |
| 3 | | n-Nitrosodimethylamine | 0.400 | 0.392 | 2.0 | 84 | -0.01 |
| 4 | S | 2-Fluorophenol | 0.400 | 0.335 | 16.3 | 71 | -0.02 |
| 5 | S | Phenol-d6 | 0.400 | 0.343 | 14.2 | 78 | -0.03 |
| 6 | | bis(2-Chloroethyl)ether | 0.400 | 0.353 | 11.8 | 79 | -0.03 |
| 7 | I | Naphthalene-d8 | 0.400 | 0.400 | 0.0 | 90 | -0.02 |
| 8 | S | Nitrobenzene-d5 | 0.400 | 0.340 | 15.0 | 81 | -0.02 |
| 9 | | Naphthalene | 0.400 | 0.359 | 10.3 | 79 | -0.03 |
| 10 | | Hexachlorobutadiene | 0.400 | 0.357 | 10.8 | 76 | -0.02 |
| 11 | SURR | 2-Methylnaphthalene-d10 | 0.400 | 0.342 | 14.5 | 76 | -0.03 |
| 12 | | 2-Methylnaphthalene | 0.400 | 0.354 | 11.5 | 78 | -0.03 |
| 13 | I | Acenaphthene-d10 | 0.400 | 0.400 | 0.0 | 91 | -0.03 |
| 14 | S | 2,4,6-Tribromophenol | 0.400 | 0.406 | -1.5 | 89 | -0.02 |
| 15 | S | 2-Fluorobiphenyl | 0.400 | 0.346 | 13.5 | 76 | -0.03 |
| 16 | | Acenaphthylene | 0.400 | 0.361 | 9.8 | 80 | -0.02 |
| 17 | | Acenaphthene | 0.400 | 0.368 | 8.0 | 81 | -0.03 |
| 18 | | Fluorene | 0.400 | 0.371 | 7.3 | 80 | -0.02 |
| 19 | I | Phenanthrene-d10 | 0.400 | 0.400 | 0.0 | 99 | -0.02 |
| 20 | | 4,6-Dinitro-2-methylphenol | 0.400 | 0.457 | -14.2 | 102 | -0.02 |
| 21 | | 4-Bromophenyl-phenylether | 0.400 | 0.372 | 7.0 | 84 | -0.02 |
| 22 | | Hexachlorobenzene | 0.400 | 0.364 | 9.0 | 81 | -0.02 |
| 23 | | Atrazine | 0.400 | 0.387 | 3.3 | 90 | -0.02 |
| 24 | | Pentachlorophenol | 0.400 | 0.424 | -6.0 | 106 | -0.04 |
| 25 | | Phenanthrene | 0.400 | 0.386 | 3.5 | 88 | -0.02 |
| 26 | | Anthracene | 0.400 | 0.374 | 6.5 | 87 | -0.02 |
| 27 | SURR | Fluoranthene-d10 | 0.400 | 0.411 | -2.7 | 93 | -0.02 |
| 28 | | Fluoranthene | 0.400 | 0.424 | -6.0 | 97 | -0.02 |
| 29 | I | Chrysene-d12 | 0.400 | 0.400 | 0.0 | 138 | -0.02 |
| 30 | | Pyrene | 0.400 | 0.325 | 18.8 | 103 | -0.02 |
| 31 | S | Terphenyl-d14 | 0.400 | 0.313 | 21.8 | 101 | -0.02 |
| 32 | | Benzo(a)anthracene | 0.400 | 0.362 | 9.5 | 121 | -0.03 |
| 33 | | Chrysene | 0.400 | 0.383 | 4.3 | 125 | -0.02 |
| 34 | | Bis(2-ethylhexyl)phthalate | 0.400 | 0.386 | 3.5 | 127 | -0.02 |
| 35 | I | Perylene-d12 | 0.400 | 0.400 | 0.0 | 145 | -0.03 |
| 36 | | Indeno(1,2,3-cd)pyrene | 0.400 | 0.394 | 1.5 | 134 | -0.06 |
| 37 | | Benzo(b)fluoranthene | 0.400 | 0.390 | 2.5 | 133 | -0.03 |
| 38 | | Benzo(k)fluoranthene | 0.400 | 0.395 | 1.3 | 135 | -0.03 |
| 39 | C | Benzo(a)pyrene | 0.400 | 0.399 | 0.3 | 136 | -0.03 |
| 40 | | Dibenzo(a,h)anthracene | 0.400 | 0.382 | 4.5 | 134 | -0.05 |
| 41 | | Benzo(g,h,i)perylene | 0.400 | 0.386 | 3.5 | 130 | -0.06 |

(#) = 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.: Q1629 SAS No.: Q1629 SDG No.: Q1629

Instrument ID: BNA_N Calibration Date/Time: 03/28/2025 13:58

Lab File ID: BN036771.D Init. Calib. Date(s): 03/10/2025 03/10/2025

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 11:42 15:19

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

| COMPOUND | RRF | RRF0.4 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| 2-Methylnaphthalene-d10 | 0.595 | 0.540 | | -9.2 | 50.0 |
| Fluoranthene-d10 | 1.025 | 1.012 | | -1.3 | 50.0 |
| 2-Fluorophenol | 0.932 | 0.846 | | -9.2 | 50.0 |
| Phenol-d6 | 1.152 | 1.010 | | -12.3 | 50.0 |
| Nitrobenzene-d5 | 0.435 | 0.354 | | -18.6 | 50.0 |
| 2-Fluorobiphenyl | 2.327 | 2.021 | | -13.1 | 50.0 |
| 2,4,6-Tribromophenol | 0.182 | 0.177 | | -2.7 | 50.0 |
| Terphenyl-d14 | 0.958 | 0.816 | | -14.8 | 50.0 |
| 1,4-Dioxane | 0.444 | 0.460 | | 3.6 | 50.0 |

All other compounds must meet a minimum RRF of 0.010.

Form VII SV-1

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036771.D
Acq On : 28 Mar 2025 13:58
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 28 14:23:03 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations APPROVED**
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.695 | 152 | 1636 | 0.400 | ng | | -0.03 |
| 7) Naphthalene-d8 | 10.487 | 136 | 4177 | 0.400 | ng | | #-0.02 |
| 13) Acenaphthene-d10 | 14.334 | 164 | 2615 | 0.400 | ng | | -0.03 |
| 19) Phenanthrene-d10 | 17.086 | 188 | 5571 | 0.400 | ng | | -0.02 |
| 29) Chrysene-d12 | 21.277 | 240 | 4555 | 0.400 | ng | | #-0.02 |
| 35) Perylene-d12 | 23.516 | 264 | 4167 | 0.400 | ng | | #-0.04 |
| **System Monitoring Compounds** | | | | | | | |
| 4) 2-Fluorophenol | 5.290 | 112 | 1384 | 0.363 | ng | | -0.02 |
| 5) Phenol-d6 | 6.872 | 99 | 1653 | 0.351 | ng | | -0.03 |
| 8) Nitrobenzene-d5 | 8.854 | 82 | 1480 | 0.326 | ng | | -0.02 |
| 11) 2-Methylnaphthalene-d10 | 12.080 | 152 | 2256 | 0.363 | ng | | -0.03 |
| 14) 2,4,6-Tribromophenol | 15.833 | 330 | 464 | 0.391 | ng | | -0.02 |
| 15) 2-Fluorobiphenyl | 12.963 | 172 | 5285 | 0.347 | ng | | -0.03 |
| 27) Fluoranthene-d10 | 19.118 | 212 | 5637 | 0.395 | ng | | -0.02 |
| 31) Terphenyl-d14 | 19.722 | 244 | 3716 | 0.341 | ng | | -0.02 |
| **Target Compounds** | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.225 | 88 | 752 | 0.414 | ng | | 97 |
| 3) n-Nitrosodimethylamine | 3.535 | 42 | 1423 | 0.388 | ng | | 97 |
| 6) bis(2-Chloroethyl)ether | 7.125 | 93 | 1671 | 0.343 | ng | | 98 |
| 9) Naphthalene | 10.530 | 128 | 4359 | 0.355 | ng | | 98 |
| 10) Hexachlorobutadiene | 10.818 | 225 | 1044 | 0.361 | ng | # | 99 |
| 12) 2-Methylnaphthalene | 12.156 | 142 | 2874 | 0.368 | ng | | 98 |
| 16) Acenaphthylene | 14.056 | 152 | 4358 | 0.353 | ng | | 99 |
| 17) Acenaphthene | 14.398 | 154 | 2946 | 0.365 | ng | | 100 |
| 18) Fluorene | 15.393 | 166 | 4111 | 0.376 | ng | | 98 |
| 20) 4,6-Dinitro-2-methylph... | 15.478 | 198 | 428 | 0.446 | ng | | 87 |
| 21) 4-Bromophenyl-phenylether | 16.280 | 248 | 1300 | 0.372 | ng | | 96 |
| 22) Hexachlorobenzene | 16.391 | 284 | 1537 | 0.365 | ng | | 96 |
| 23) Atrazine | 16.553 | 200 | 1063 | 0.380 | ng | | 97 |
| 24) Pentachlorophenol | 16.739 | 266 | 702 | 0.365 | ng | | 95 |
| 25) Phenanthrene | 17.124 | 178 | 6367 | 0.381 | ng | | 99 |
| 26) Anthracene | 17.223 | 178 | 5569 | 0.369 | ng | | 100 |
| 28) Fluoranthene | 19.150 | 202 | 7617 | 0.406 | ng | | 99 |
| 30) Pyrene | 19.513 | 202 | 7795 | 0.350 | ng | | 99 |
| 32) Benzo(a)anthracene | 21.259 | 228 | 5566 | 0.351 | ng | | 99 |
| 33) Chrysene | 21.313 | 228 | 6726 | 0.389 | ng | | 99 |
| 34) Bis(2-ethylhexyl)phtha... | 21.196 | 149 | 3968 | 0.352 | ng | # | 99 |
| 36) Indeno(1,2,3-cd)pyrene | 25.782 | 276 | 5233 | 0.348 | ng | | 96 |
| 37) Benzo(b)fluoranthene | 22.844 | 252 | 5720 | 0.377 | ng | | 97 |
| 38) Benzo(k)fluoranthene | 22.888 | 252 | 5791m | 0.364 | ng | | |
| 39) Benzo(a)pyrene | 23.420 | 252 | 4867 | 0.381 | ng | | 96 |
| 40) Dibenzo(a,h)anthracene | 25.800 | 278 | 3914 | 0.334 | ng | | 96 |
| 41) Benzo(g,h,i)perylene | 26.475 | 276 | 4758 | 0.355 | ng | | 95 |

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

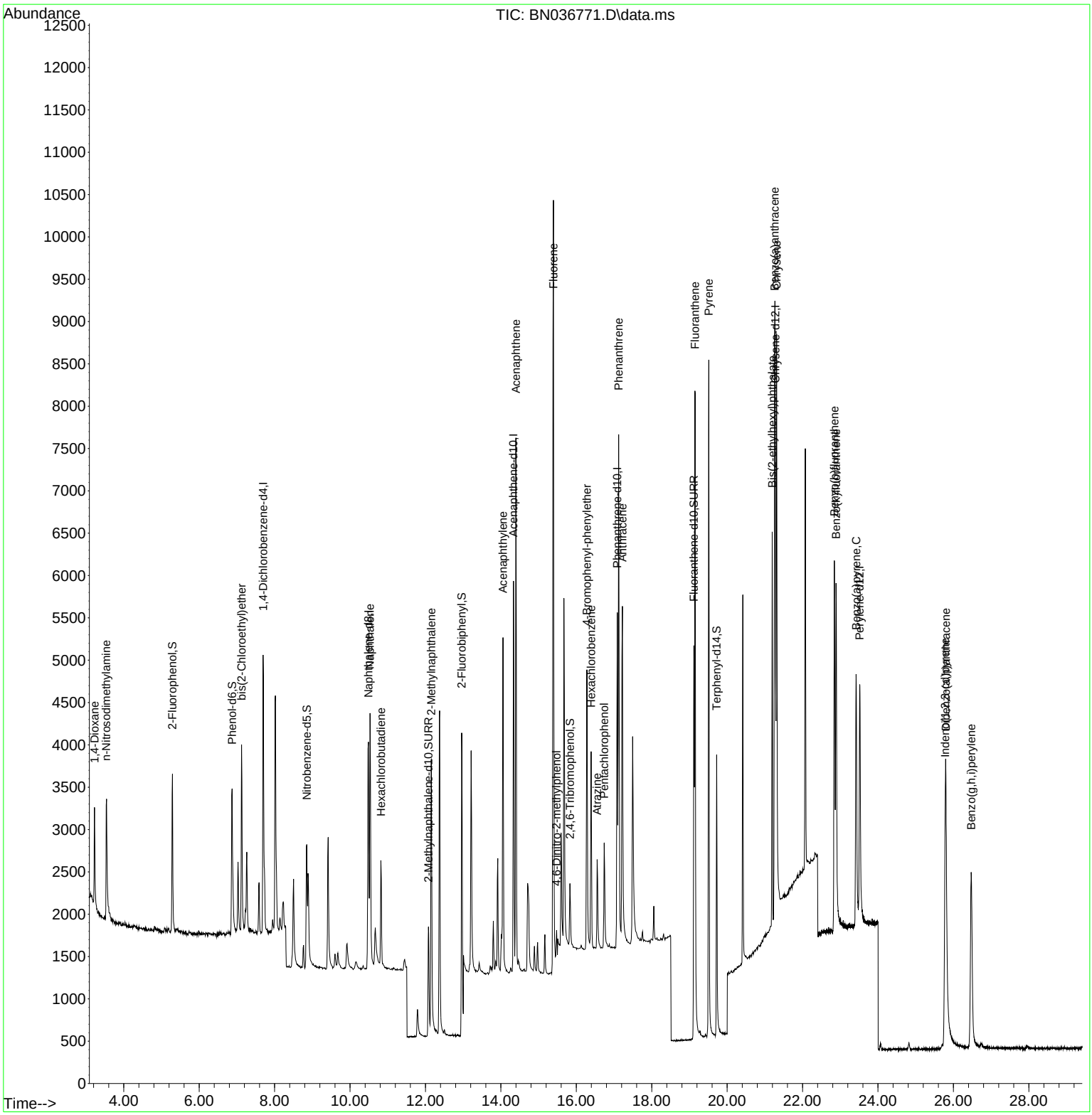
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036771.D
Acq On : 28 Mar 2025 13:58
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

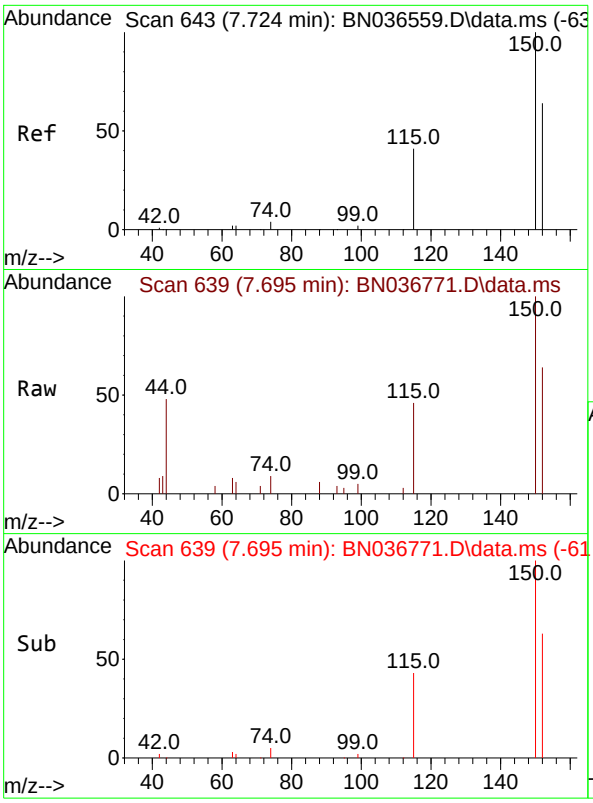
Quant Time: Mar 28 14:23:03 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations APPROVED**

Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

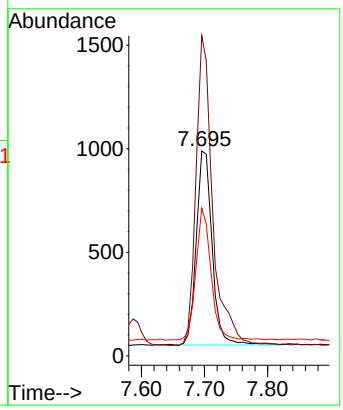





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.695 min Scan# 6
Delta R.T. -0.029 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:152 Resp: 163

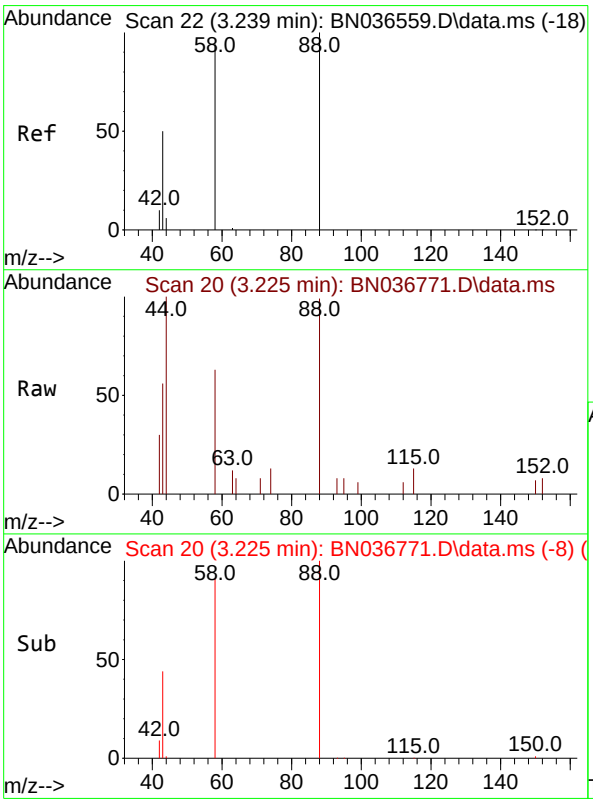
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 156.3 | 123.7 | 185.5 |
| 115 | 72.2 | 54.3 | 81.5 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations**
**APPROVED**

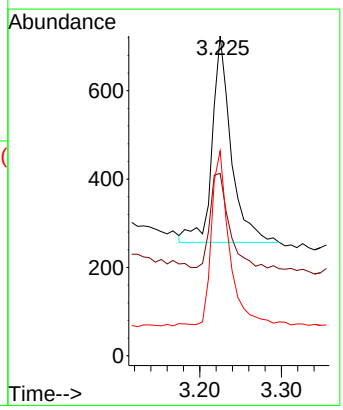
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

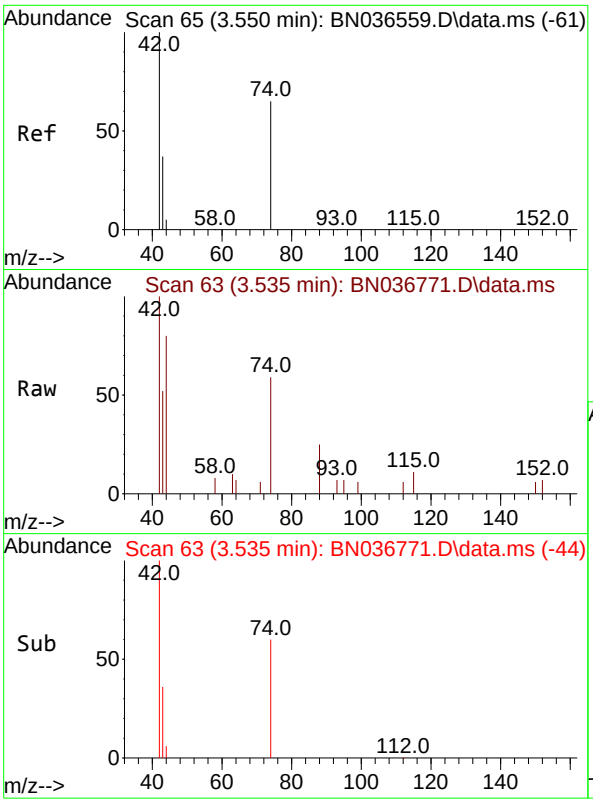



#2
1,4-Dioxane
Concen: 0.414 ng
RT: 3.225 min Scan# 20
Delta R.T. -0.014 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion: 88 Resp: 752

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 47.5 | 37.8 | 56.8 |
| 58 | 80.9 | 67.4 | 101.2 |

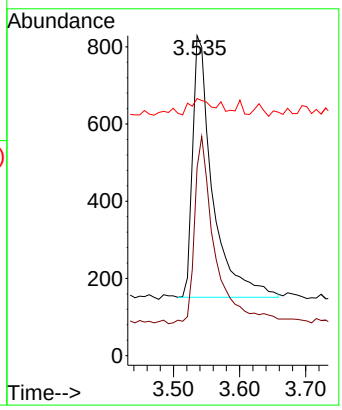





#3
n-Nitrosodimethylamine
Concen: 0.388 ng
RT: 3.535 min Scan# 6
Delta R.T. -0.014 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion: 42 Resp: 142

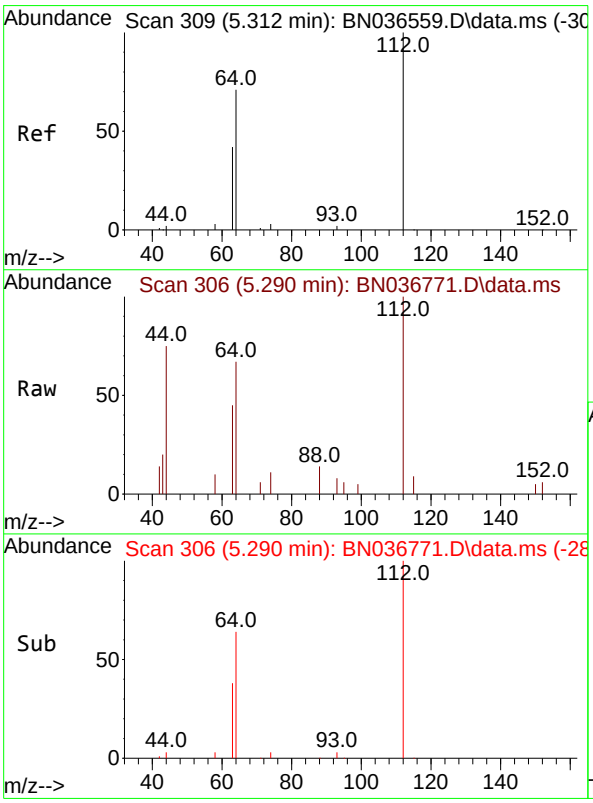
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 72.9 | 60.6 | 90.8 |
| 44 | 6.7 | 6.3 | 9.5 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations**
**APPROVED**

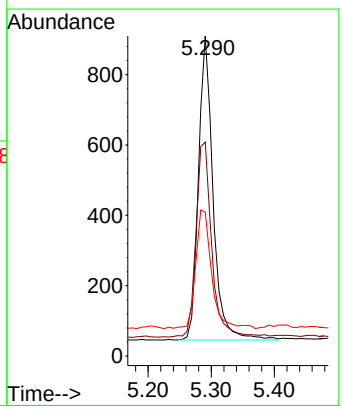
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

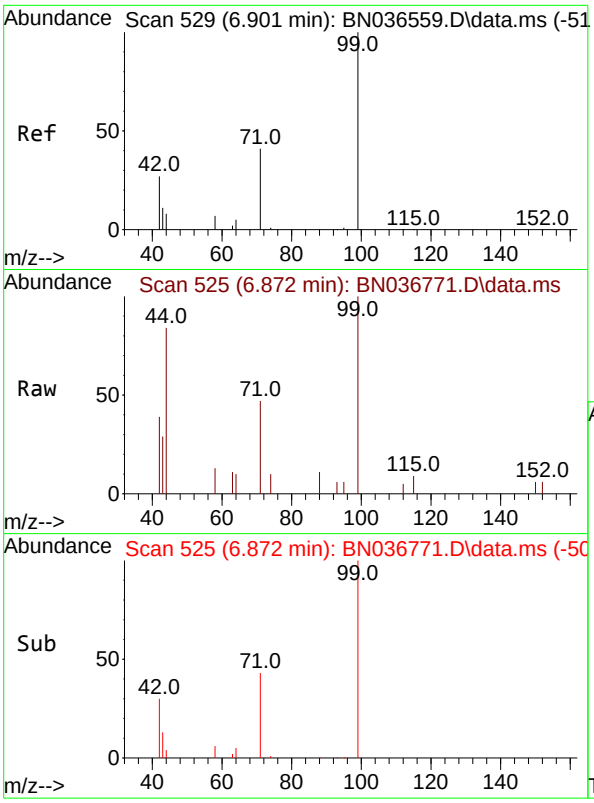



#4
2-Fluorophenol
Concen: 0.363 ng
RT: 5.290 min Scan# 306
Delta R.T. -0.022 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:112 Resp: 1384

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 69.4 | 53.1 | 79.7 |
| 63 | 42.8 | 31.8 | 47.8 |

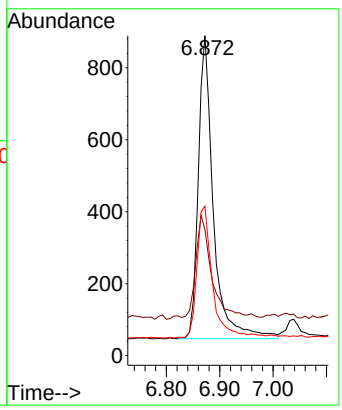





#5
Phenol-d6
Concen: 0.351 ng
RT: 6.872 min Scan# 5
Delta R.T. -0.029 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion: 99 Resp: 165

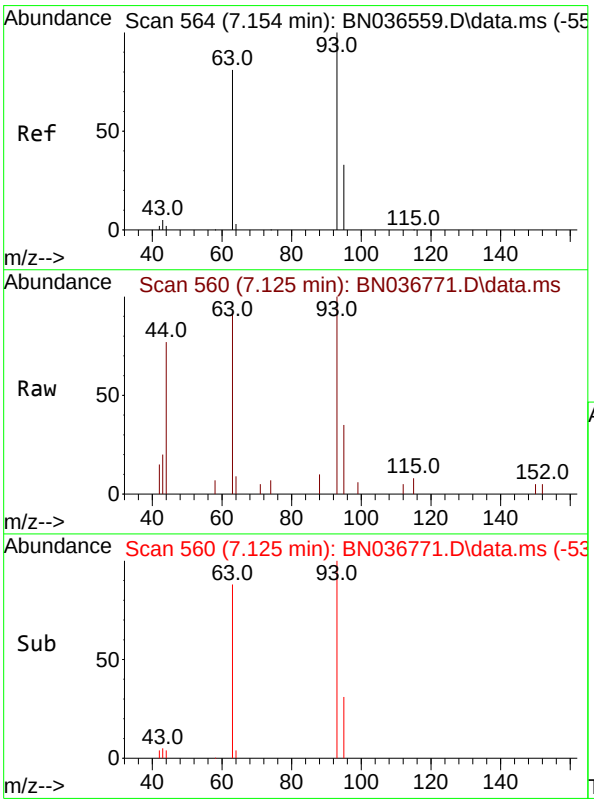
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 37.9 | 26.5 | 39.7 |
| 71 | 45.1 | 34.1 | 51.1 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations**
**APPROVED**

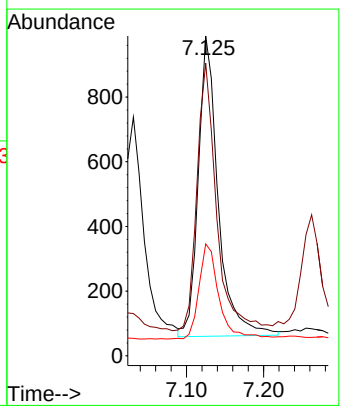
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

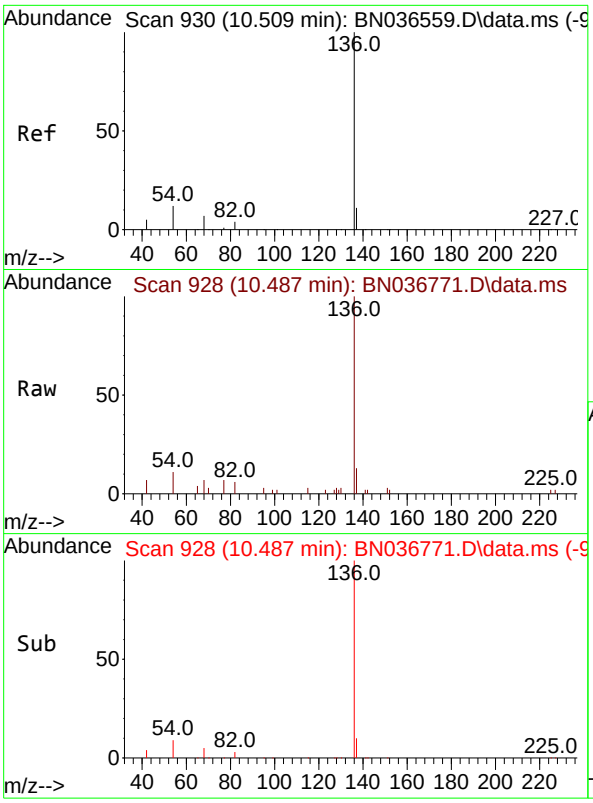



#6
bis(2-Chloroethyl)ether
Concen: 0.343 ng
RT: 7.125 min Scan# 560
Delta R.T. -0.029 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion: 93 Resp: 1671

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 87.3 | 67.7 | 101.5 |
| 95 | 31.8 | 25.6 | 38.4 |

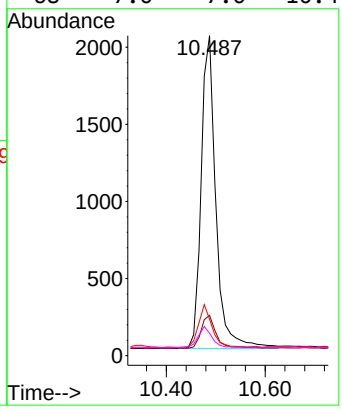





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.487 min Scan# 9
Delta R.T. -0.021 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:136 Resp: 417

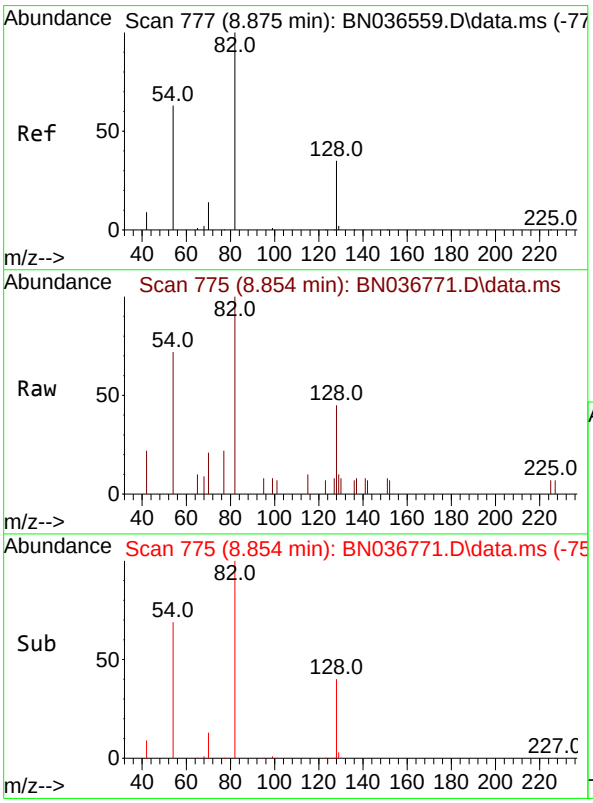
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 12.6 | 10.3 | 15.5 |
| 54 | 11.4 | 11.5 | 17.3# |
| 68 | 7.0 | 7.0 | 10.4 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations**
**APPROVED**

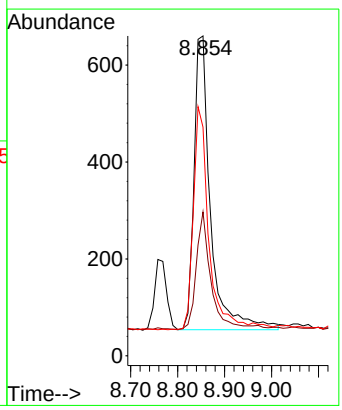
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

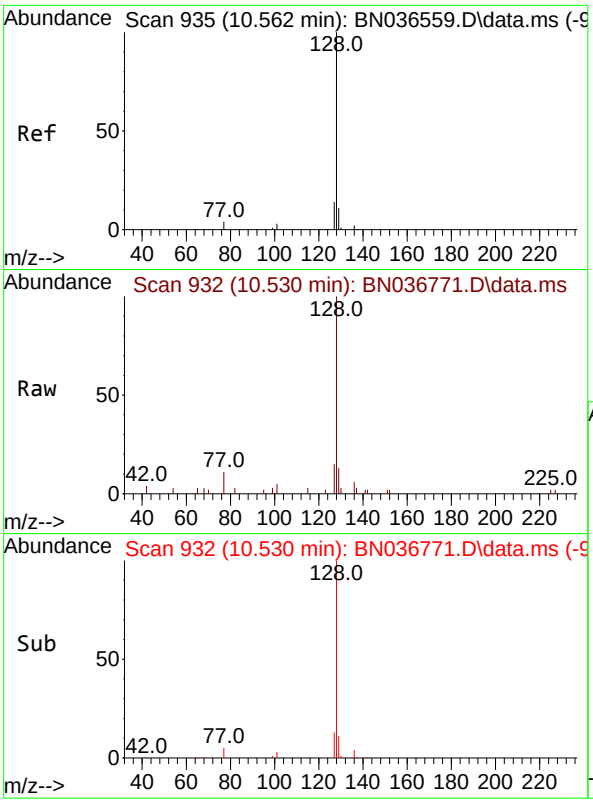



#8
Nitrobenzene-d5
Concen: 0.326 ng
RT: 8.854 min Scan# 775
Delta R.T. -0.021 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion: 82 Resp: 1480

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 45.0 | 30.6 | 45.8 |
| 54 | 71.5 | 52.2 | 78.4 |

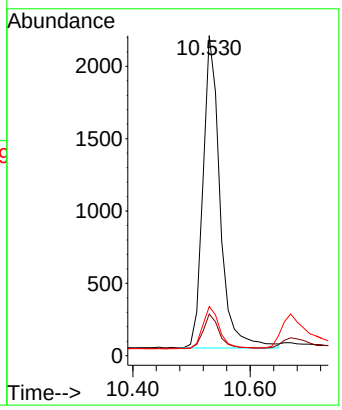





#9
Naphthalene
Concen: 0.355 ng
RT: 10.530 min Scan# 9
Delta R.T. -0.032 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:128 Resp: 435

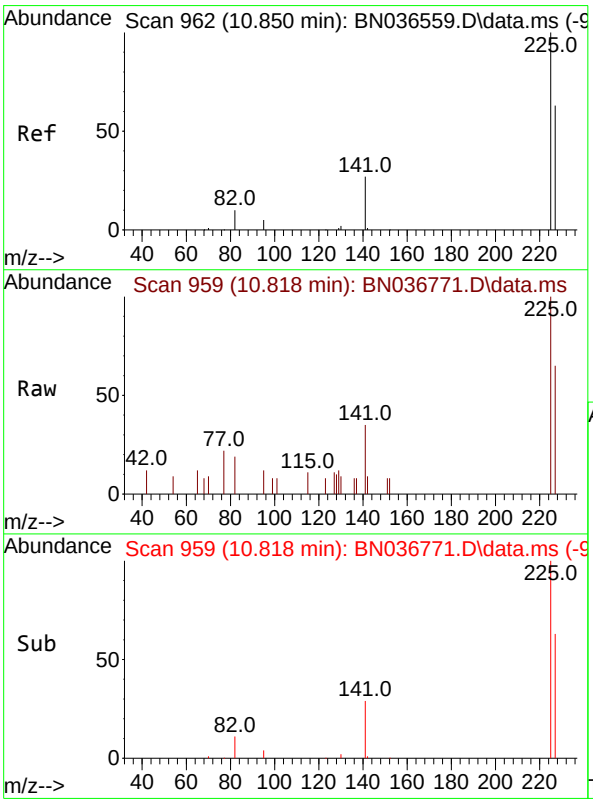
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 13.0 | 9.8 | 14.6 |
| 127 | 15.4 | 11.8 | 17.8 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations**
**APPROVED**

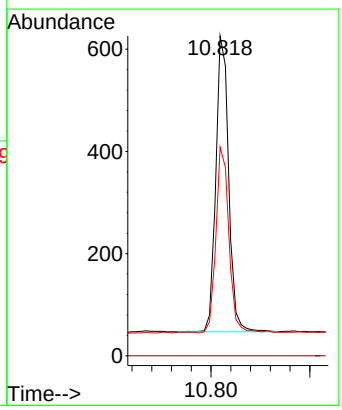
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

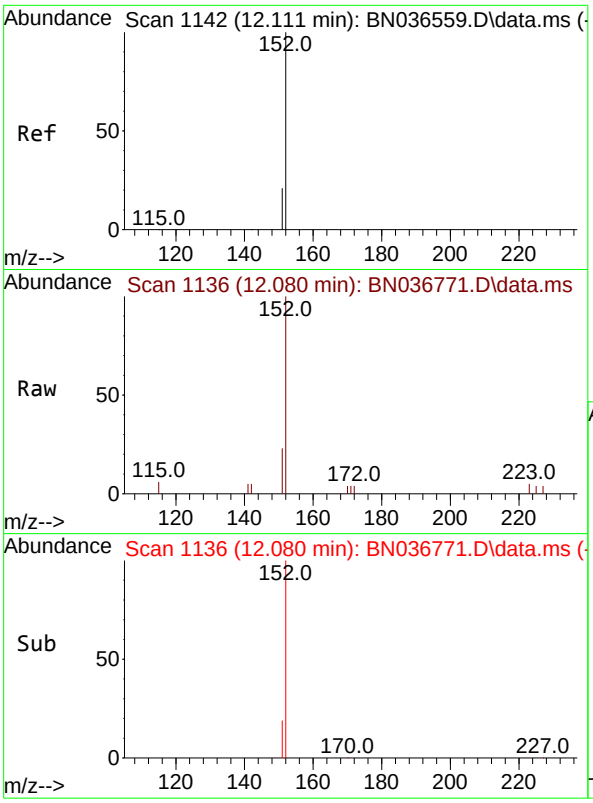



#10
Hexachlorobutadiene
Concen: 0.361 ng
RT: 10.818 min Scan# 959
Delta R.T. -0.032 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:225 Resp: 1044

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 0.0 | 0.0 | 0.0 |
| 227 | 63.8 | 51.8 | 77.8 |

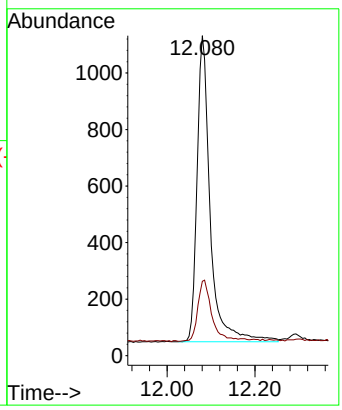





#11
2-Methylnaphthalene-d10
Concen: 0.363 ng
RT: 12.080 min Scan# 11
Delta R.T. -0.030 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:152 Resp: 225

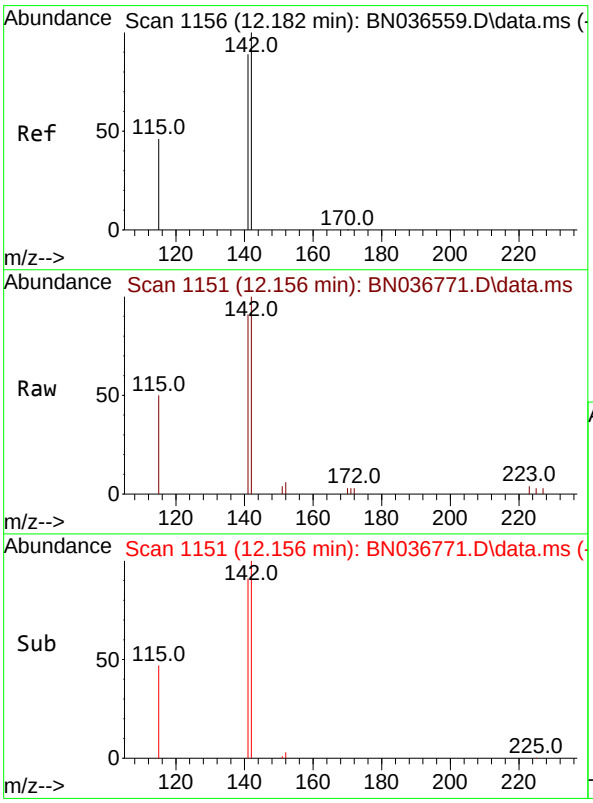
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 21.0 | 17.0 | 25.6 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations**
**APPROVED**

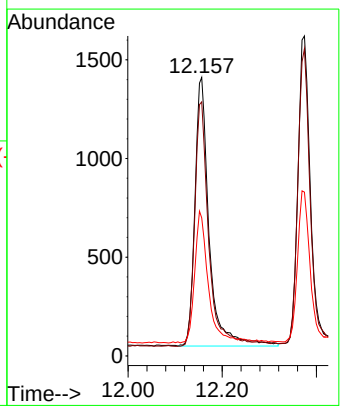
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

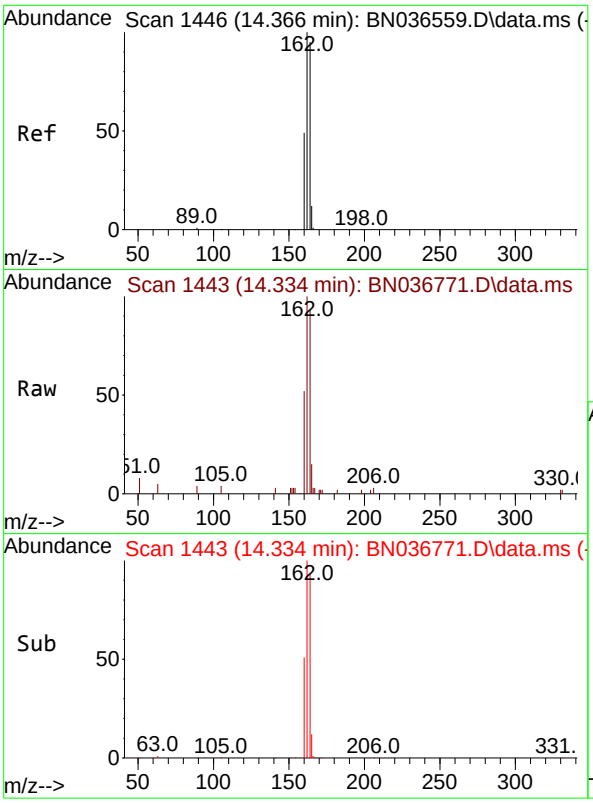



#12
2-Methylnaphthalene
Concen: 0.368 ng
RT: 12.156 min Scan# 1151
Delta R.T. -0.025 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:142 Resp: 2874

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 91.2 | 71.7 | 107.5 |
| 115 | 49.5 | 38.3 | 57.5 |

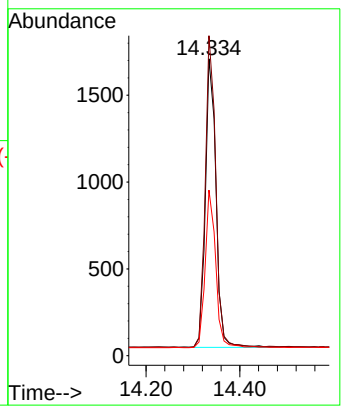





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.334 min Scan# 14
Delta R.T. -0.032 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:164 Resp: 261

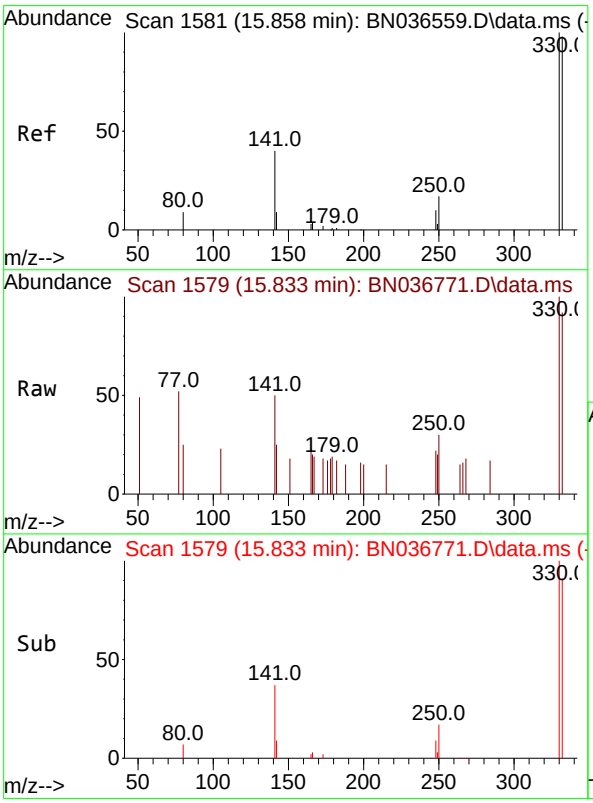
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 107.8 | 84.2 | 126.2 |
| 160 | 55.8 | 42.2 | 63.2 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations**
**APPROVED**

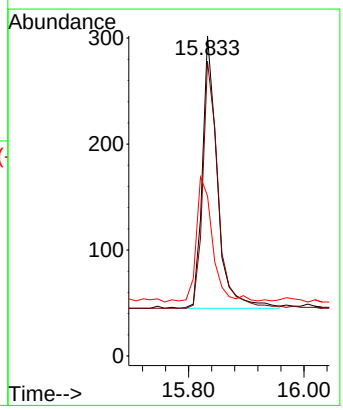
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

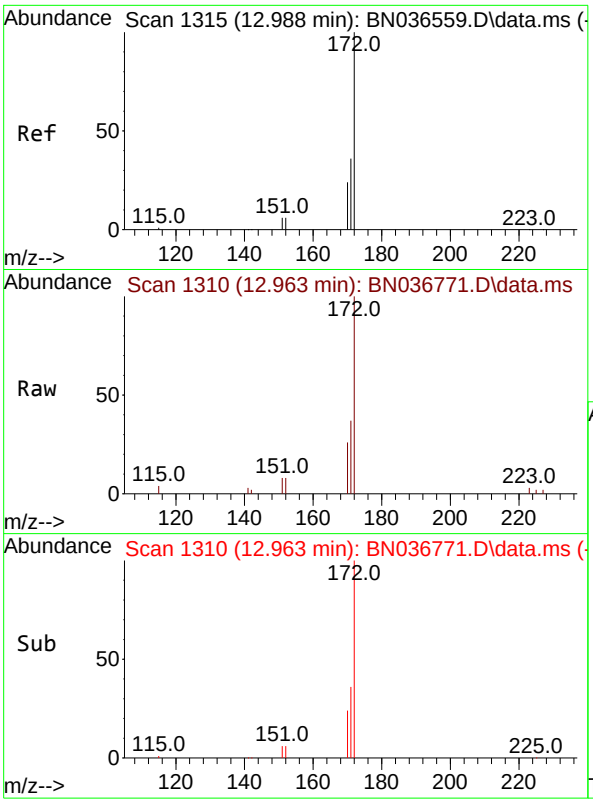



#14
2,4,6-Tribromophenol
Concen: 0.391 ng
RT: 15.833 min Scan# 1579
Delta R.T. -0.025 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:330 Resp: 464

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 93.3 | 75.2 | 112.8 |
| 141 | 49.1 | 43.4 | 65.2 |

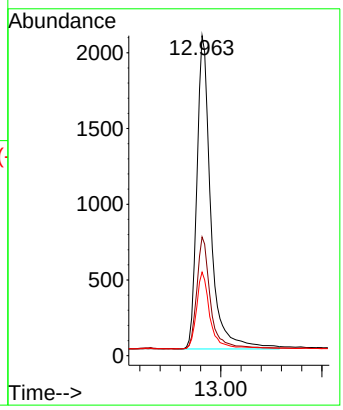





#15
2-Fluorobiphenyl
Concen: 0.347 ng
RT: 12.963 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:172 Resp: 528

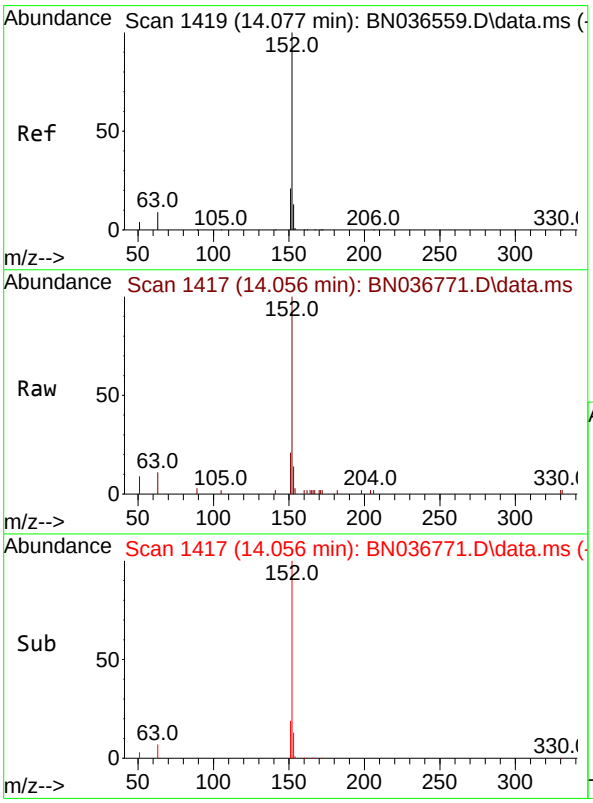
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 37.1 | 29.5 | 44.3 |
| 170 | 26.1 | 20.2 | 30.4 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations**
**APPROVED**

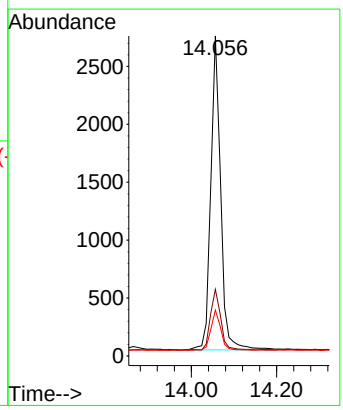
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

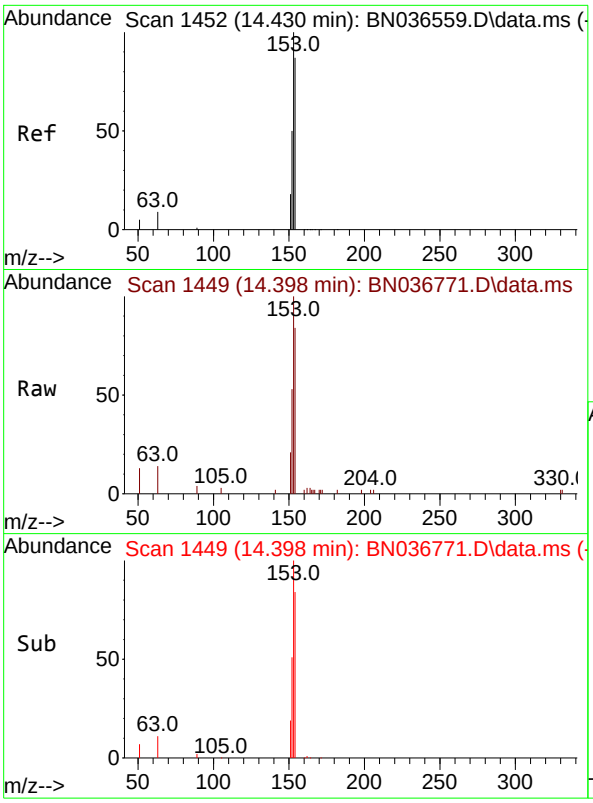



#16
Acenaphthylene
Concen: 0.353 ng
RT: 14.056 min Scan# 1417
Delta R.T. -0.021 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:152 Resp: 4358

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 19.5 | 16.2 | 24.4 |
| 153 | 13.1 | 10.6 | 15.8 |

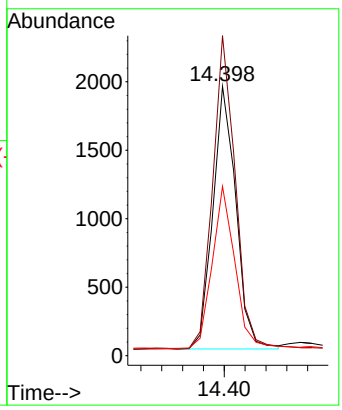





#17
Acenaphthene
Concen: 0.365 ng
RT: 14.398 min Scan# 14
Delta R.T. -0.032 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:154 Resp: 294

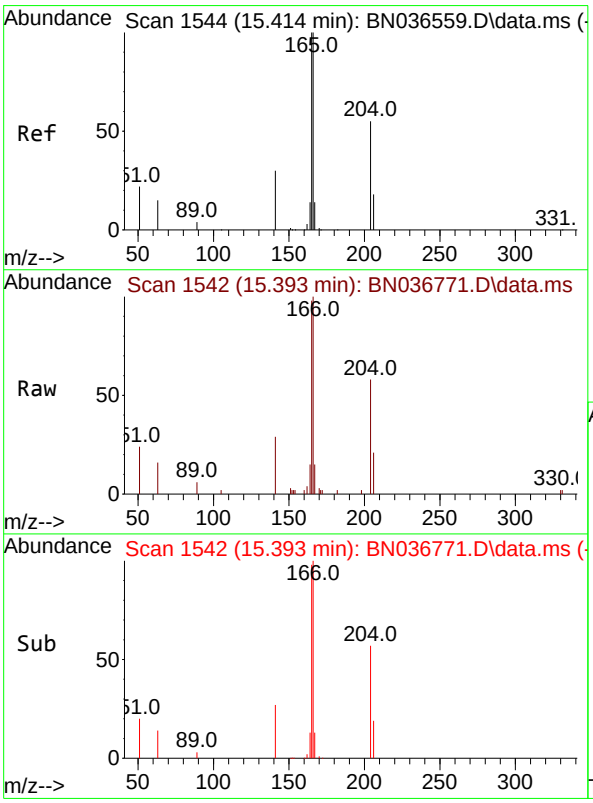
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 117.7 | 94.1 | 141.1 |
| 152 | 61.6 | 49.8 | 74.6 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations**
**APPROVED**

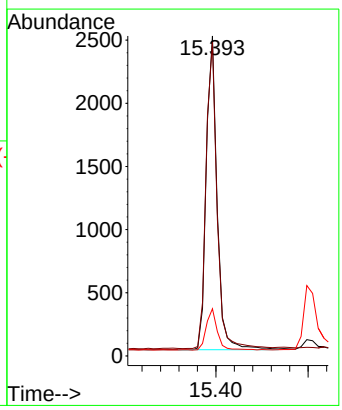
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

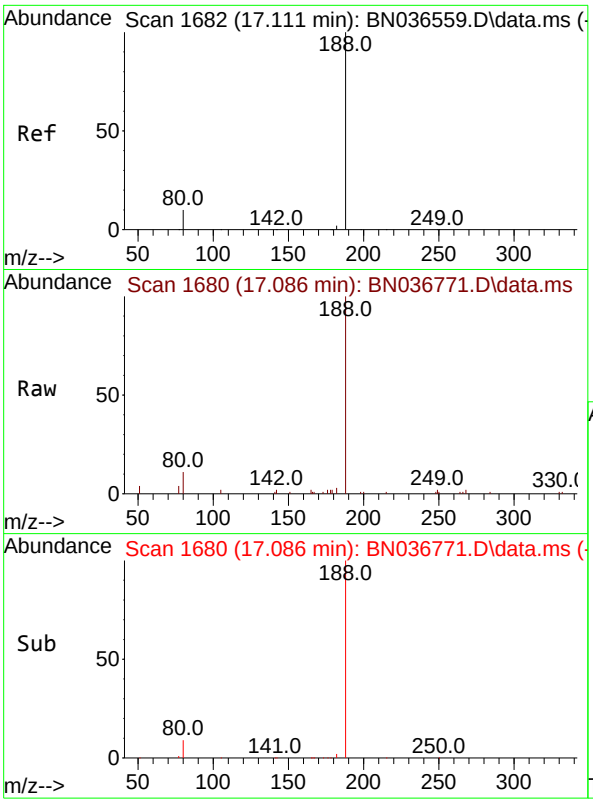



#18
Fluorene
Concen: 0.376 ng
RT: 15.393 min Scan# 1542
Delta R.T. -0.021 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:166 Resp: 4111

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 97.9 | 79.8 | 119.8 |
| 167 | 13.4 | 10.6 | 15.8 |

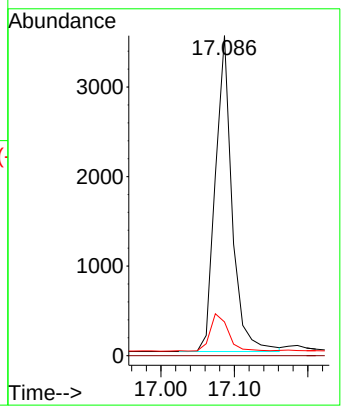





#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.086 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:188 Resp: 557

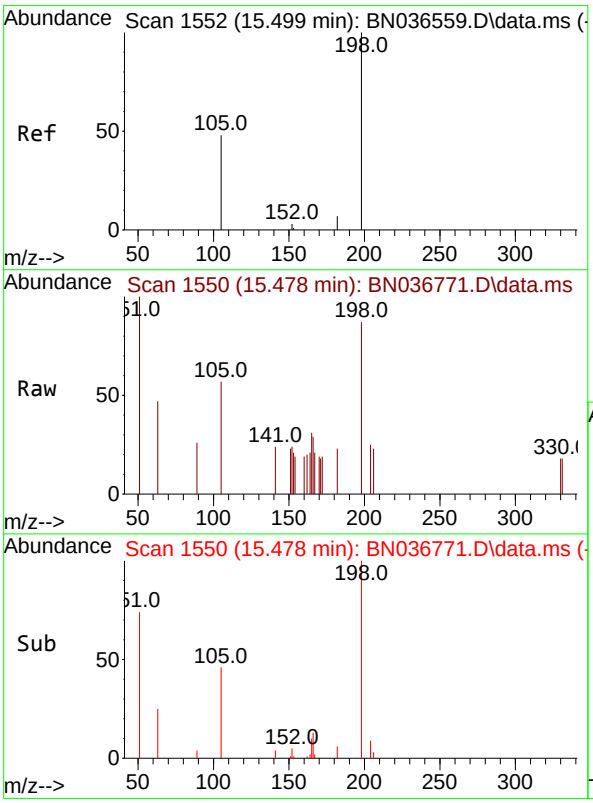
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 10.6 | 8.8 | 13.2 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations**
**APPROVED**

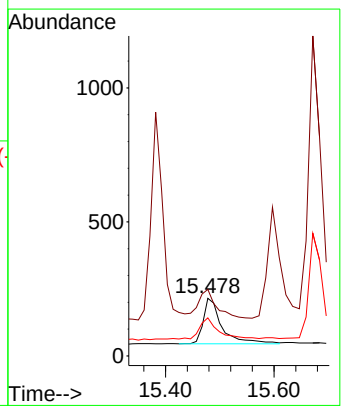
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

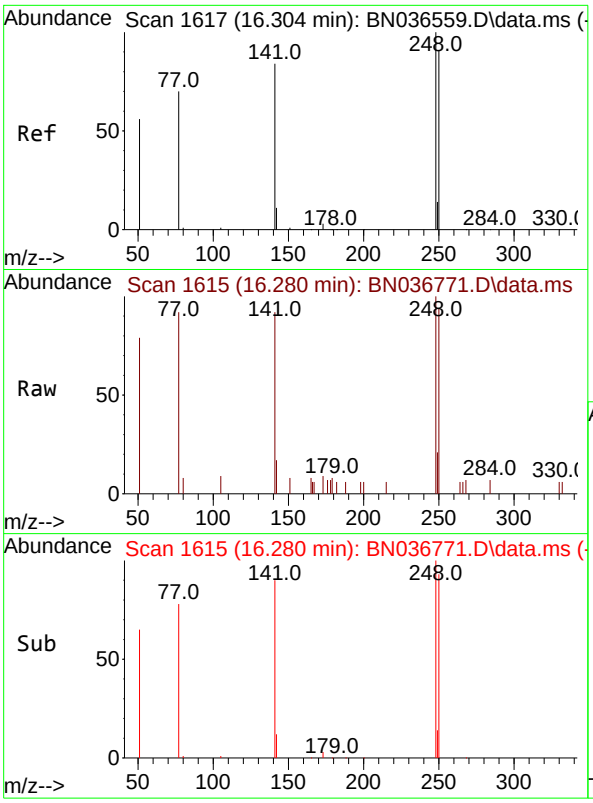



#20
4,6-Dinitro-2-methylphenol
Concen: 0.446 ng
RT: 15.478 min Scan# 1550
Delta R.T. -0.021 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:198 Resp: 428

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 198 | 100 | | |
| 51 | 115.3 | 107.9 | 161.9 |
| 105 | 66.0 | 56.2 | 84.2 |






#21
4-Bromophenyl-phenylether
Concen: 0.372 ng
RT: 16.280 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

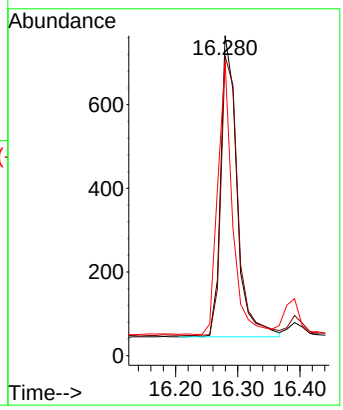
Tgt Ion:248 Resp: 130(

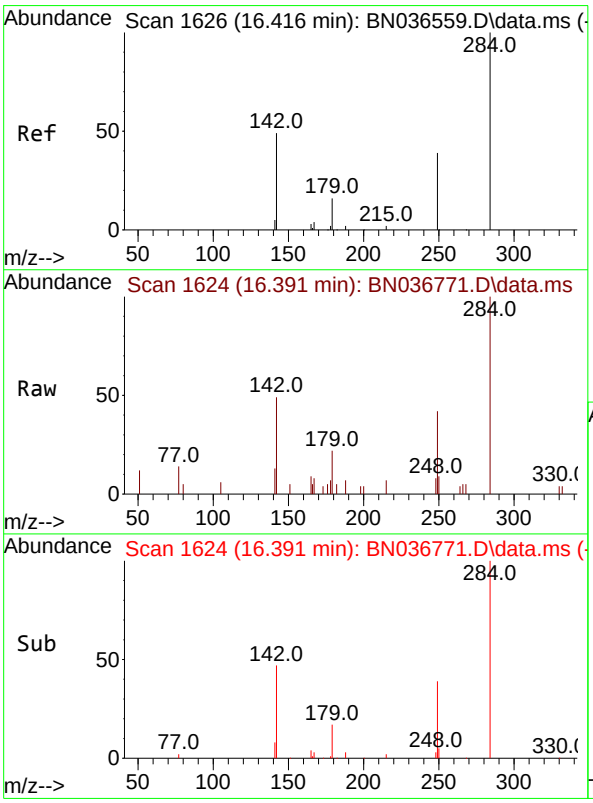
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 93.6 | 73.0 | 109.6 |
| 141 | 91.8 | 68.6 | 103.0 |

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations**
**APPROVED**

Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

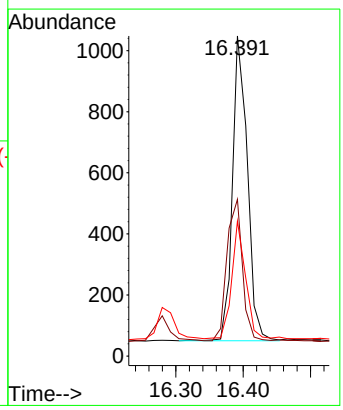


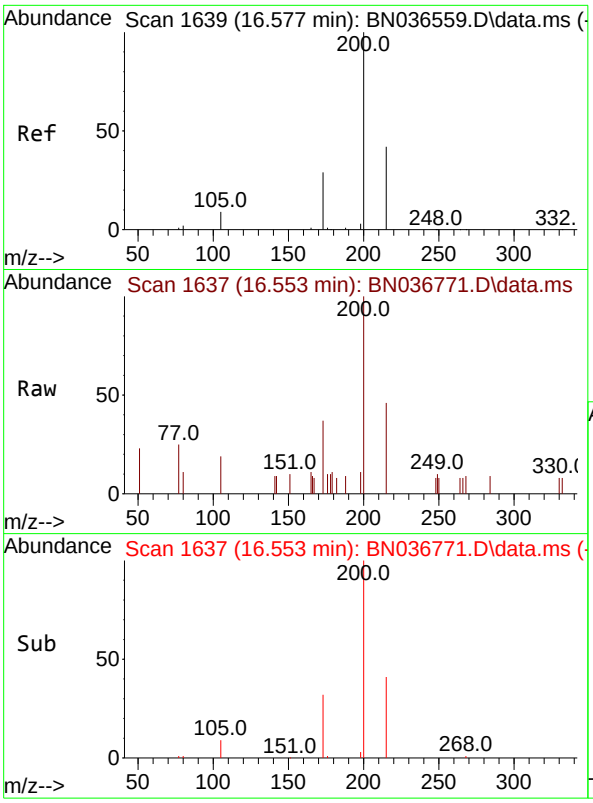




#22
Hexachlorobenzene
Concen: 0.365 ng
RT: 16.391 min Scan# 1624
Delta R.T. -0.025 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:284 Resp: 1537

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 49.5 | 37.0 | 55.4 |
| 249 | 36.2 | 28.1 | 42.1 |

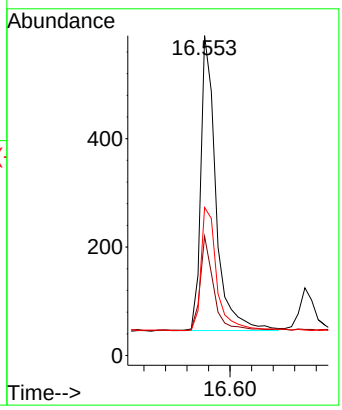





#23
Atrazine
Concen: 0.380 ng
RT: 16.553 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:200 Resp: 106

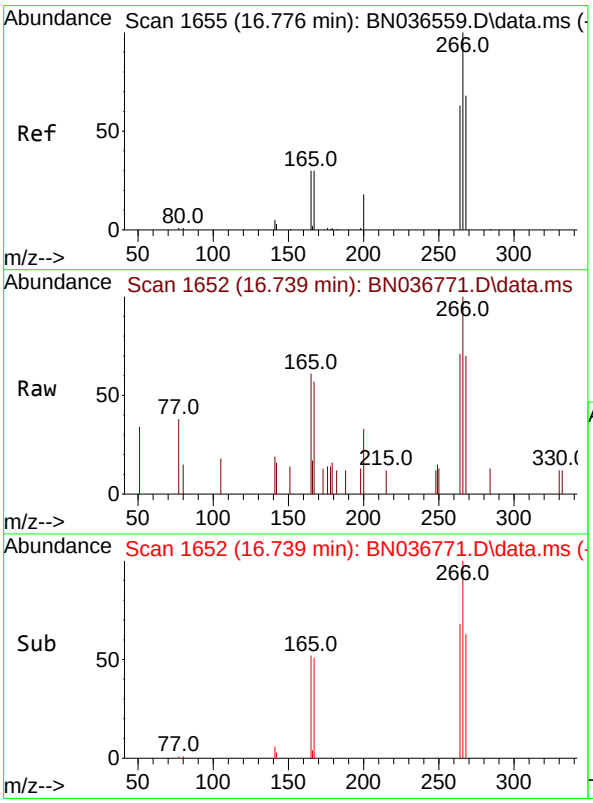
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 173 | 37.3 | 27.3 | 40.9 |
| 215 | 46.3 | 36.8 | 55.2 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations**
**APPROVED**

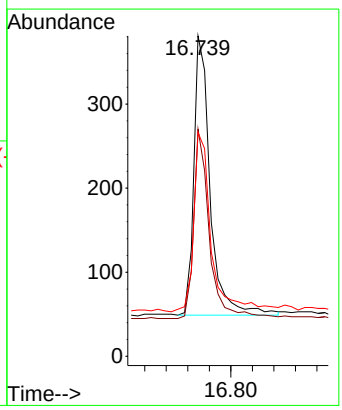
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

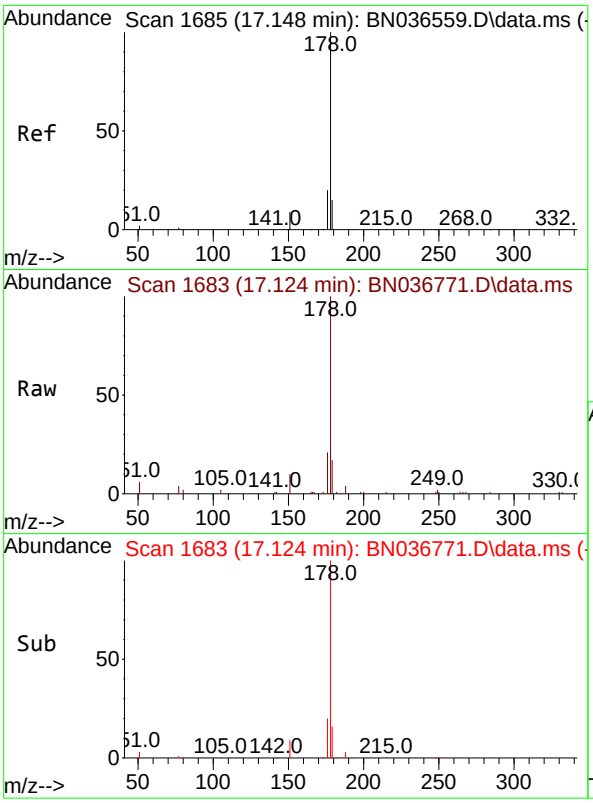



#24
Pentachlorophenol
Concen: 0.365 ng
RT: 16.739 min Scan# 1652
Delta R.T. -0.037 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:266 Resp: 702

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 264 | 64.8 | 49.6 | 74.4 |
| 268 | 69.2 | 50.9 | 76.3 |

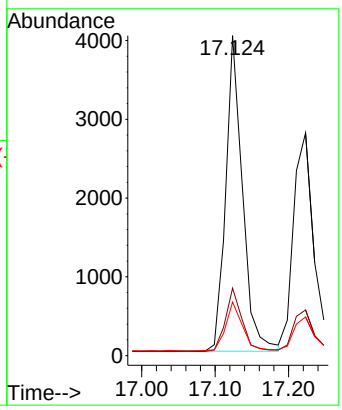





#25
Phenanthrene
Concen: 0.381 ng
RT: 17.124 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:178 Resp: 636

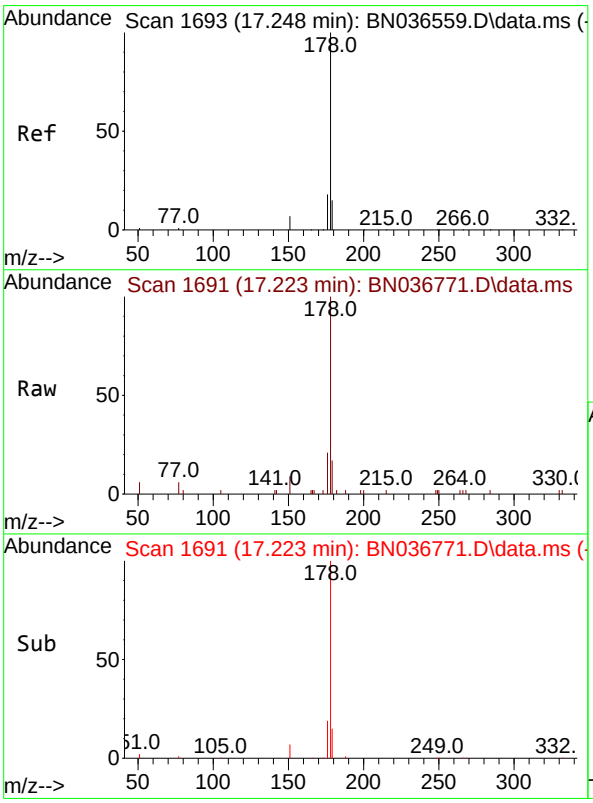
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 20.0 | 15.9 | 23.9 |
| 179 | 15.8 | 12.2 | 18.4 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations**
**APPROVED**

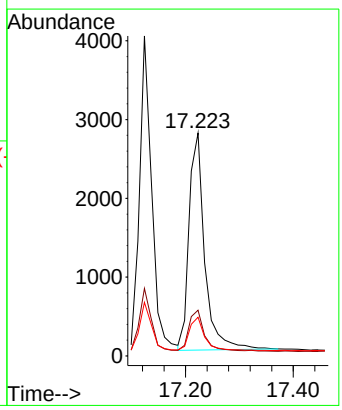
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

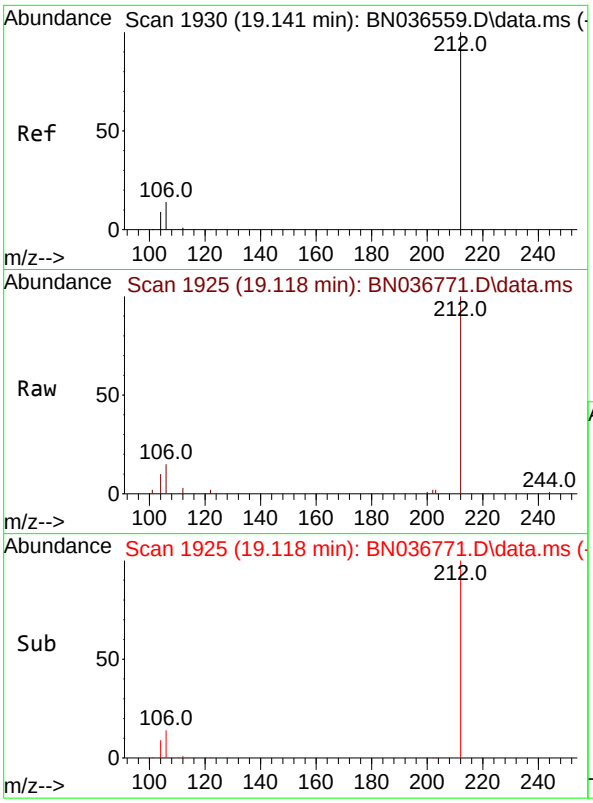



#26
Anthracene
Concen: 0.369 ng
RT: 17.223 min Scan# 1691
Delta R.T. -0.025 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:178 Resp: 5569

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.4 | 15.4 | 23.2 |
| 179 | 15.4 | 12.6 | 18.8 |

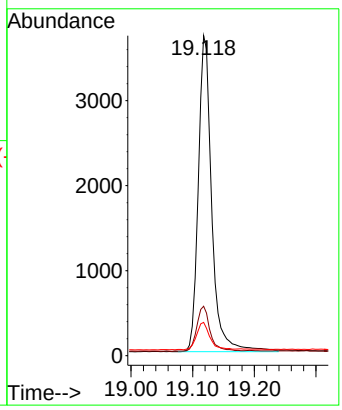





#27
Fluoranthene-d10
Concen: 0.395 ng
RT: 19.118 min Scan# 1
Delta R.T. -0.023 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:212 Resp: 563

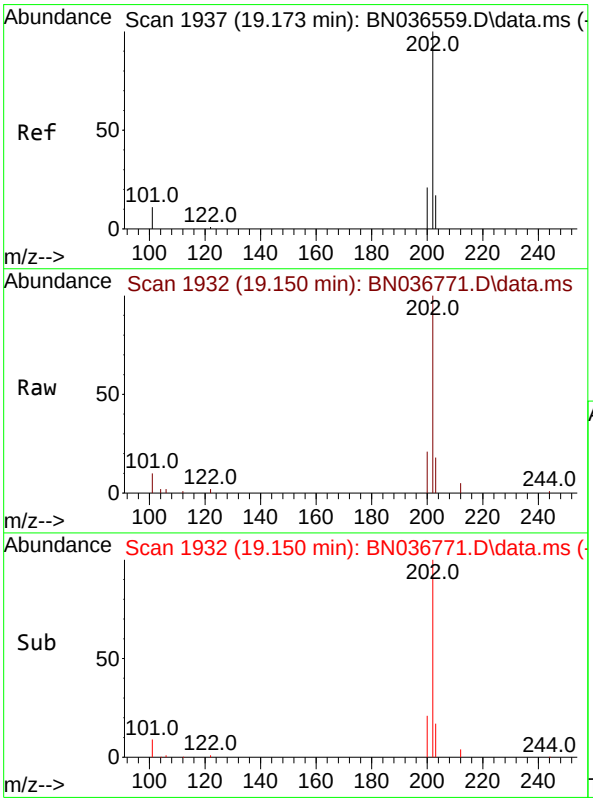
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 13.8 | 11.8 | 17.6 |
| 104 | 8.6 | 7.3 | 10.9 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations**
**APPROVED**

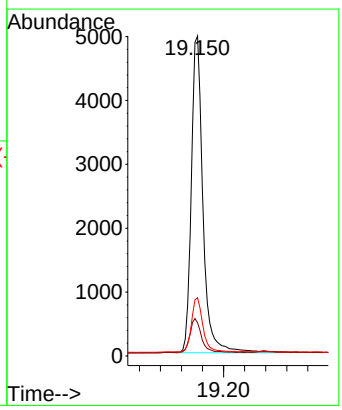
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

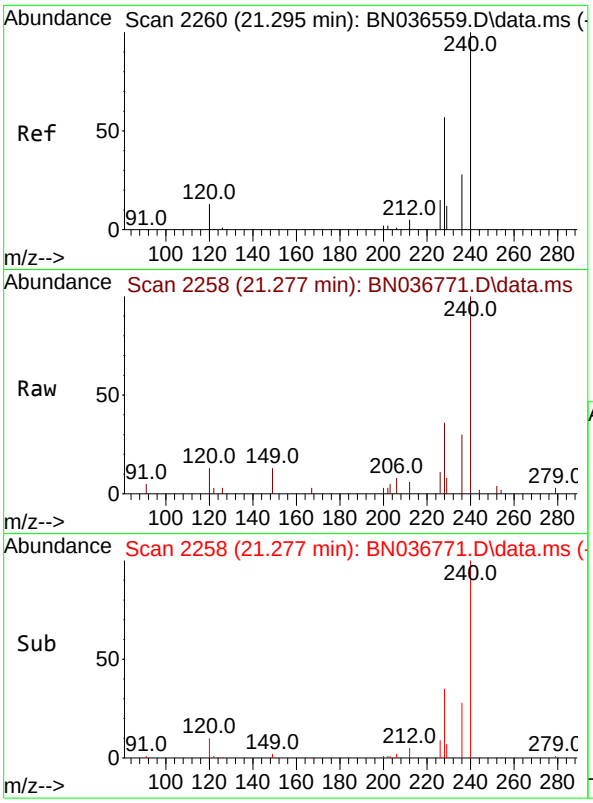



#28
Fluoranthene
Concen: 0.406 ng
RT: 19.150 min Scan# 1932
Delta R.T. -0.023 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:202 Resp: 7617

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 11.0 | 9.4 | 14.0 |
| 203 | 16.8 | 13.5 | 20.3 |

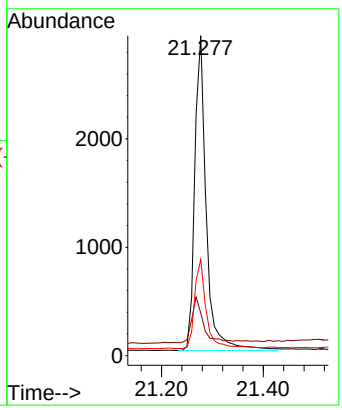





#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:240 Resp: 455

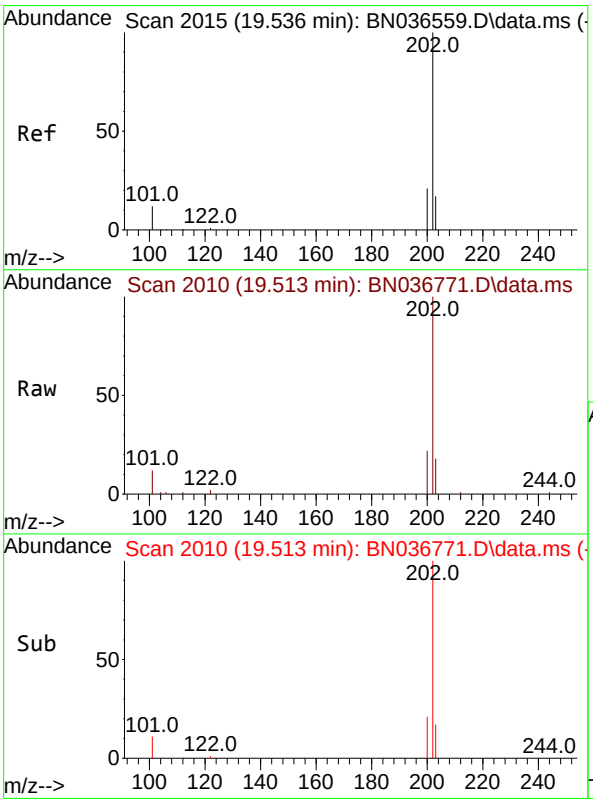
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 13.3 | 14.6 | 22.0 |
| 236 | 30.0 | 24.1 | 36.1 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations**
**APPROVED**

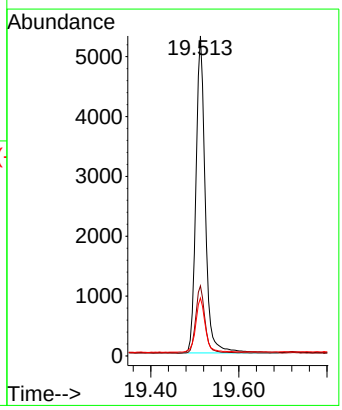
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

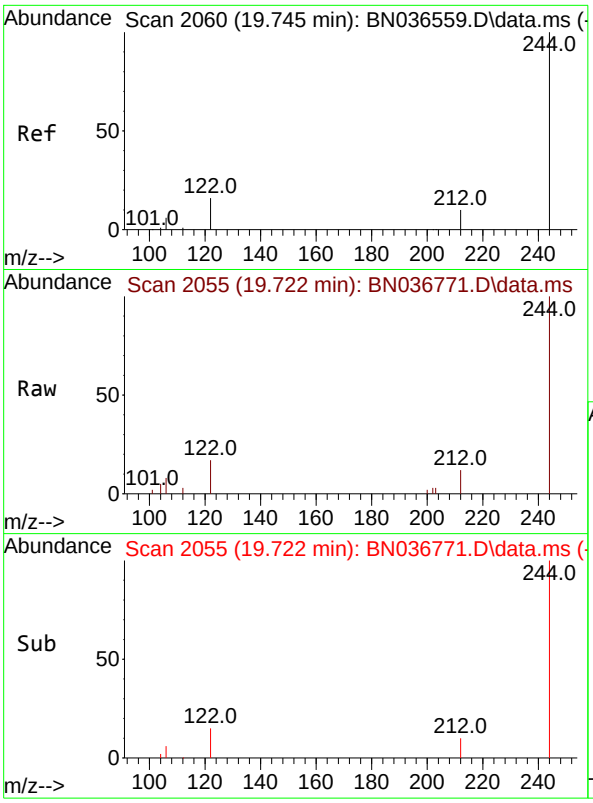



#30
Pyrene
Concen: 0.350 ng
RT: 19.513 min Scan# 2010
Delta R.T. -0.023 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:202 Resp: 7795

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.2 | 17.1 | 25.7 |
| 203 | 17.3 | 14.1 | 21.1 |

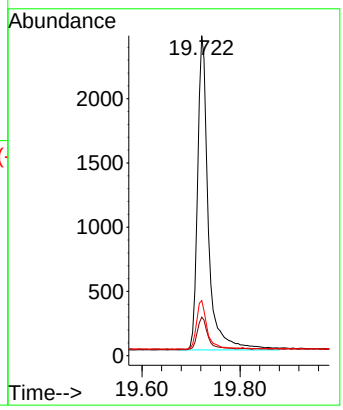





#31
Terphenyl-d14
Concen: 0.341 ng
RT: 19.722 min Scan# 2
Delta R.T. -0.023 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:244 Resp: 371

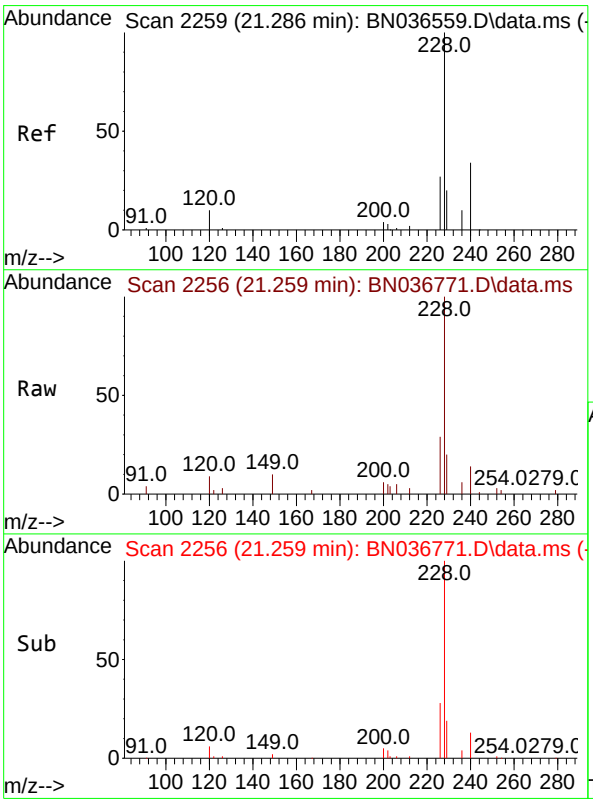
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 12.0 | 9.6 | 14.4 |
| 122 | 17.2 | 13.9 | 20.9 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations**
**APPROVED**

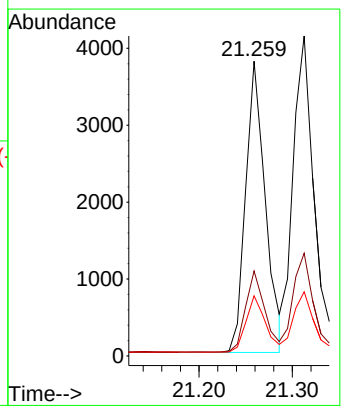
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

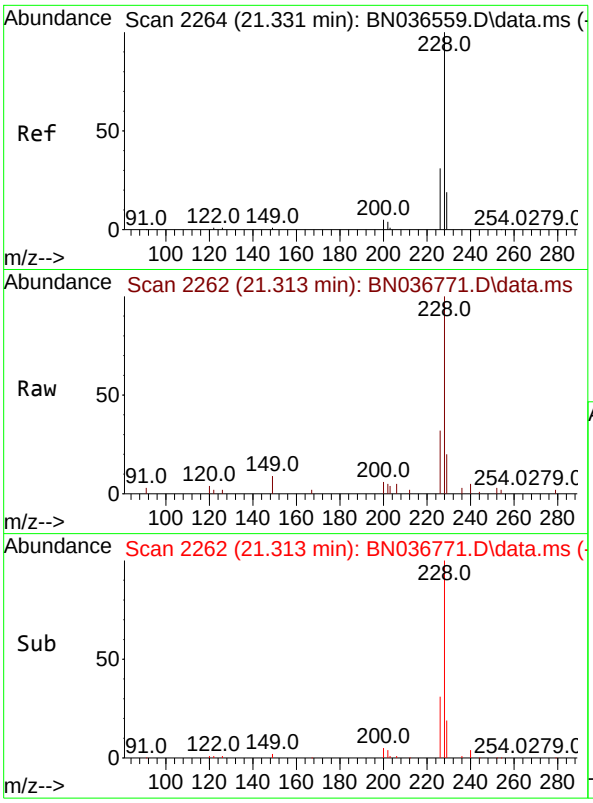



#32
Benzo(a)anthracene
Concen: 0.351 ng
RT: 21.259 min Scan# 2256
Delta R.T. -0.027 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:228 Resp: 5566

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 28.8 | 22.5 | 33.7 |
| 229 | 20.4 | 16.6 | 25.0 |

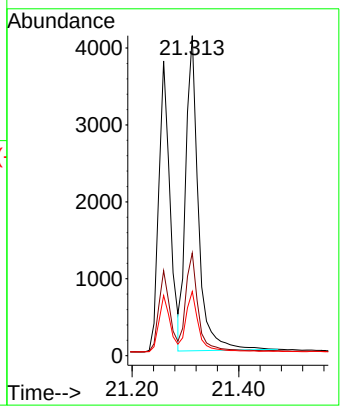





#33
Chrysene
Concen: 0.389 ng
RT: 21.313 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:228 Resp: 672

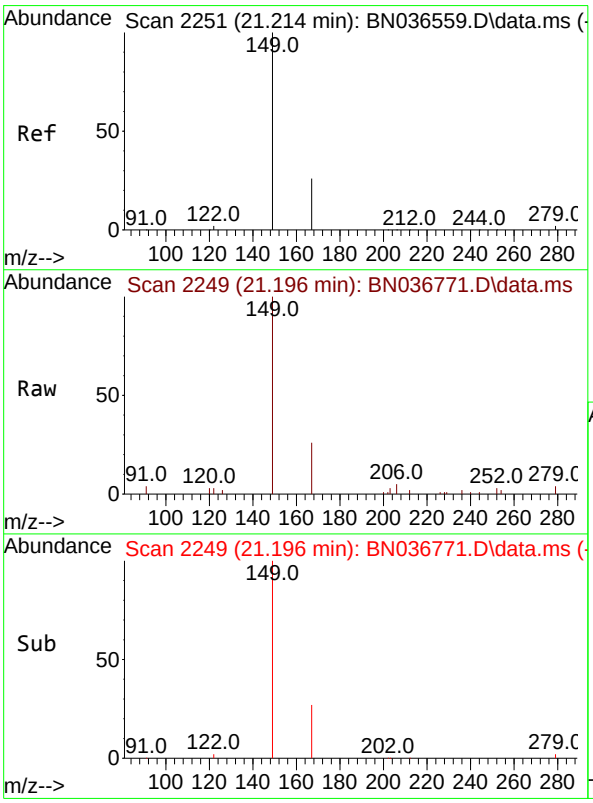
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 32.1 | 25.3 | 37.9 |
| 229 | 20.0 | 15.8 | 23.8 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations**
**APPROVED**

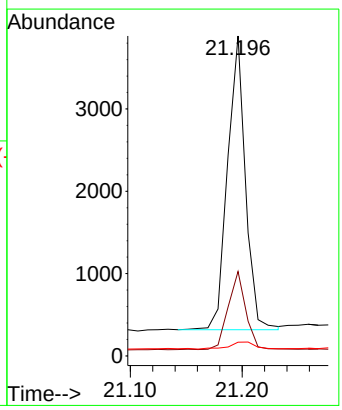
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

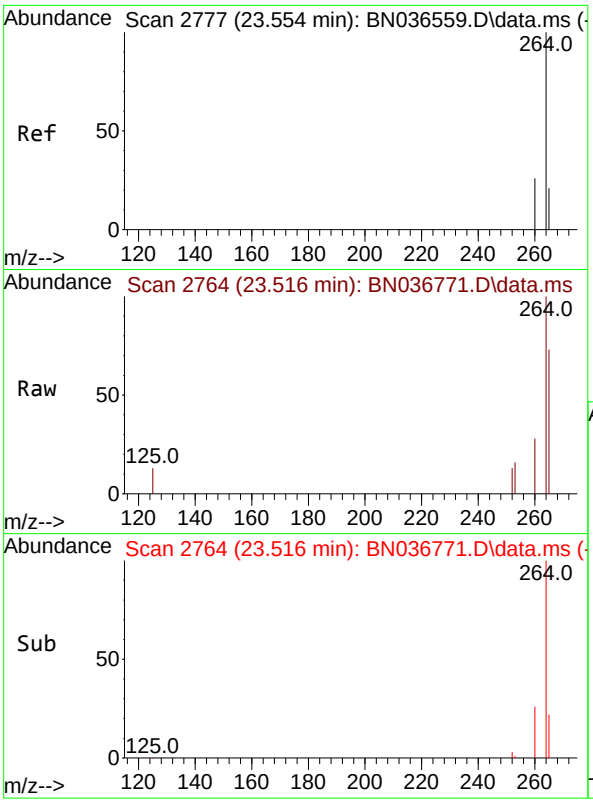



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.352 ng
RT: 21.196 min Scan# 2249
Delta R.T. -0.018 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:149 Resp: 3968

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 26.1 | 20.7 | 31.1 |
| 279 | 3.3 | 3.6 | 5.4# |

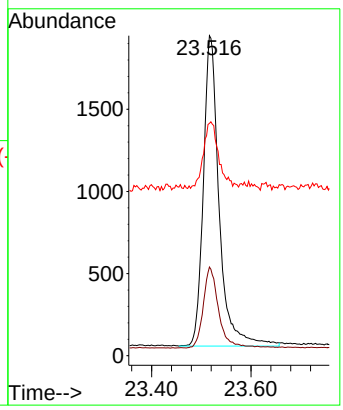





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.516 min Scan# 2
Delta R.T. -0.038 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:264 Resp: 416

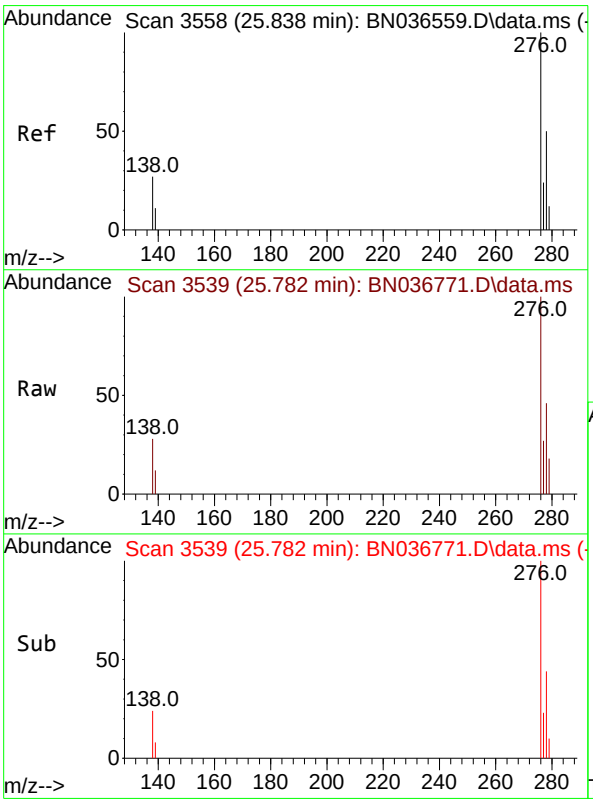
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 27.7 | 22.6 | 33.8 |
| 265 | 72.6 | 88.1 | 132.1# |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations**
**APPROVED**

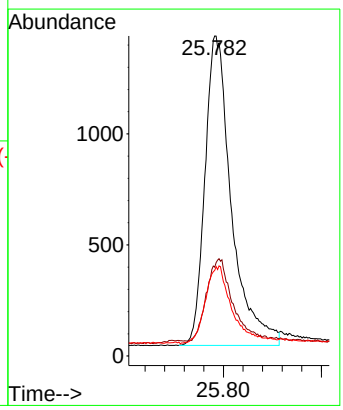
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

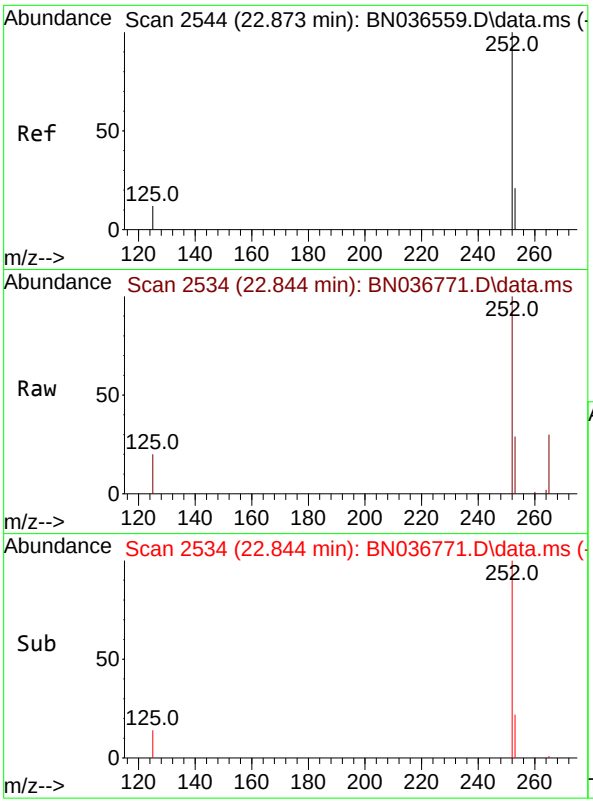



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.348 ng
RT: 25.782 min Scan# 3539
Delta R.T. -0.055 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:276 Resp: 5233

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 25.8 | 23.4 | 35.2 |
| 277 | 25.2 | 20.0 | 30.0 |

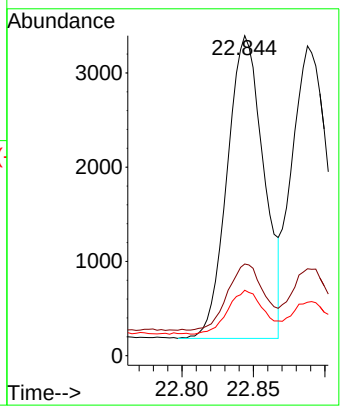





#37
Benzo(b)fluoranthene
Concen: 0.377 ng
RT: 22.844 min Scan# 2
Delta R.T. -0.029 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:252 Resp: 572

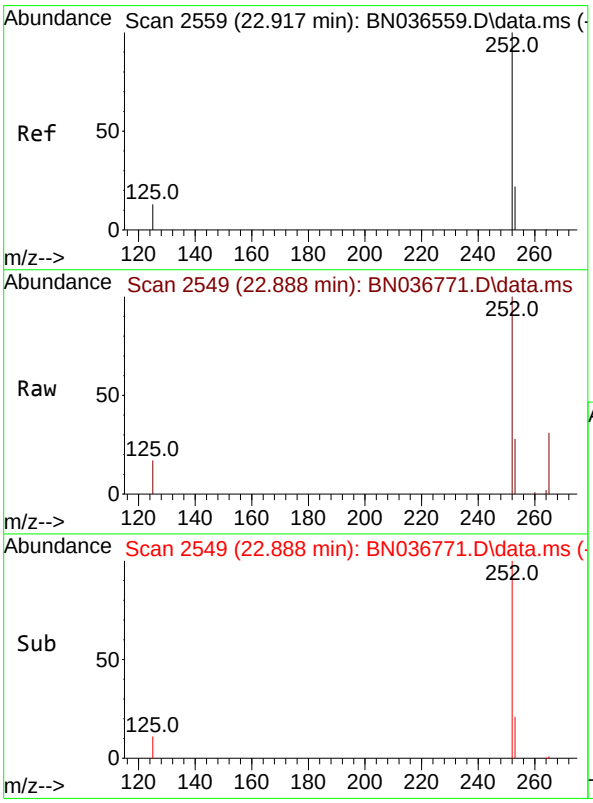
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 28.6 | 23.9 | 35.9 |
| 125 | 20.5 | 17.4 | 26.2 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations**
**APPROVED**

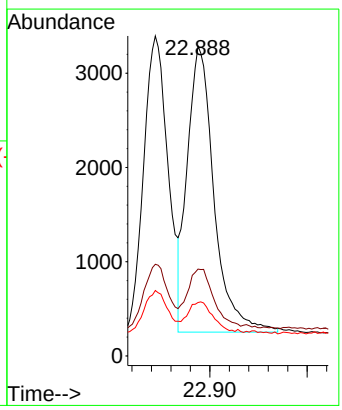
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

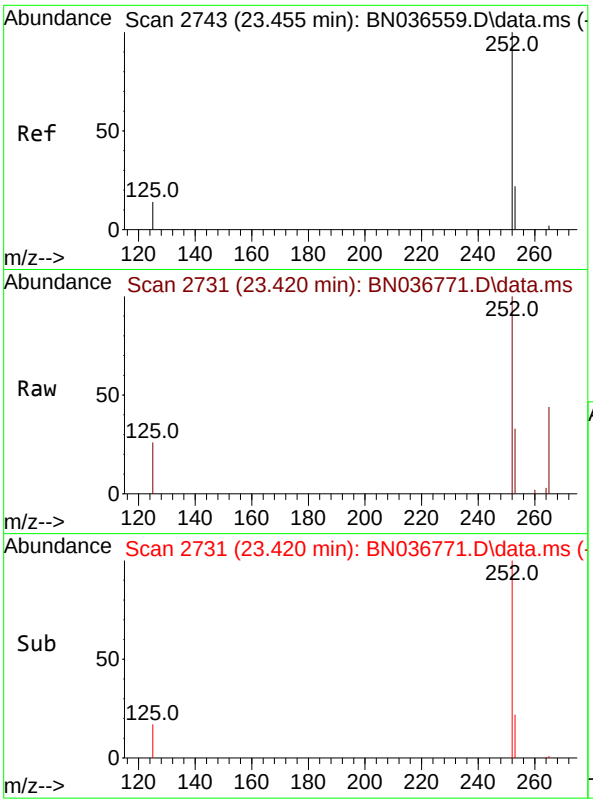



#38
Benzo(k)fluoranthene
Concen: 0.364 ng m
RT: 22.888 min Scan# 2549
Delta R.T. -0.029 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:252 Resp: 5791

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 28.0 | 24.6 | 36.8 |
| 125 | 17.2 | 17.8 | 26.8# |

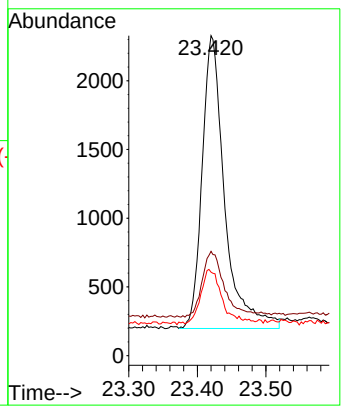





#39
Benzo(a)pyrene
Concen: 0.381 ng
RT: 23.420 min Scan# 2
Delta R.T. -0.035 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:252 Resp: 486

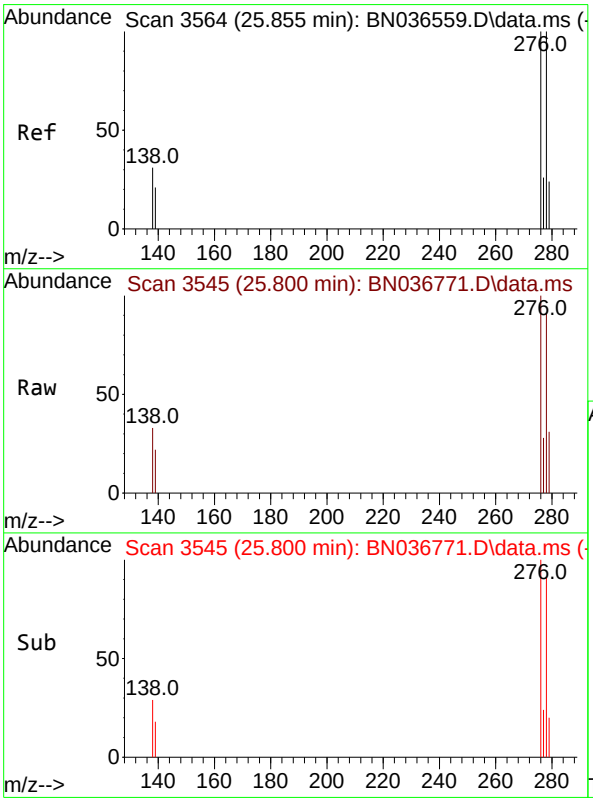
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 32.6 | 27.8 | 41.8 |
| 125 | 26.1 | 22.7 | 34.1 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations**
**APPROVED**

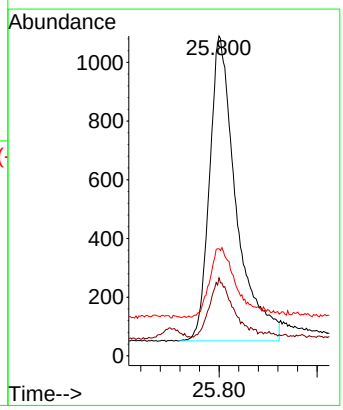
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

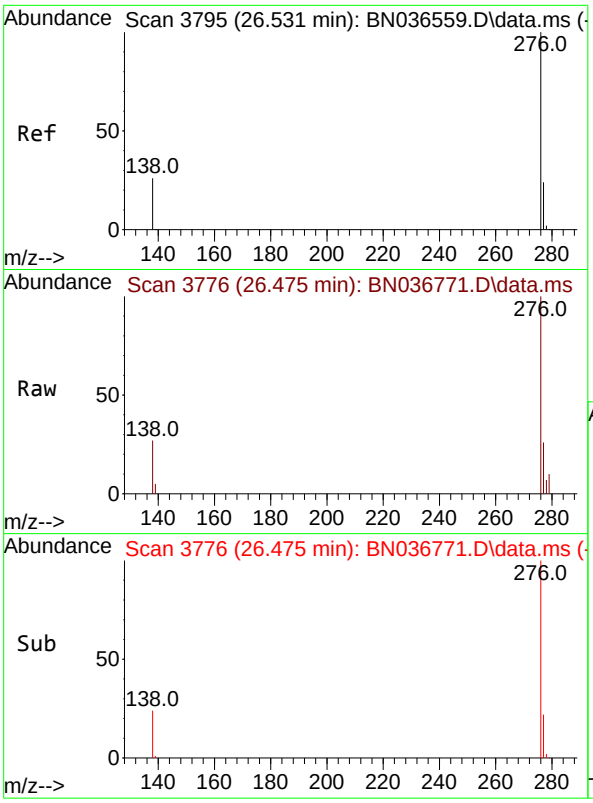



#40
Dibenzo(a,h)anthracene
Concen: 0.334 ng
RT: 25.800 min Scan# 3545
Delta R.T. -0.055 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:278 Resp: 3914

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 24.4 | 20.8 | 31.2 |
| 279 | 33.5 | 28.8 | 43.2 |

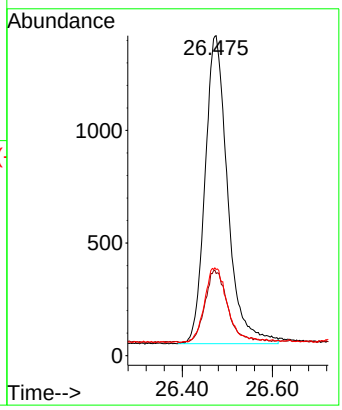





#41
Benzo(g,h,i)perylene
Concen: 0.355 ng
RT: 26.475 min Scan# 3
Delta R.T. -0.055 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:276 Resp: 475

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 25.7 | 22.2 | 33.4 |
| 138 | 27.0 | 24.1 | 36.1 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations**
**APPROVED**

Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036771.D
Acq On : 28 Mar 2025 13:58
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
BNA_N
**LabSampleId :**
SSTDCCC0.4

Quant Time: Mar 28 14:23:03 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
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 | 74 | -0.03 |
| 2 | | 1,4-Dioxane | 0.444 | 0.460 | -3.6 | 68 | -0.01 |
| 3 | | n-Nitrosodimethylamine | 0.898 | 0.870 | 3.1 | 69 | -0.01 |
| 4 | S | 2-Fluorophenol | 0.932 | 0.846 | 9.2 | 64 | -0.02 |
| 5 | S | Phenol-d6 | 1.152 | 1.010 | 12.3 | 66 | -0.03 |
| 6 | | bis(2-Chloroethyl)ether | 1.190 | 1.021 | 14.2 | 64 | -0.03 |
| 7 | I | Naphthalene-d8 | 1.000 | 1.000 | 0.0 | 82 | -0.02 |
| 8 | S | Nitrobenzene-d5 | 0.435 | 0.354 | 18.6 | 70 | -0.02 |
| 9 | | Naphthalene | 1.177 | 1.044 | 11.3 | 71 | -0.03 |
| 10 | | Hexachlorobutadiene | 0.277 | 0.250 | 9.7 | 70 | -0.03 |
| 11 | SURR | 2-Methylnaphthalene-d10 | 0.595 | 0.540 | 9.2 | 73 | -0.03 |
| 12 | | 2-Methylnaphthalene | 0.749 | 0.688 | 8.1 | 74 | -0.03 |
| 13 | I | Acenaphthene-d10 | 1.000 | 1.000 | 0.0 | 86 | -0.03 |
| 14 | S | 2,4,6-Tribromophenol | 0.182 | 0.177 | 2.7 | 82 | -0.02 |
| 15 | S | 2-Fluorobiphenyl | 2.327 | 2.021 | 13.1 | 73 | -0.03 |
| 16 | | Acenaphthylene | 1.888 | 1.667 | 11.7 | 74 | -0.02 |
| 17 | | Acenaphthene | 1.236 | 1.127 | 8.8 | 76 | -0.03 |
| 18 | | Fluorene | 1.672 | 1.572 | 6.0 | 77 | -0.02 |
| 19 | I | Phenanthrene-d10 | 1.000 | 1.000 | 0.0 | 93 | -0.02 |
| 20 | | 4,6-Dinitro-2-methylphenol | 0.086 | 0.077 | 10.5 | 93 | -0.02 |
| 21 | | 4-Bromophenyl-phenylether | 0.251 | 0.233 | 7.2 | 79 | -0.02 |
| 22 | | Hexachlorobenzene | 0.303 | 0.276 | 8.9 | 76 | -0.02 |
| 23 | | Atrazine | 0.201 | 0.191 | 5.0 | 83 | -0.02 |
| 24 | | Pentachlorophenol | 0.138 | 0.126 | 8.7 | 86 | -0.04 |
| 25 | | Phenanthrene | 1.200 | 1.143 | 4.7 | 82 | -0.02 |
| 26 | | Anthracene | 1.083 | 1.000 | 7.7 | 81 | -0.02 |
| 27 | SURR | Fluoranthene-d10 | 1.025 | 1.012 | 1.3 | 84 | -0.02 |
| 28 | | Fluoranthene | 1.348 | 1.367 | -1.4 | 87 | -0.02 |
| 29 | I | Chrysene-d12 | 1.000 | 1.000 | 0.0 | 111 | -0.02 |
| 30 | | Pyrene | 1.956 | 1.711 | 12.5 | 89 | -0.02 |
| 31 | S | Terphenyl-d14 | 0.958 | 0.816 | 14.8 | 88 | -0.02 |
| 32 | | Benzo(a)anthracene | 1.391 | 1.222 | 12.1 | 94 | -0.03 |
| 33 | | Chrysene | 1.520 | 1.477 | 2.8 | 102 | -0.02 |
| 34 | | Bis(2-ethylhexyl)phthalate | 0.990 | 0.871 | 12.0 | 92 | -0.02 |
| 35 | I | Perylene-d12 | 1.000 | 1.000 | 0.0 | 118 | -0.04 |
| 36 | | Indeno(1,2,3-cd)pyrene | 1.444 | 1.256 | 13.0 | 96 | -0.06 |
| 37 | | Benzo(b)fluoranthene | 1.456 | 1.373 | 5.7 | 104 | -0.03 |
| 38 | | Benzo(k)fluoranthene | 1.527 | 1.390 | 9.0 | 101 | -0.03 |
| 39 | C | Benzo(a)pyrene | 1.226 | 1.168 | 4.7 | 106 | -0.03 |
| 40 | | Dibenzo(a,h)anthracene | 1.124 | 0.939 | 16.5 | 95 | -0.06 |
| 41 | | Benzo(g,h,i)perylene | 1.286 | 1.142 | 11.2 | 97 | -0.06 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036771.D
Acq On : 28 Mar 2025 13:58
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
BNA_N
**LabSampleId :**
SSTDCCC0.4

Quant Time: Mar 28 14:23:03 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
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 | 74 | -0.03 |
| 2 | | 1,4-Dioxane | 0.400 | 0.414 | -3.5 | 68 | -0.01 |
| 3 | | n-Nitrosodimethylamine | 0.400 | 0.388 | 3.0 | 69 | -0.01 |
| 4 | S | 2-Fluorophenol | 0.400 | 0.363 | 9.3 | 64 | -0.02 |
| 5 | S | Phenol-d6 | 0.400 | 0.351 | 12.3 | 66 | -0.03 |
| 6 | | bis(2-Chloroethyl)ether | 0.400 | 0.343 | 14.2 | 64 | -0.03 |
| 7 | I | Naphthalene-d8 | 0.400 | 0.400 | 0.0 | 82 | -0.02 |
| 8 | S | Nitrobenzene-d5 | 0.400 | 0.326 | 18.5 | 70 | -0.02 |
| 9 | | Naphthalene | 0.400 | 0.355 | 11.3 | 71 | -0.03 |
| 10 | | Hexachlorobutadiene | 0.400 | 0.361 | 9.8 | 70 | -0.03 |
| 11 | SURR | 2-Methylnaphthalene-d10 | 0.400 | 0.363 | 9.3 | 73 | -0.03 |
| 12 | | 2-Methylnaphthalene | 0.400 | 0.368 | 8.0 | 74 | -0.03 |
| 13 | I | Acenaphthene-d10 | 0.400 | 0.400 | 0.0 | 86 | -0.03 |
| 14 | S | 2,4,6-Tribromophenol | 0.400 | 0.391 | 2.3 | 82 | -0.02 |
| 15 | S | 2-Fluorobiphenyl | 0.400 | 0.347 | 13.3 | 73 | -0.03 |
| 16 | | Acenaphthylene | 0.400 | 0.353 | 11.8 | 74 | -0.02 |
| 17 | | Acenaphthene | 0.400 | 0.365 | 8.8 | 76 | -0.03 |
| 18 | | Fluorene | 0.400 | 0.376 | 6.0 | 77 | -0.02 |
| 19 | I | Phenanthrene-d10 | 0.400 | 0.400 | 0.0 | 93 | -0.02 |
| 20 | | 4,6-Dinitro-2-methylphenol | 0.400 | 0.446 | -11.5 | 93 | -0.02 |
| 21 | | 4-Bromophenyl-phenylether | 0.400 | 0.372 | 7.0 | 79 | -0.02 |
| 22 | | Hexachlorobenzene | 0.400 | 0.365 | 8.8 | 76 | -0.02 |
| 23 | | Atrazine | 0.400 | 0.380 | 5.0 | 83 | -0.02 |
| 24 | | Pentachlorophenol | 0.400 | 0.365 | 8.8 | 86 | -0.04 |
| 25 | | Phenanthrene | 0.400 | 0.381 | 4.8 | 82 | -0.02 |
| 26 | | Anthracene | 0.400 | 0.369 | 7.8 | 81 | -0.02 |
| 27 | SURR | Fluoranthene-d10 | 0.400 | 0.395 | 1.3 | 84 | -0.02 |
| 28 | | Fluoranthene | 0.400 | 0.406 | -1.5 | 87 | -0.02 |
| 29 | I | Chrysene-d12 | 0.400 | 0.400 | 0.0 | 111 | -0.02 |
| 30 | | Pyrene | 0.400 | 0.350 | 12.5 | 89 | -0.02 |
| 31 | S | Terphenyl-d14 | 0.400 | 0.341 | 14.8 | 88 | -0.02 |
| 32 | | Benzo(a)anthracene | 0.400 | 0.351 | 12.3 | 94 | -0.03 |
| 33 | | Chrysene | 0.400 | 0.389 | 2.8 | 102 | -0.02 |
| 34 | | Bis(2-ethylhexyl)phthalate | 0.400 | 0.352 | 12.0 | 92 | -0.02 |
| 35 | I | Perylene-d12 | 0.400 | 0.400 | 0.0 | 118 | -0.04 |
| 36 | | Indeno(1,2,3-cd)pyrene | 0.400 | 0.348 | 13.0 | 96 | -0.06 |
| 37 | | Benzo(b)fluoranthene | 0.400 | 0.377 | 5.8 | 104 | -0.03 |
| 38 | | Benzo(k)fluoranthene | 0.400 | 0.364 | 9.0 | 101 | -0.03 |
| 39 | C | Benzo(a)pyrene | 0.400 | 0.381 | 4.8 | 106 | -0.03 |
| 40 | | Dibenzo(a,h)anthracene | 0.400 | 0.334 | 16.5 | 95 | -0.06 |
| 41 | | Benzo(g,h,i)perylene | 0.400 | 0.355 | 11.3 | 97 | -0.06 |

(#) = 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.: Q1629 SAS No.: Q1629 SDG No.: Q1629

Instrument ID: BNA_N Calibration Date/Time: 03/29/2025 02:44

Lab File ID: BN036791.D Init. Calib. Date(s): 03/10/2025 03/10/2025

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 11:42 15:19

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

| COMPOUND | RRF | RRF0.4 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| 2-Methylnaphthalene-d10 | 0.595 | 0.526 | | -11.6 | 20.0 |
| Fluoranthene-d10 | 1.025 | 1.032 | | 0.7 | 20.0 |
| 2-Fluorophenol | 0.932 | 0.833 | | -10.6 | 20.0 |
| Phenol-d6 | 1.152 | 1.007 | | -12.6 | 20.0 |
| Nitrobenzene-d5 | 0.435 | 0.376 | | -13.6 | 20.0 |
| 2-Fluorobiphenyl | 2.327 | 2.041 | | -12.3 | 20.0 |
| 2,4,6-Tribromophenol | 0.182 | 0.178 | | -2.2 | 20.0 |
| Terphenyl-d14 | 0.958 | 0.782 | | -18.4 | 20.0 |
| 1,4-Dioxane | 0.444 | 0.453 | | 2.0 | 20.0 |

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032825\
Data File : BN036791.D
Acq On : 29 Mar 2025 02:44
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Mar 29 04:28:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations APPROVED**
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.696 | 152 | 1826 | 0.400 | ng | | -0.03 |
| 7) Naphthalene-d8 | 10.477 | 136 | 4490 | 0.400 | ng | | -0.03 |
| 13) Acenaphthene-d10 | 14.334 | 164 | 2701 | 0.400 | ng | | -0.03 |
| 19) Phenanthrene-d10 | 17.087 | 188 | 5571 | 0.400 | ng | | -0.02 |
| 29) Chrysene-d12 | 21.268 | 240 | 4634 | 0.400 | ng | | -0.03 |
| 35) Perylene-d12 | 23.516 | 264 | 4032 | 0.400 | ng | | #-0.04 |
| **System Monitoring Compounds** | | | | | | | |
| 4) 2-Fluorophenol | 5.291 | 112 | 1521 | 0.357 | ng | | -0.02 |
| 5) Phenol-d6 | 6.872 | 99 | 1838 | 0.350 | ng | | -0.03 |
| 8) Nitrobenzene-d5 | 8.843 | 82 | 1689 | 0.346 | ng | | -0.03 |
| 11) 2-Methylnaphthalene-d10 | 12.075 | 152 | 2363 | 0.354 | ng | | -0.04 |
| 14) 2,4,6-Tribromophenol | 15.833 | 330 | 481 | 0.392 | ng | | -0.02 |
| 15) 2-Fluorobiphenyl | 12.963 | 172 | 5513 | 0.351 | ng | | -0.03 |
| 27) Fluoranthene-d10 | 19.118 | 212 | 5751 | 0.403 | ng | | -0.02 |
| 31) Terphenyl-d14 | 19.722 | 244 | 3623 | 0.326 | ng | | -0.02 |
| **Target Compounds** | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.225 | 88 | 827 | 0.408 | ng | | 98 |
| 3) n-Nitrosodimethylamine | 3.543 | 42 | 1757 | 0.429 | ng | | 91 |
| 6) bis(2-Chloroethyl)ether | 7.125 | 93 | 1880 | 0.346 | ng | | 99 |
| 9) Naphthalene | 10.530 | 128 | 4740 | 0.359 | ng | | 99 |
| 10) Hexachlorobutadiene | 10.819 | 225 | 1160 | 0.373 | ng | # | 98 |
| 12) 2-Methylnaphthalene | 12.151 | 142 | 3044 | 0.362 | ng | | 98 |
| 16) Acenaphthylene | 14.056 | 152 | 4532 | 0.356 | ng | | 99 |
| 17) Acenaphthene | 14.398 | 154 | 3064 | 0.367 | ng | | 99 |
| 18) Fluorene | 15.393 | 166 | 4209 | 0.373 | ng | | 99 |
| 20) 4,6-Dinitro-2-methylph... | 15.478 | 198 | 395 | 0.423 | ng | # | 76 |
| 21) 4-Bromophenyl-phenylether | 16.280 | 248 | 1353 | 0.388 | ng | | 96 |
| 22) Hexachlorobenzene | 16.391 | 284 | 1582 | 0.375 | ng | | 97 |
| 23) Atrazine | 16.553 | 200 | 1090 | 0.389 | ng | | 97 |
| 24) Pentachlorophenol | 16.739 | 266 | 740 | 0.385 | ng | | 98 |
| 25) Phenanthrene | 17.124 | 178 | 6416 | 0.384 | ng | | 99 |
| 26) Anthracene | 17.223 | 178 | 5669 | 0.376 | ng | | 100 |
| 28) Fluoranthene | 19.146 | 202 | 7784 | 0.415 | ng | | 99 |
| 30) Pyrene | 19.513 | 202 | 7947 | 0.351 | ng | | 100 |
| 32) Benzo(a)anthracene | 21.259 | 228 | 5842 | 0.363 | ng | | 100 |
| 33) Chrysene | 21.304 | 228 | 6781 | 0.385 | ng | | 99 |
| 34) Bis(2-ethylhexyl)phtha... | 21.196 | 149 | 4355 | 0.380 | ng | # | 99 |
| 36) Indeno(1,2,3-cd)pyrene | 25.779 | 276 | 5407 | 0.372 | ng | | 94 |
| 37) Benzo(b)fluoranthene | 22.841 | 252 | 5627 | 0.383 | ng | | 97 |
| 38) Benzo(k)fluoranthene | 22.885 | 252 | 6157m | 0.400 | ng | | |
| 39) Benzo(a)pyrene | 23.417 | 252 | 4993 | 0.404 | ng | | 95 |
| 40) Dibenzo(a,h)anthracene | 25.800 | 278 | 4150 | 0.366 | ng | | 93 |
| 41) Benzo(g,h,i)perylene | 26.469 | 276 | 4876 | 0.376 | ng | | 95 |

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

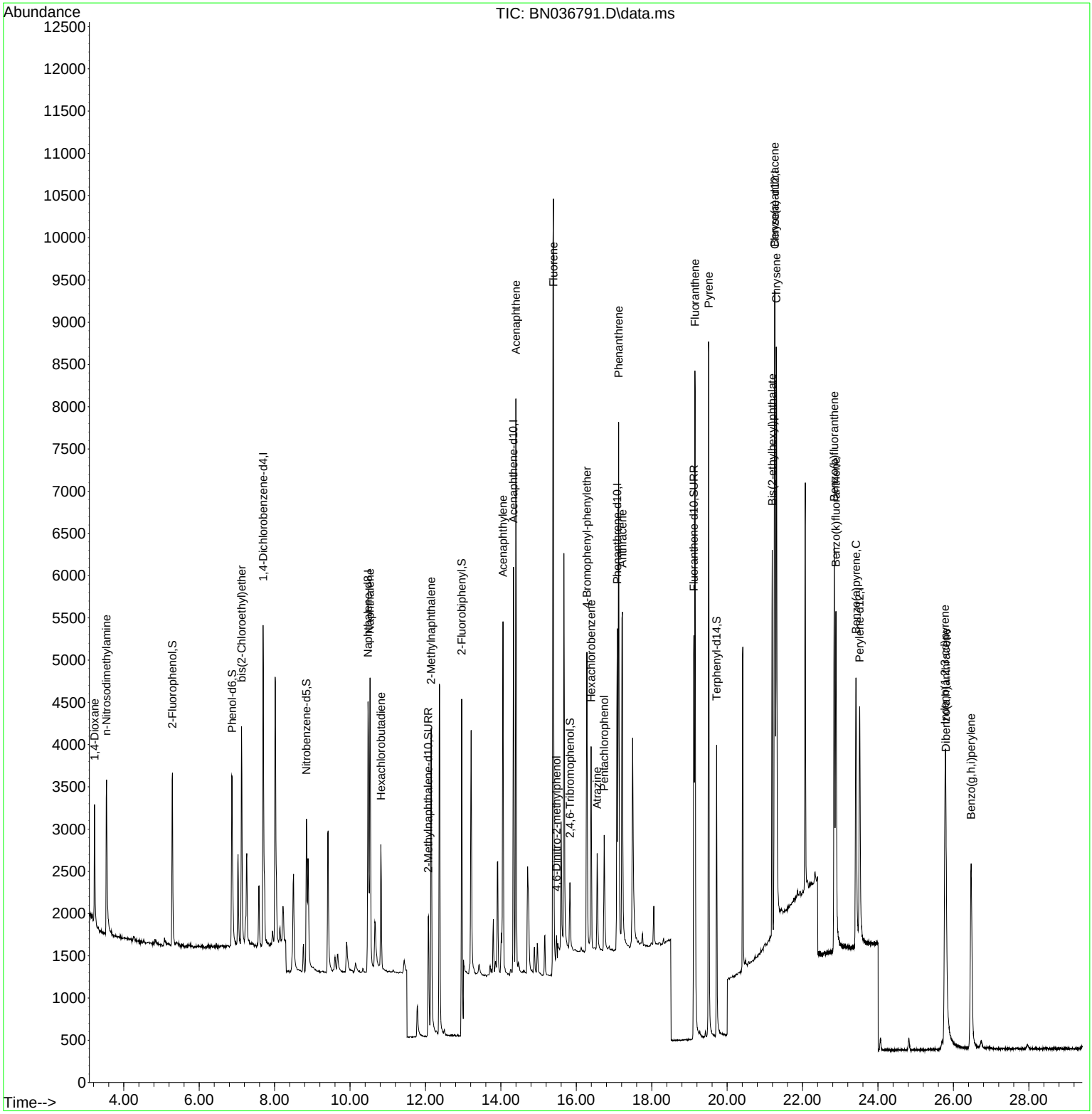
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032825\
Data File : BN036791.D
Acq On : 29 Mar 2025 02:44
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 22 Sample Multiplier: 1

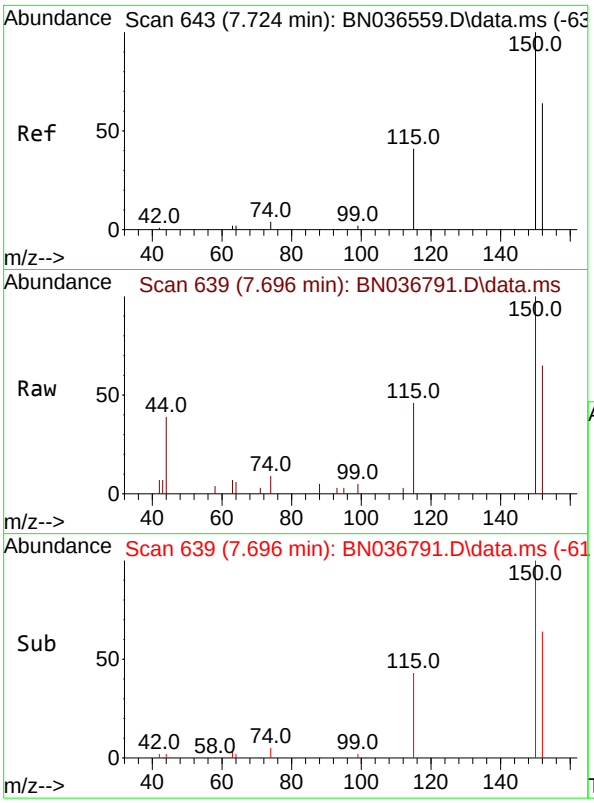
Quant Time: Mar 29 04:28:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations APPROVED**

Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

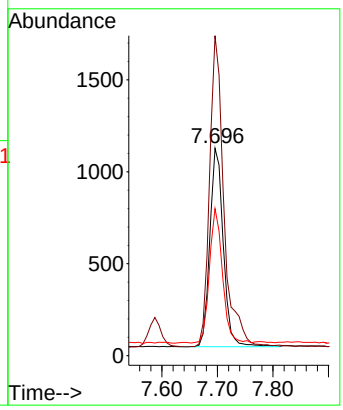





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.696 min Scan# 6
Delta R.T. -0.028 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion:152 Resp: 182

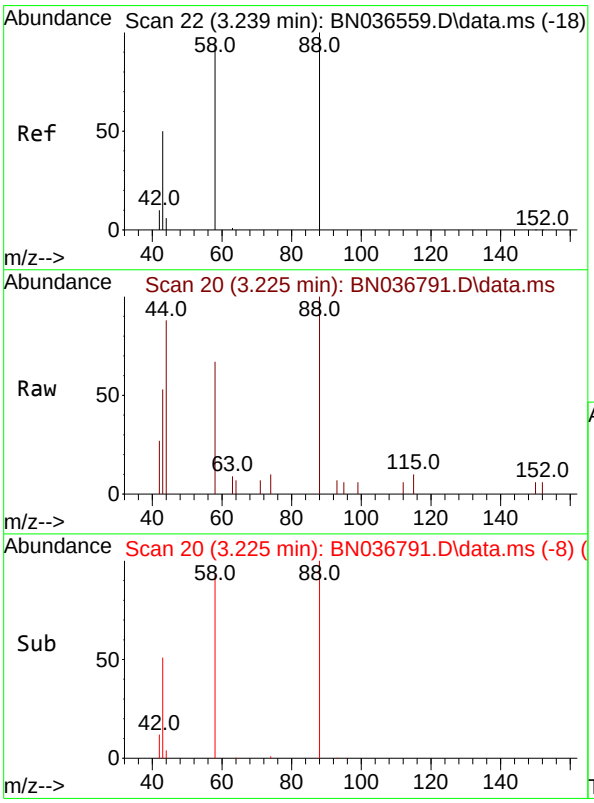
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 154.3 | 123.7 | 185.5 |
| 115 | 70.9 | 54.3 | 81.5 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations**
**APPROVED**

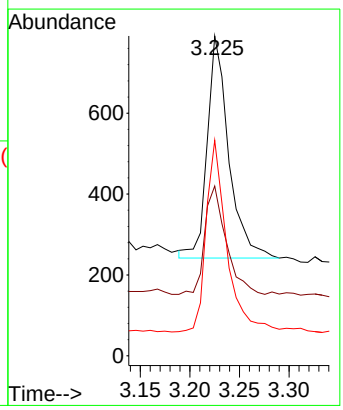
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

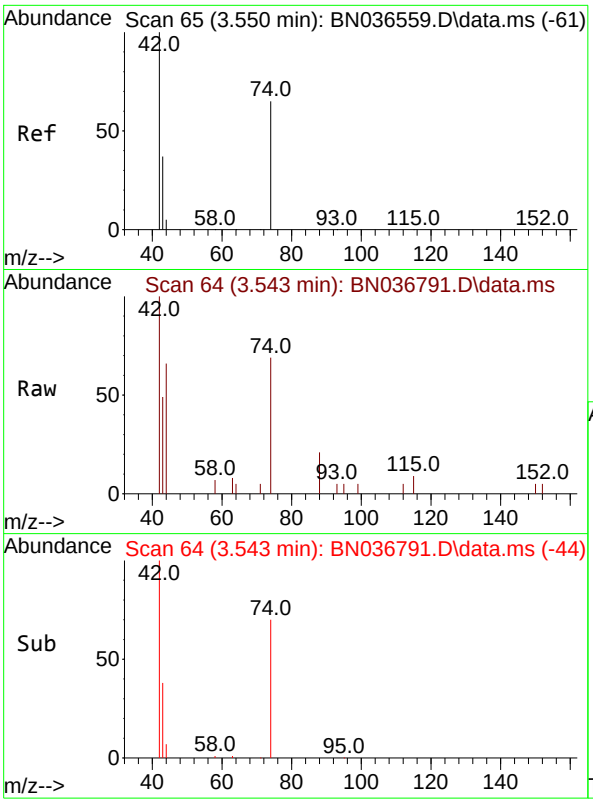



#2
1,4-Dioxane
Concen: 0.408 ng
RT: 3.225 min Scan# 20
Delta R.T. -0.014 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion: 88 Resp: 827

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 48.5 | 37.8 | 56.8 |
| 58 | 83.0 | 67.4 | 101.2 |

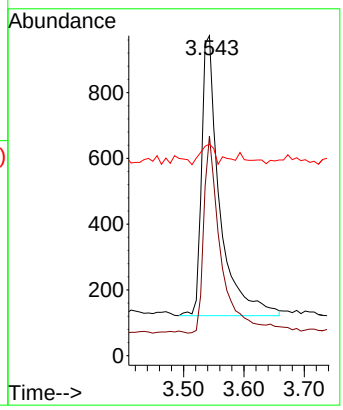





#3
n-Nitrosodimethylamine
Concen: 0.429 ng
RT: 3.543 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion: 42 Resp: 175

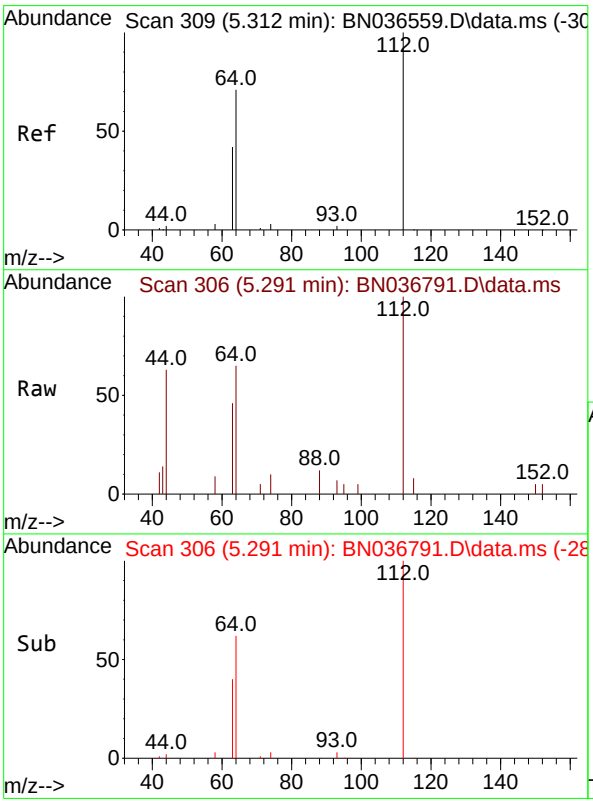
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 67.4 | 60.6 | 90.8 |
| 44 | 6.6 | 6.3 | 9.5 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations**
**APPROVED**

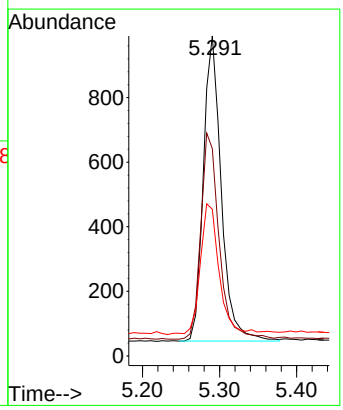
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

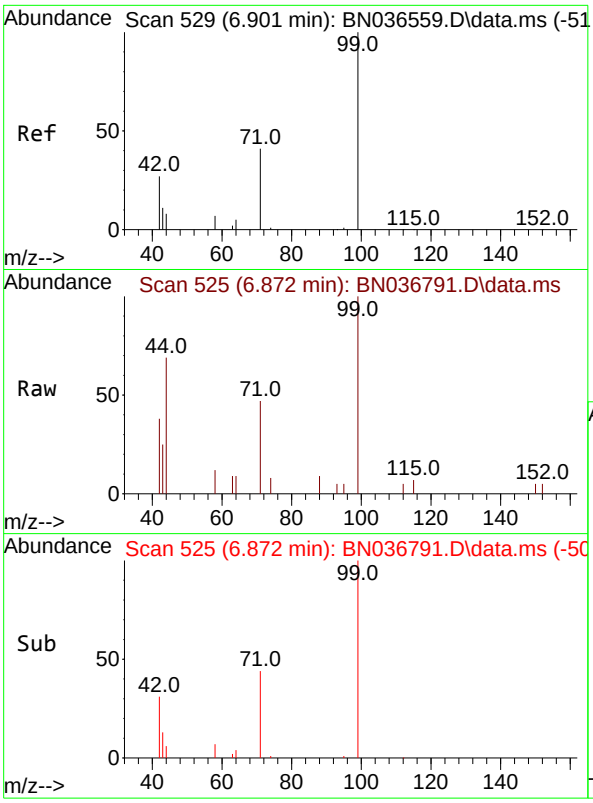



#4
2-Fluorophenol
Concen: 0.357 ng
RT: 5.291 min Scan# 306
Delta R.T. -0.021 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion:112 Resp: 1521

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 68.8 | 53.1 | 79.7 |
| 63 | 46.2 | 31.8 | 47.8 |

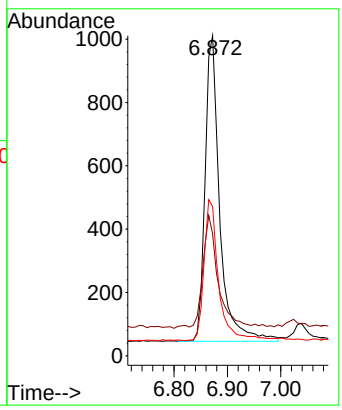





#5
Phenol-d6
Concen: 0.350 ng
RT: 6.872 min Scan# 5
Delta R.T. -0.029 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion: 99 Resp: 183

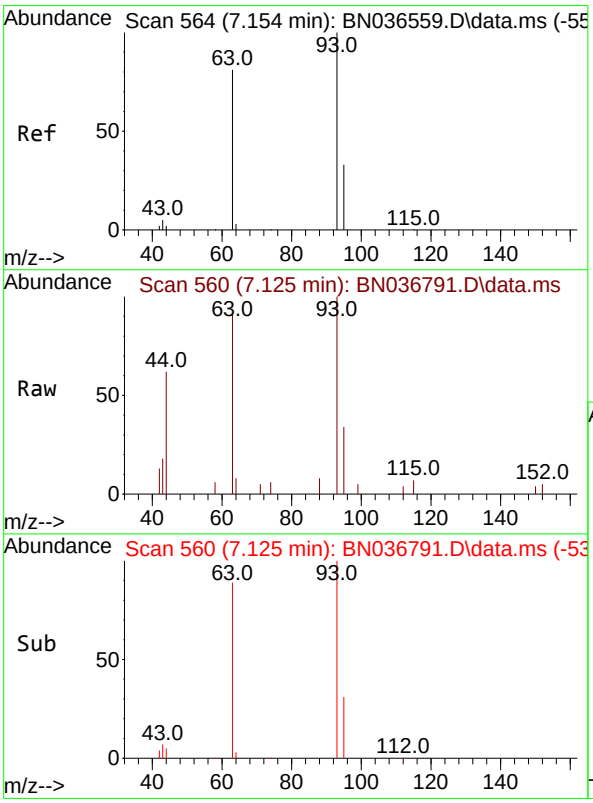
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 38.7 | 26.5 | 39.7 |
| 71 | 46.1 | 34.1 | 51.1 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations**
**APPROVED**

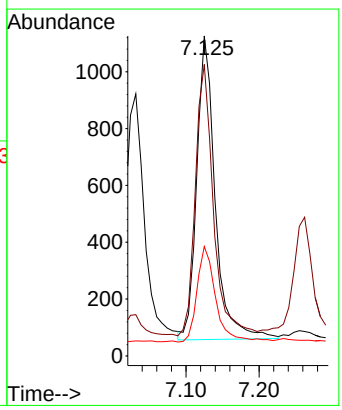
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

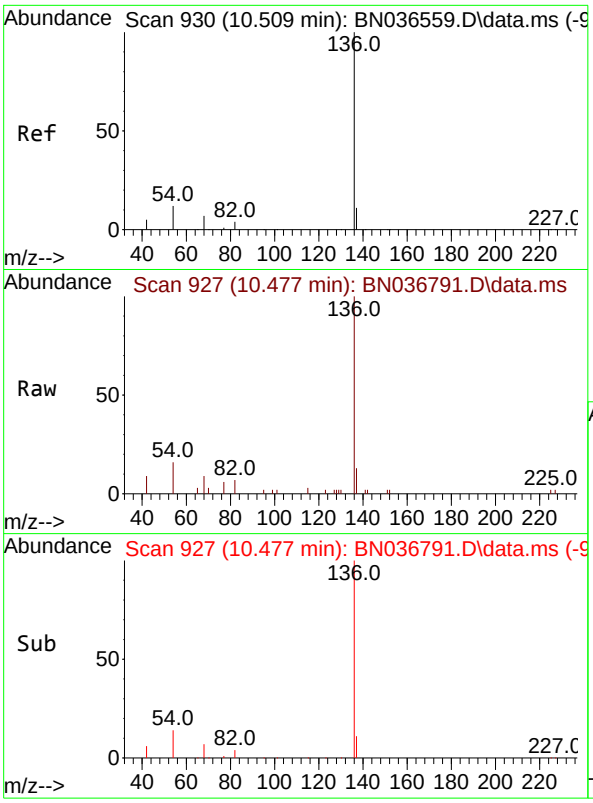



#6
bis(2-Chloroethyl)ether
Concen: 0.346 ng
RT: 7.125 min Scan# 560
Delta R.T. -0.029 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion: 93 Resp: 1880

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 85.9 | 67.7 | 101.5 |
| 95 | 31.5 | 25.6 | 38.4 |

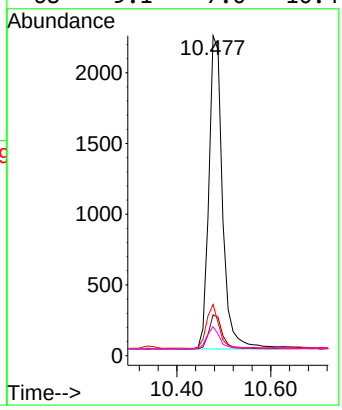





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.477 min Scan# 9
Delta R.T. -0.032 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion:136 Resp: 449

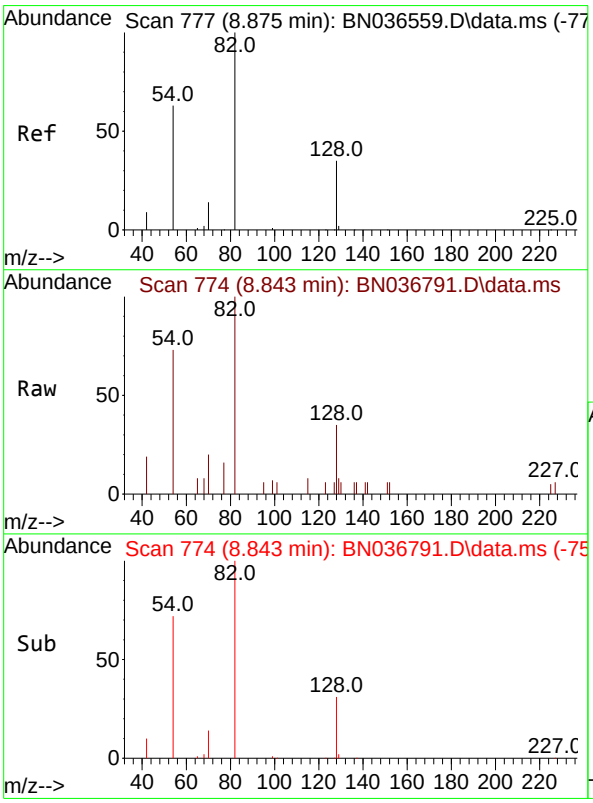
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 12.8 | 10.3 | 15.5 |
| 54 | 16.0 | 11.5 | 17.3 |
| 68 | 9.1 | 7.0 | 10.4 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations**
**APPROVED**

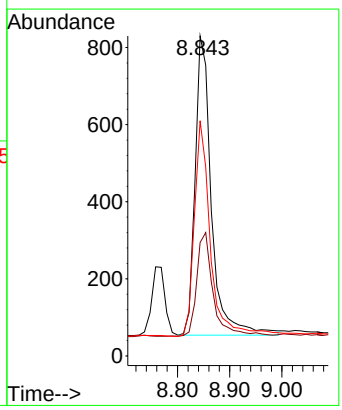
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

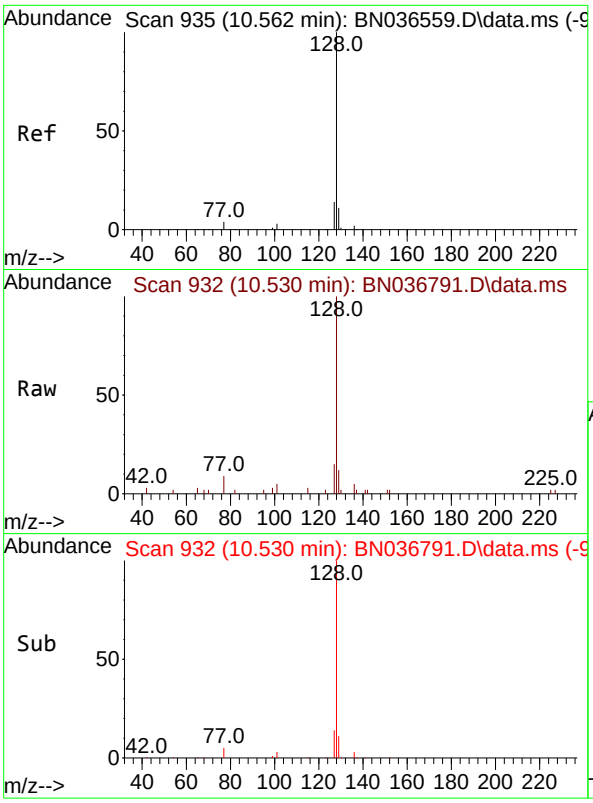



#8
Nitrobenzene-d5
Concen: 0.346 ng
RT: 8.843 min Scan# 774
Delta R.T. -0.032 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion: 82 Resp: 1689

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 35.4 | 30.6 | 45.8 |
| 54 | 73.5 | 52.2 | 78.4 |

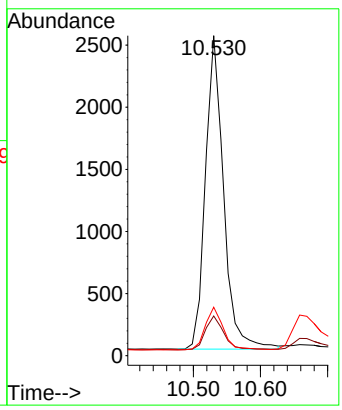





#9
Naphthalene
Concen: 0.359 ng
RT: 10.530 min Scan# 9
Delta R.T. -0.032 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion:128 Resp: 474

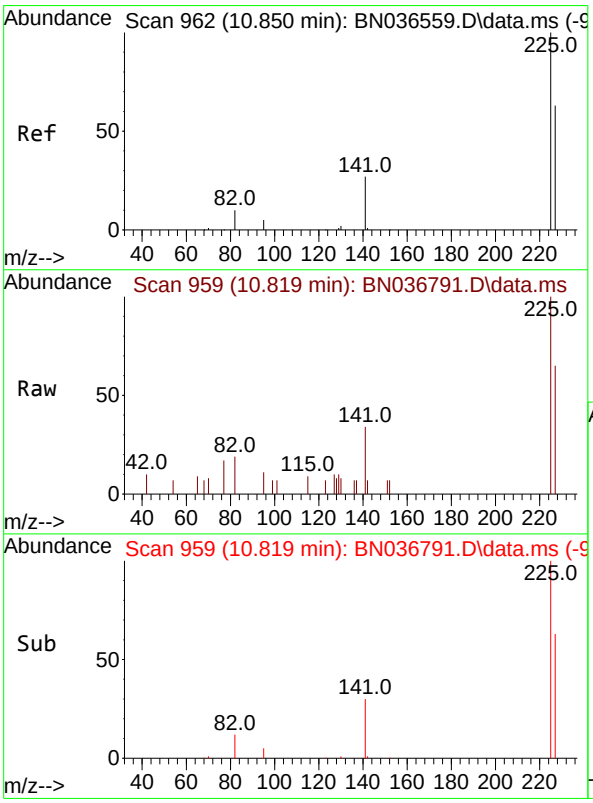
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 12.4 | 9.8 | 14.6 |
| 127 | 15.2 | 11.8 | 17.8 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations**
**APPROVED**

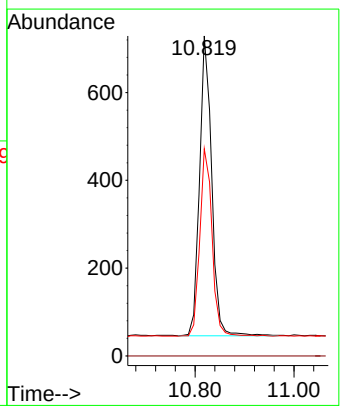
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

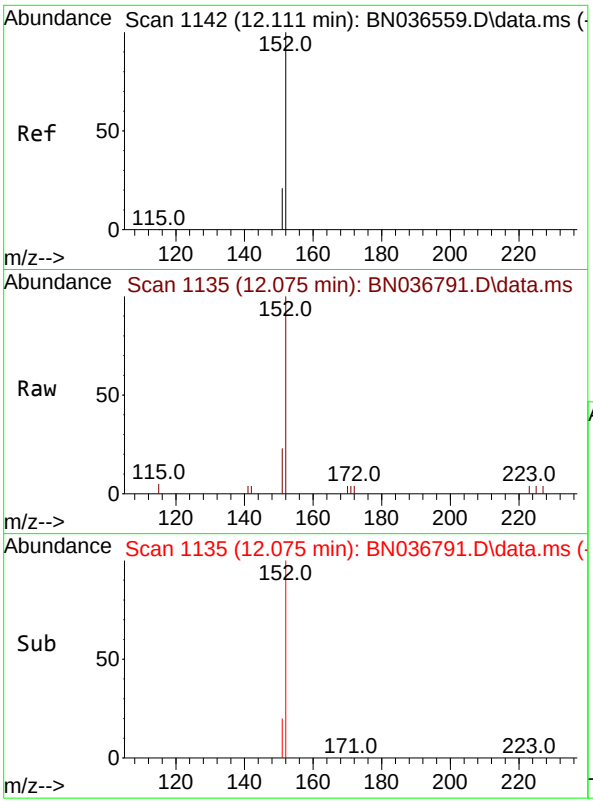



#10
Hexachlorobutadiene
Concen: 0.373 ng
RT: 10.819 min Scan# 959
Delta R.T. -0.032 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion:225 Resp: 1160

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 0.0 | 0.0 | 0.0 |
| 227 | 63.4 | 51.8 | 77.8 |






#11
2-Methylnaphthalene-d10
Concen: 0.354 ng
RT: 12.075 min Scan# 11
Delta R.T. -0.035 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

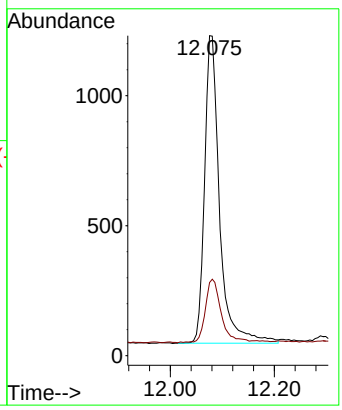
Tgt Ion:152 Resp: 236

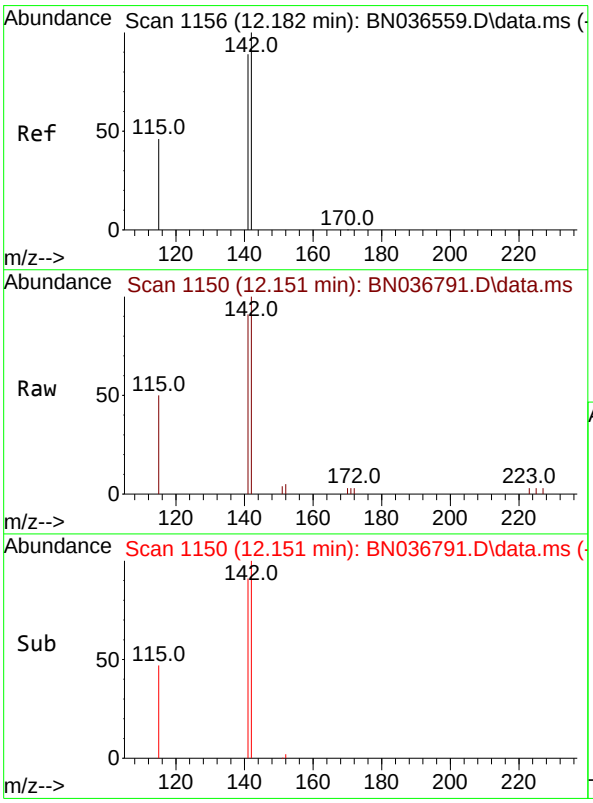
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 21.9 | 17.0 | 25.6 |

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations**
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Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

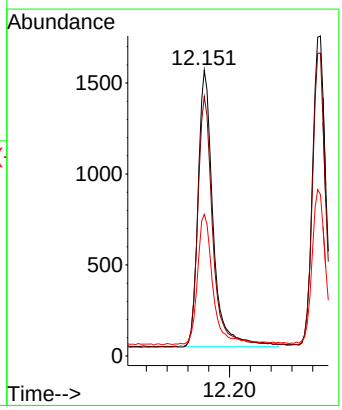


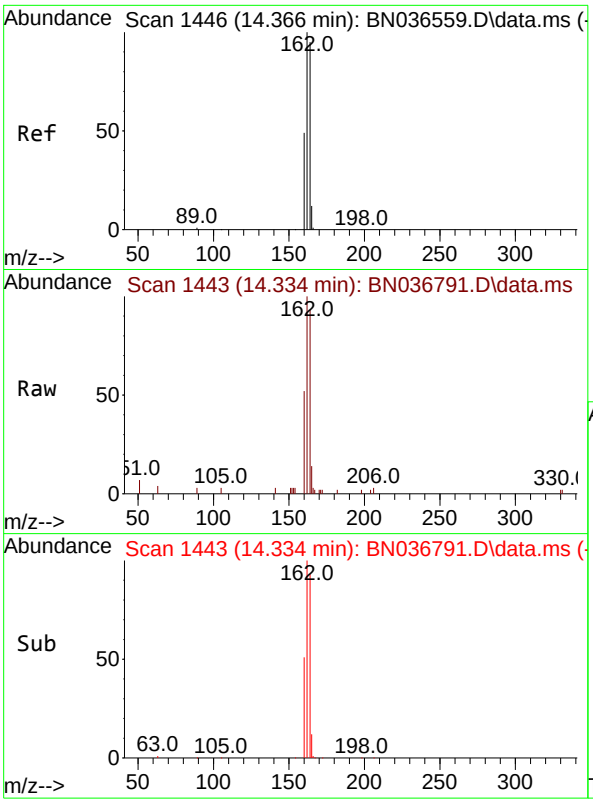




#12
2-Methylnaphthalene
Concen: 0.362 ng
RT: 12.151 min Scan# 1150
Delta R.T. -0.030 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion:142 Resp: 3044

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 90.8 | 71.7 | 107.5 |
| 115 | 49.5 | 38.3 | 57.5 |

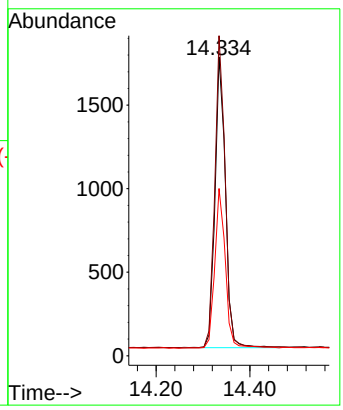





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.334 min Scan# 14
Delta R.T. -0.032 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion:164 Resp: 270

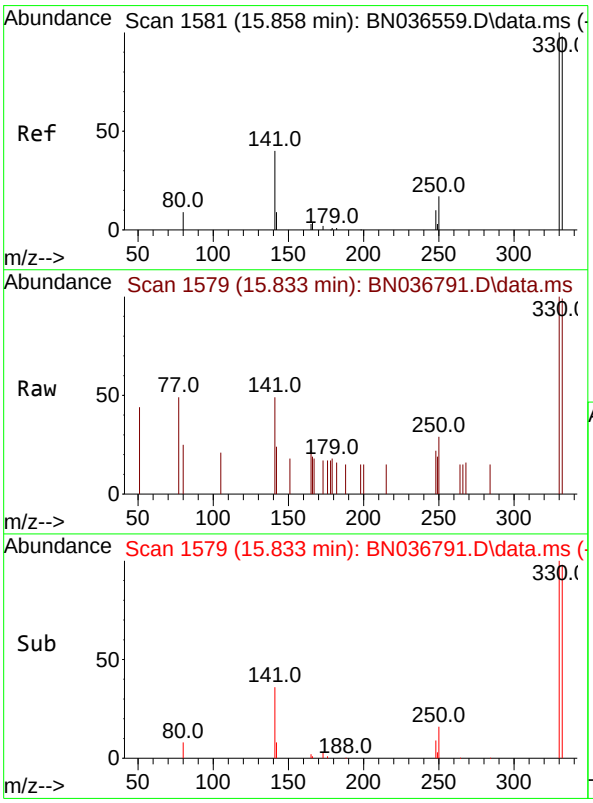
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 107.1 | 84.2 | 126.2 |
| 160 | 56.0 | 42.2 | 63.2 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations**
**APPROVED**

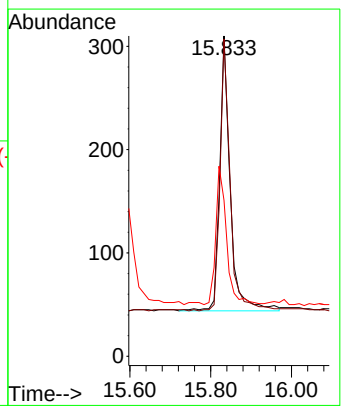
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

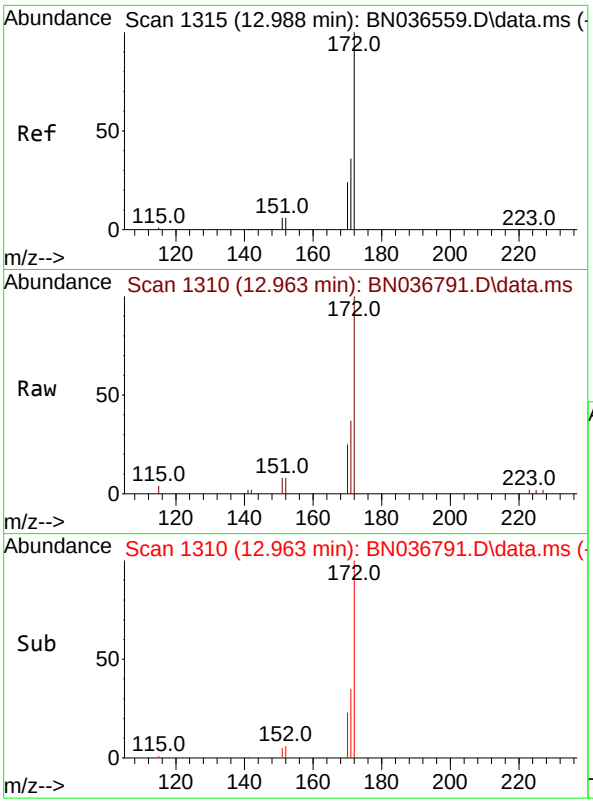



#14
2,4,6-Tribromophenol
Concen: 0.392 ng
RT: 15.833 min Scan# 1579
Delta R.T. -0.025 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion:330 Resp: 481

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 94.4 | 75.2 | 112.8 |
| 141 | 51.4 | 43.4 | 65.2 |

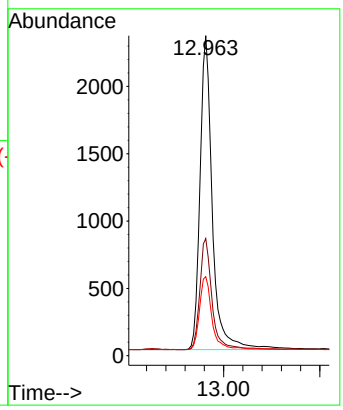





#15
2-Fluorobiphenyl
Concen: 0.351 ng
RT: 12.963 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion:172 Resp: 551

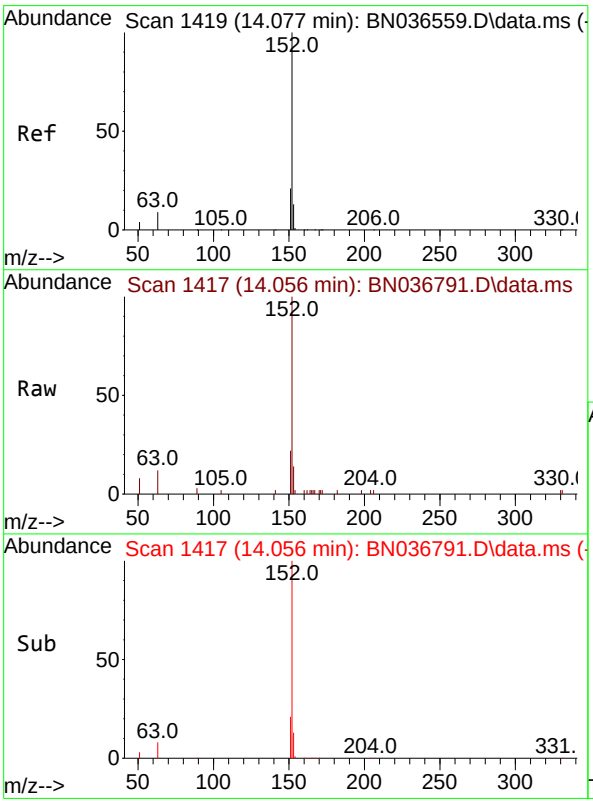
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 36.6 | 29.5 | 44.3 |
| 170 | 24.7 | 20.2 | 30.4 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations APPROVED**

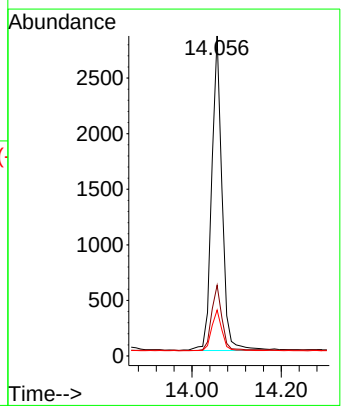
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

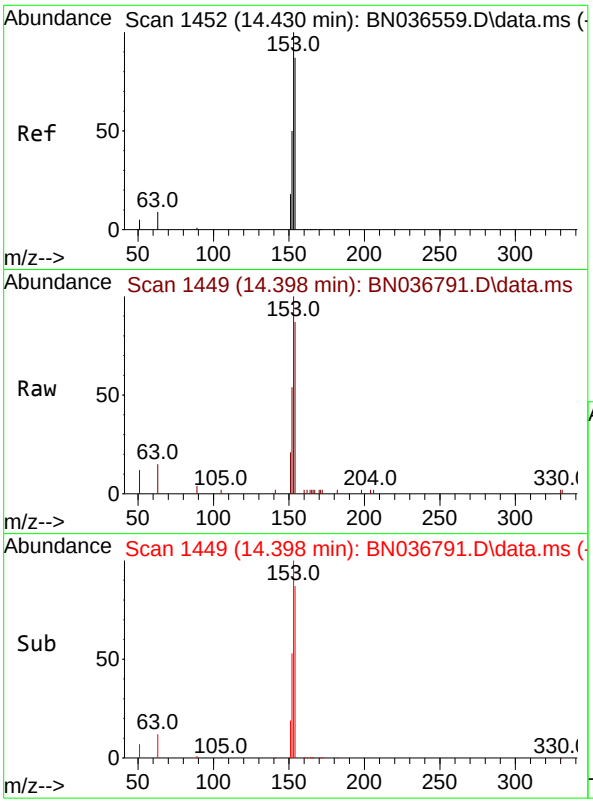



#16
Acenaphthylene
Concen: 0.356 ng
RT: 14.056 min Scan# 1417
Delta R.T. -0.021 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion:152 Resp: 4532

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 21.1 | 16.2 | 24.4 |
| 153 | 13.0 | 10.6 | 15.8 |

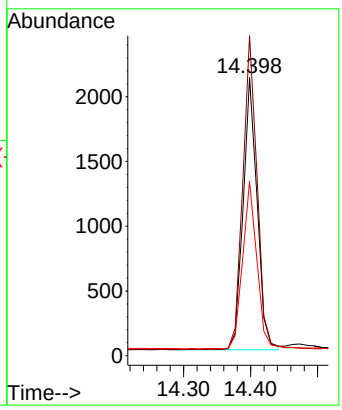





#17
Acenaphthene
Concen: 0.367 ng
RT: 14.398 min Scan# 14
Delta R.T. -0.032 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion:154 Resp: 3064

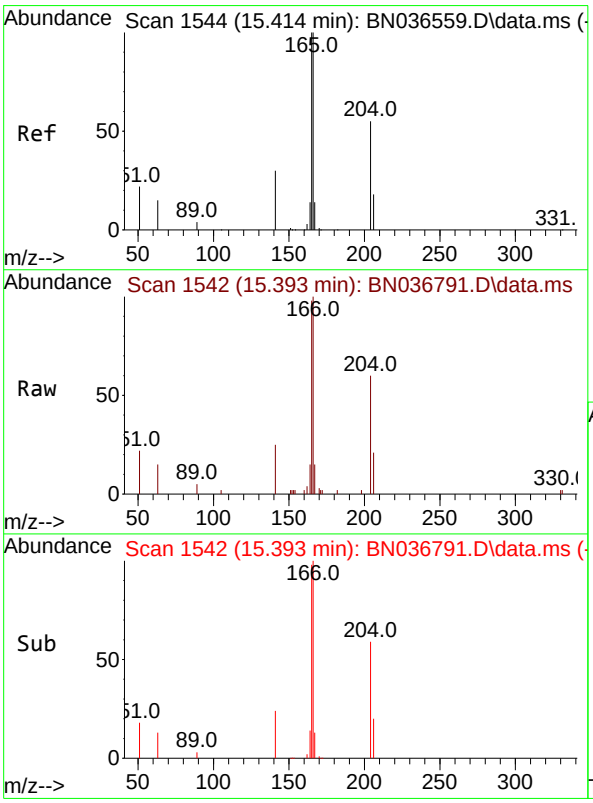
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 118.0 | 94.1 | 141.1 |
| 152 | 62.9 | 49.8 | 74.6 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations**
**APPROVED**

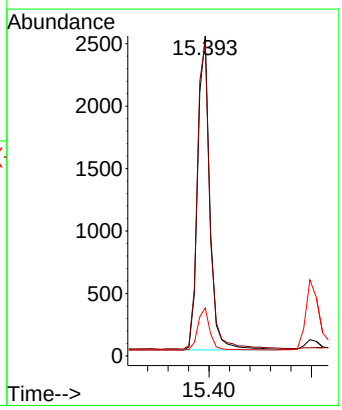
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

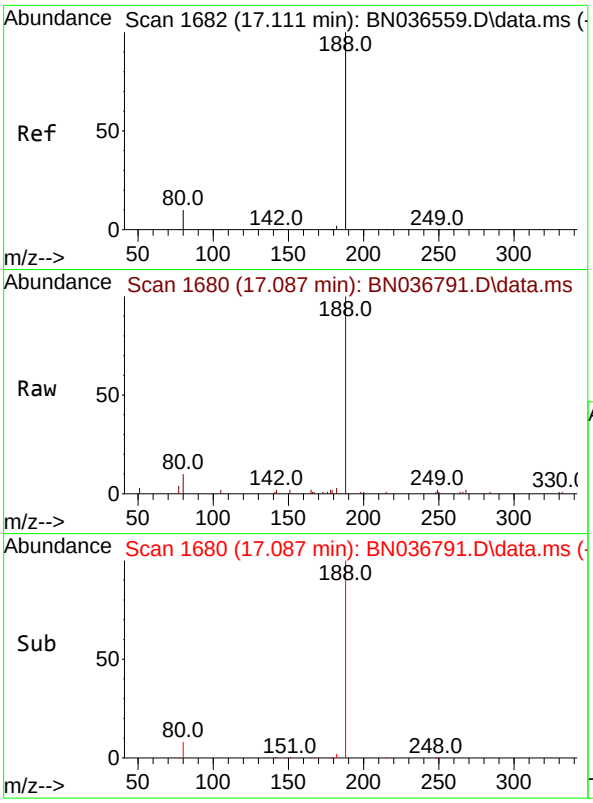



#18
Fluorene
Concen: 0.373 ng
RT: 15.393 min Scan# 1542
Delta R.T. -0.021 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion:166 Resp: 4209

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 101.0 | 79.8 | 119.8 |
| 167 | 13.4 | 10.6 | 15.8 |






#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.087 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

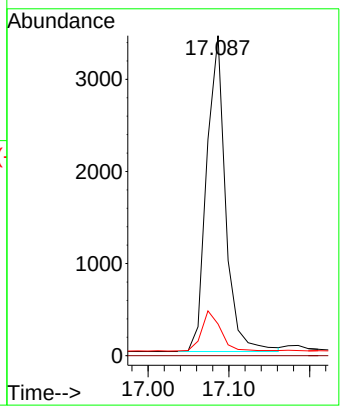
Tgt Ion:188 Resp: 557

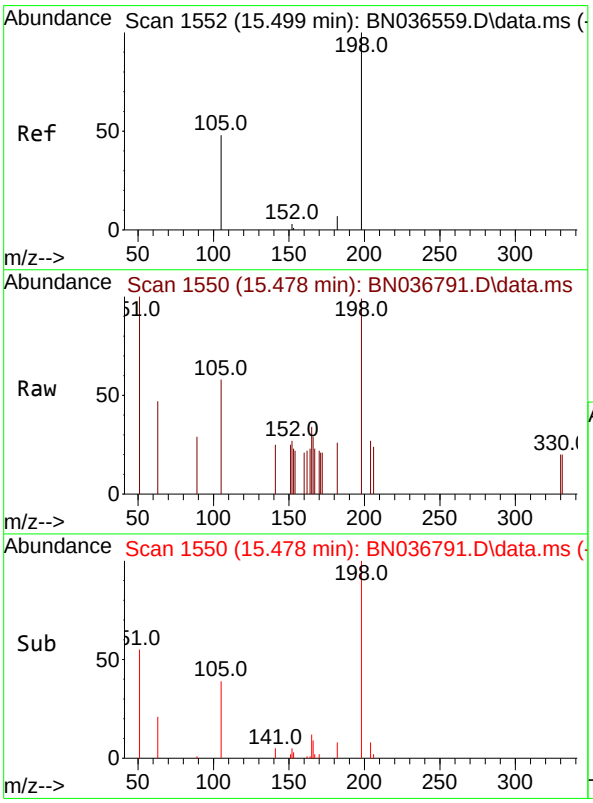
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 9.9 | 8.8 | 13.2 |

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations**
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Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

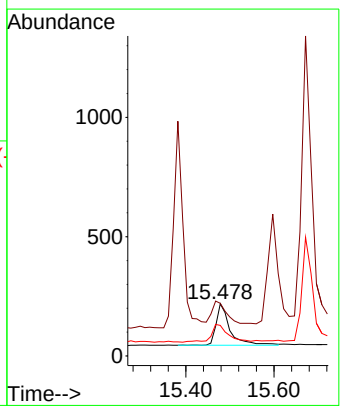


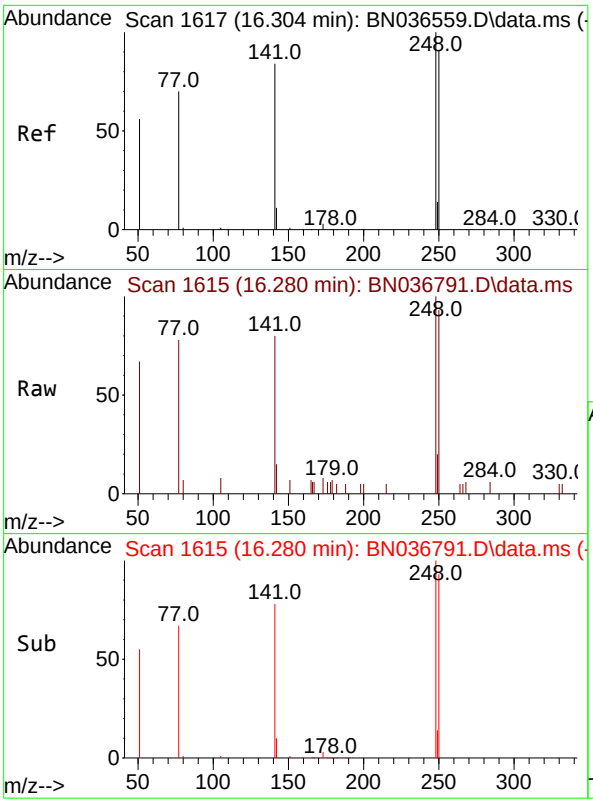




#20
4,6-Dinitro-2-methylphenol
Concen: 0.423 ng
RT: 15.478 min Scan# 1550
Delta R.T. -0.021 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion:198 Resp: 395

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 198 | 100 | | |
| 51 | 100.9 | 107.9 | 161.9# |
| 105 | 58.4 | 56.2 | 84.2 |






#21
4-Bromophenyl-phenylether
Concen: 0.388 ng
RT: 16.280 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

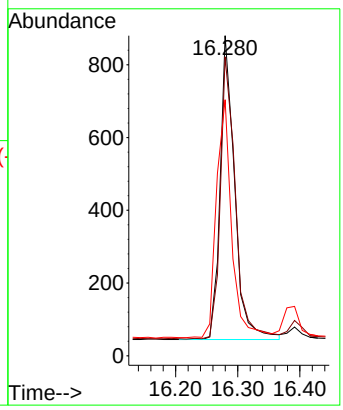
Tgt Ion:248 Resp: 135

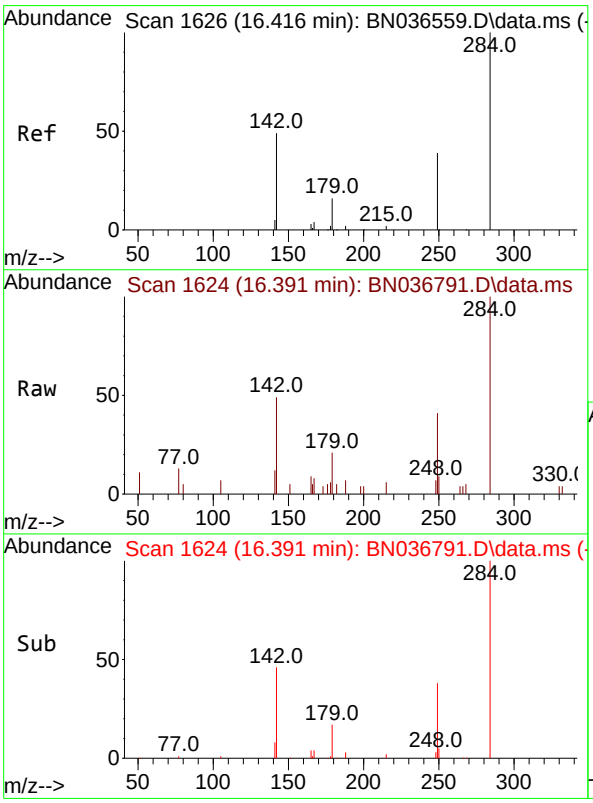
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 93.4 | 73.0 | 109.6 |
| 141 | 80.0 | 68.6 | 103.0 |

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations**
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Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

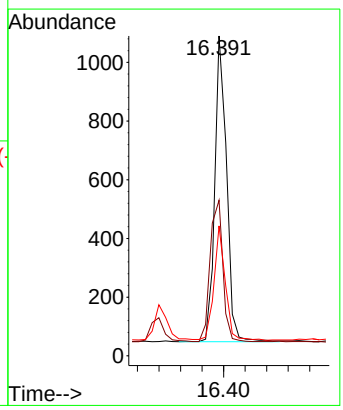


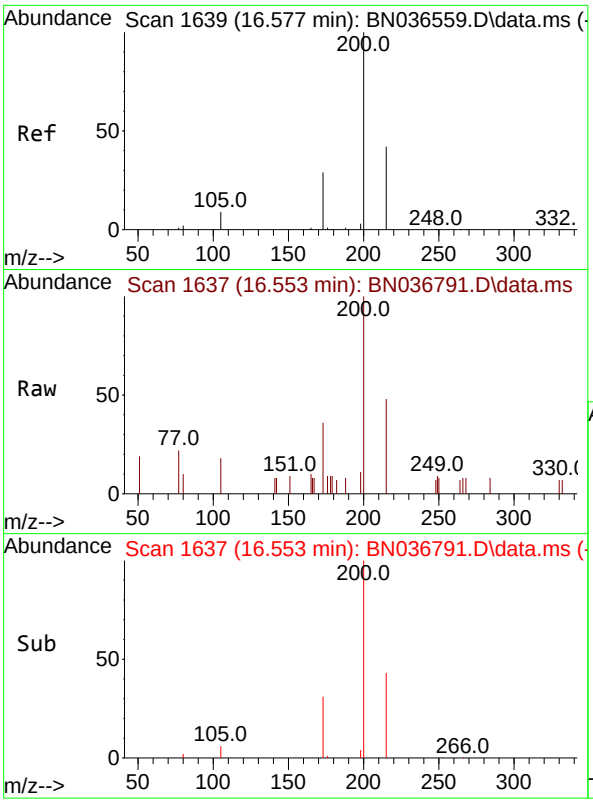




#22
Hexachlorobenzene
Concen: 0.375 ng
RT: 16.391 min Scan# 1624
Delta R.T. -0.025 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion:284 Resp: 1582

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 49.7 | 37.0 | 55.4 |
| 249 | 35.6 | 28.1 | 42.1 |

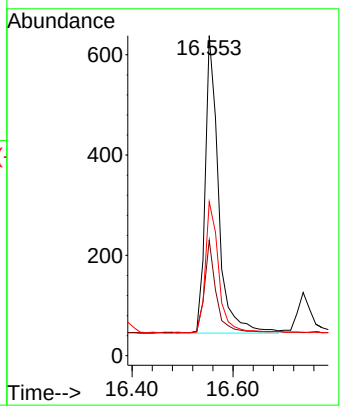





#23
Atrazine
Concen: 0.389 ng
RT: 16.553 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion:200 Resp: 109(

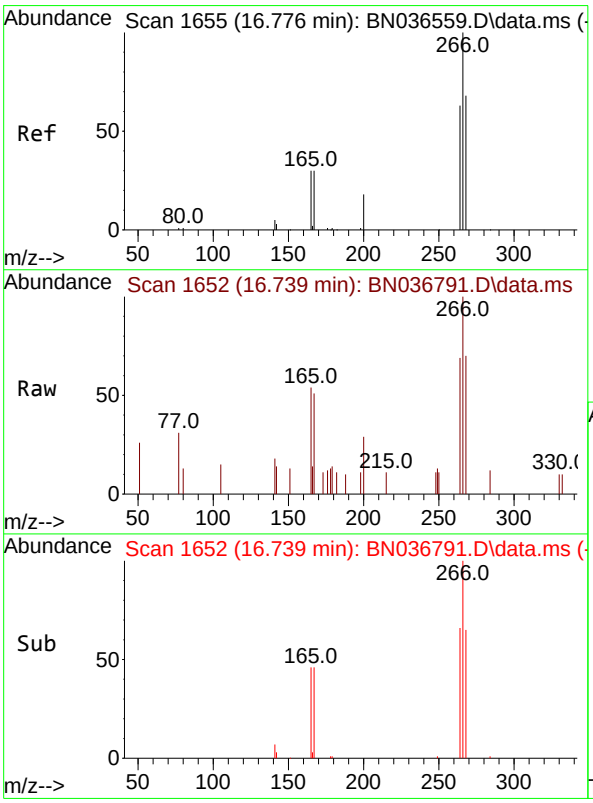
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 173 | 36.1 | 27.3 | 40.9 |
| 215 | 48.1 | 36.8 | 55.2 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations**
**APPROVED**

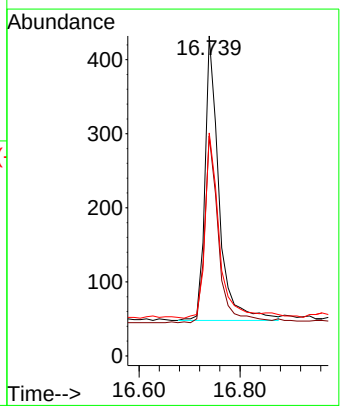
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

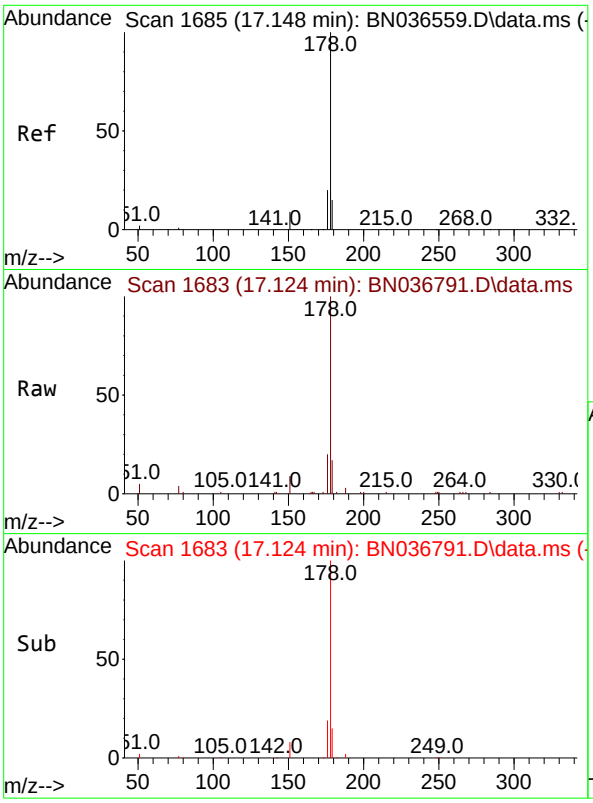



#24
Pentachlorophenol
Concen: 0.385 ng
RT: 16.739 min Scan# 1652
Delta R.T. -0.037 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion:266 Resp: 740

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 264 | 64.5 | 49.6 | 74.4 |
| 268 | 64.9 | 50.9 | 76.3 |

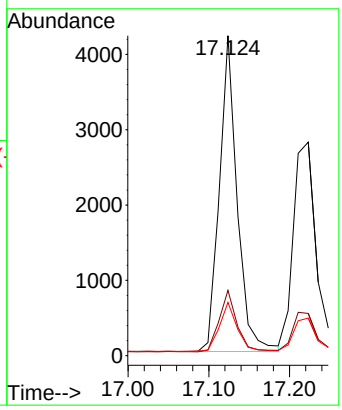





#25
Phenanthrene
Concen: 0.384 ng
RT: 17.124 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion:178 Resp: 641(

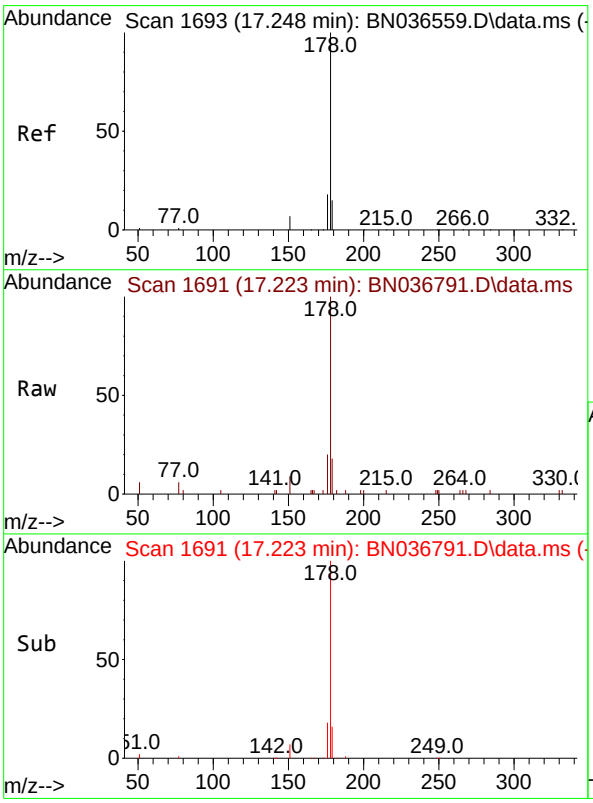
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.3 | 15.9 | 23.9 |
| 179 | 16.0 | 12.2 | 18.4 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations**
**APPROVED**

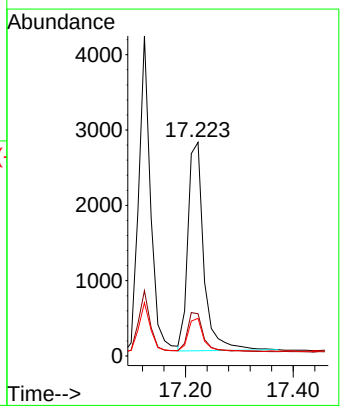
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

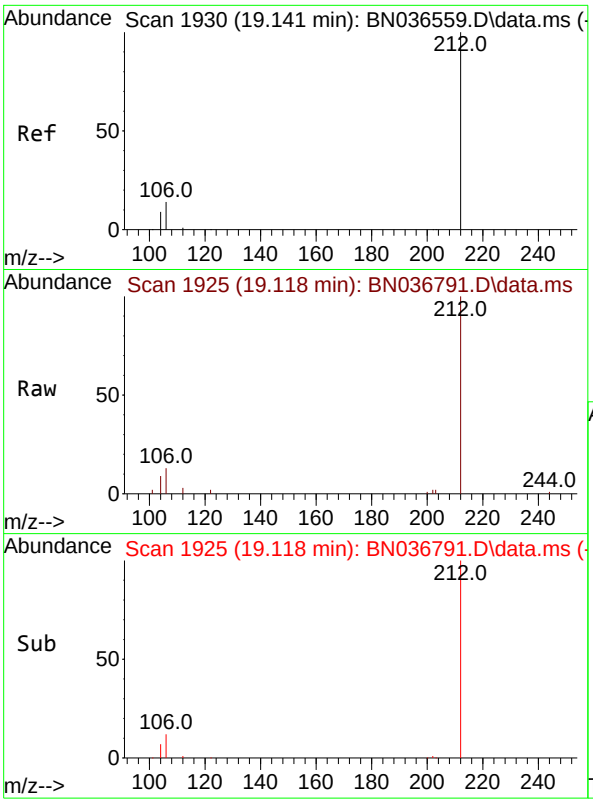



#26
Anthracene
Concen: 0.376 ng
RT: 17.223 min Scan# 1691
Delta R.T. -0.025 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion:178 Resp: 5669

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.2 | 15.4 | 23.2 |
| 179 | 15.5 | 12.6 | 18.8 |

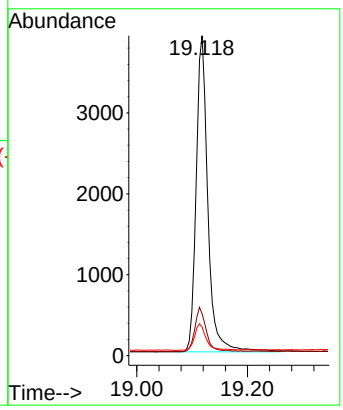





#27
Fluoranthene-d10
Concen: 0.403 ng
RT: 19.118 min Scan# 1
Delta R.T. -0.023 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion:212 Resp: 575

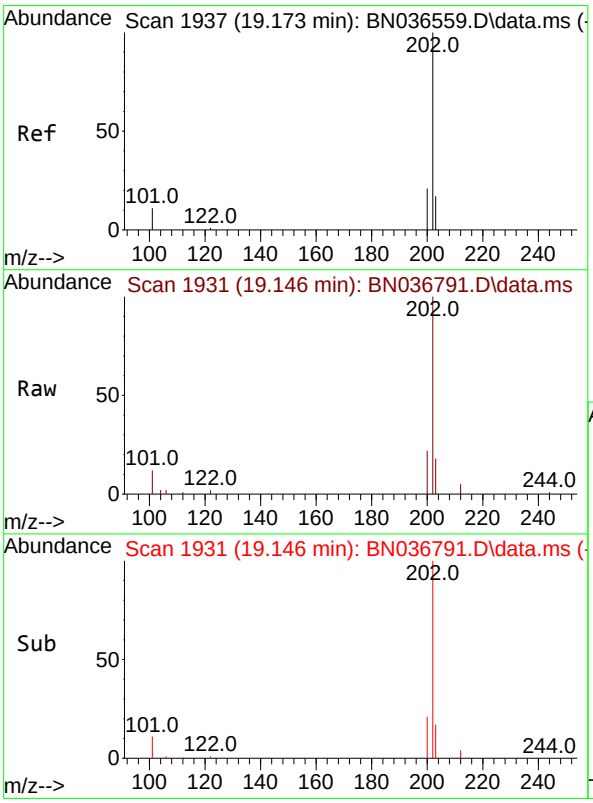
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 13.2 | 11.8 | 17.6 |
| 104 | 8.6 | 7.3 | 10.9 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations**
**APPROVED**

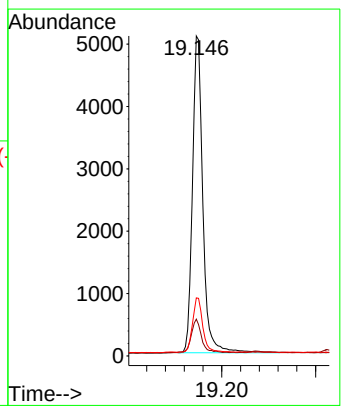
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

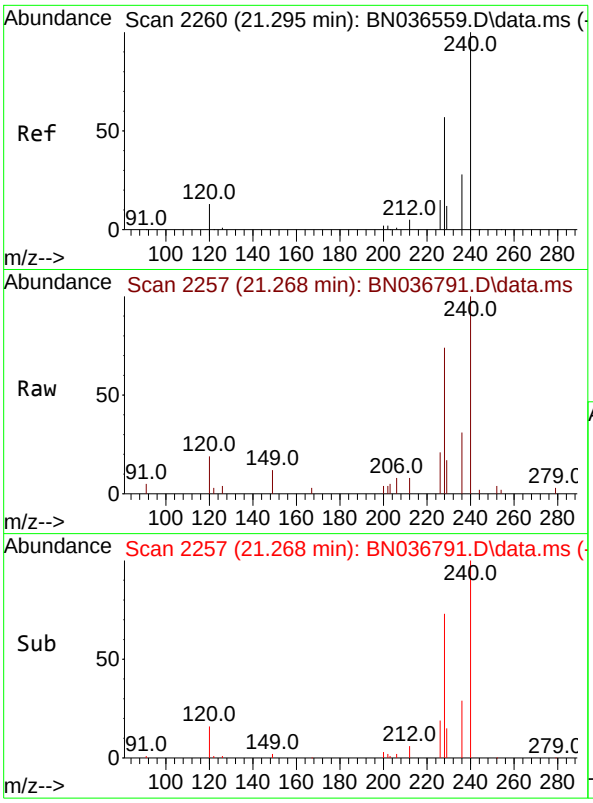



#28
Fluoranthene
Concen: 0.415 ng
RT: 19.146 min Scan# 1931
Delta R.T. -0.028 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion:202 Resp: 7784

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 10.4 | 9.4 | 14.0 |
| 203 | 16.9 | 13.5 | 20.3 |

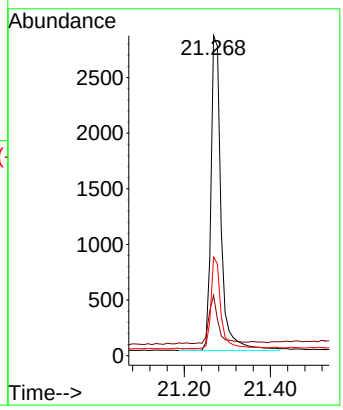





#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.268 min Scan# 2
Delta R.T. -0.027 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion:240 Resp: 463

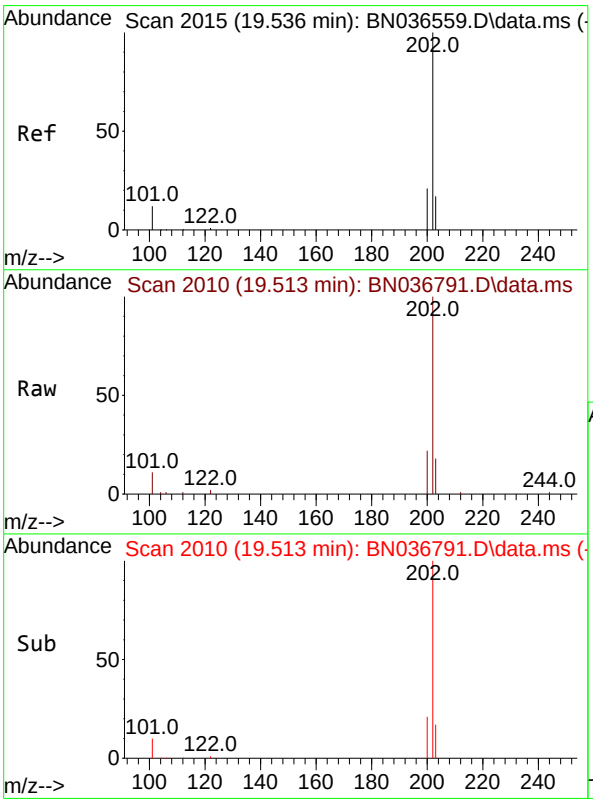
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 18.8 | 14.6 | 22.0 |
| 236 | 30.8 | 24.1 | 36.1 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations**
**APPROVED**

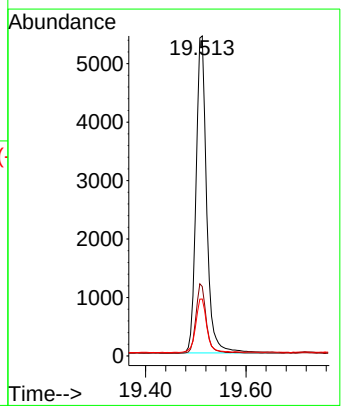
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

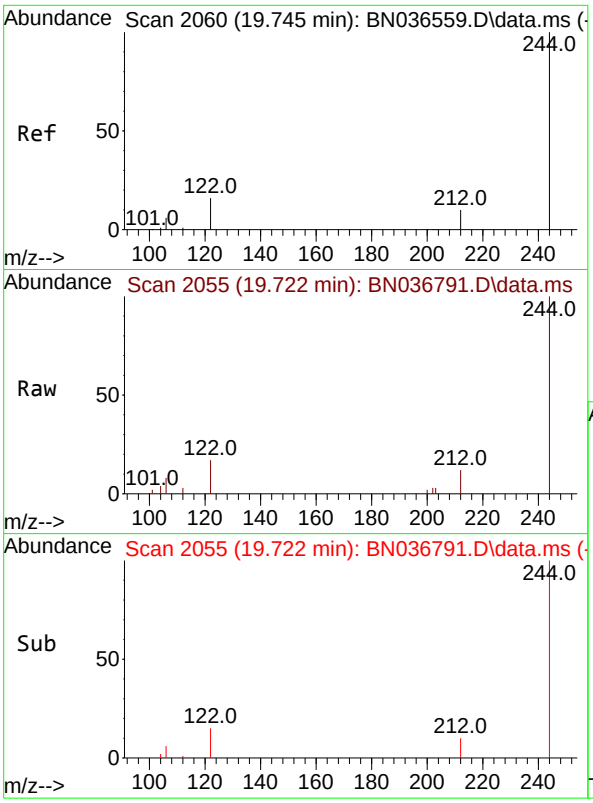



#30
Pyrene
Concen: 0.351 ng
RT: 19.513 min Scan# 2010
Delta R.T. -0.023 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion:202 Resp: 7947

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.4 | 17.1 | 25.7 |
| 203 | 17.5 | 14.1 | 21.1 |






#31
Terphenyl-d14
Concen: 0.326 ng
RT: 19.722 min Scan# 2
Delta R.T. -0.023 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

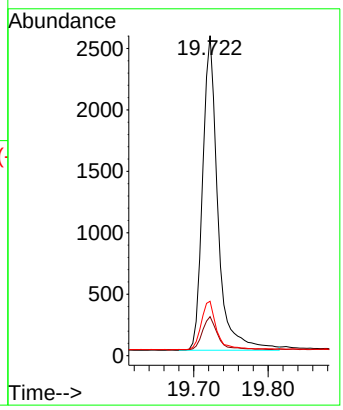
Tgt Ion:244 Resp: 362

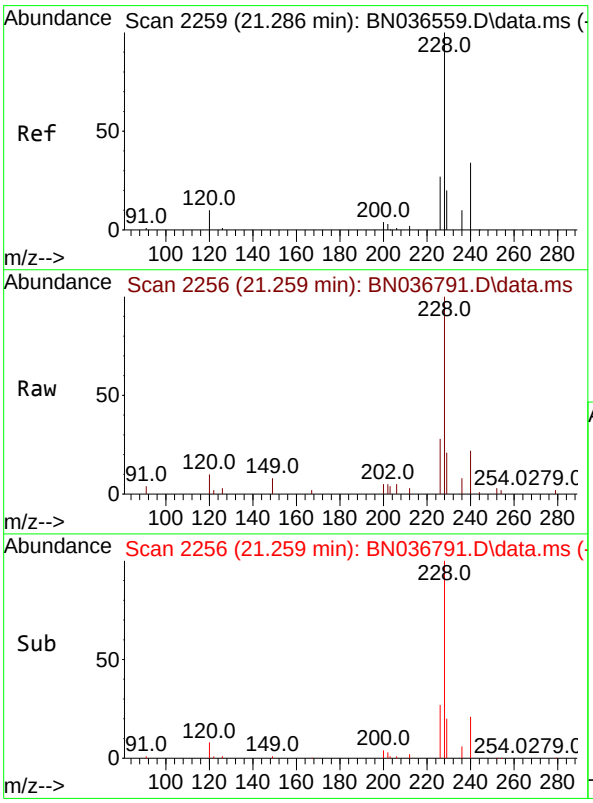
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 12.2 | 9.6 | 14.4 |
| 122 | 17.0 | 13.9 | 20.9 |

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations**
**APPROVED**

Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

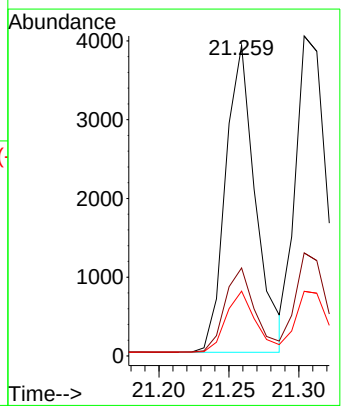


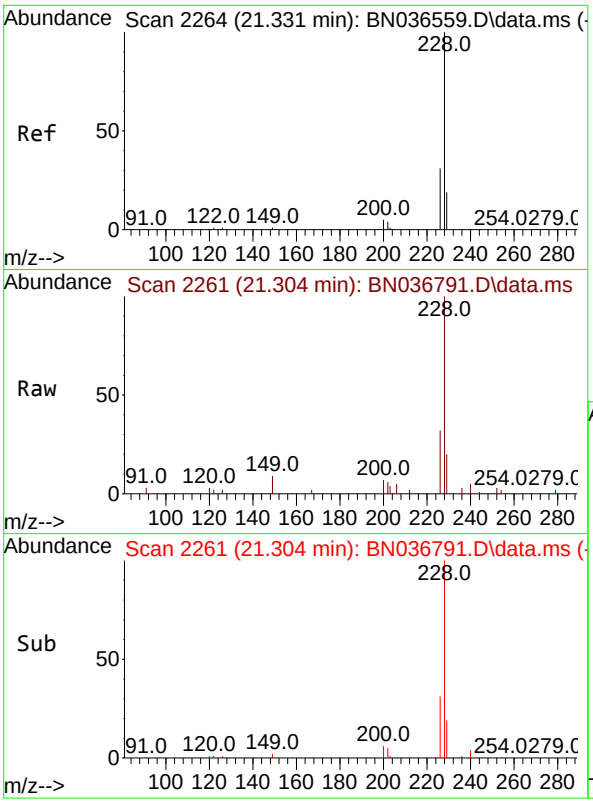




#32
Benzo(a)anthracene
Concen: 0.363 ng
RT: 21.259 min Scan# 2256
Delta R.T. -0.027 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion:228 Resp: 5842

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 28.3 | 22.5 | 33.7 |
| 229 | 20.9 | 16.6 | 25.0 |

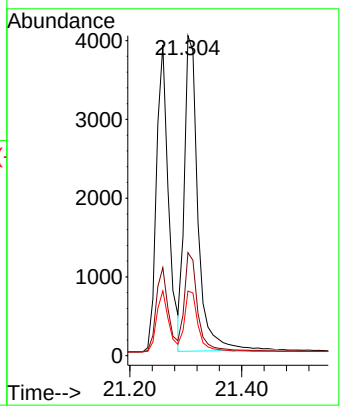





#33
Chrysene
Concen: 0.385 ng
RT: 21.304 min Scan# 2
Delta R.T. -0.027 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion:228 Resp: 678

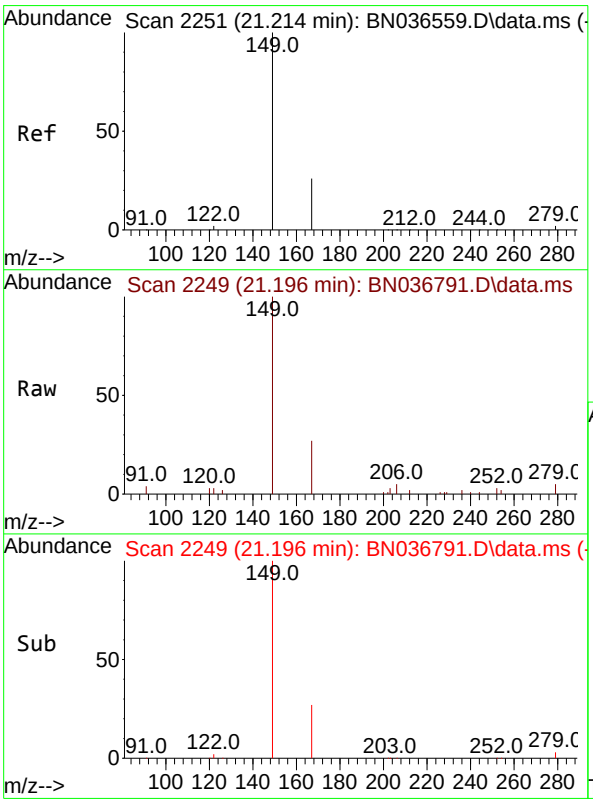
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 32.2 | 25.3 | 37.9 |
| 229 | 20.2 | 15.8 | 23.8 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations**
**APPROVED**

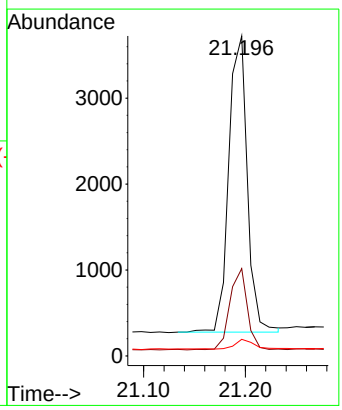
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

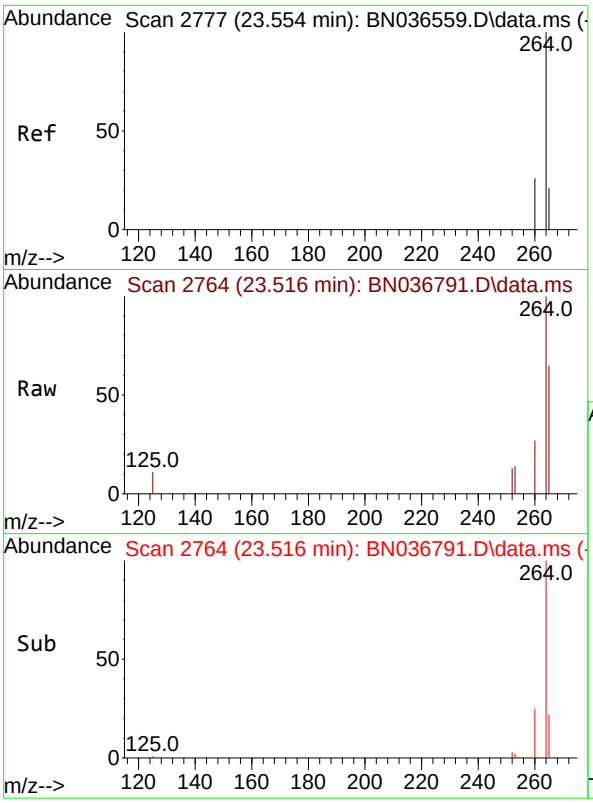



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.380 ng
RT: 21.196 min Scan# 2249
Delta R.T. -0.018 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion:149 Resp: 4355

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 25.9 | 20.7 | 31.1 |
| 279 | 3.3 | 3.6 | 5.4# |

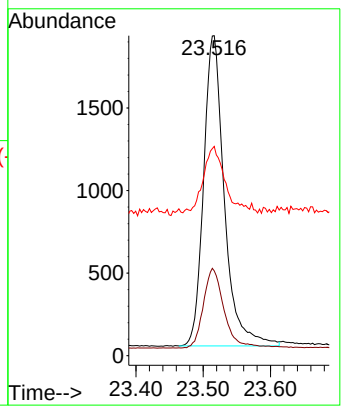





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.516 min Scan# 2
Delta R.T. -0.038 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion:264 Resp: 403

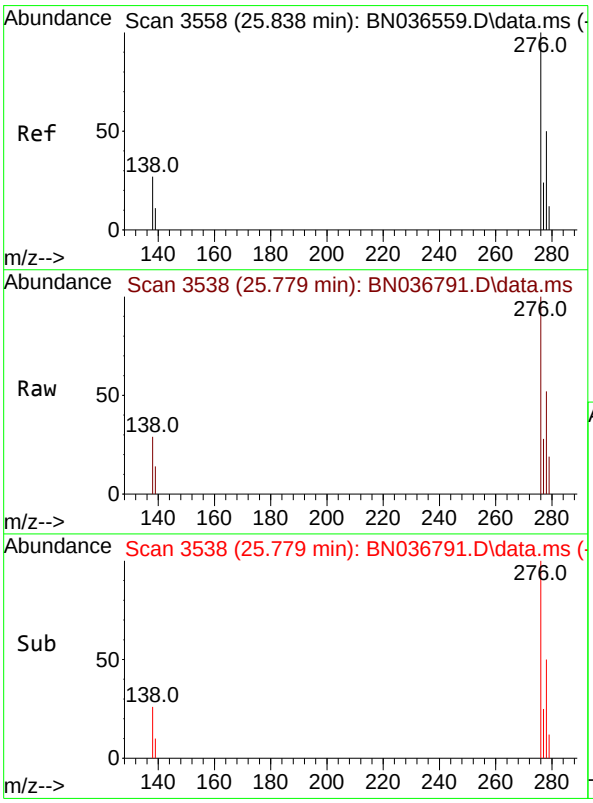
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 26.5 | 22.6 | 33.8 |
| 265 | 65.4 | 88.1 | 132.1# |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations**
**APPROVED**

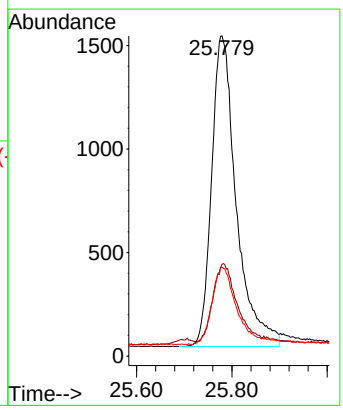
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

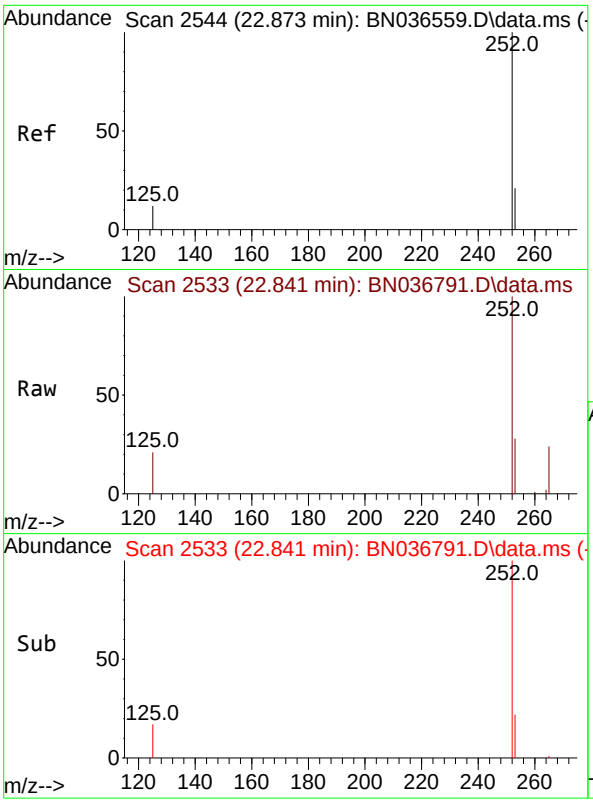



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.372 ng
RT: 25.779 min Scan# 3538
Delta R.T. -0.058 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion:276 Resp: 5407

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 24.1 | 23.4 | 35.2 |
| 277 | 25.4 | 20.0 | 30.0 |

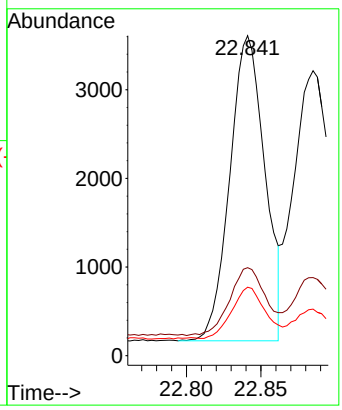





#37
Benzo(b)fluoranthene
Concen: 0.383 ng
RT: 22.841 min Scan# 2
Delta R.T. -0.032 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion:252 Resp: 562

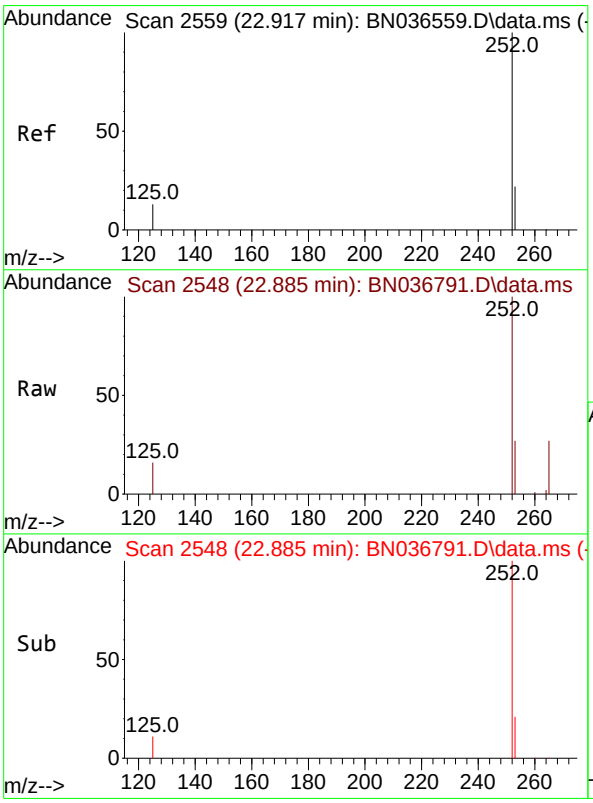
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 27.5 | 23.9 | 35.9 |
| 125 | 21.4 | 17.4 | 26.2 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations**
**APPROVED**

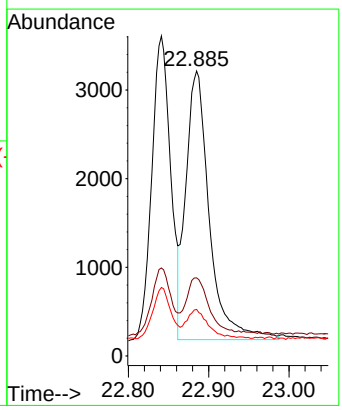
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

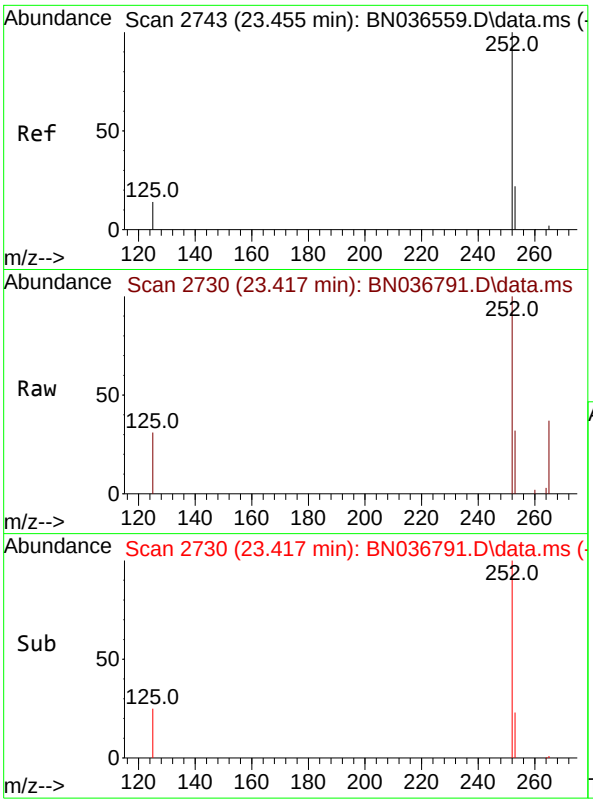



#38
Benzo(k)fluoranthene
Concen: 0.400 ng m
RT: 22.885 min Scan# 2548
Delta R.T. -0.032 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion:252 Resp: 6157

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 27.4 | 24.6 | 36.8 |
| 125 | 16.4 | 17.8 | 26.8# |

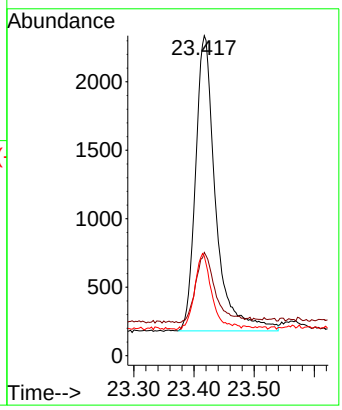





#39
Benzo(a)pyrene
Concen: 0.404 ng
RT: 23.417 min Scan# 2
Delta R.T. -0.038 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion:252 Resp: 499

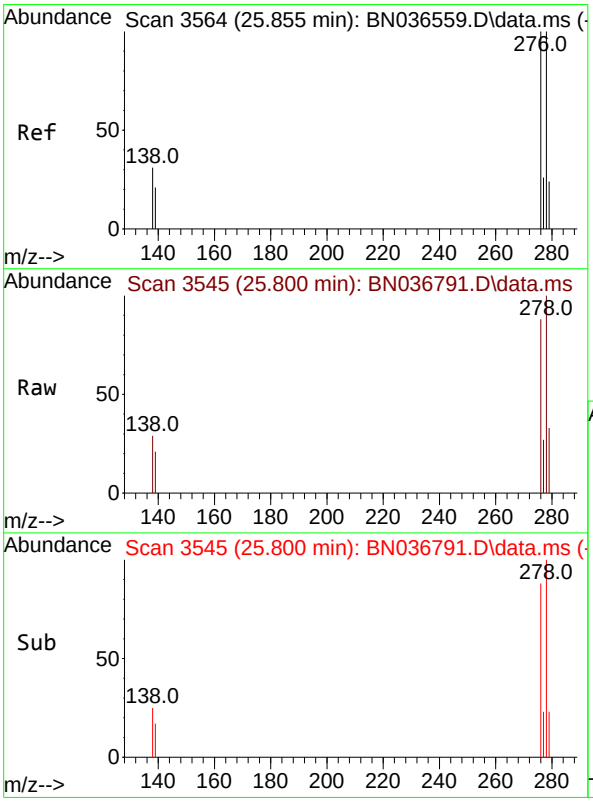
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 32.3 | 27.8 | 41.8 |
| 125 | 31.1 | 22.7 | 34.1 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations**
**APPROVED**

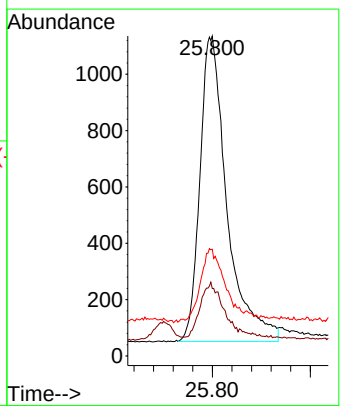
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

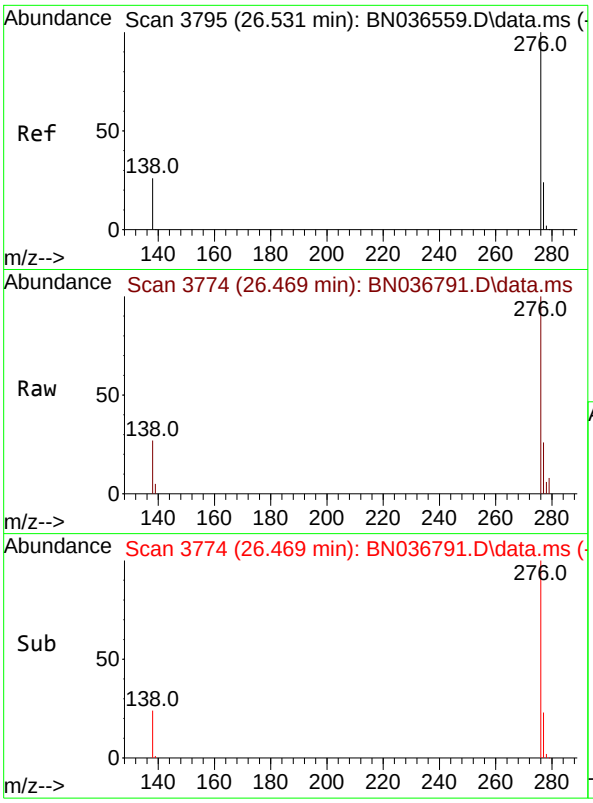



#40
Dibenzo(a,h)anthracene
Concen: 0.366 ng
RT: 25.800 min Scan# 3545
Delta R.T. -0.055 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion:278 Resp: 4150

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 21.1 | 20.8 | 31.2 |
| 279 | 33.4 | 28.8 | 43.2 |

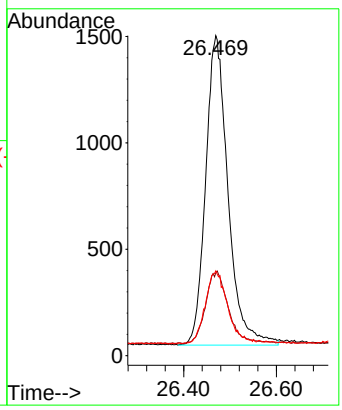





#41
Benzo(g,h,i)perylene
Concen: 0.376 ng
RT: 26.469 min Scan# 3
Delta R.T. -0.061 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion:276 Resp: 487

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 25.9 | 22.2 | 33.4 |
| 138 | 26.5 | 24.1 | 36.1 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations**
**APPROVED**

Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032825\
Data File : BN036791.D
Acq On : 29 Mar 2025 02:44
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 22 Sample Multiplier: 1

**Instrument :**
BNA_N
**LabSampleId :**
SSTDCCC0.4

Quant Time: Mar 29 04:28:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
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 | 83 | -0.03 |
| 2 | | 1,4-Dioxane | 0.444 | 0.453 | -2.0 | 75 | -0.01 |
| 3 | | n-Nitrosodimethylamine | 0.898 | 0.962 | -7.1 | 85 | 0.00 |
| 4 | S | 2-Fluorophenol | 0.932 | 0.833 | 10.6 | 70 | -0.02 |
| 5 | S | Phenol-d6 | 1.152 | 1.007 | 12.6 | 74 | -0.03 |
| 6 | | bis(2-Chloroethyl)ether | 1.190 | 1.030 | 13.4 | 72 | -0.03 |
| 7 | I | Naphthalene-d8 | 1.000 | 1.000 | 0.0 | 88 | -0.03 |
| 8 | S | Nitrobenzene-d5 | 0.435 | 0.376 | 13.6 | 80 | -0.03 |
| 9 | | Naphthalene | 1.177 | 1.056 | 10.3 | 77 | -0.03 |
| 10 | | Hexachlorobutadiene | 0.277 | 0.258 | 6.9 | 77 | -0.03 |
| 11 | SURR | 2-Methylnaphthalene-d10 | 0.595 | 0.526 | 11.6 | 77 | -0.04 |
| 12 | | 2-Methylnaphthalene | 0.749 | 0.678 | 9.5 | 78 | -0.03 |
| 13 | I | Acenaphthene-d10 | 1.000 | 1.000 | 0.0 | 89 | -0.03 |
| 14 | S | 2,4,6-Tribromophenol | 0.182 | 0.178 | 2.2 | 85 | -0.02 |
| 15 | S | 2-Fluorobiphenyl | 2.327 | 2.041 | 12.3 | 76 | -0.03 |
| 16 | | Acenaphthylene | 1.888 | 1.678 | 11.1 | 77 | -0.02 |
| 17 | | Acenaphthene | 1.236 | 1.134 | 8.3 | 79 | -0.03 |
| 18 | | Fluorene | 1.672 | 1.558 | 6.8 | 79 | -0.02 |
| 19 | I | Phenanthrene-d10 | 1.000 | 1.000 | 0.0 | 93 | -0.02 |
| 20 | | 4,6-Dinitro-2-methylphenol | 0.086 | 0.071 | 17.4 | 85 | -0.02 |
| 21 | | 4-Bromophenyl-phenylether | 0.251 | 0.243 | 3.2 | 82 | -0.02 |
| 22 | | Hexachlorobenzene | 0.303 | 0.284 | 6.3 | 78 | -0.02 |
| 23 | | Atrazine | 0.201 | 0.196 | 2.5 | 85 | -0.02 |
| 24 | | Pentachlorophenol | 0.138 | 0.133 | 3.6 | 90 | -0.04 |
| 25 | | Phenanthrene | 1.200 | 1.152 | 4.0 | 82 | -0.02 |
| 26 | | Anthracene | 1.083 | 1.018 | 6.0 | 82 | -0.02 |
| 27 | SURR | Fluoranthene-d10 | 1.025 | 1.032 | -0.7 | 86 | -0.02 |
| 28 | | Fluoranthene | 1.348 | 1.397 | -3.6 | 89 | -0.03 |
| 29 | I | Chrysene-d12 | 1.000 | 1.000 | 0.0 | 113 | -0.03 |
| 30 | | Pyrene | 1.956 | 1.715 | 12.3 | 91 | -0.02 |
| 31 | S | Terphenyl-d14 | 0.958 | 0.782 | 18.4 | 86 | -0.02 |
| 32 | | Benzo(a)anthracene | 1.391 | 1.261 | 9.3 | 99 | -0.03 |
| 33 | | Chrysene | 1.520 | 1.463 | 3.7 | 102 | -0.03 |
| 34 | | Bis(2-ethylhexyl)phthalate | 0.990 | 0.940 | 5.1 | 101 | -0.02 |
| 35 | I | Perylene-d12 | 1.000 | 1.000 | 0.0 | 114 | -0.04 |
| 36 | | Indeno(1,2,3-cd)pyrene | 1.444 | 1.341 | 7.1 | 99 | -0.06 |
| 37 | | Benzo(b)fluoranthene | 1.456 | 1.396 | 4.1 | 103 | -0.03 |
| 38 | | Benzo(k)fluoranthene | 1.527 | 1.527 | 0.0 | 107 | -0.03 |
| 39 | C | Benzo(a)pyrene | 1.226 | 1.238 | -1.0 | 108 | -0.04 |
| 40 | | Dibenzo(a,h)anthracene | 1.124 | 1.029 | 8.5 | 101 | -0.06 |
| 41 | | Benzo(g,h,i)perylene | 1.286 | 1.209 | 6.0 | 100 | -0.06 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032825\
Data File : BN036791.D
Acq On : 29 Mar 2025 02:44
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 22 Sample Multiplier: 1

**Instrument :**
BNA_N
**LabSampleId :**
SSTDCCC0.4

Quant Time: Mar 29 04:28:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
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 | 83 | -0.03 |
| 2 | | 1,4-Dioxane | 0.400 | 0.408 | -2.0 | 75 | -0.01 |
| 3 | | n-Nitrosodimethylamine | 0.400 | 0.429 | -7.2 | 85 | 0.00 |
| 4 | S | 2-Fluorophenol | 0.400 | 0.357 | 10.8 | 70 | -0.02 |
| 5 | S | Phenol-d6 | 0.400 | 0.350 | 12.5 | 74 | -0.03 |
| 6 | | bis(2-Chloroethyl)ether | 0.400 | 0.346 | 13.5 | 72 | -0.03 |
| 7 | I | Naphthalene-d8 | 0.400 | 0.400 | 0.0 | 88 | -0.03 |
| 8 | S | Nitrobenzene-d5 | 0.400 | 0.346 | 13.5 | 80 | -0.03 |
| 9 | | Naphthalene | 0.400 | 0.359 | 10.3 | 77 | -0.03 |
| 10 | | Hexachlorobutadiene | 0.400 | 0.373 | 6.8 | 77 | -0.03 |
| 11 | SURR | 2-Methylnaphthalene-d10 | 0.400 | 0.354 | 11.5 | 77 | -0.04 |
| 12 | | 2-Methylnaphthalene | 0.400 | 0.362 | 9.5 | 78 | -0.03 |
| 13 | I | Acenaphthene-d10 | 0.400 | 0.400 | 0.0 | 89 | -0.03 |
| 14 | S | 2,4,6-Tribromophenol | 0.400 | 0.392 | 2.0 | 85 | -0.02 |
| 15 | S | 2-Fluorobiphenyl | 0.400 | 0.351 | 12.3 | 76 | -0.03 |
| 16 | | Acenaphthylene | 0.400 | 0.356 | 11.0 | 77 | -0.02 |
| 17 | | Acenaphthene | 0.400 | 0.367 | 8.3 | 79 | -0.03 |
| 18 | | Fluorene | 0.400 | 0.373 | 6.8 | 79 | -0.02 |
| 19 | I | Phenanthrene-d10 | 0.400 | 0.400 | 0.0 | 93 | -0.02 |
| 20 | | 4,6-Dinitro-2-methylphenol | 0.400 | 0.423 | -5.7 | 85 | -0.02 |
| 21 | | 4-Bromophenyl-phenylether | 0.400 | 0.388 | 3.0 | 82 | -0.02 |
| 22 | | Hexachlorobenzene | 0.400 | 0.375 | 6.3 | 78 | -0.02 |
| 23 | | Atrazine | 0.400 | 0.389 | 2.8 | 85 | -0.02 |
| 24 | | Pentachlorophenol | 0.400 | 0.385 | 3.8 | 90 | -0.04 |
| 25 | | Phenanthrene | 0.400 | 0.384 | 4.0 | 82 | -0.02 |
| 26 | | Anthracene | 0.400 | 0.376 | 6.0 | 82 | -0.02 |
| 27 | SURR | Fluoranthene-d10 | 0.400 | 0.403 | -0.8 | 86 | -0.02 |
| 28 | | Fluoranthene | 0.400 | 0.415 | -3.7 | 89 | -0.03 |
| 29 | I | Chrysene-d12 | 0.400 | 0.400 | 0.0 | 113 | -0.03 |
| 30 | | Pyrene | 0.400 | 0.351 | 12.3 | 91 | -0.02 |
| 31 | S | Terphenyl-d14 | 0.400 | 0.326 | 18.5 | 86 | -0.02 |
| 32 | | Benzo(a)anthracene | 0.400 | 0.363 | 9.3 | 99 | -0.03 |
| 33 | | Chrysene | 0.400 | 0.385 | 3.8 | 102 | -0.03 |
| 34 | | Bis(2-ethylhexyl)phthalate | 0.400 | 0.380 | 5.0 | 101 | -0.02 |
| 35 | I | Perylene-d12 | 0.400 | 0.400 | 0.0 | 114 | -0.04 |
| 36 | | Indeno(1,2,3-cd)pyrene | 0.400 | 0.372 | 7.0 | 99 | -0.06 |
| 37 | | Benzo(b)fluoranthene | 0.400 | 0.383 | 4.3 | 103 | -0.03 |
| 38 | | Benzo(k)fluoranthene | 0.400 | 0.400 | 0.0 | 107 | -0.03 |
| 39 | C | Benzo(a)pyrene | 0.400 | 0.404 | -1.0 | 108 | -0.04 |
| 40 | | Dibenzo(a,h)anthracene | 0.400 | 0.366 | 8.5 | 101 | -0.06 |
| 41 | | Benzo(g,h,i)perylene | 0.400 | 0.376 | 6.0 | 100 | -0.06 |

(#) = 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.: Q1629 SAS No.: Q1629 SDG No.: Q1629

Instrument ID: BNA_N Calibration Date/Time: 03/29/2025 12:21

Lab File ID: BN036807.D Init. Calib. Date(s): 03/10/2025 03/10/2025

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 11:42 15:19

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

| COMPOUND | RRF | RRF0.4 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| 2-Methylnaphthalene-d10 | 0.595 | 0.526 | | -11.6 | 50.0 |
| Fluoranthene-d10 | 1.025 | 0.985 | | -3.9 | 50.0 |
| 2-Fluorophenol | 0.932 | 0.835 | | -10.4 | 50.0 |
| Phenol-d6 | 1.152 | 0.978 | | -15.1 | 50.0 |
| Nitrobenzene-d5 | 0.435 | 0.364 | | -16.3 | 50.0 |
| 2-Fluorobiphenyl | 2.327 | 1.915 | | -17.7 | 50.0 |
| 2,4,6-Tribromophenol | 0.182 | 0.169 | | -7.1 | 50.0 |
| Terphenyl-d14 | 0.958 | 0.875 | | -8.7 | 50.0 |
| 1,4-Dioxane | 0.444 | 0.456 | | 2.7 | 50.0 |

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032825\
Data File : BN036807.D
Acq On : 29 Mar 2025 12:21
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 38 Sample Multiplier: 1

Quant Time: Mar 31 02:01:08 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations APPROVED**

Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.695 | 152 | 1976 | 0.400 | ng | -0.03 |
| 7) Naphthalene-d8 | 10.477 | 136 | 4956 | 0.400 | ng | -0.03 |
| 13) Acenaphthene-d10 | 14.334 | 164 | 3044 | 0.400 | ng | -0.03 |
| 19) Phenanthrene-d10 | 17.086 | 188 | 6169 | 0.400 | ng | #-0.02 |
| 29) Chrysene-d12 | 21.268 | 240 | 4366 | 0.400 | ng | -0.03 |
| 35) Perylene-d12 | 23.516 | 264 | 3818 | 0.400 | ng | #-0.04 |
| **System Monitoring Compounds** | | | | | | |
| 4) 2-Fluorophenol | 5.290 | 112 | 1649 | 0.358 | ng | -0.02 |
| 5) Phenol-d6 | 6.865 | 99 | 1932 | 0.340 | ng | -0.04 |
| 8) Nitrobenzene-d5 | 8.843 | 82 | 1802 | 0.334 | ng | -0.03 |
| 11) 2-Methylnaphthalene-d10 | 12.075 | 152 | 2608 | 0.354 | ng | -0.04 |
| 14) 2,4,6-Tribromophenol | 15.833 | 330 | 513 | 0.371 | ng | -0.02 |
| 15) 2-Fluorobiphenyl | 12.958 | 172 | 5830 | 0.329 | ng | -0.03 |
| 27) Fluoranthene-d10 | 19.118 | 212 | 6077 | 0.384 | ng | -0.02 |
| 31) Terphenyl-d14 | 19.722 | 244 | 3821 | 0.365 | ng | -0.02 |
| **Target Compounds** | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.225 | 88 | 902 | 0.411 | ng | 97 |
| 3) n-Nitrosodimethylamine | 3.535 | 42 | 1839 | 0.415 | ng | 92 |
| 6) bis(2-Chloroethyl)ether | 7.125 | 93 | 1990 | 0.338 | ng | 99 |
| 9) Naphthalene | 10.530 | 128 | 5183 | 0.356 | ng | 99 |
| 10) Hexachlorobutadiene | 10.818 | 225 | 1228 | 0.358 | ng | # 100 |
| 12) 2-Methylnaphthalene | 12.151 | 142 | 3312 | 0.357 | ng | 98 |
| 16) Acenaphthylene | 14.056 | 152 | 5001 | 0.348 | ng | 99 |
| 17) Acenaphthene | 14.398 | 154 | 3395 | 0.361 | ng | 99 |
| 18) Fluorene | 15.382 | 166 | 4624 | 0.364 | ng | 100 |
| 20) 4,6-Dinitro-2-methylph... | 15.478 | 198 | 475 | 0.447 | ng | # 73 |
| 21) 4-Bromophenyl-phenylether | 16.280 | 248 | 1424 | 0.368 | ng | 93 |
| 22) Hexachlorobenzene | 16.391 | 284 | 1729 | 0.371 | ng | 97 |
| 23) Atrazine | 16.553 | 200 | 1168 | 0.377 | ng | 96 |
| 24) Pentachlorophenol | 16.739 | 266 | 792 | 0.372 | ng | 99 |
| 25) Phenanthrene | 17.124 | 178 | 6985 | 0.377 | ng | 100 |
| 26) Anthracene | 17.211 | 178 | 6251 | 0.374 | ng | 98 |
| 28) Fluoranthene | 19.146 | 202 | 8157 | 0.392 | ng | 98 |
| 30) Pyrene | 19.508 | 202 | 8270 | 0.387 | ng | 100 |
| 32) Benzo(a)anthracene | 21.259 | 228 | 5377 | 0.354 | ng | 100 |
| 33) Chrysene | 21.304 | 228 | 6263 | 0.378 | ng | 99 |
| 34) Bis(2-ethylhexyl)phtha... | 21.196 | 149 | 4162 | 0.385 | ng | # 99 |
| 36) Indeno(1,2,3-cd)pyrene | 25.779 | 276 | 5188 | 0.376 | ng | 93 |
| 37) Benzo(b)fluoranthene | 22.841 | 252 | 5191 | 0.374 | ng | 98 |
| 38) Benzo(k)fluoranthene | 22.885 | 252 | 5835m | 0.400 | ng | |
| 39) Benzo(a)pyrene | 23.417 | 252 | 4547 | 0.389 | ng | 96 |
| 40) Dibenzo(a,h)anthracene | 25.800 | 278 | 4113m | 0.383 | ng | |
| 41) Benzo(g,h,i)perylene | 26.472 | 276 | 4558 | 0.371 | ng | 95 |

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

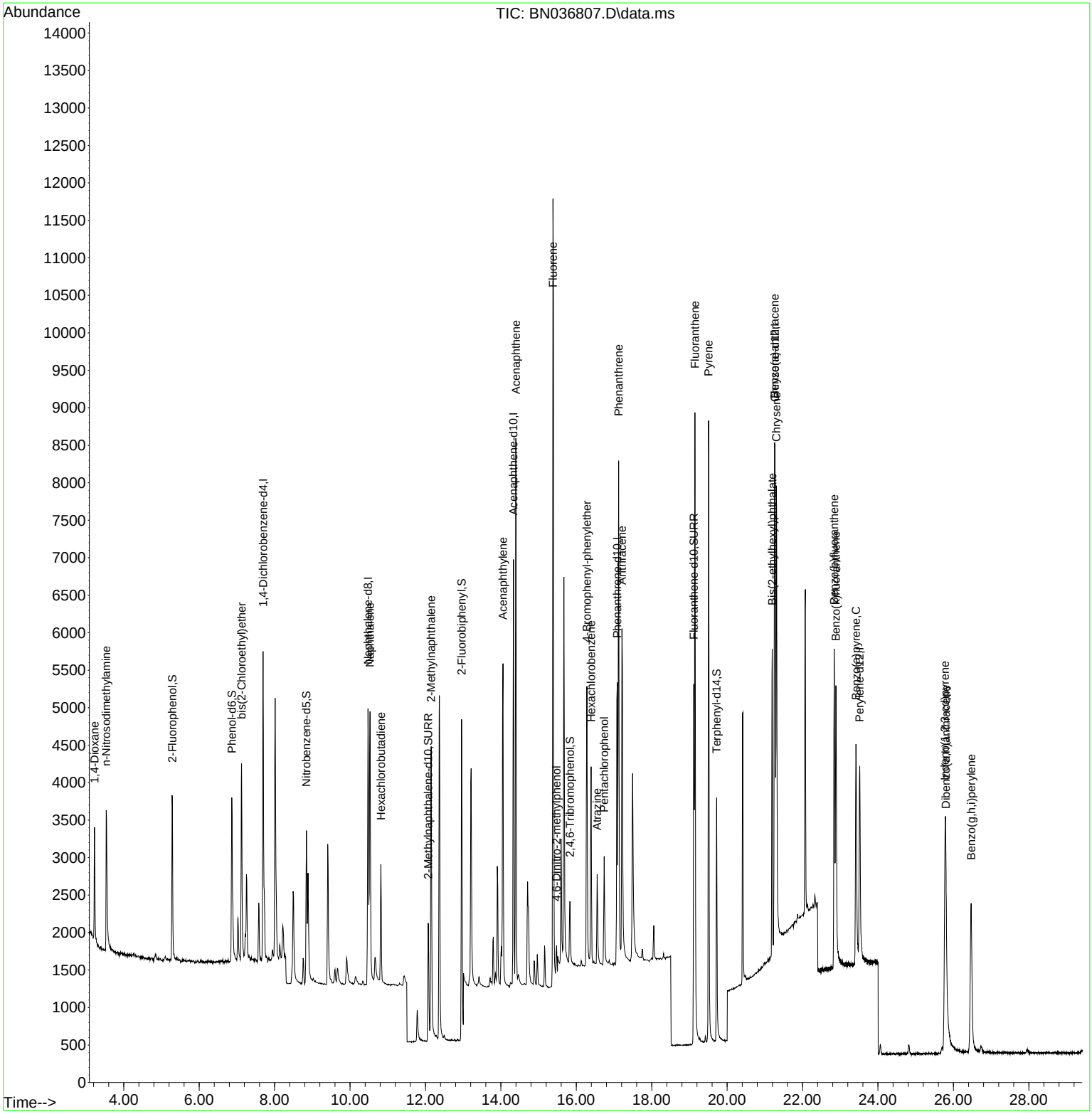
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032825\
Data File : BN036807.D
Acq On : 29 Mar 2025 12:21
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 38 Sample Multiplier: 1

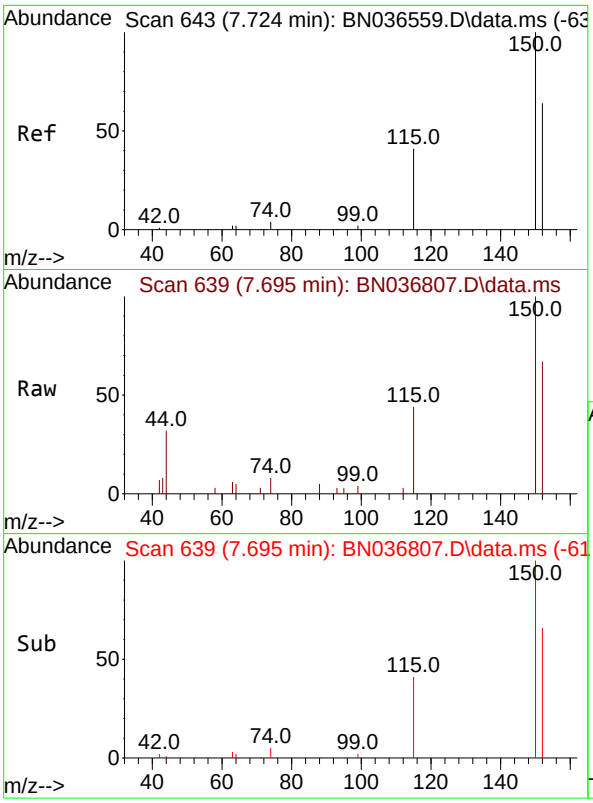
Quant Time: Mar 31 02:01:08 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations APPROVED**

Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

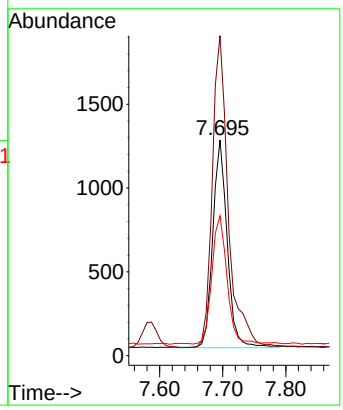





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.695 min Scan# 6
Delta R.T. -0.029 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Tgt Ion:152 Resp: 197

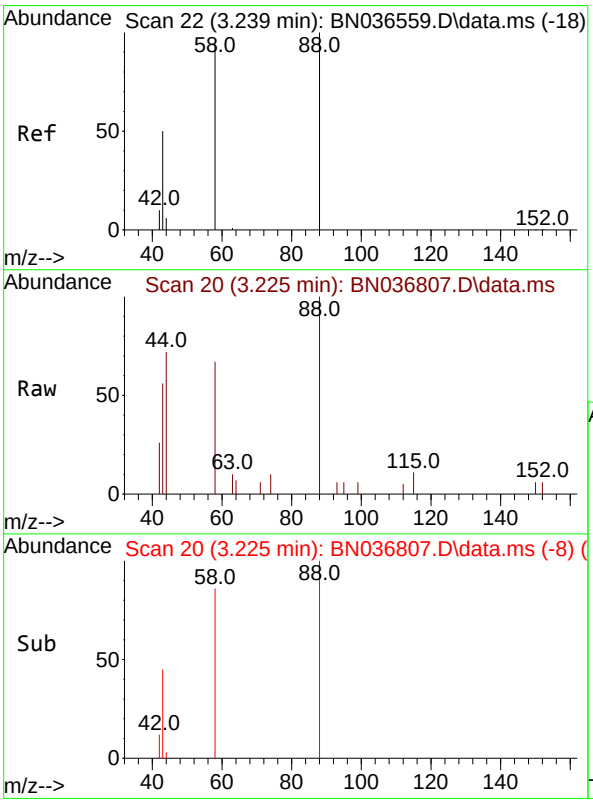
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 148.3 | 123.7 | 185.5 |
| 115 | 64.8 | 54.3 | 81.5 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations**
**APPROVED**

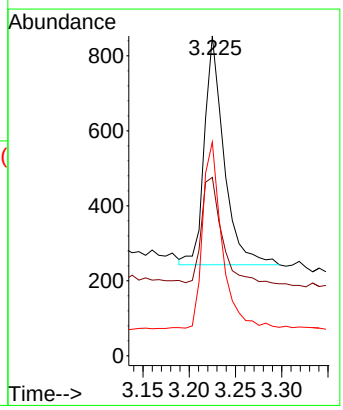
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

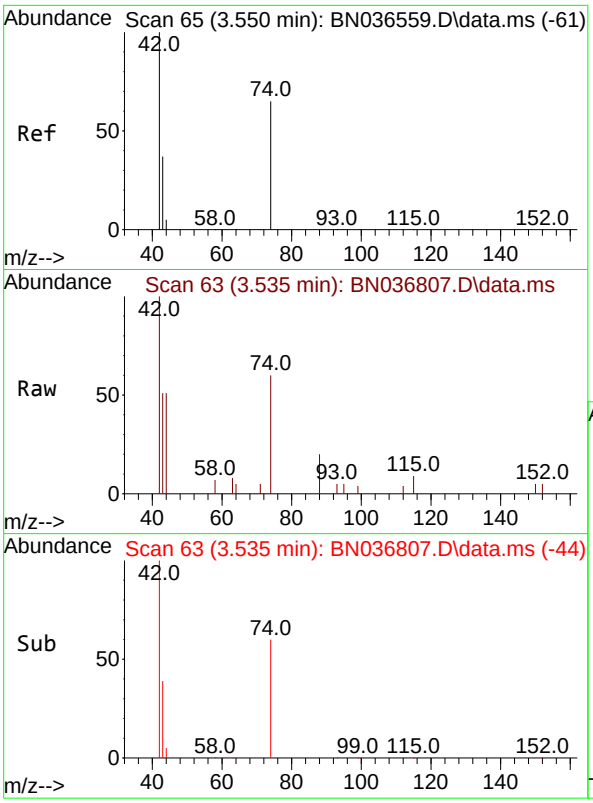



#2
1,4-Dioxane
Concen: 0.411 ng
RT: 3.225 min Scan# 20
Delta R.T. -0.014 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Tgt Ion: 88 Resp: 902

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 48.6 | 37.8 | 56.8 |
| 58 | 81.3 | 67.4 | 101.2 |

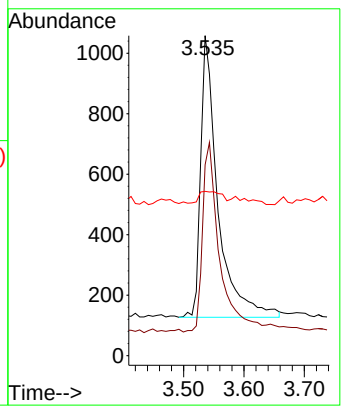





#3
n-Nitrosodimethylamine
Concen: 0.415 ng
RT: 3.535 min Scan# 6
Delta R.T. -0.014 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Tgt Ion: 42 Resp: 183

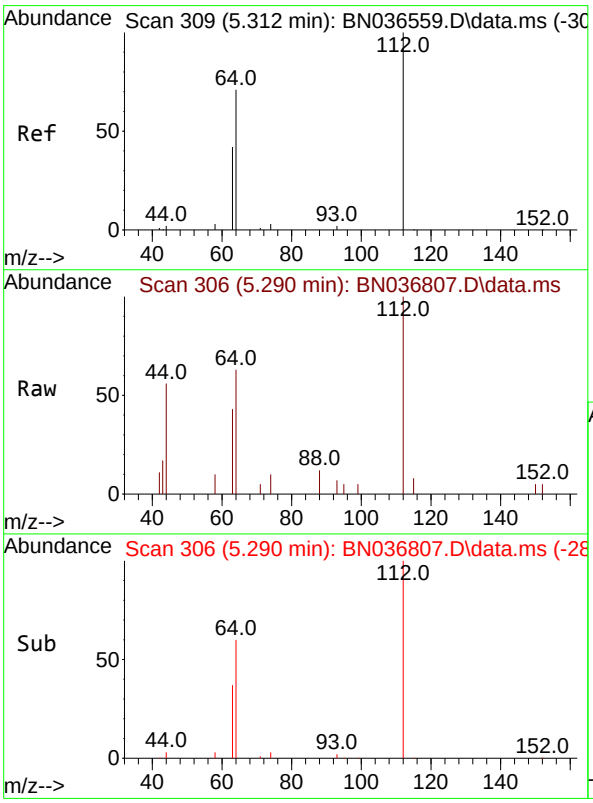
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 68.4 | 60.6 | 90.8 |
| 44 | 6.7 | 6.3 | 9.5 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations**
**APPROVED**

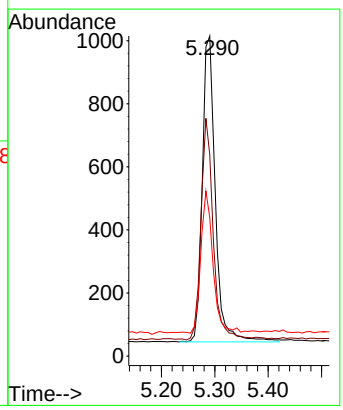
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

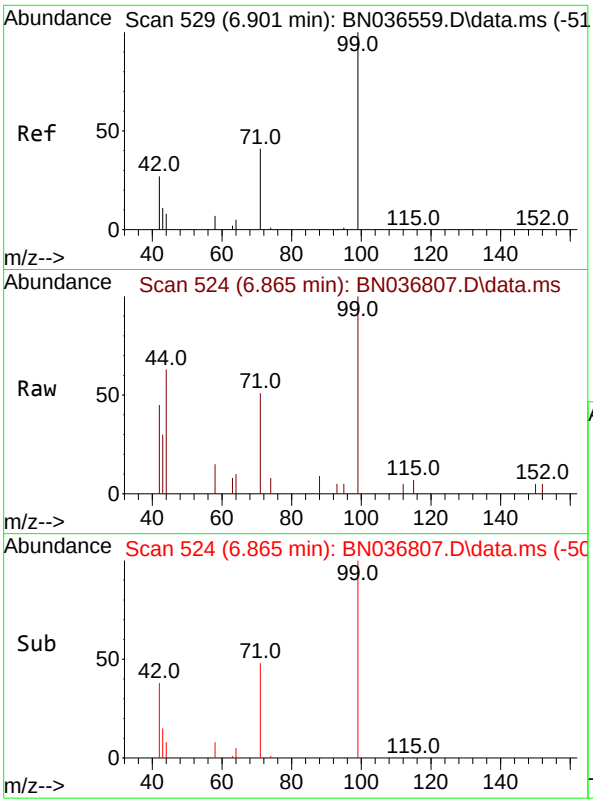



#4
2-Fluorophenol
Concen: 0.358 ng
RT: 5.290 min Scan# 306
Delta R.T. -0.022 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Tgt Ion:112 Resp: 1649

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 68.3 | 53.1 | 79.7 |
| 63 | 42.4 | 31.8 | 47.8 |






#5
Phenol-d6
Concen: 0.340 ng
RT: 6.865 min Scan# 5
Delta R.T. -0.036 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

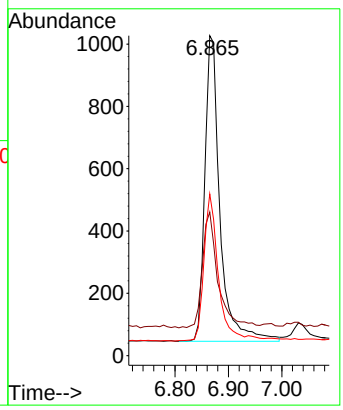
Tgt Ion: 99 Resp: 193

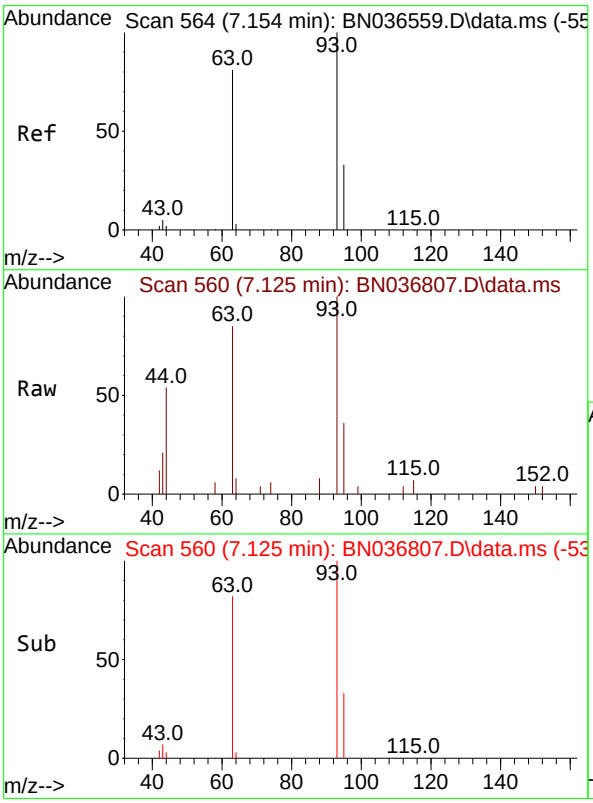
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 39.4 | 26.5 | 39.7 |
| 71 | 46.4 | 34.1 | 51.1 |

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations**
**APPROVED**

Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

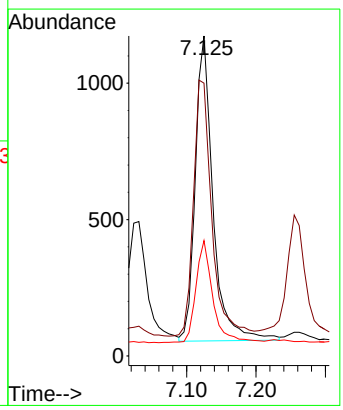


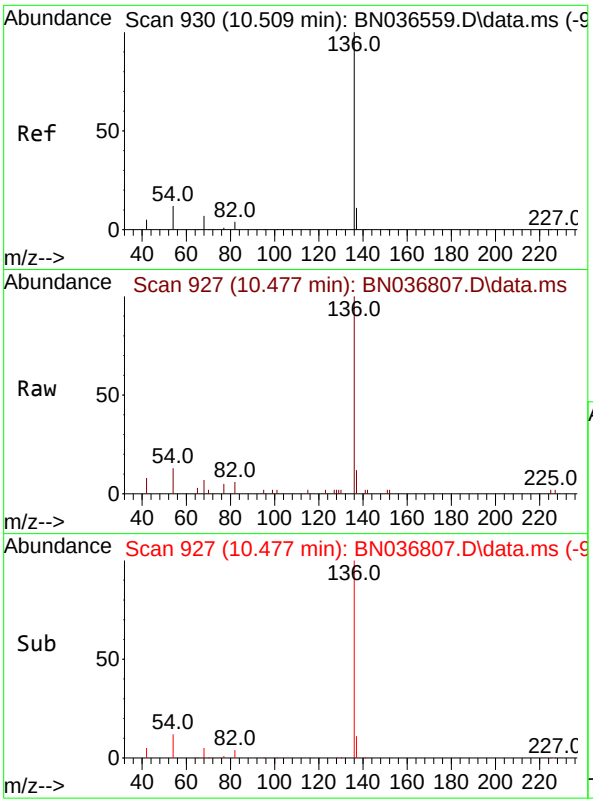




#6
bis(2-Chloroethyl)ether
Concen: 0.338 ng
RT: 7.125 min Scan# 560
Delta R.T. -0.029 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Tgt Ion: 93 Resp: 1990

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 86.3 | 67.7 | 101.5 |
| 95 | 31.9 | 25.6 | 38.4 |

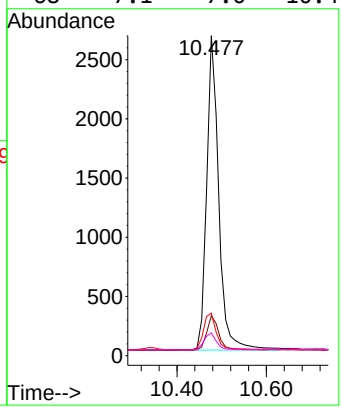





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.477 min Scan# 9
Delta R.T. -0.032 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Tgt Ion:136 Resp: 495

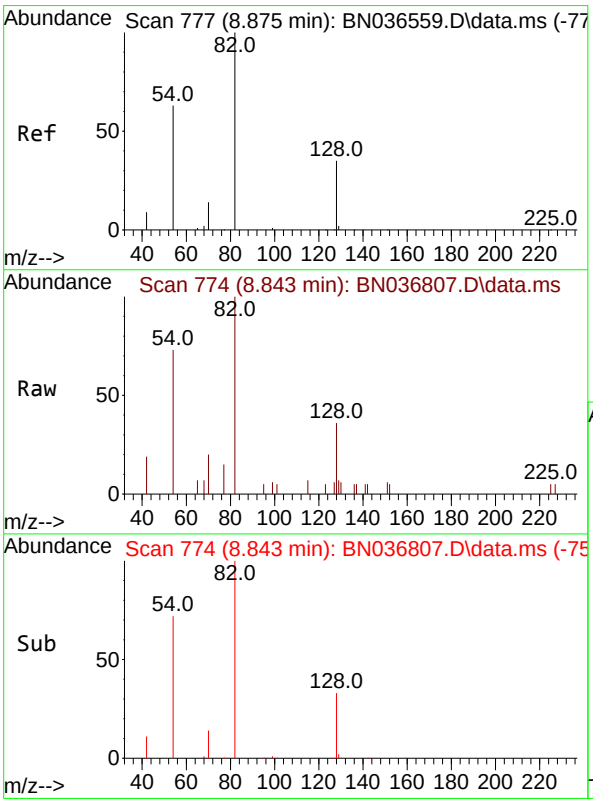
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 12.4 | 10.3 | 15.5 |
| 54 | 13.3 | 11.5 | 17.3 |
| 68 | 7.1 | 7.0 | 10.4 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations**
**APPROVED**

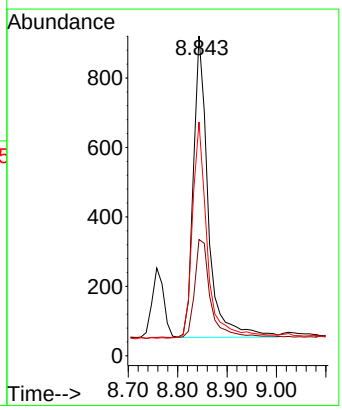
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

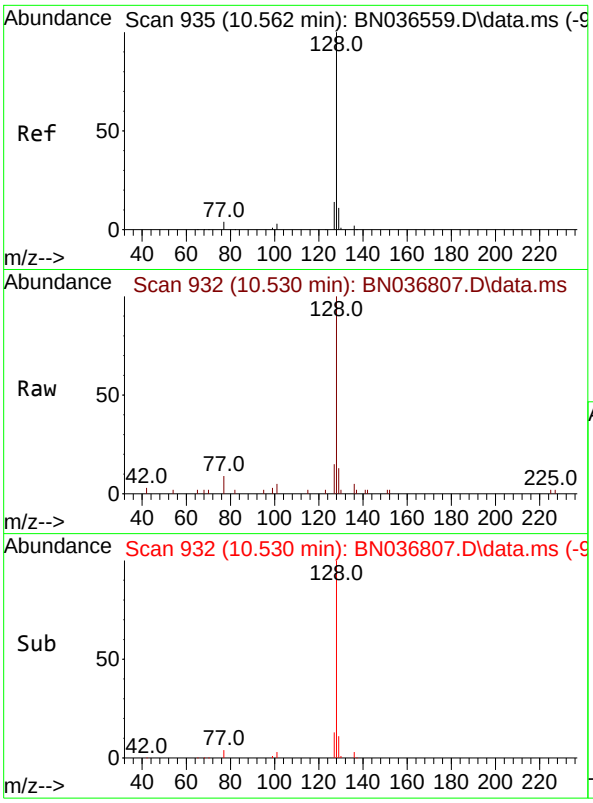



#8
Nitrobenzene-d5
Concen: 0.334 ng
RT: 8.843 min Scan# 774
Delta R.T. -0.032 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Tgt Ion: 82 Resp: 1802

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 36.4 | 30.6 | 45.8 |
| 54 | 73.1 | 52.2 | 78.4 |

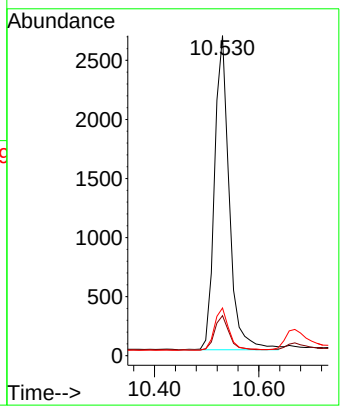





#9
Naphthalene
Concen: 0.356 ng
RT: 10.530 min Scan# 9
Delta R.T. -0.032 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Tgt Ion:128 Resp: 518

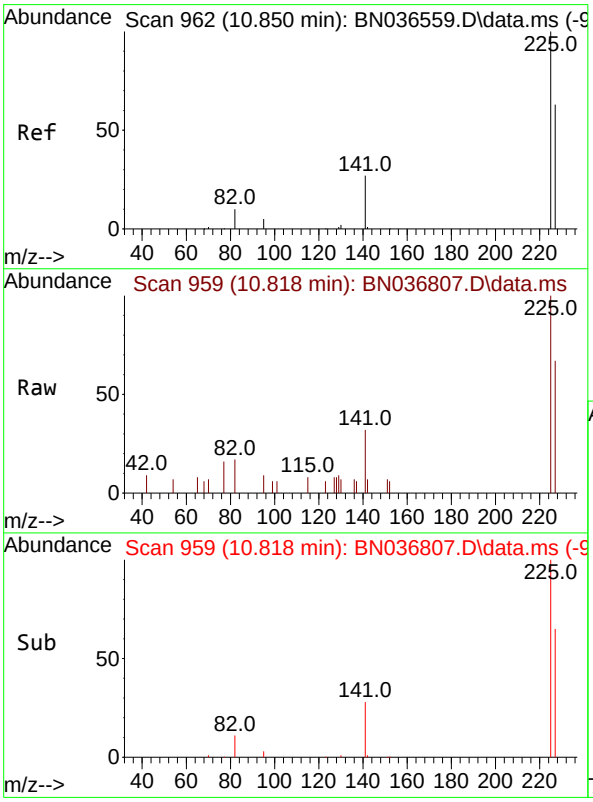
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 12.5 | 9.8 | 14.6 |
| 127 | 14.9 | 11.8 | 17.8 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations**
**APPROVED**

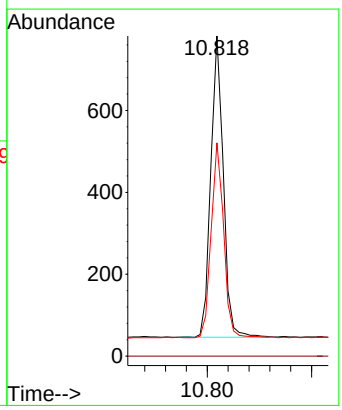
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

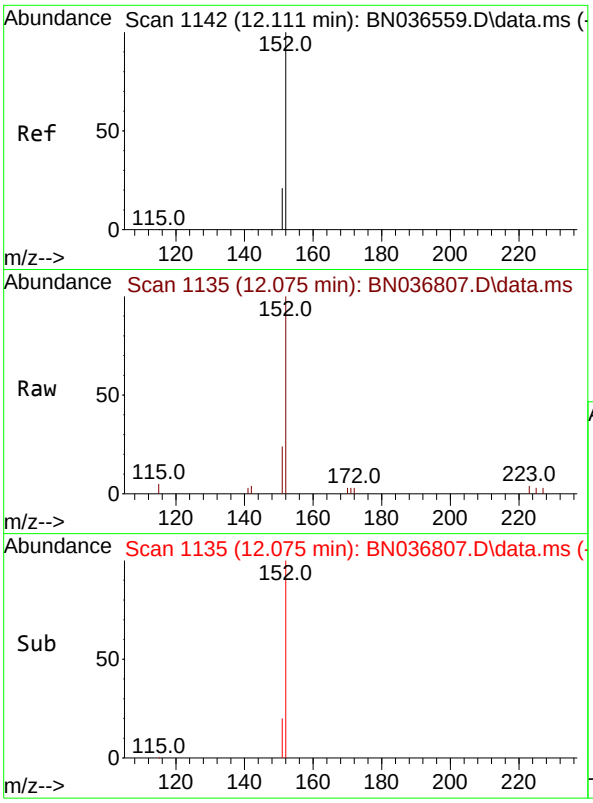



#10
Hexachlorobutadiene
Concen: 0.358 ng
RT: 10.818 min Scan# 959
Delta R.T. -0.032 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Tgt Ion:225 Resp: 1228

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 0.0 | 0.0 | 0.0 |
| 227 | 64.7 | 51.8 | 77.8 |






#11
2-Methylnaphthalene-d10
Concen: 0.354 ng
RT: 12.075 min Scan# 11
Delta R.T. -0.035 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

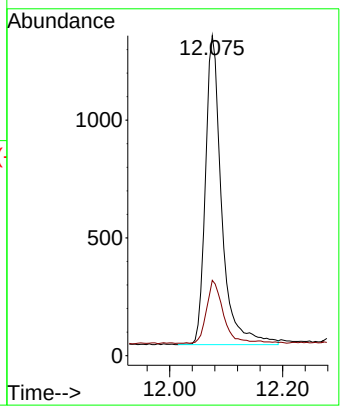
Tgt Ion:152 Resp: 260

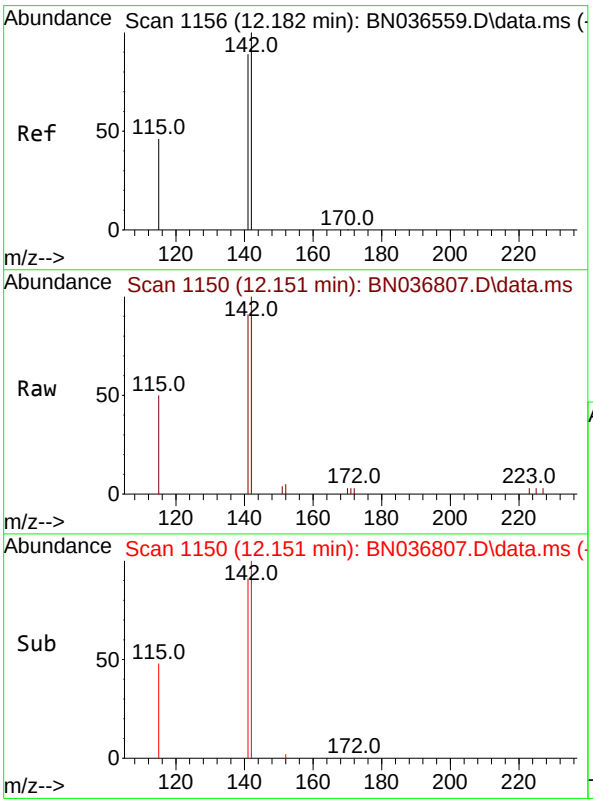
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.6 | 17.0 | 25.6 |

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations**
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Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

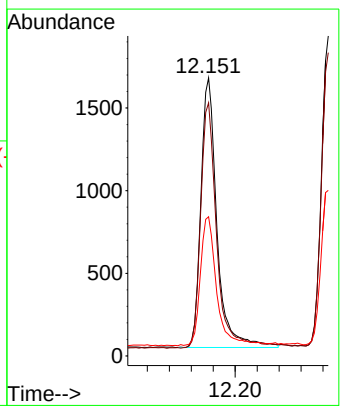


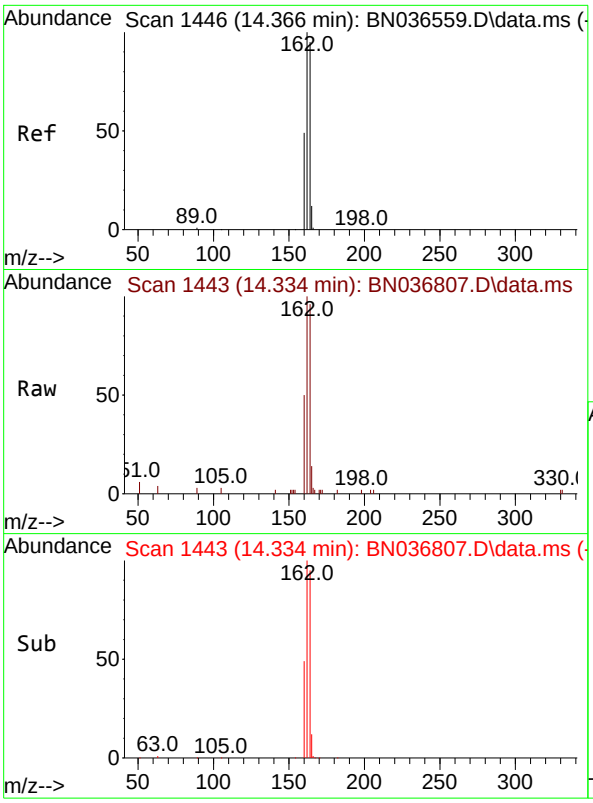




#12
2-Methylnaphthalene
Concen: 0.357 ng
RT: 12.151 min Scan# 1150
Delta R.T. -0.030 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Tgt Ion:142 Resp: 3312

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 91.0 | 71.7 | 107.5 |
| 115 | 50.1 | 38.3 | 57.5 |






#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.334 min Scan# 14
Delta R.T. -0.032 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

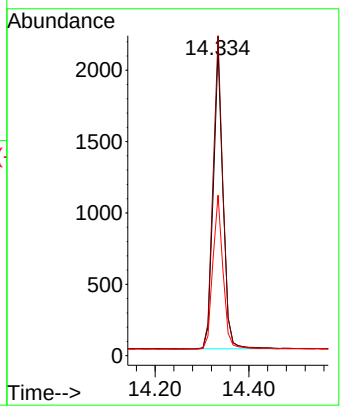
Tgt Ion:164 Resp: 3044

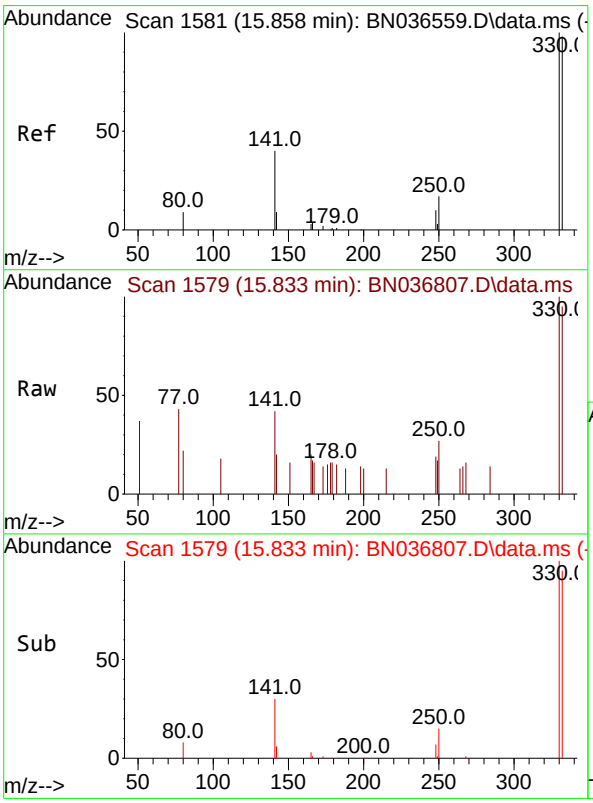
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 104.5 | 84.2 | 126.2 |
| 160 | 52.4 | 42.2 | 63.2 |

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations**
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Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

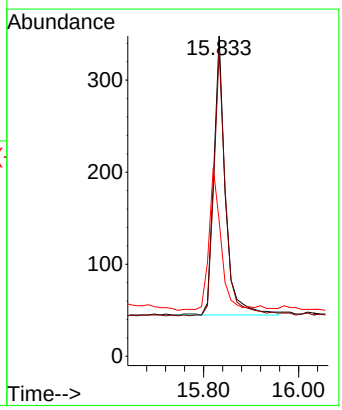


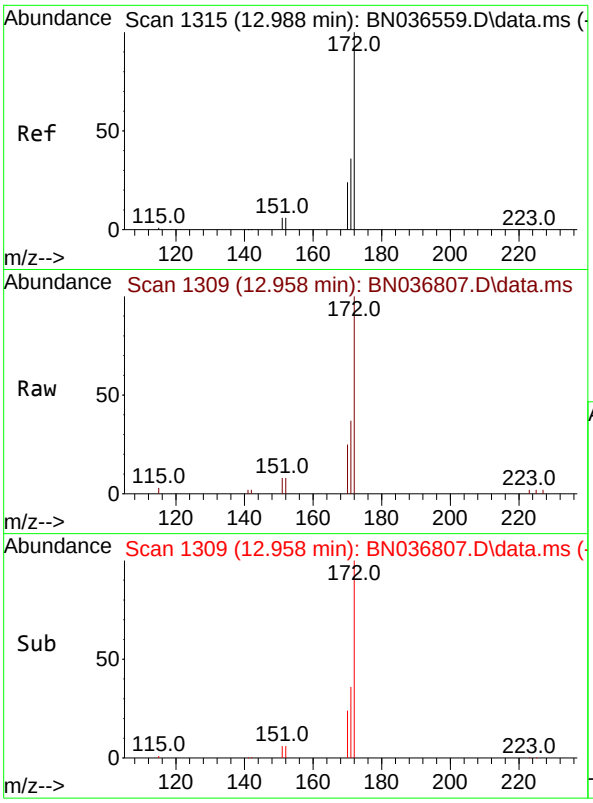




#14
2,4,6-Tribromophenol
Concen: 0.371 ng
RT: 15.833 min Scan# 1579
Delta R.T. -0.025 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Tgt Ion:330 Resp: 513

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 96.9 | 75.2 | 112.8 |
| 141 | 52.4 | 43.4 | 65.2 |

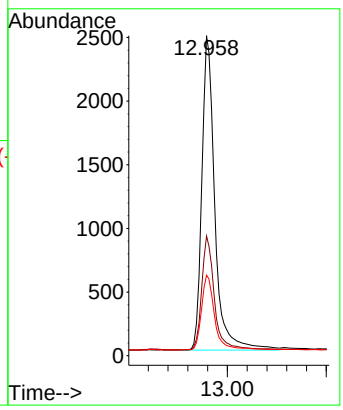





#15
2-Fluorobiphenyl
Concen: 0.329 ng
RT: 12.958 min Scan# 1
Delta R.T. -0.030 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Tgt Ion:172 Resp: 583

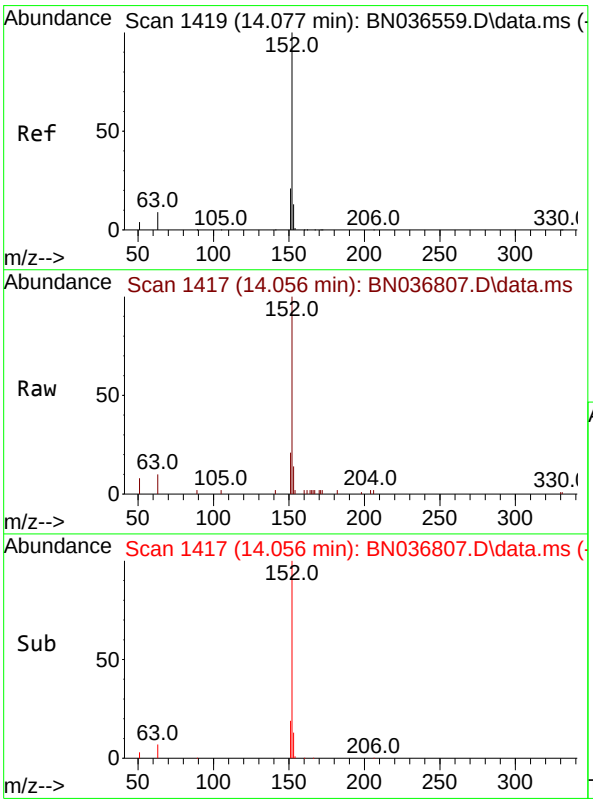
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 37.4 | 29.5 | 44.3 |
| 170 | 25.2 | 20.2 | 30.4 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations**
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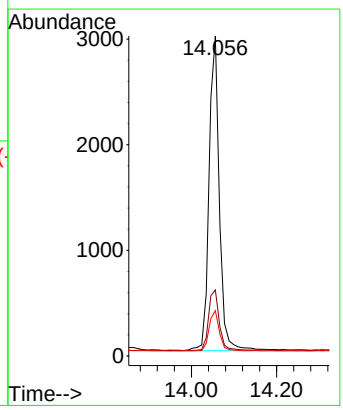
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

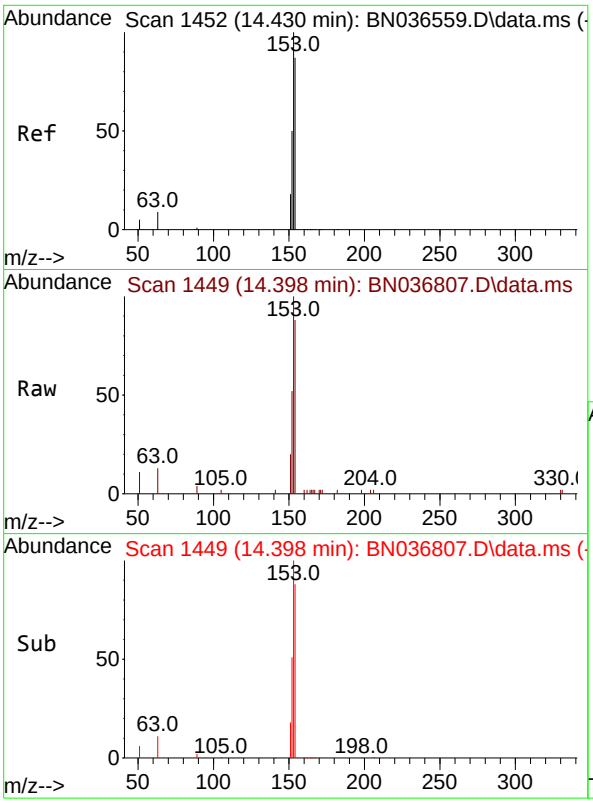



#16
Acenaphthylene
Concen: 0.348 ng
RT: 14.056 min Scan# 1417
Delta R.T. -0.021 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Tgt Ion:152 Resp: 5001

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 19.7 | 16.2 | 24.4 |
| 153 | 12.6 | 10.6 | 15.8 |

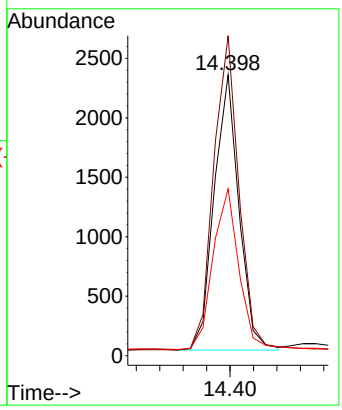





#17
Acenaphthene
Concen: 0.361 ng
RT: 14.398 min Scan# 14
Delta R.T. -0.032 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Tgt Ion:154 Resp: 339

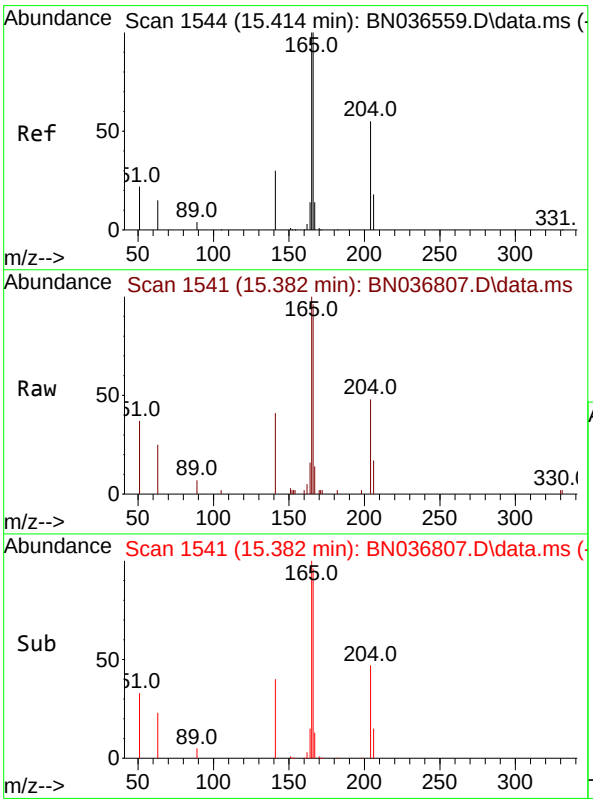
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 116.8 | 94.1 | 141.1 |
| 152 | 61.6 | 49.8 | 74.6 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations**
**APPROVED**

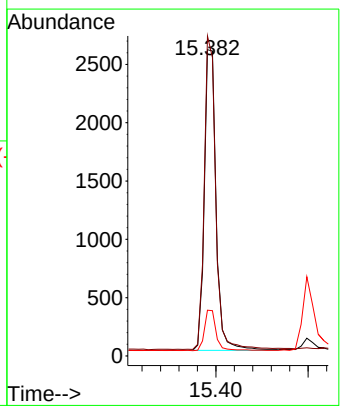
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

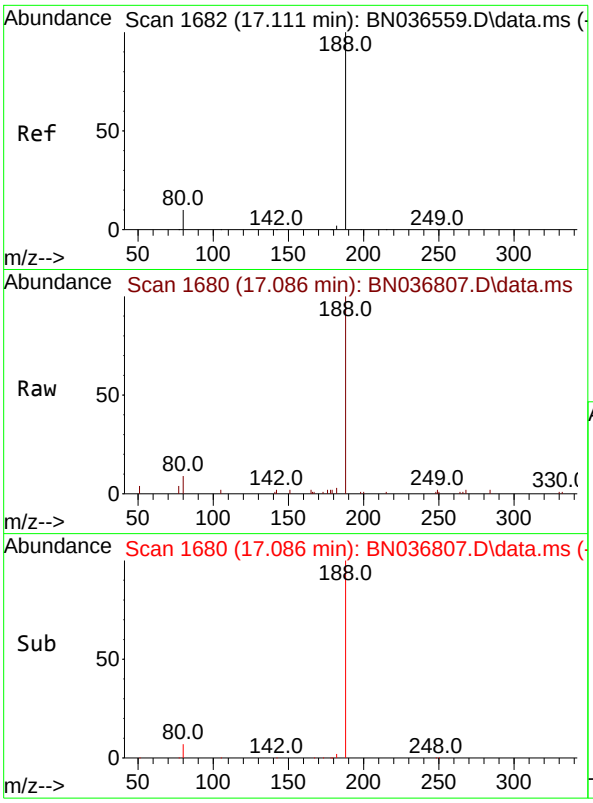



#18
Fluorene
Concen: 0.364 ng
RT: 15.382 min Scan# 1541
Delta R.T. -0.032 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Tgt Ion:166 Resp: 4624

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 99.9 | 79.8 | 119.8 |
| 167 | 13.3 | 10.6 | 15.8 |

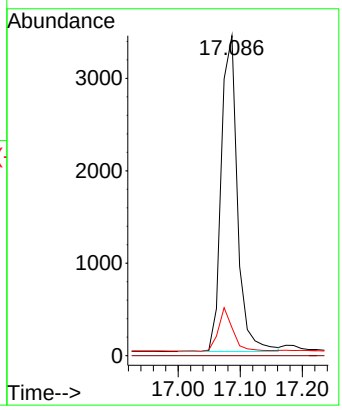





#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.086 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Tgt Ion:188 Resp: 616

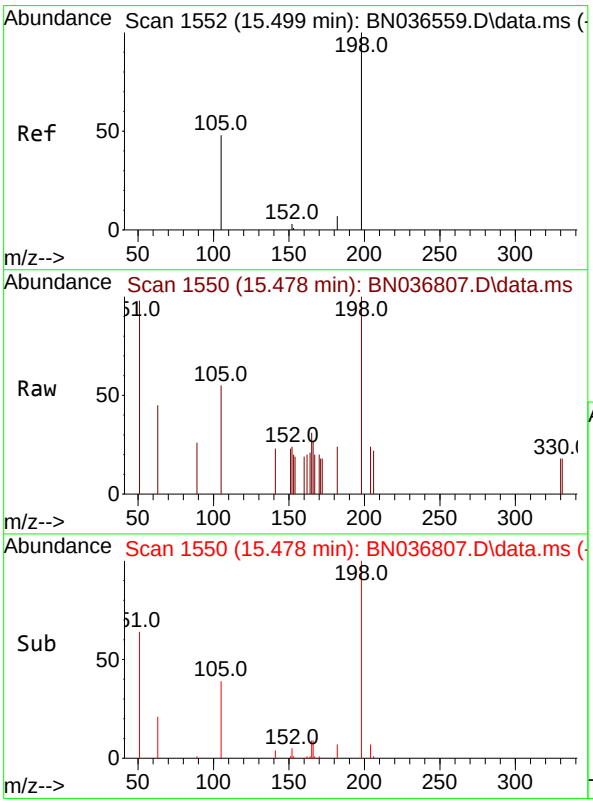
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 8.7 | 8.8 | 13.2# |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations**
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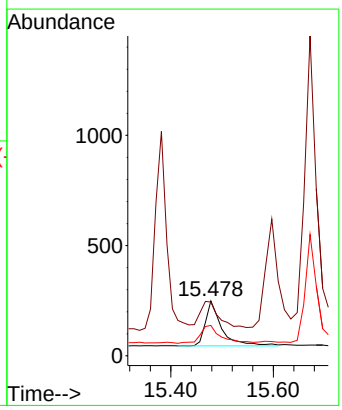
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

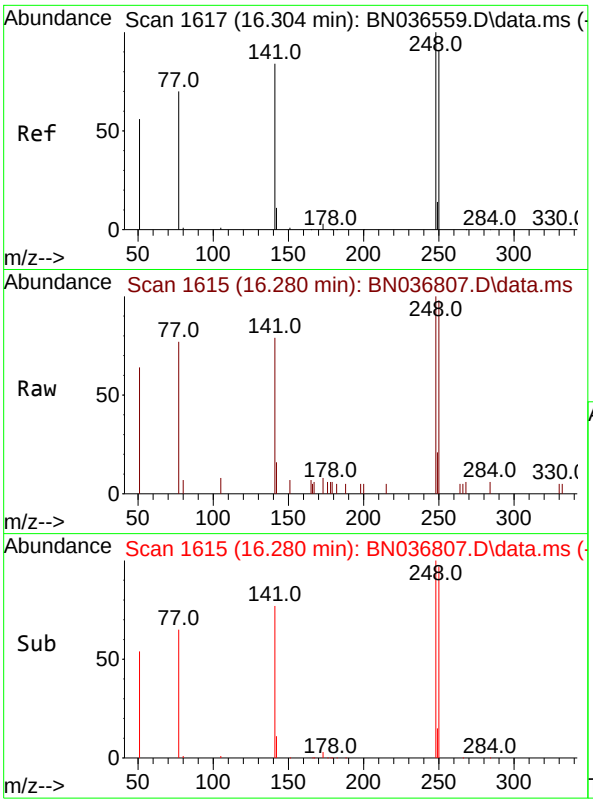



#20
4,6-Dinitro-2-methylphenol
Concen: 0.447 ng
RT: 15.478 min Scan# 1550
Delta R.T. -0.021 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Tgt Ion:198 Resp: 475

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 198 | 100 | | |
| 51 | 98.0 | 107.9 | 161.9# |
| 105 | 55.4 | 56.2 | 84.2# |






#21
4-Bromophenyl-phenylether
Concen: 0.368 ng
RT: 16.280 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

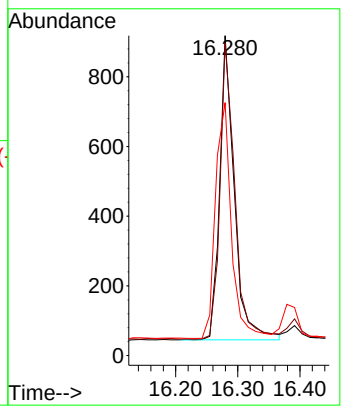
Tgt Ion:248 Resp: 142

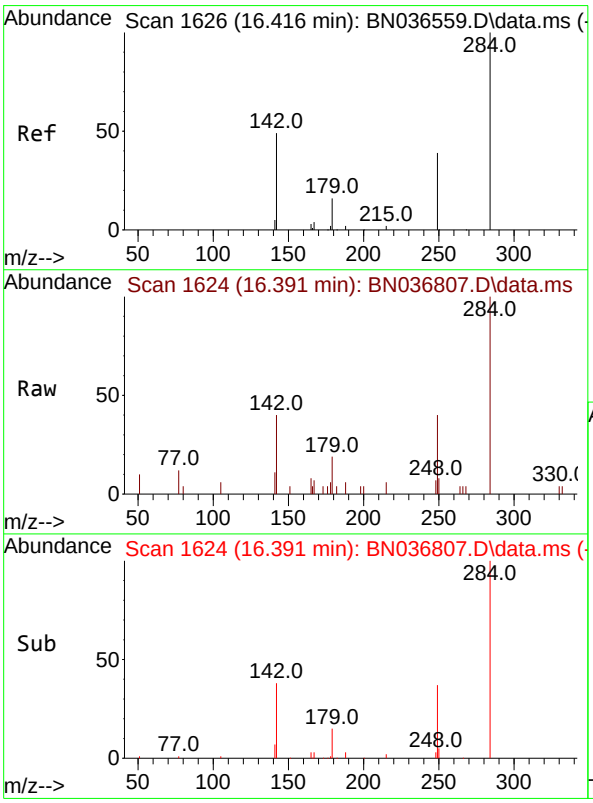
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 97.7 | 73.0 | 109.6 |
| 141 | 79.1 | 68.6 | 103.0 |

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations**
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Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

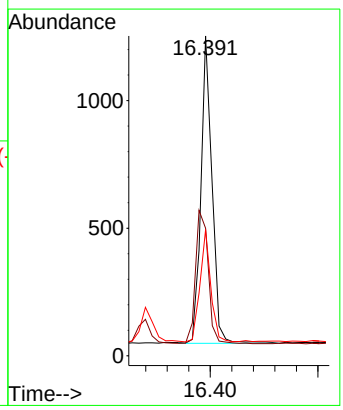


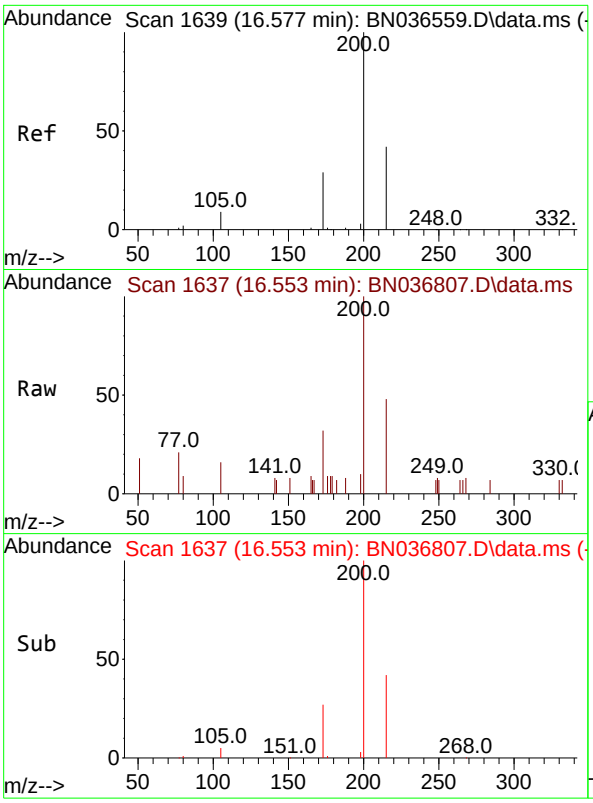




#22
Hexachlorobenzene
Concen: 0.371 ng
RT: 16.391 min Scan# 1624
Delta R.T. -0.025 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Tgt Ion:284 Resp: 1729

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 49.7 | 37.0 | 55.4 |
| 249 | 35.3 | 28.1 | 42.1 |

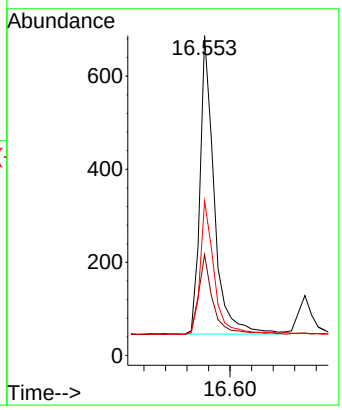





#23
Atrazine
Concen: 0.377 ng
RT: 16.553 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Tgt Ion:200 Resp: 116

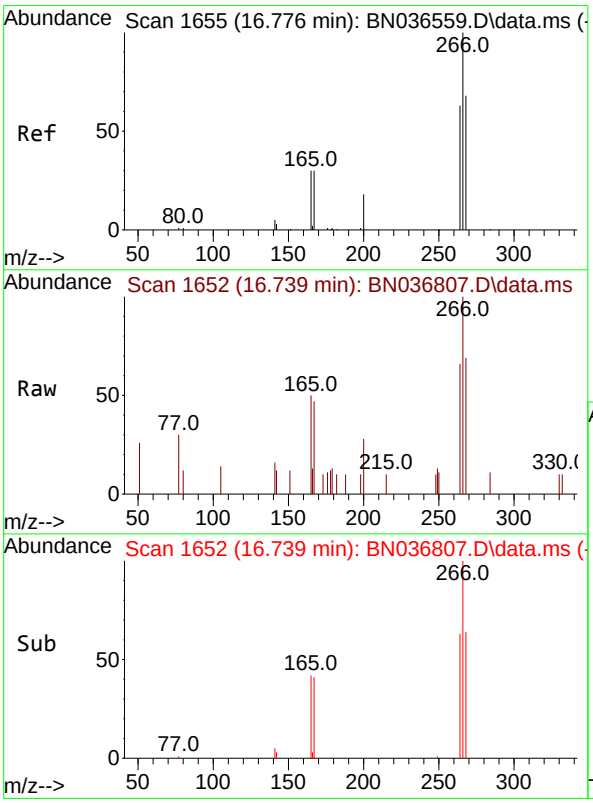
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 173 | 31.6 | 27.3 | 40.9 |
| 215 | 48.3 | 36.8 | 55.2 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations**
**APPROVED**

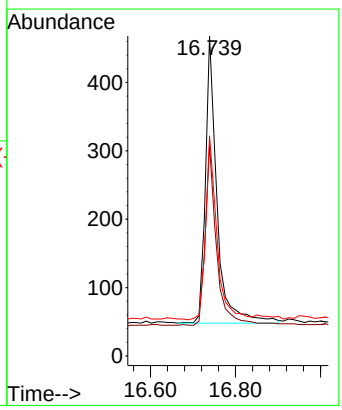
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

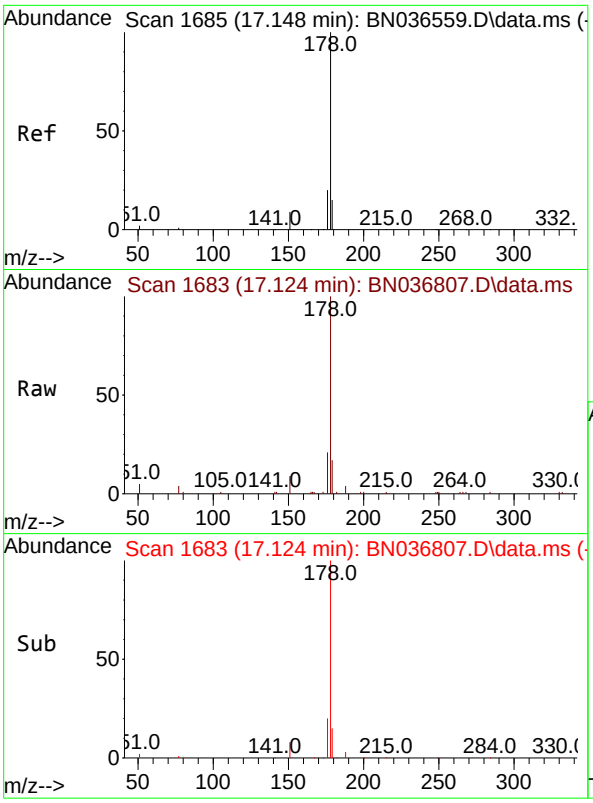



#24
Pentachlorophenol
Concen: 0.372 ng
RT: 16.739 min Scan# 1652
Delta R.T. -0.037 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Tgt Ion:266 Resp: 792

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 264 | 61.1 | 49.6 | 74.4 |
| 268 | 62.4 | 50.9 | 76.3 |

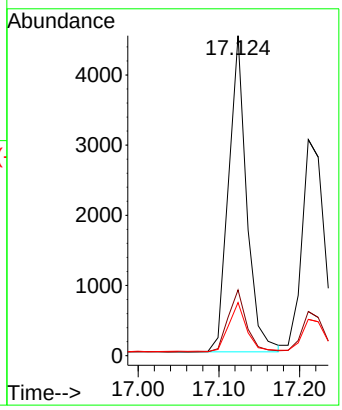





#25
Phenanthrene
Concen: 0.377 ng
RT: 17.124 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Tgt Ion:178 Resp: 698

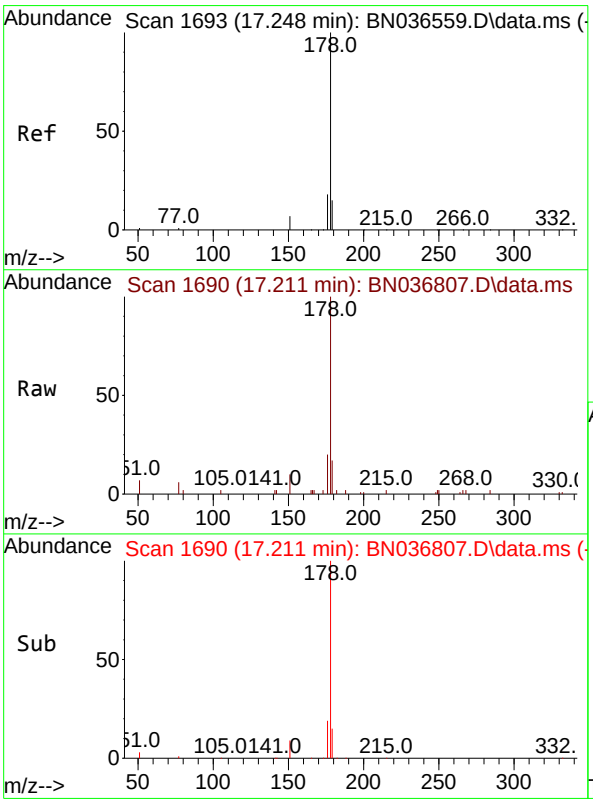
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.9 | 15.9 | 23.9 |
| 179 | 15.3 | 12.2 | 18.4 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations**
**APPROVED**

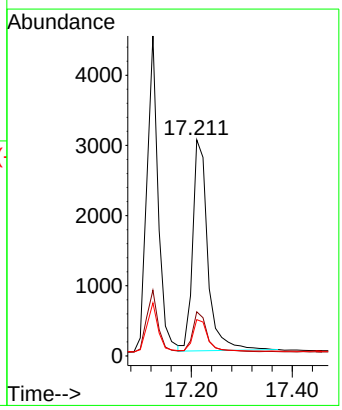
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

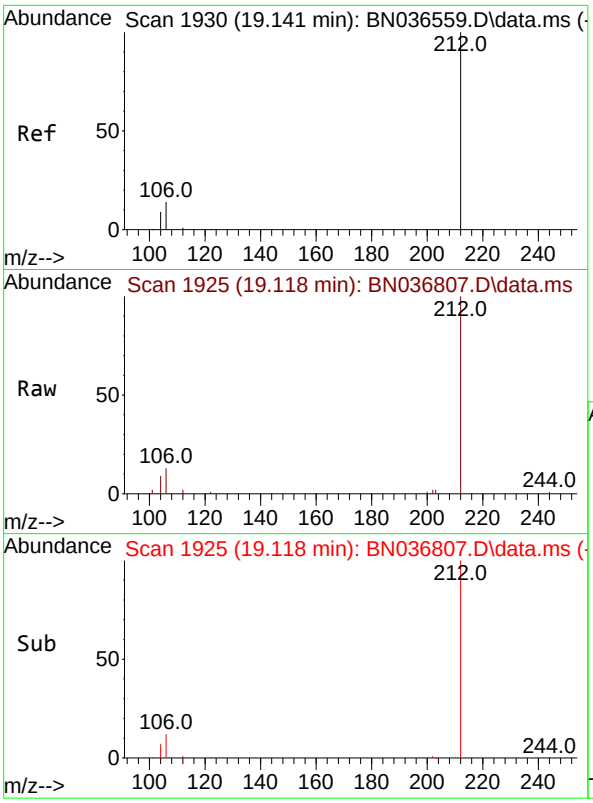



#26
Anthracene
Concen: 0.374 ng
RT: 17.211 min Scan# 1690
Delta R.T. -0.037 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Tgt Ion:178 Resp: 6251

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.3 | 15.4 | 23.2 |
| 179 | 15.1 | 12.6 | 18.8 |

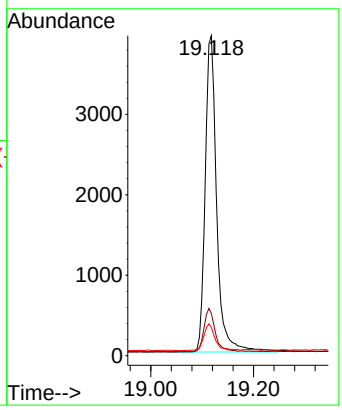





#27
Fluoranthene-d10
Concen: 0.384 ng
RT: 19.118 min Scan# 1
Delta R.T. -0.023 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Tgt Ion:212 Resp: 607

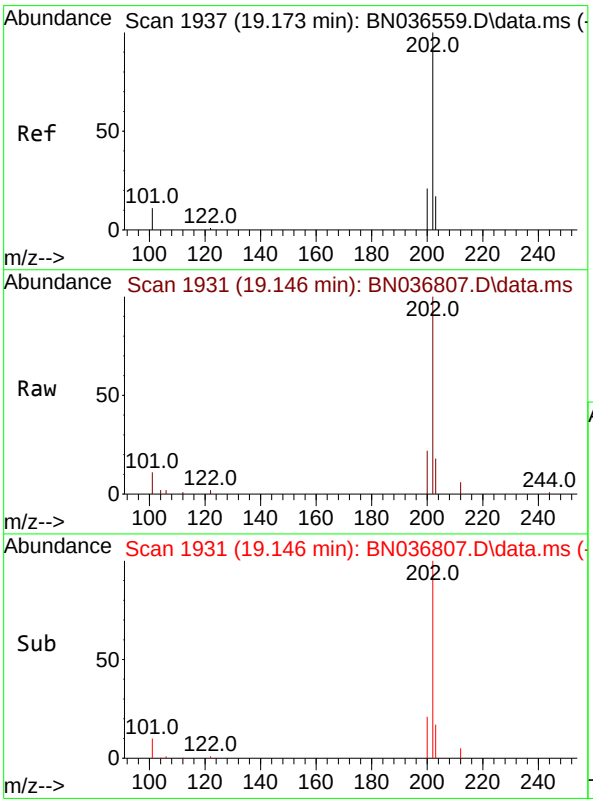
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 13.2 | 11.8 | 17.6 |
| 104 | 8.4 | 7.3 | 10.9 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations**
**APPROVED**

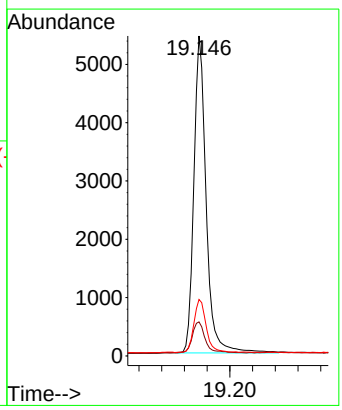
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

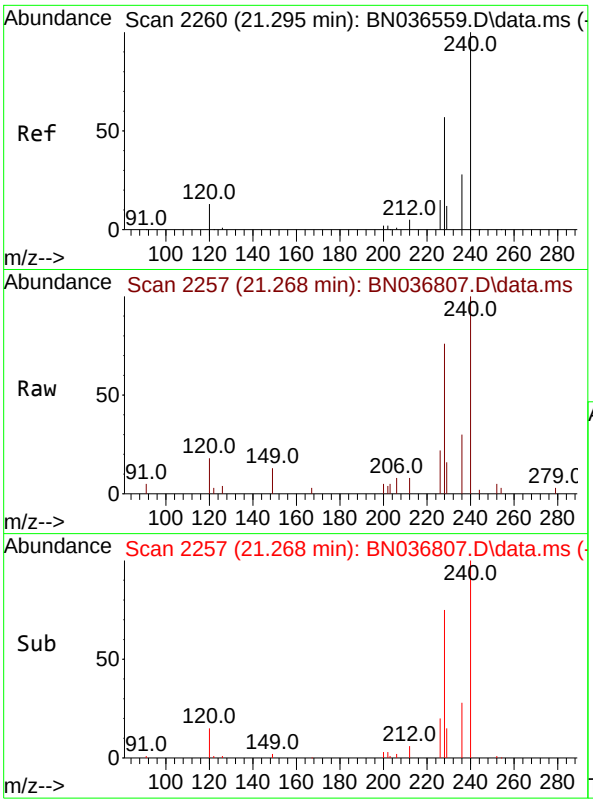



#28
Fluoranthene
Concen: 0.392 ng
RT: 19.146 min Scan# 1931
Delta R.T. -0.028 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Tgt Ion:202 Resp: 8157

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 10.2 | 9.4 | 14.0 |
| 203 | 16.8 | 13.5 | 20.3 |






#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.268 min Scan# 2
Delta R.T. -0.027 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

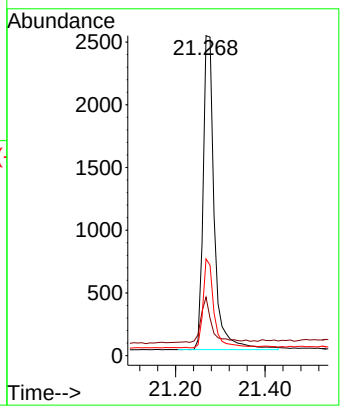
**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

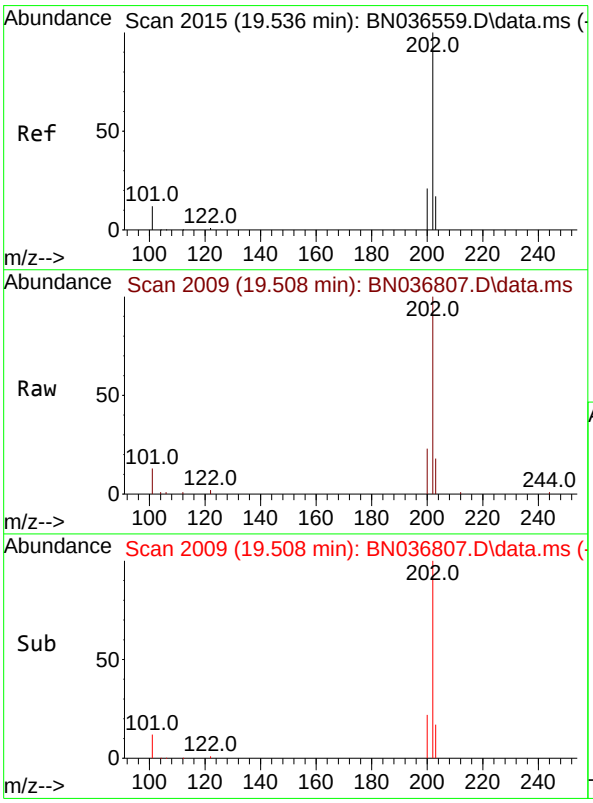
Tgt Ion:240 Resp: 436

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 18.3 | 14.6 | 22.0 |
| 236 | 30.3 | 24.1 | 36.1 |

**Manual Integrations**
**APPROVED**

Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

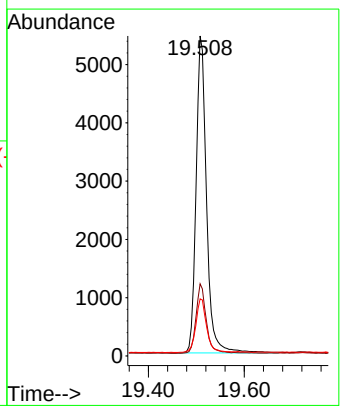


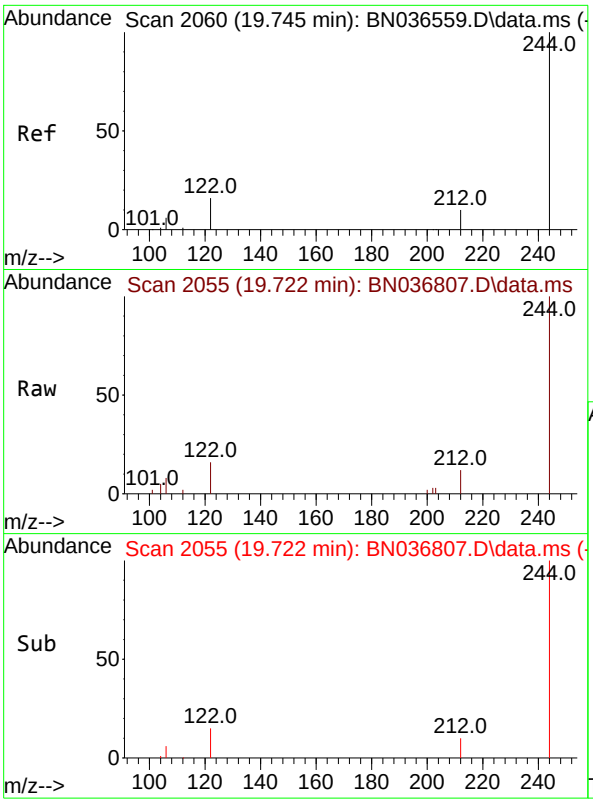




#30
Pyrene
Concen: 0.387 ng
RT: 19.508 min Scan# 2009
Delta R.T. -0.028 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Tgt Ion:202 Resp: 8270

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.2 | 17.1 | 25.7 |
| 203 | 17.4 | 14.1 | 21.1 |






#31
Terphenyl-d14
Concen: 0.365 ng
RT: 19.722 min Scan# 2
Delta R.T. -0.023 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

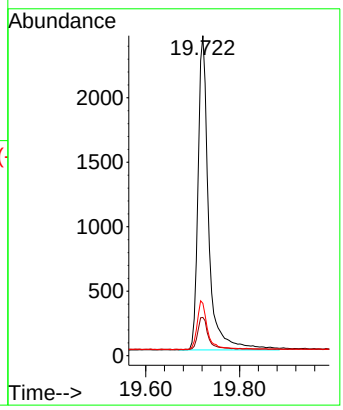
**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

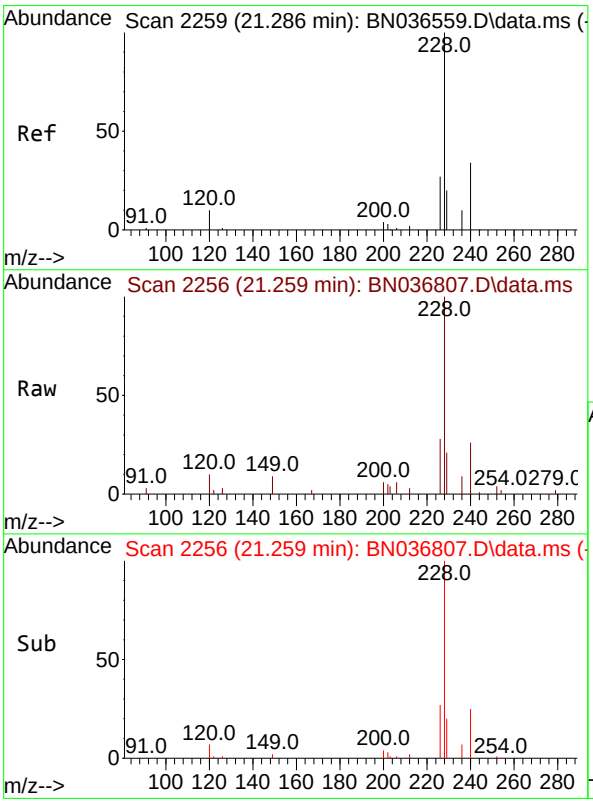
Tgt Ion:244 Resp: 382

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 12.0 | 9.6 | 14.4 |
| 122 | 16.4 | 13.9 | 20.9 |

**Manual Integrations**
**APPROVED**

Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

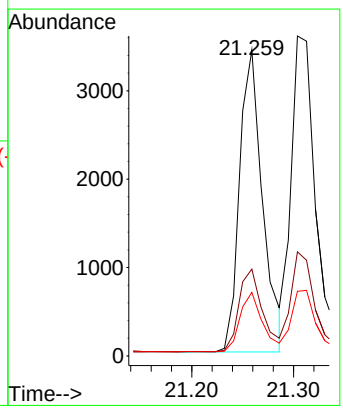


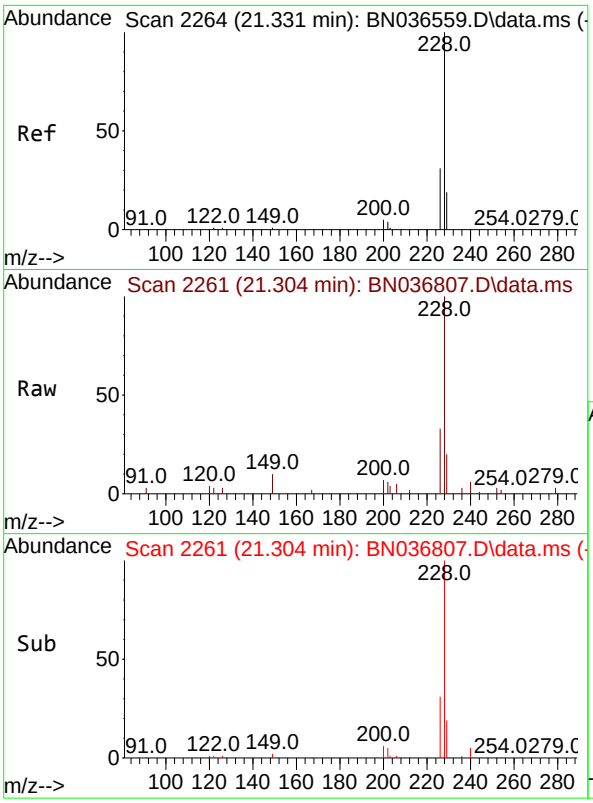




#32
Benzo(a)anthracene
Concen: 0.354 ng
RT: 21.259 min Scan# 2256
Delta R.T. -0.027 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Tgt Ion:228 Resp: 5377

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 28.4 | 22.5 | 33.7 |
| 229 | 20.8 | 16.6 | 25.0 |

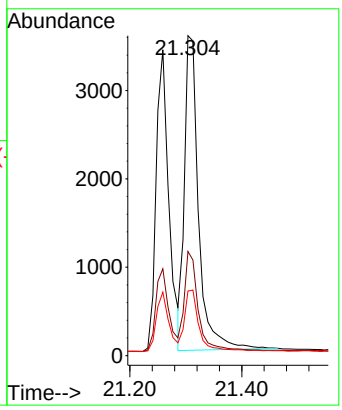





#33
Chrysene
Concen: 0.378 ng
RT: 21.304 min Scan# 2
Delta R.T. -0.027 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Tgt Ion:228 Resp: 626

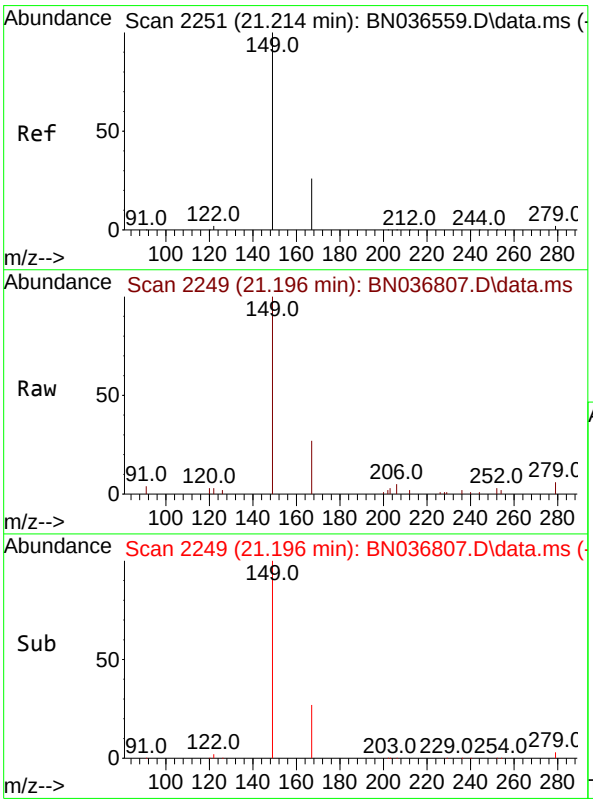
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 32.6 | 25.3 | 37.9 |
| 229 | 20.2 | 15.8 | 23.8 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations APPROVED**

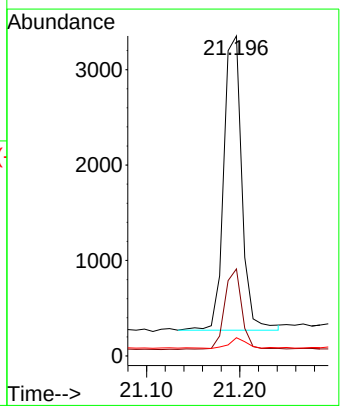
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

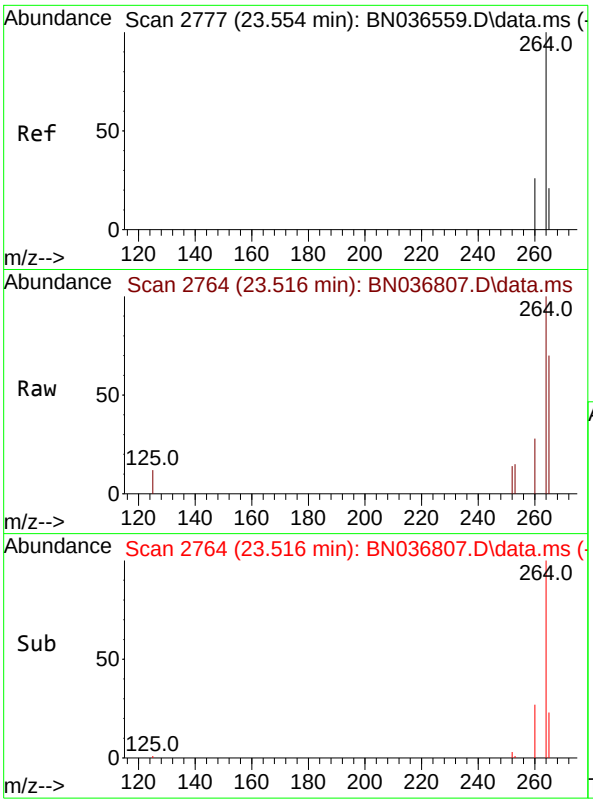



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.385 ng
RT: 21.196 min Scan# 2249
Delta R.T. -0.018 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Tgt Ion:149 Resp: 4162

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 26.1 | 20.7 | 31.1 |
| 279 | 3.6 | 3.6 | 5.4# |

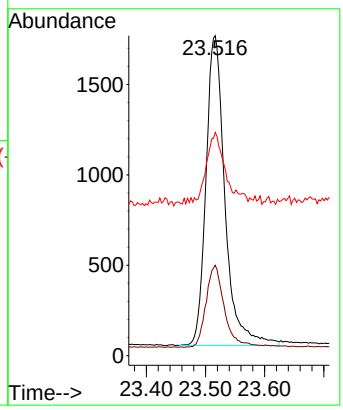





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.516 min Scan# 2
Delta R.T. -0.038 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Tgt Ion:264 Resp: 381

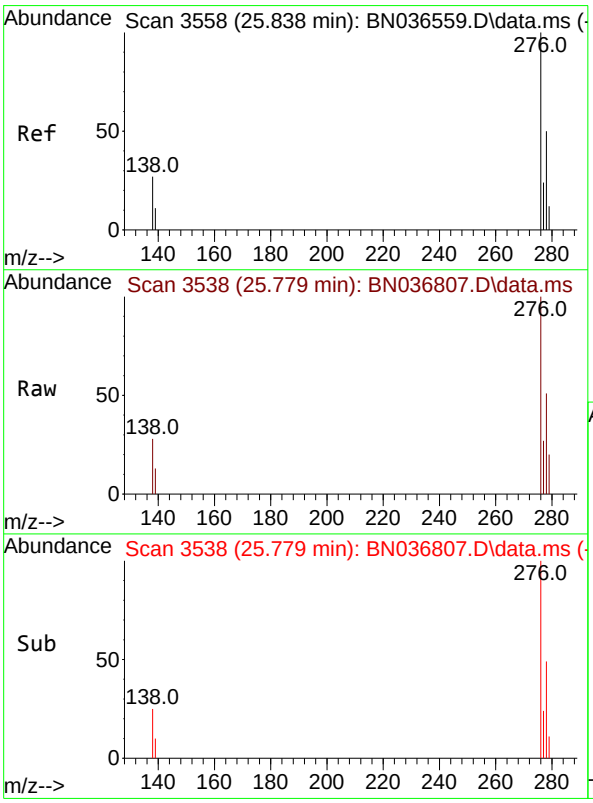
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 28.2 | 22.6 | 33.8 |
| 265 | 69.8 | 88.1 | 132.1 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations**
**APPROVED**

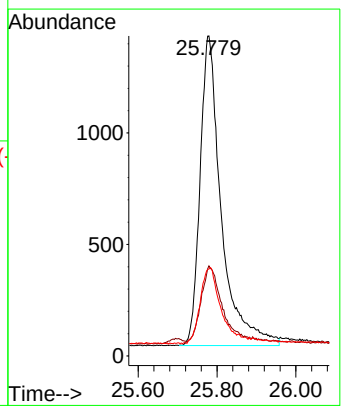
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

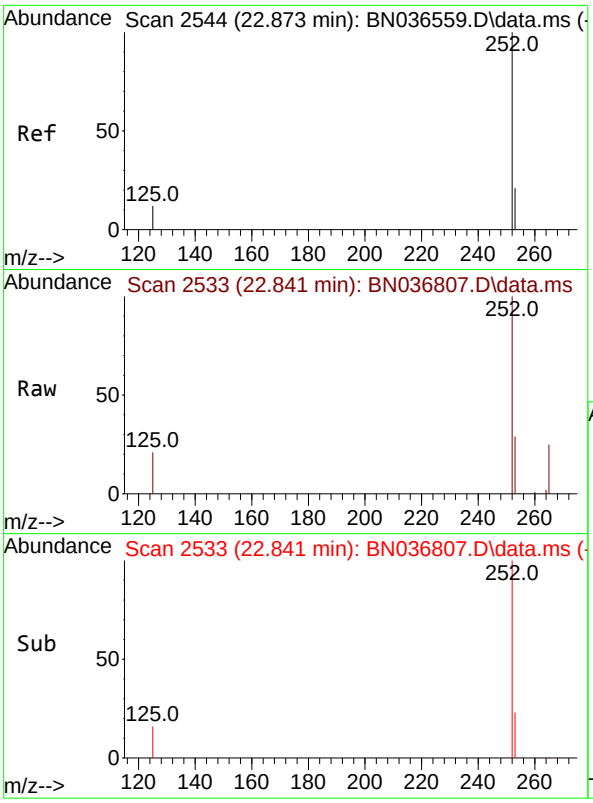



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.376 ng
RT: 25.779 min Scan# 3538
Delta R.T. -0.058 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Tgt Ion:276 Resp: 5188

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 24.1 | 23.4 | 35.2 |
| 277 | 23.0 | 20.0 | 30.0 |

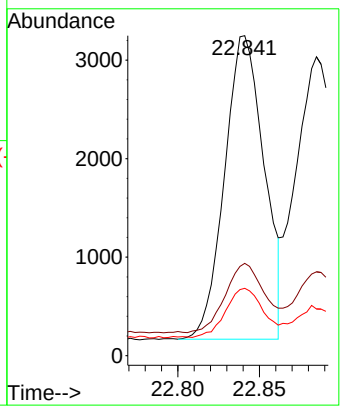





#37
Benzo(b)fluoranthene
Concen: 0.374 ng
RT: 22.841 min Scan# 2
Delta R.T. -0.032 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Tgt Ion:252 Resp: 519

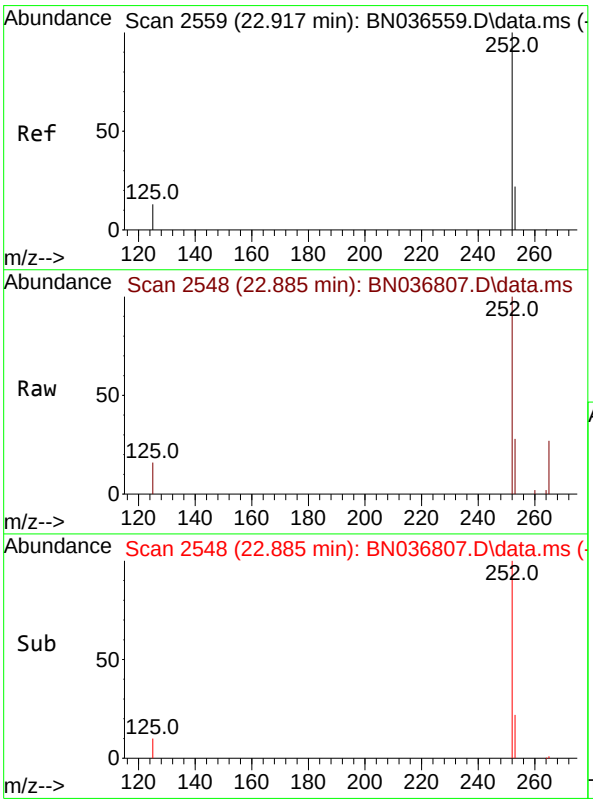
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 28.9 | 23.9 | 35.9 |
| 125 | 21.1 | 17.4 | 26.2 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations**
**APPROVED**

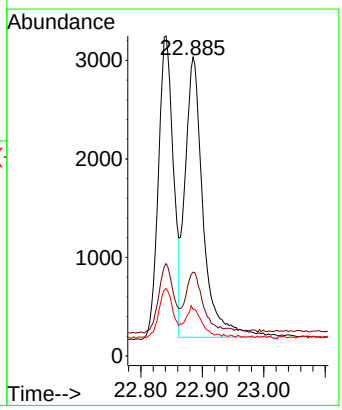
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

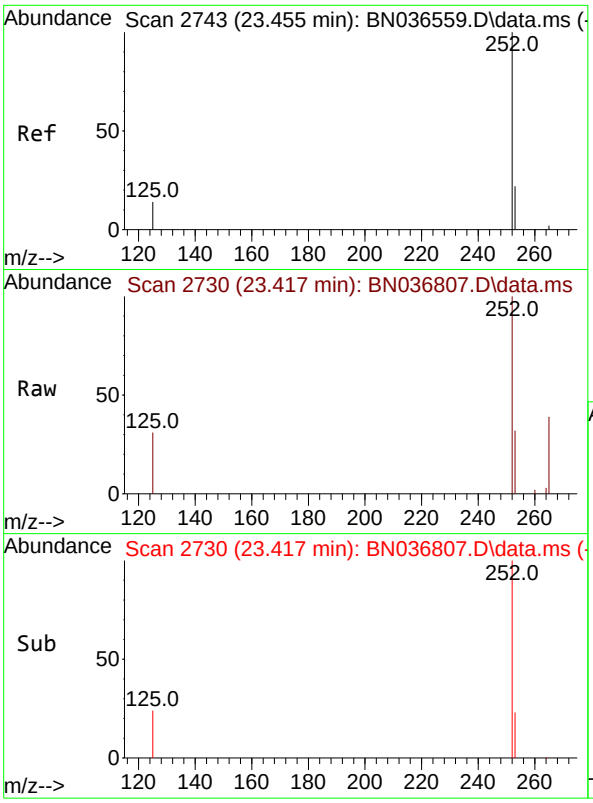



#38
Benzo(k)fluoranthene
Concen: 0.400 ng m
RT: 22.885 min Scan# 2548
Delta R.T. -0.032 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Tgt Ion:252 Resp: 5835

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 28.1 | 24.6 | 36.8 |
| 125 | 15.7 | 17.8 | 26.8# |

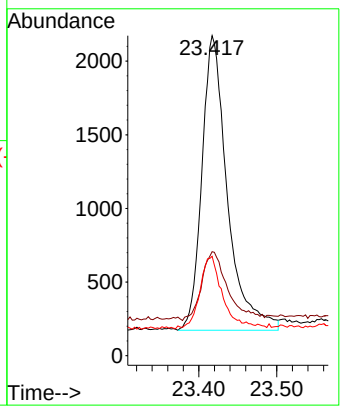





#39
Benzo(a)pyrene
Concen: 0.389 ng
RT: 23.417 min Scan# 2
Delta R.T. -0.038 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Tgt Ion:252 Resp: 454

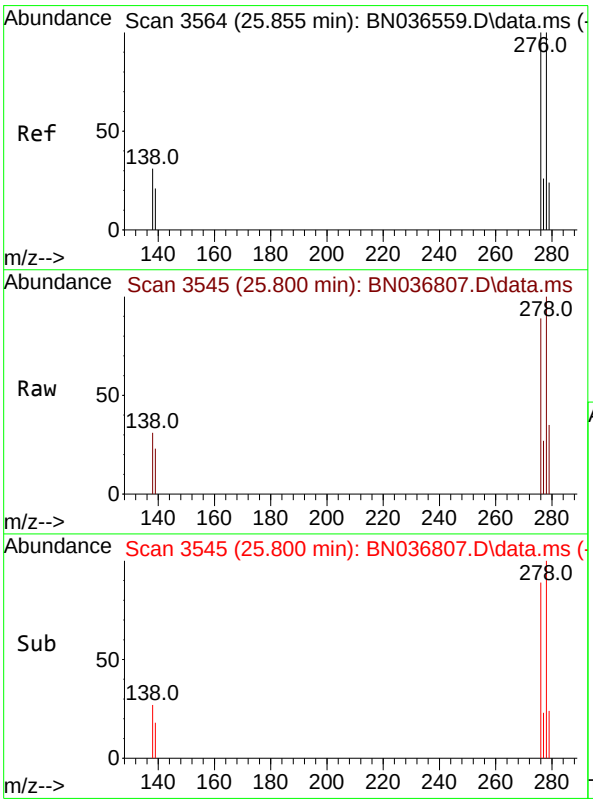
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 32.5 | 27.8 | 41.8 |
| 125 | 31.1 | 22.7 | 34.1 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations**
**APPROVED**

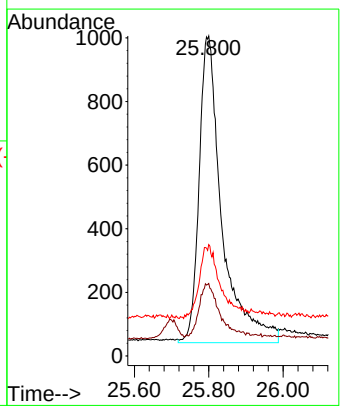
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

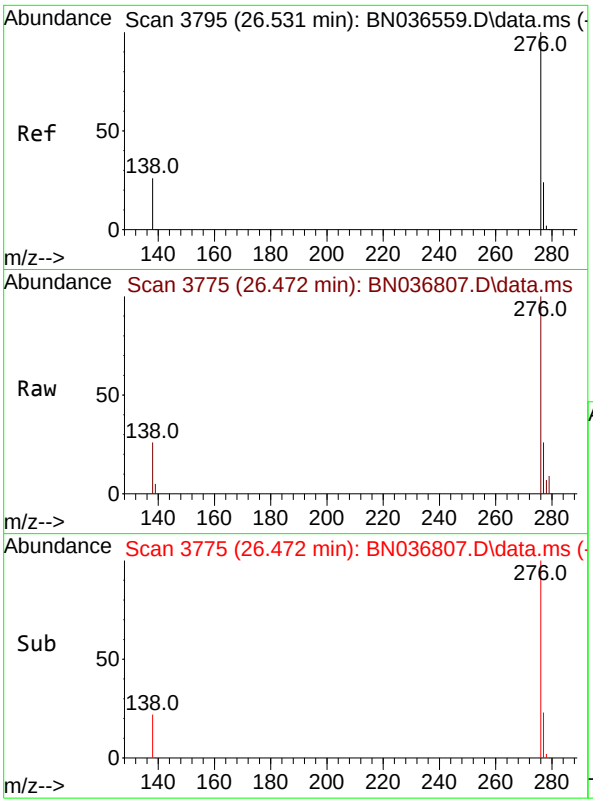



#40
Dibenzo(a,h)anthracene
Concen: 0.383 ng m
RT: 25.800 min Scan# 3545
Delta R.T. -0.055 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Tgt Ion:278 Resp: 4113

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 22.7 | 20.8 | 31.2 |
| 279 | 34.8 | 28.8 | 43.2 |

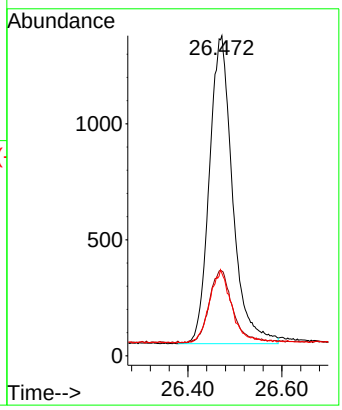





#41
Benzo(g,h,i)perylene
Concen: 0.371 ng
RT: 26.472 min Scan# 3
Delta R.T. -0.058 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Tgt Ion:276 Resp: 455

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 26.4 | 22.2 | 33.4 |
| 138 | 25.8 | 24.1 | 36.1 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations**
**APPROVED**

Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032825\
Data File : BN036807.D
Acq On : 29 Mar 2025 12:21
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 38 Sample Multiplier: 1

**Instrument :**
BNA_N
**LabSampleId :**
SSTDCCC0.4

Quant Time: Mar 31 02:01:08 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
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 | 90 | -0.03 |
| 2 | | 1,4-Dioxane | 0.444 | 0.456 | -2.7 | 82 | -0.01 |
| 3 | | n-Nitrosodimethylamine | 0.898 | 0.931 | -3.7 | 89 | -0.01 |
| 4 | S | 2-Fluorophenol | 0.932 | 0.835 | 10.4 | 76 | -0.02 |
| 5 | S | Phenol-d6 | 1.152 | 0.978 | 15.1 | 78 | -0.04 |
| 6 | | bis(2-Chloroethyl)ether | 1.190 | 1.007 | 15.4 | 76 | -0.03 |
| 7 | I | Naphthalene-d8 | 1.000 | 1.000 | 0.0 | 97 | -0.03 |
| 8 | S | Nitrobenzene-d5 | 0.435 | 0.364 | 16.3 | 85 | -0.03 |
| 9 | | Naphthalene | 1.177 | 1.046 | 11.1 | 84 | -0.03 |
| 10 | | Hexachlorobutadiene | 0.277 | 0.248 | 10.5 | 82 | -0.03 |
| 11 | SURR | 2-Methylnaphthalene-d10 | 0.595 | 0.526 | 11.6 | 85 | -0.04 |
| 12 | | 2-Methylnaphthalene | 0.749 | 0.668 | 10.8 | 85 | -0.03 |
| 13 | I | Acenaphthene-d10 | 1.000 | 1.000 | 0.0 | 101 | -0.03 |
| 14 | S | 2,4,6-Tribromophenol | 0.182 | 0.169 | 7.1 | 90 | -0.02 |
| 15 | S | 2-Fluorobiphenyl | 2.327 | 1.915 | 17.7 | 80 | -0.03 |
| 16 | | Acenaphthylene | 1.888 | 1.643 | 13.0 | 85 | -0.02 |
| 17 | | Acenaphthene | 1.236 | 1.115 | 9.8 | 88 | -0.03 |
| 18 | | Fluorene | 1.672 | 1.519 | 9.2 | 87 | -0.03 |
| 19 | I | Phenanthrene-d10 | 1.000 | 1.000 | 0.0 | 103 | -0.02 |
| 20 | | 4,6-Dinitro-2-methylphenol | 0.086 | 0.077 | 10.5 | 103 | -0.02 |
| 21 | | 4-Bromophenyl-phenylether | 0.251 | 0.231 | 8.0 | 87 | -0.02 |
| 22 | | Hexachlorobenzene | 0.303 | 0.280 | 7.6 | 86 | -0.02 |
| 23 | | Atrazine | 0.201 | 0.189 | 6.0 | 91 | -0.02 |
| 24 | | Pentachlorophenol | 0.138 | 0.128 | 7.2 | 96 | -0.04 |
| 25 | | Phenanthrene | 1.200 | 1.132 | 5.7 | 90 | -0.02 |
| 26 | | Anthracene | 1.083 | 1.013 | 6.5 | 91 | -0.04 |
| 27 | SURR | Fluoranthene-d10 | 1.025 | 0.985 | 3.9 | 91 | -0.02 |
| 28 | | Fluoranthene | 1.348 | 1.322 | 1.9 | 94 | -0.03 |
| 29 | I | Chrysene-d12 | 1.000 | 1.000 | 0.0 | 106 | -0.03 |
| 30 | | Pyrene | 1.956 | 1.894 | 3.2 | 94 | -0.03 |
| 31 | S | Terphenyl-d14 | 0.958 | 0.875 | 8.7 | 90 | -0.02 |
| 32 | | Benzo(a)anthracene | 1.391 | 1.232 | 11.4 | 91 | -0.03 |
| 33 | | Chrysene | 1.520 | 1.434 | 5.7 | 95 | -0.03 |
| 34 | | Bis(2-ethylhexyl)phthalate | 0.990 | 0.953 | 3.7 | 97 | -0.02 |
| 35 | I | Perylene-d12 | 1.000 | 1.000 | 0.0 | 108 | -0.04 |
| 36 | | Indeno(1,2,3-cd)pyrene | 1.444 | 1.359 | 5.9 | 95 | -0.06 |
| 37 | | Benzo(b)fluoranthene | 1.456 | 1.360 | 6.6 | 95 | -0.03 |
| 38 | | Benzo(k)fluoranthene | 1.527 | 1.528 | -0.1 | 102 | -0.03 |
| 39 | C | Benzo(a)pyrene | 1.226 | 1.191 | 2.9 | 99 | -0.04 |
| 40 | | Dibenzo(a,h)anthracene | 1.124 | 1.077 | 4.2 | 100 | -0.06 |
| 41 | | Benzo(g,h,i)perylene | 1.286 | 1.194 | 7.2 | 93 | -0.06 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032825\
Data File : BN036807.D
Acq On : 29 Mar 2025 12:21
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 38 Sample Multiplier: 1

**Instrument :**
BNA_N
**LabSampleId :**
SSTDCCC0.4

Quant Time: Mar 31 02:01:08 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
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 | 90 | -0.03 |
| 2 | | 1,4-Dioxane | 0.400 | 0.411 | -2.7 | 82 | -0.01 |
| 3 | | n-Nitrosodimethylamine | 0.400 | 0.415 | -3.7 | 89 | -0.01 |
| 4 | S | 2-Fluorophenol | 0.400 | 0.358 | 10.5 | 76 | -0.02 |
| 5 | S | Phenol-d6 | 0.400 | 0.340 | 15.0 | 78 | -0.04 |
| 6 | | bis(2-Chloroethyl)ether | 0.400 | 0.338 | 15.5 | 76 | -0.03 |
| 7 | I | Naphthalene-d8 | 0.400 | 0.400 | 0.0 | 97 | -0.03 |
| 8 | S | Nitrobenzene-d5 | 0.400 | 0.334 | 16.5 | 85 | -0.03 |
| 9 | | Naphthalene | 0.400 | 0.356 | 11.0 | 84 | -0.03 |
| 10 | | Hexachlorobutadiene | 0.400 | 0.358 | 10.5 | 82 | -0.03 |
| 11 | SURR | 2-Methylnaphthalene-d10 | 0.400 | 0.354 | 11.5 | 85 | -0.04 |
| 12 | | 2-Methylnaphthalene | 0.400 | 0.357 | 10.8 | 85 | -0.03 |
| 13 | I | Acenaphthene-d10 | 0.400 | 0.400 | 0.0 | 101 | -0.03 |
| 14 | S | 2,4,6-Tribromophenol | 0.400 | 0.371 | 7.3 | 90 | -0.02 |
| 15 | S | 2-Fluorobiphenyl | 0.400 | 0.329 | 17.8 | 80 | -0.03 |
| 16 | | Acenaphthylene | 0.400 | 0.348 | 13.0 | 85 | -0.02 |
| 17 | | Acenaphthene | 0.400 | 0.361 | 9.8 | 88 | -0.03 |
| 18 | | Fluorene | 0.400 | 0.364 | 9.0 | 87 | -0.03 |
| 19 | I | Phenanthrene-d10 | 0.400 | 0.400 | 0.0 | 103 | -0.02 |
| 20 | | 4,6-Dinitro-2-methylphenol | 0.400 | 0.447 | -11.7 | 103 | -0.02 |
| 21 | | 4-Bromophenyl-phenylether | 0.400 | 0.368 | 8.0 | 87 | -0.02 |
| 22 | | Hexachlorobenzene | 0.400 | 0.371 | 7.3 | 86 | -0.02 |
| 23 | | Atrazine | 0.400 | 0.377 | 5.8 | 91 | -0.02 |
| 24 | | Pentachlorophenol | 0.400 | 0.372 | 7.0 | 96 | -0.04 |
| 25 | | Phenanthrene | 0.400 | 0.377 | 5.8 | 90 | -0.02 |
| 26 | | Anthracene | 0.400 | 0.374 | 6.5 | 91 | -0.04 |
| 27 | SURR | Fluoranthene-d10 | 0.400 | 0.384 | 4.0 | 91 | -0.02 |
| 28 | | Fluoranthene | 0.400 | 0.392 | 2.0 | 94 | -0.03 |
| 29 | I | Chrysene-d12 | 0.400 | 0.400 | 0.0 | 106 | -0.03 |
| 30 | | Pyrene | 0.400 | 0.387 | 3.3 | 94 | -0.03 |
| 31 | S | Terphenyl-d14 | 0.400 | 0.365 | 8.8 | 90 | -0.02 |
| 32 | | Benzo(a)anthracene | 0.400 | 0.354 | 11.5 | 91 | -0.03 |
| 33 | | Chrysene | 0.400 | 0.378 | 5.5 | 95 | -0.03 |
| 34 | | Bis(2-ethylhexyl)phthalate | 0.400 | 0.385 | 3.8 | 97 | -0.02 |
| 35 | I | Perylene-d12 | 0.400 | 0.400 | 0.0 | 108 | -0.04 |
| 36 | | Indeno(1,2,3-cd)pyrene | 0.400 | 0.376 | 6.0 | 95 | -0.06 |
| 37 | | Benzo(b)fluoranthene | 0.400 | 0.374 | 6.5 | 95 | -0.03 |
| 38 | | Benzo(k)fluoranthene | 0.400 | 0.400 | 0.0 | 102 | -0.03 |
| 39 | C | Benzo(a)pyrene | 0.400 | 0.389 | 2.8 | 99 | -0.04 |
| 40 | | Dibenzo(a,h)anthracene | 0.400 | 0.383 | 4.3 | 100 | -0.06 |
| 41 | | Benzo(g,h,i)perylene | 0.400 | 0.371 | 7.3 | 93 | -0.06 |

(#) = 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.: Q1629 SAS No.: Q1629 SDG No.: Q1629

Instrument ID: BNA_N Calibration Date/Time: 03/31/2025 10:39

Lab File ID: BN036809.D Init. Calib. Date(s): 03/10/2025 03/10/2025

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 11:42 15:19

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

| COMPOUND | RRF | RRF0.4 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| 2-Methylnaphthalene-d10 | 0.595 | 0.537 | | -9.7 | 20.0 |
| Fluoranthene-d10 | 1.025 | 0.990 | | -3.4 | 20.0 |
| 2-Fluorophenol | 0.932 | 0.818 | | -12.2 | 20.0 |
| Phenol-d6 | 1.152 | 0.953 | | -17.3 | 20.0 |
| Nitrobenzene-d5 | 0.435 | 0.363 | | -16.6 | 20.0 |
| 2-Fluorobiphenyl | 2.327 | 1.979 | | -15.0 | 20.0 |
| 2,4,6-Tribromophenol | 0.182 | 0.161 | | -11.5 | 20.0 |
| Terphenyl-d14 | 0.958 | 0.798 | | -16.7 | 20.0 |
| 1,4-Dioxane | 0.444 | 0.454 | | 2.3 | 20.0 |

All other compounds must meet a minimum RRF of 0.010.

Form VII SV-1

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN033125\
Data File : BN036809.D
Acq On : 31 Mar 2025 10:39
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 31 12:10:51 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations APPROVED**
Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.695 | 152 | 1888 | 0.400 | ng | -0.03 |
| 7) Naphthalene-d8 | 10.477 | 136 | 4656 | 0.400 | ng | -0.03 |
| 13) Acenaphthene-d10 | 14.334 | 164 | 2798 | 0.400 | ng | -0.03 |
| 19) Phenanthrene-d10 | 17.086 | 188 | 5809 | 0.400 | ng | -0.02 |
| 29) Chrysene-d12 | 21.277 | 240 | 4586 | 0.400 | ng | #-0.02 |
| 35) Perylene-d12 | 23.522 | 264 | 3945 | 0.400 | ng | #-0.03 |
| **System Monitoring Compounds** | | | | | | |
| 4) 2-Fluorophenol | 5.283 | 112 | 1544 | 0.351 | ng | -0.03 |
| 5) Phenol-d6 | 6.865 | 99 | 1799 | 0.331 | ng | -0.04 |
| 8) Nitrobenzene-d5 | 8.843 | 82 | 1689 | 0.333 | ng | -0.03 |
| 11) 2-Methylnaphthalene-d10 | 12.075 | 152 | 2501 | 0.361 | ng | -0.04 |
| 14) 2,4,6-Tribromophenol | 15.833 | 330 | 451 | 0.355 | ng | -0.02 |
| 15) 2-Fluorobiphenyl | 12.958 | 172 | 5537 | 0.340 | ng | -0.03 |
| 27) Fluoranthene-d10 | 19.118 | 212 | 5750 | 0.386 | ng | -0.02 |
| 31) Terphenyl-d14 | 19.722 | 244 | 3660 | 0.333 | ng | -0.02 |
| **Target Compounds** | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.225 | 88 | 857 | 0.409 | ng | 96 |
| 3) n-Nitrosodimethylamine | 3.535 | 42 | 1677 | 0.396 | ng | 93 |
| 6) bis(2-Chloroethyl)ether | 7.125 | 93 | 1889 | 0.336 | ng | 98 |
| 9) Naphthalene | 10.530 | 128 | 4851 | 0.354 | ng | 99 |
| 10) Hexachlorobutadiene | 10.818 | 225 | 1142 | 0.354 | ng | # 98 |
| 12) 2-Methylnaphthalene | 12.151 | 142 | 3144 | 0.361 | ng | 99 |
| 16) Acenaphthylene | 14.056 | 152 | 4617 | 0.350 | ng | 99 |
| 17) Acenaphthene | 14.398 | 154 | 3162 | 0.366 | ng | 99 |
| 18) Fluorene | 15.382 | 166 | 4232 | 0.362 | ng | 99 |
| 20) 4,6-Dinitro-2-methylph... | 15.478 | 198 | 405 | 0.419 | ng | 86 |
| 21) 4-Bromophenyl-phenylether | 16.280 | 248 | 1292 | 0.355 | ng | 93 |
| 22) Hexachlorobenzene | 16.391 | 284 | 1587 | 0.361 | ng | 97 |
| 23) Atrazine | 16.553 | 200 | 1096 | 0.376 | ng | 98 |
| 24) Pentachlorophenol | 16.739 | 266 | 743 | 0.371 | ng | 98 |
| 25) Phenanthrene | 17.124 | 178 | 6581 | 0.378 | ng | 100 |
| 26) Anthracene | 17.211 | 178 | 5583 | 0.355 | ng | 100 |
| 28) Fluoranthene | 19.150 | 202 | 7591 | 0.388 | ng | 99 |
| 30) Pyrene | 19.513 | 202 | 7799 | 0.348 | ng | 100 |
| 32) Benzo(a)anthracene | 21.259 | 228 | 5377 | 0.337 | ng | 98 |
| 33) Chrysene | 21.313 | 228 | 6640 | 0.381 | ng | 98 |
| 34) Bis(2-ethylhexyl)phtha... | 21.196 | 149 | 4143 | 0.365 | ng | # 99 |
| 36) Indeno(1,2,3-cd)pyrene | 25.782 | 276 | 5019 | 0.352 | ng | 94 |
| 37) Benzo(b)fluoranthene | 22.844 | 252 | 5495 | 0.383 | ng | 98 |
| 38) Benzo(k)fluoranthene | 22.888 | 252 | 5737m | 0.381 | ng | |
| 39) Benzo(a)pyrene | 23.423 | 252 | 4679 | 0.387 | ng | 96 |
| 40) Dibenzo(a,h)anthracene | 25.805 | 278 | 3655 | 0.330 | ng | 99 |
| 41) Benzo(g,h,i)perylene | 26.472 | 276 | 4543 | 0.358 | ng | 97 |

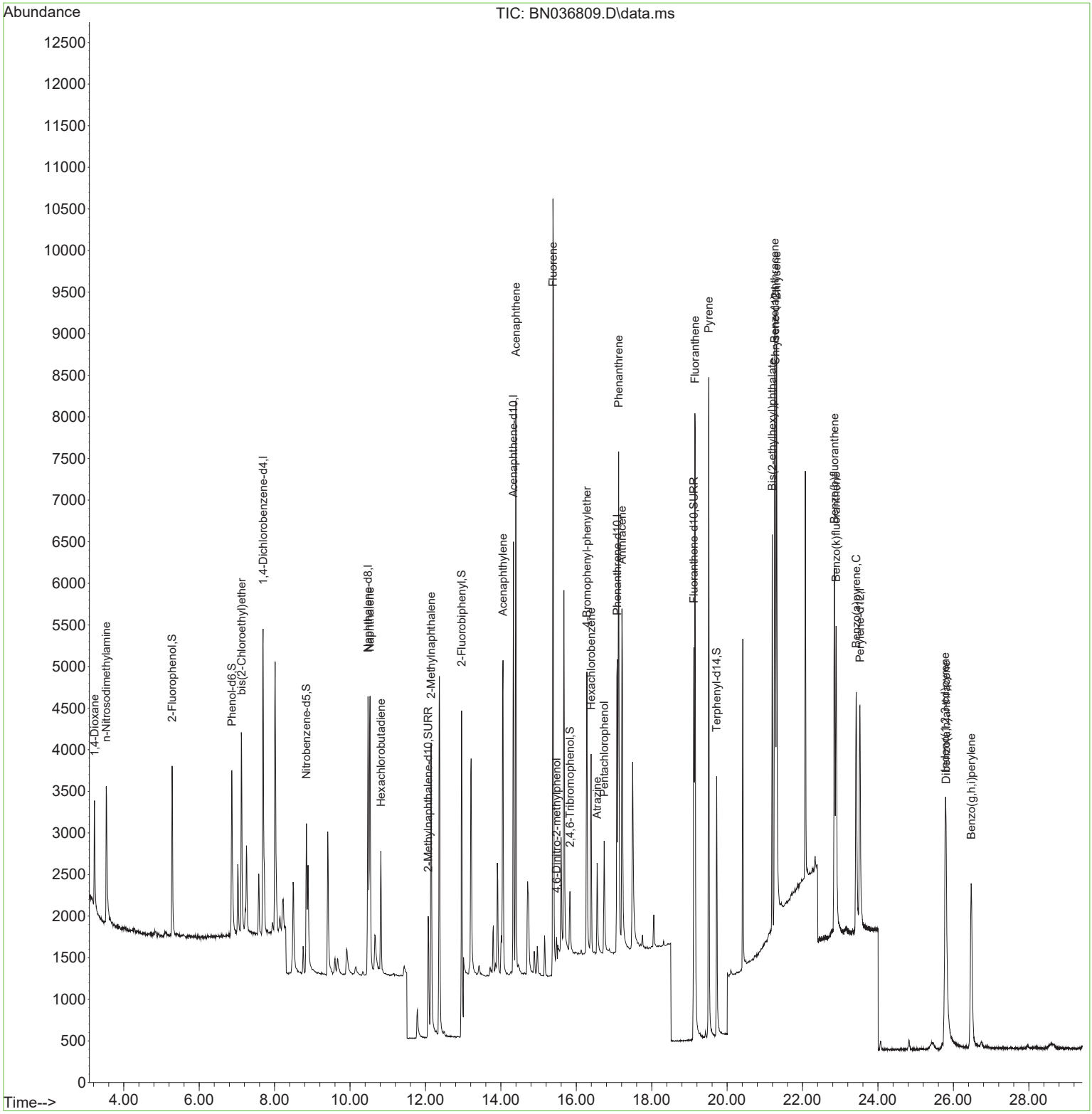
(#) = qualifier out of range (m) = manual integration (+) = signals summed

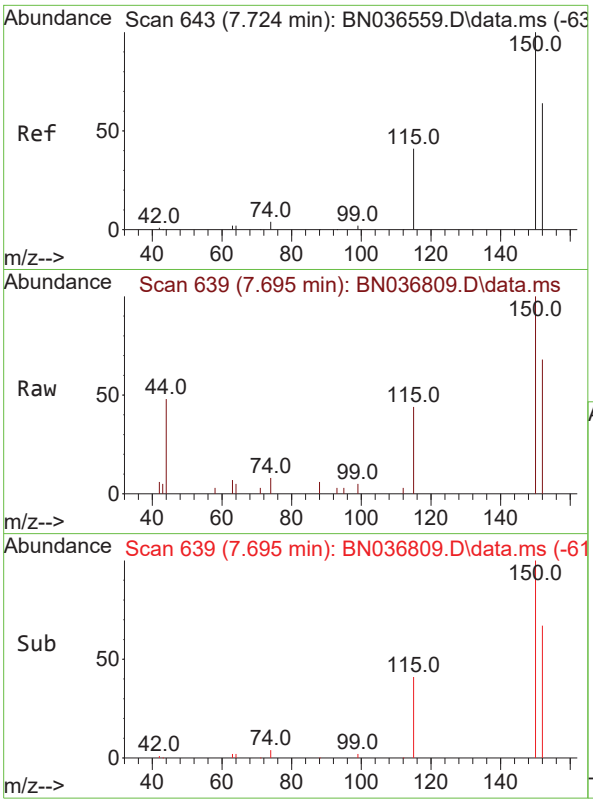
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN033125\
Data File : BN036809.D
Acq On : 31 Mar 2025 10:39
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 31 12:10:51 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations APPROVED**
Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

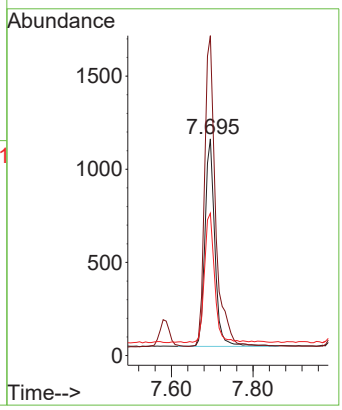





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.695 min Scan# 6
Delta R.T. -0.029 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion:152 Resp: 188

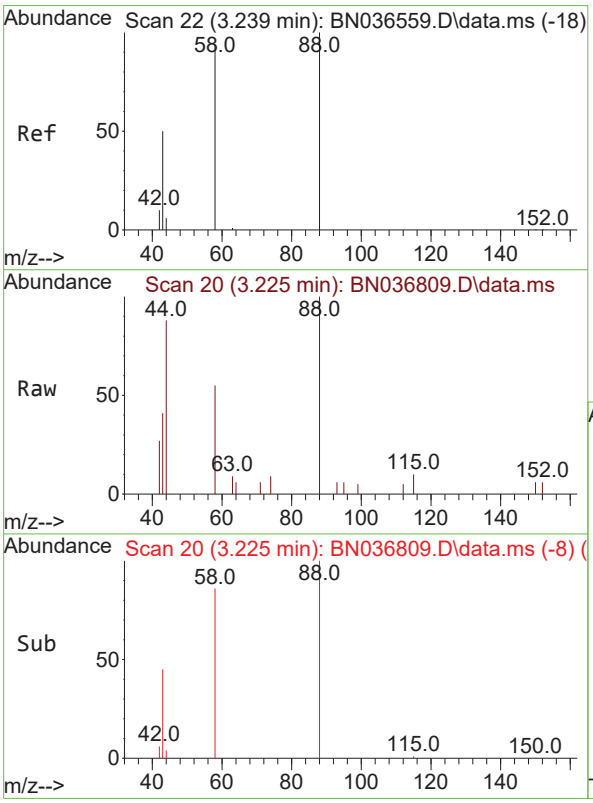
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 147.6 | 123.7 | 185.5 |
| 115 | 65.7 | 54.3 | 81.5 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations**
**APPROVED**

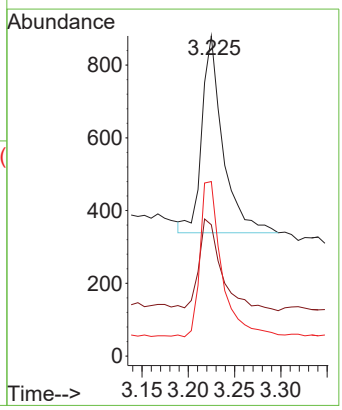
Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

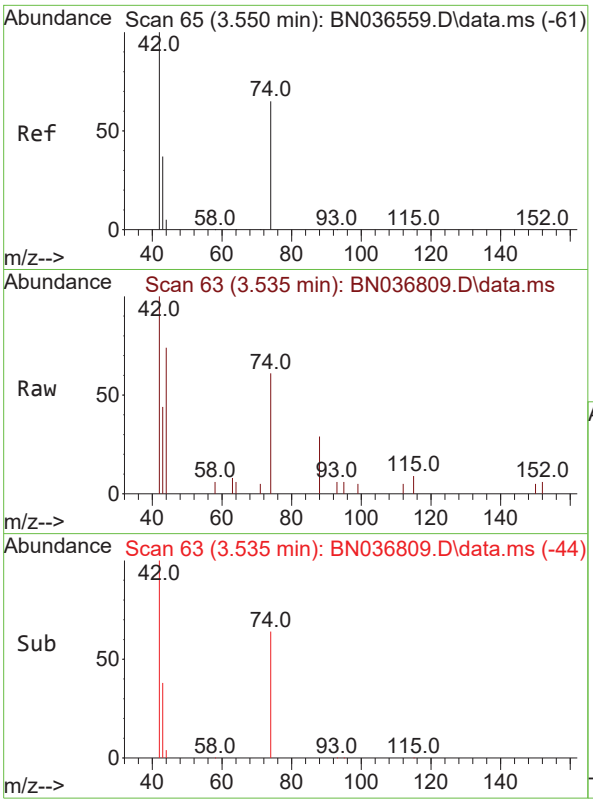



#2
1,4-Dioxane
Concen: 0.409 ng
RT: 3.225 min Scan# 20
Delta R.T. -0.014 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion: 88 Resp: 857

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 50.1 | 37.8 | 56.8 |
| 58 | 80.6 | 67.4 | 101.2 |

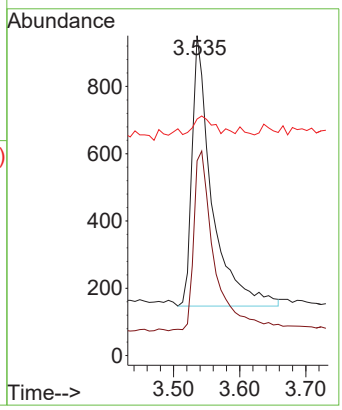





#3
n-Nitrosodimethylamine
Concen: 0.396 ng
RT: 3.535 min Scan# 6
Delta R.T. -0.014 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion: 42 Resp: 167

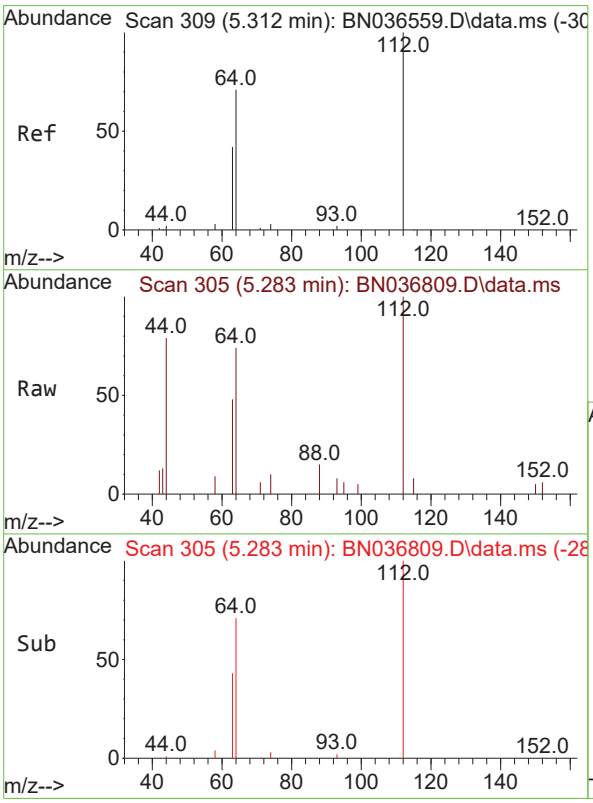
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 69.2 | 60.6 | 90.8 |
| 44 | 8.2 | 6.3 | 9.5 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations**
**APPROVED**

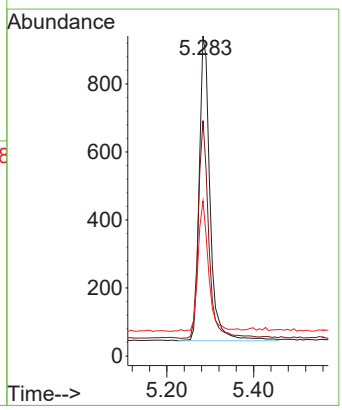
Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

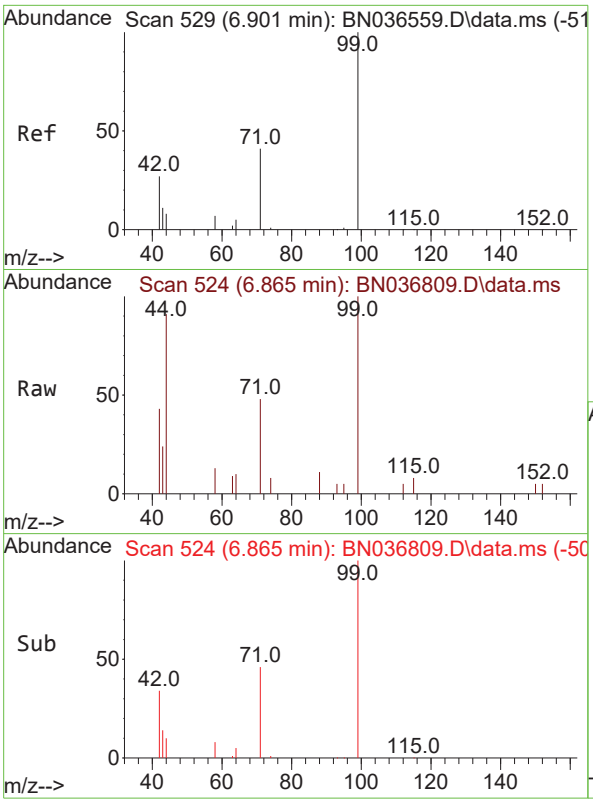



#4
2-Fluorophenol
Concen: 0.351 ng
RT: 5.283 min Scan# 305
Delta R.T. -0.029 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion:112 Resp: 1544

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 69.6 | 53.1 | 79.7 |
| 63 | 40.8 | 31.8 | 47.8 |

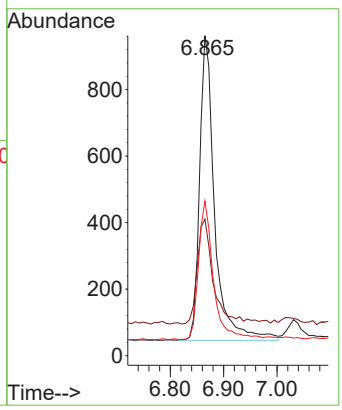





#5
Phenol-d6
Concen: 0.331 ng
RT: 6.865 min Scan# 5
Delta R.T. -0.036 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion: 99 Resp: 179

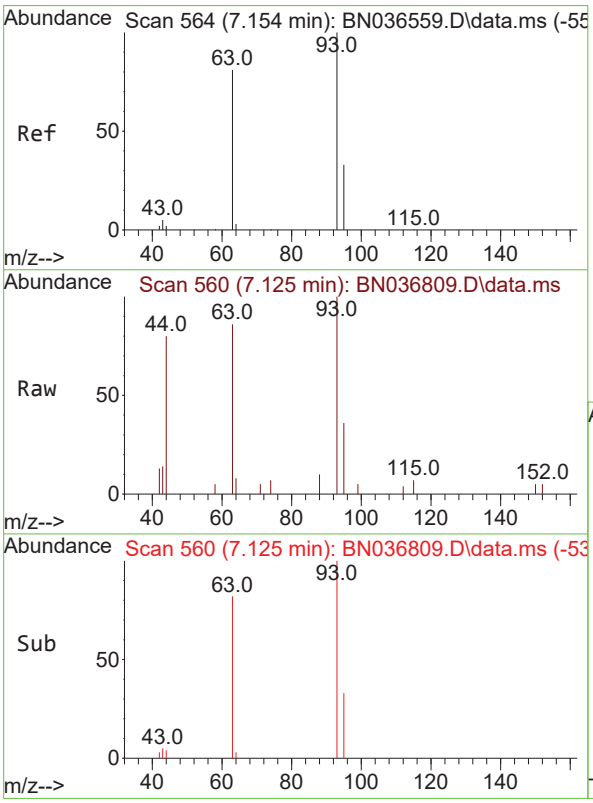
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 37.9 | 26.5 | 39.7 |
| 71 | 44.8 | 34.1 | 51.1 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations**
**APPROVED**

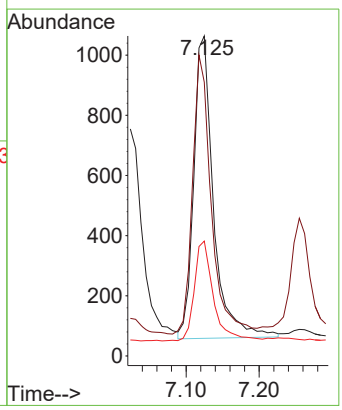
Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

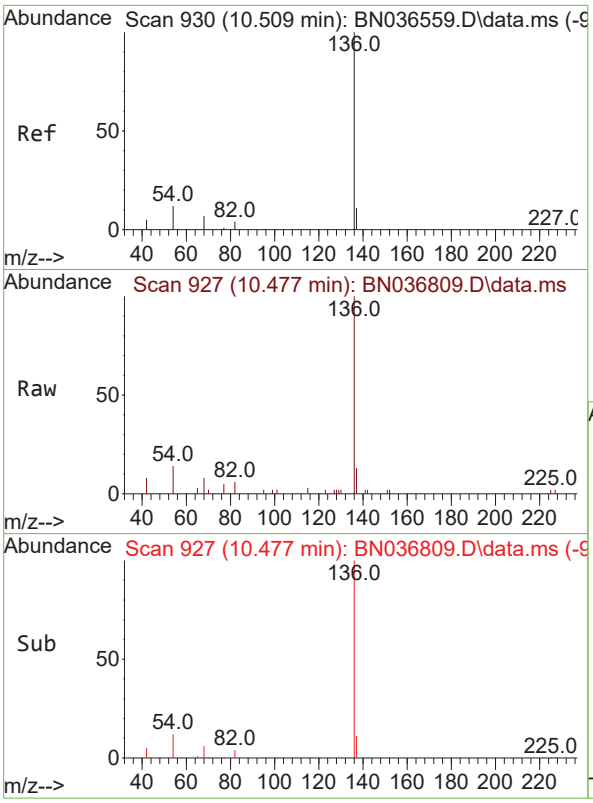



#6
bis(2-Chloroethyl)ether
Concen: 0.336 ng
RT: 7.125 min Scan# 560
Delta R.T. -0.029 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion: 93 Resp: 1889

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 87.3 | 67.7 | 101.5 |
| 95 | 31.9 | 25.6 | 38.4 |

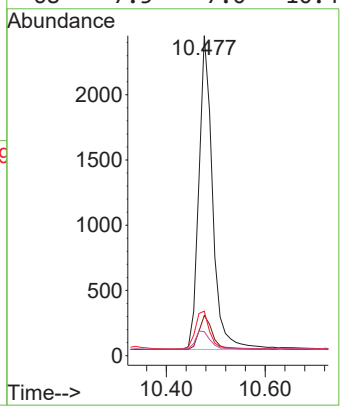





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.477 min Scan# 9
Delta R.T. -0.032 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion:136 Resp: 465

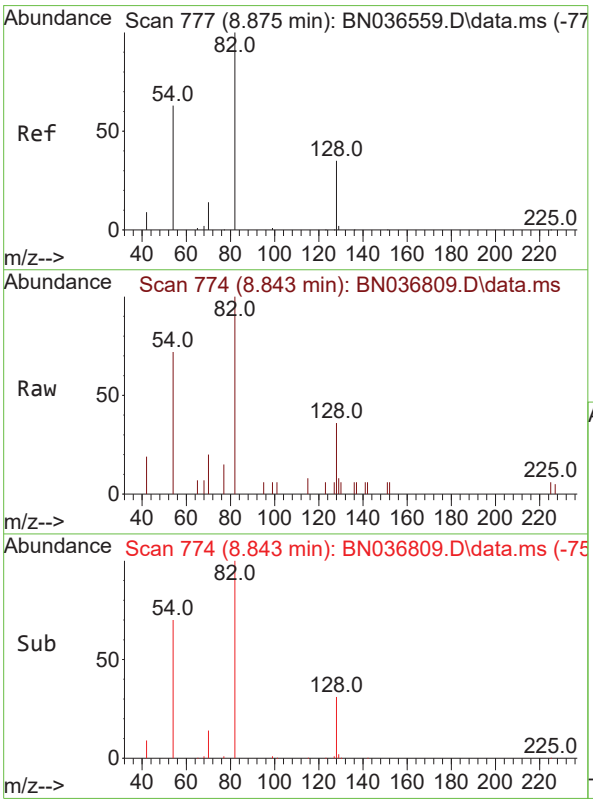
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 12.5 | 10.3 | 15.5 |
| 54 | 13.9 | 11.5 | 17.3 |
| 68 | 7.5 | 7.0 | 10.4 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations**
**APPROVED**

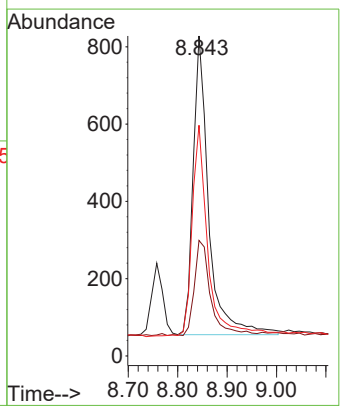
Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

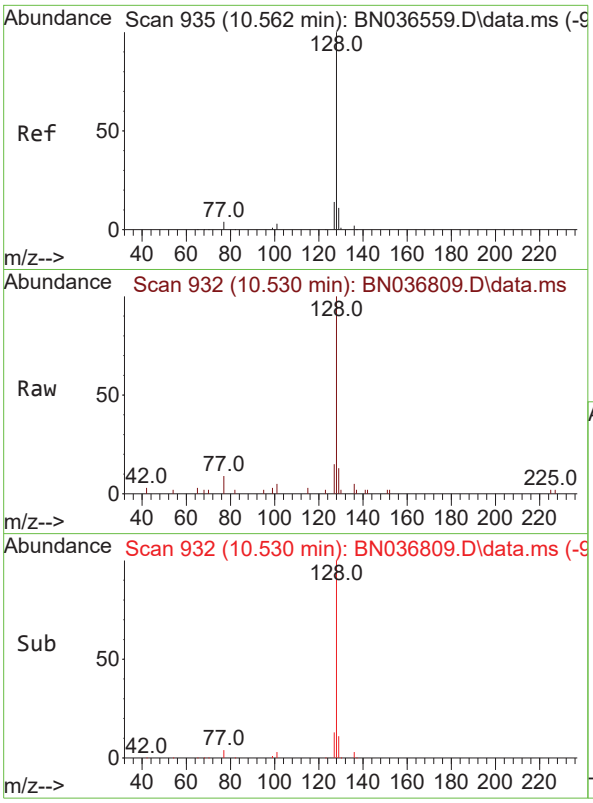



#8
Nitrobenzene-d5
Concen: 0.333 ng
RT: 8.843 min Scan# 774
Delta R.T. -0.032 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion: 82 Resp: 1689

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 36.1 | 30.6 | 45.8 |
| 54 | 72.1 | 52.2 | 78.4 |

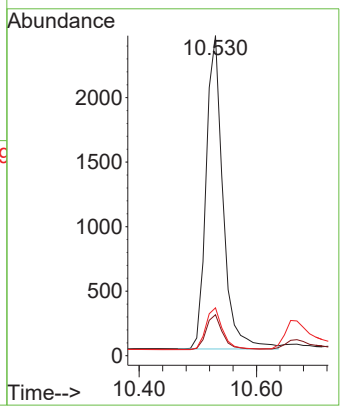





#9
Naphthalene
Concen: 0.354 ng
RT: 10.530 min Scan# 9
Delta R.T. -0.032 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion:128 Resp: 485

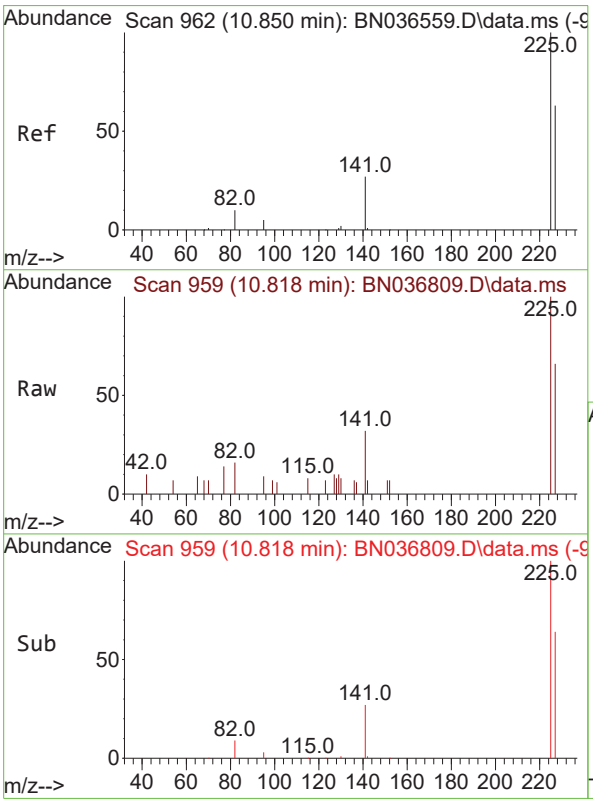
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 12.8 | 9.8 | 14.6 |
| 127 | 15.0 | 11.8 | 17.8 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations**
**APPROVED**

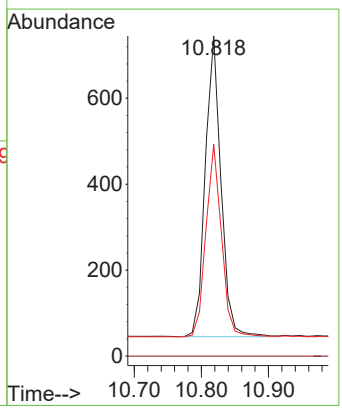
Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

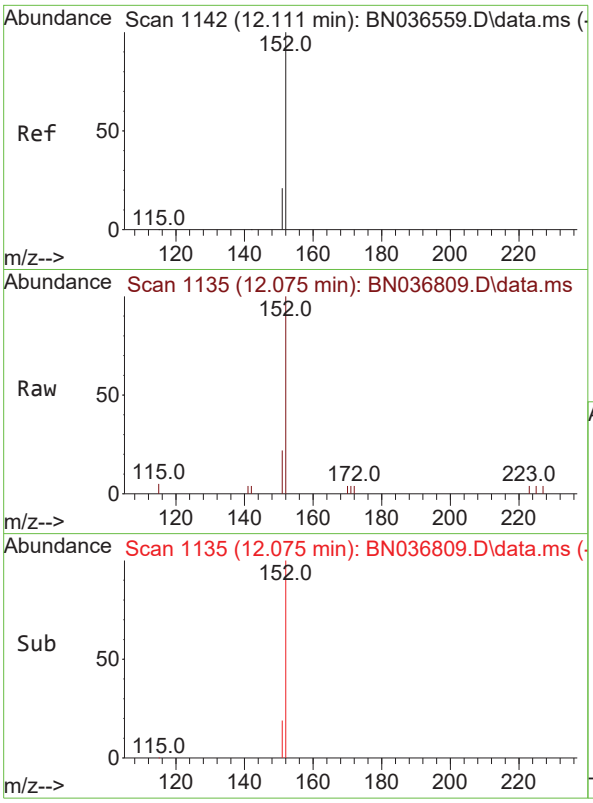



#10
Hexachlorobutadiene
Concen: 0.354 ng
RT: 10.818 min Scan# 959
Delta R.T. -0.032 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion:225 Resp: 1142

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 0.0 | 0.0 | 0.0 |
| 227 | 63.1 | 51.8 | 77.8 |






#11
2-Methylnaphthalene-d10
Concen: 0.361 ng
RT: 12.075 min Scan# 11
Delta R.T. -0.035 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

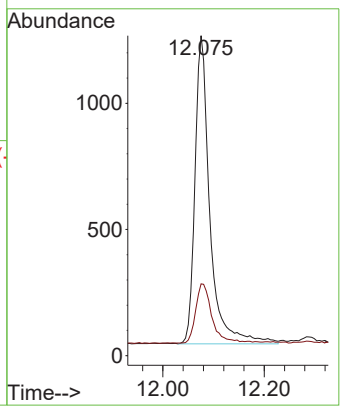
Tgt Ion:152 Resp: 250

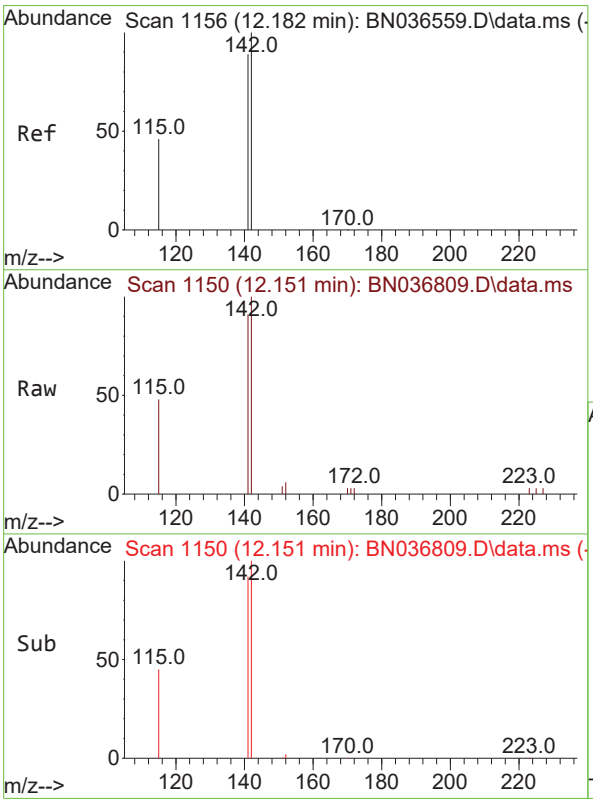
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.8 | 17.0 | 25.6 |

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations**
**APPROVED**

Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

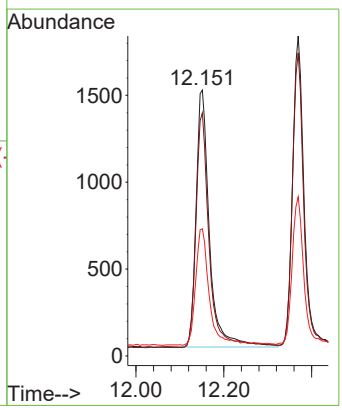


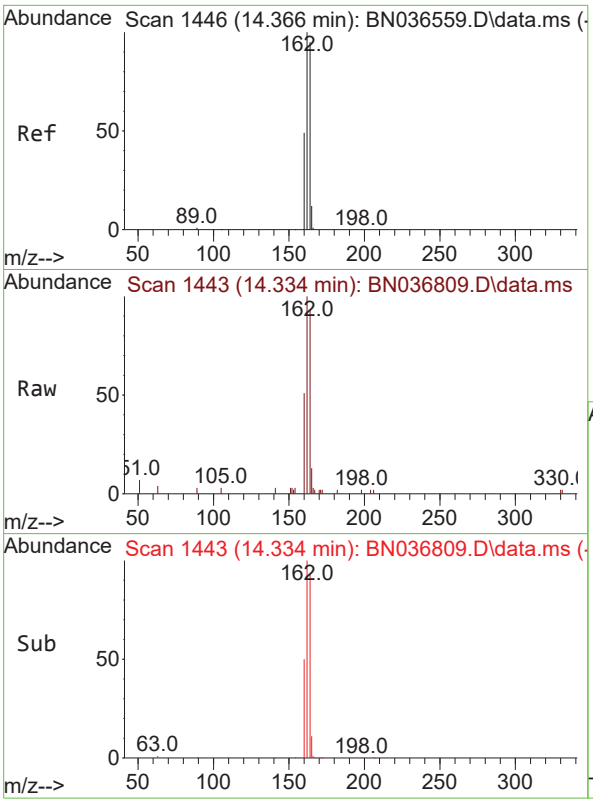




#12
2-Methylnaphthalene
Concen: 0.361 ng
RT: 12.151 min Scan# 1150
Delta R.T. -0.030 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion:142 Resp: 3144

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 91.4 | 71.7 | 107.5 |
| 115 | 47.8 | 38.3 | 57.5 |

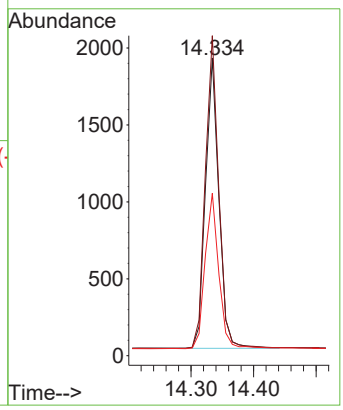





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.334 min Scan# 14
Delta R.T. -0.032 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion:164 Resp: 279

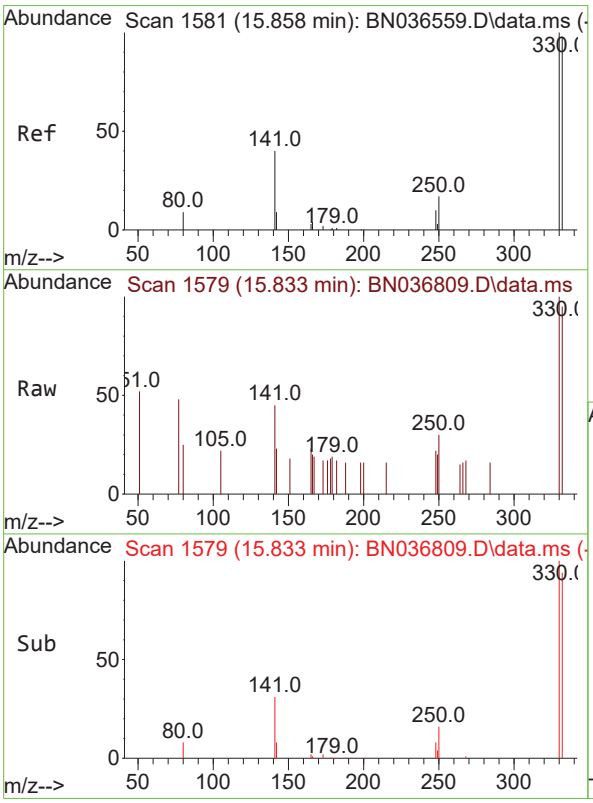
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 107.5 | 84.2 | 126.2 |
| 160 | 54.6 | 42.2 | 63.2 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations**
**APPROVED**

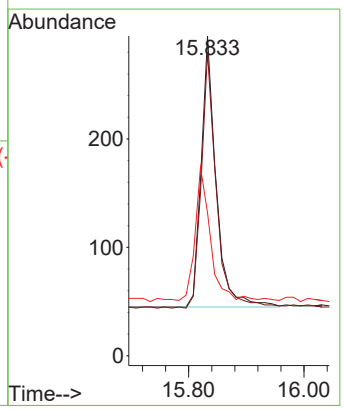
Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

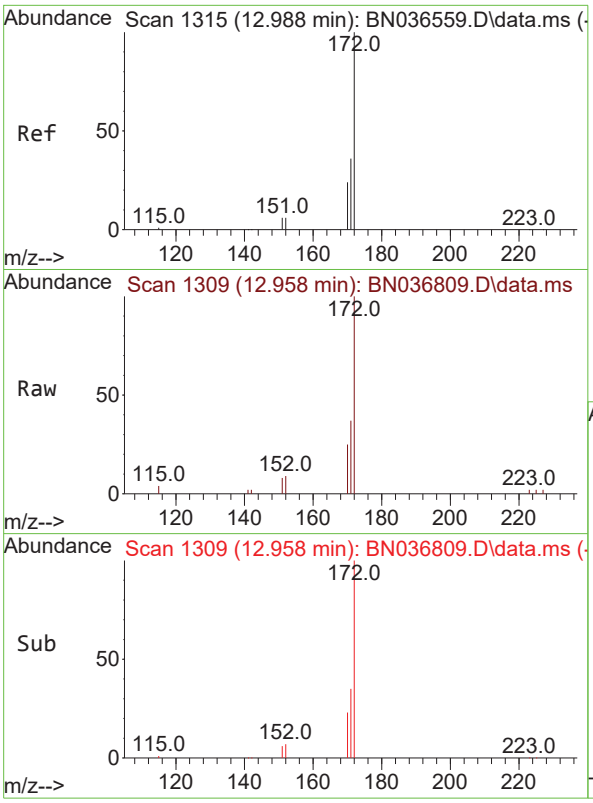



#14
2,4,6-Tribromophenol
Concen: 0.355 ng
RT: 15.833 min Scan# 1579
Delta R.T. -0.025 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion:330 Resp: 451

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 95.3 | 75.2 | 112.8 |
| 141 | 53.9 | 43.4 | 65.2 |

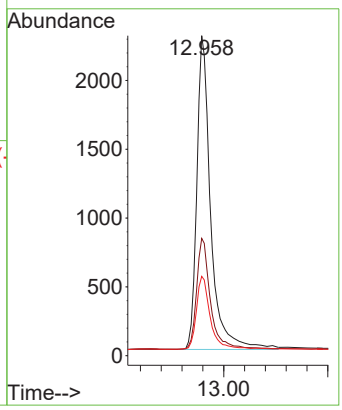





#15
2-Fluorobiphenyl
Concen: 0.340 ng
RT: 12.958 min Scan# 1
Delta R.T. -0.030 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion:172 Resp: 553

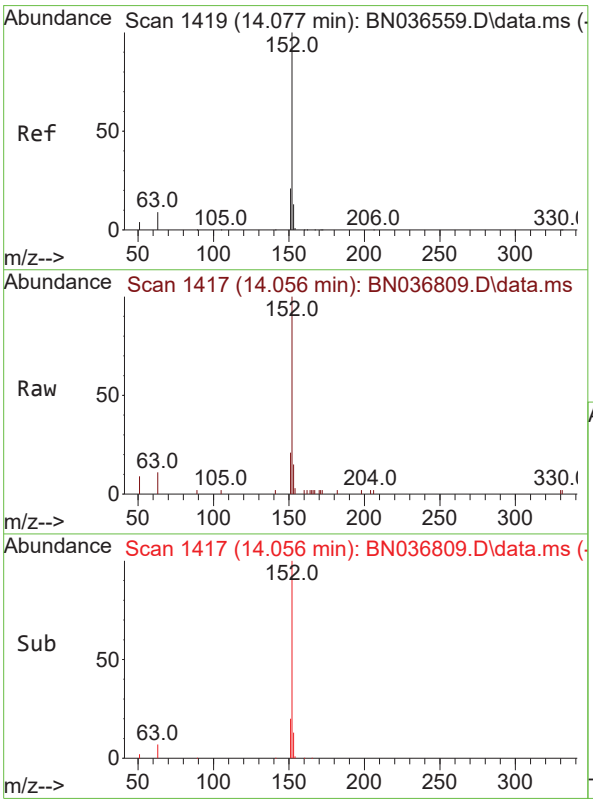
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 36.6 | 29.5 | 44.3 |
| 170 | 24.8 | 20.2 | 30.4 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations APPROVED**

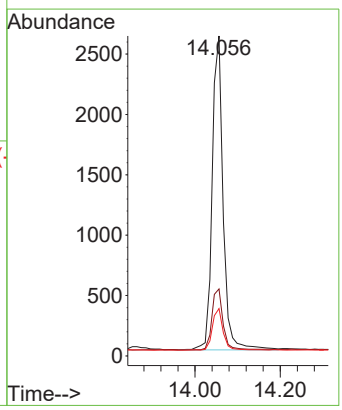
Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

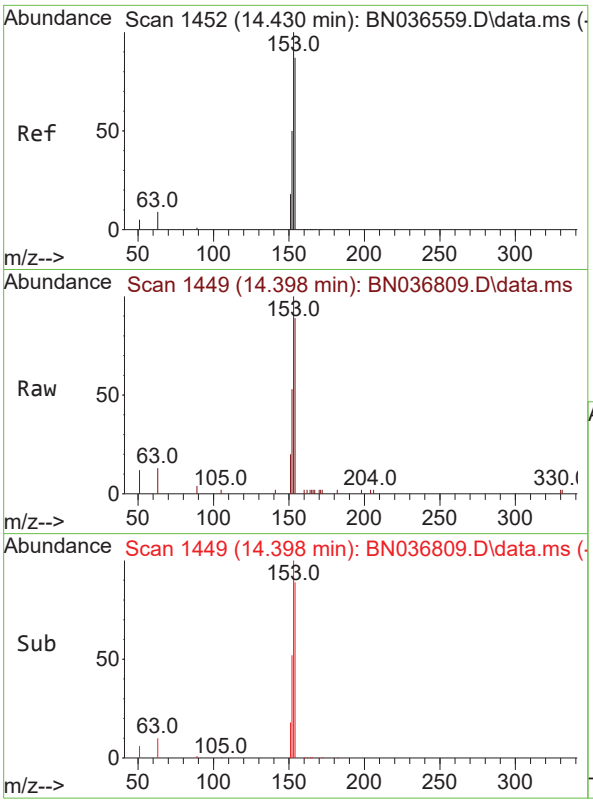



#16
Acenaphthylene
Concen: 0.350 ng
RT: 14.056 min Scan# 1417
Delta R.T. -0.021 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion:152 Resp: 4617

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 19.5 | 16.2 | 24.4 |
| 153 | 13.2 | 10.6 | 15.8 |

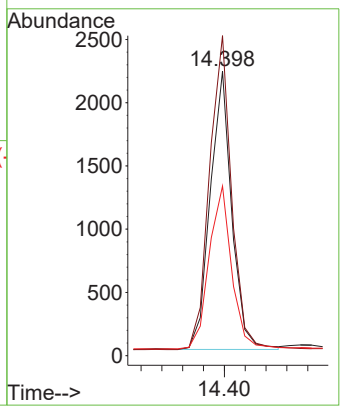





#17
Acenaphthene
Concen: 0.366 ng
RT: 14.398 min Scan# 14
Delta R.T. -0.032 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion:154 Resp: 316

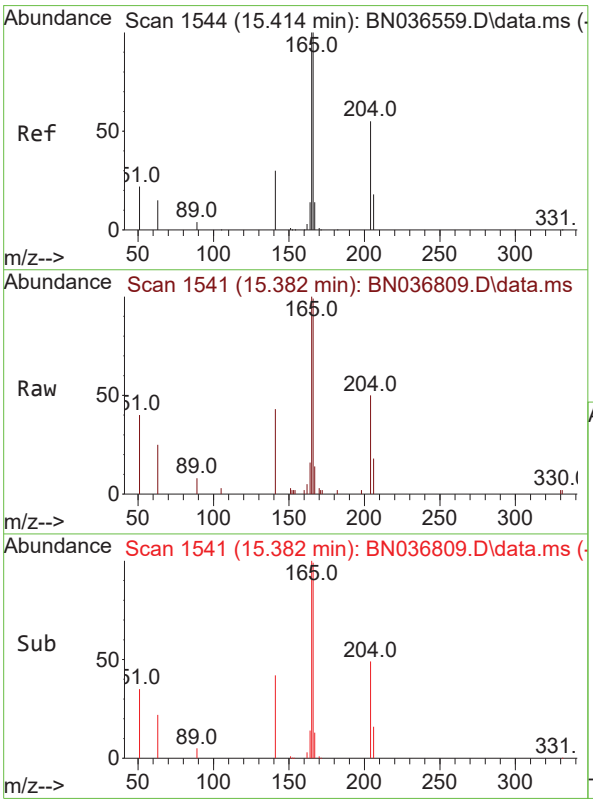
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 116.9 | 94.1 | 141.1 |
| 152 | 62.4 | 49.8 | 74.6 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations**
**APPROVED**

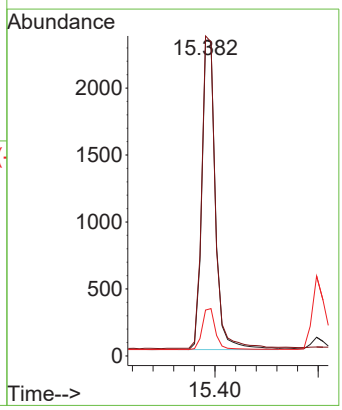
Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

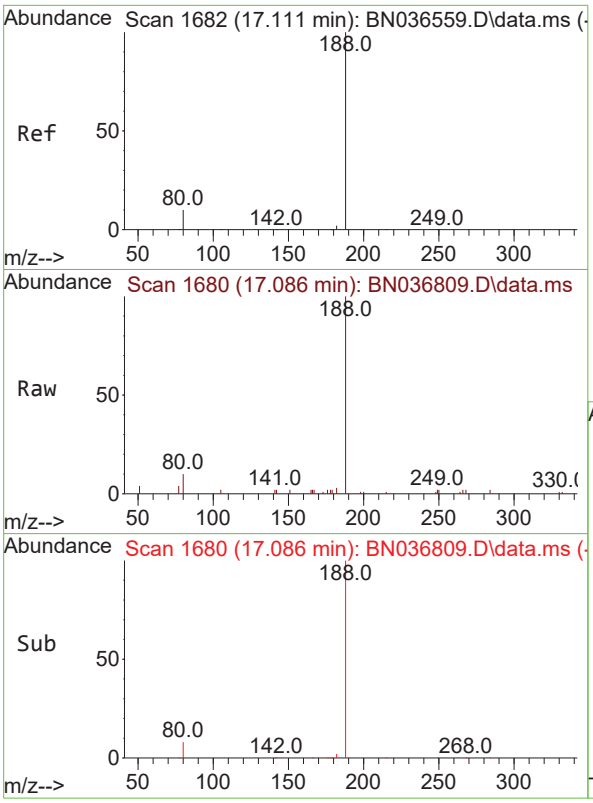



#18
Fluorene
Concen: 0.362 ng
RT: 15.382 min Scan# 1541
Delta R.T. -0.032 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion:166 Resp: 4232

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 100.4 | 79.8 | 119.8 |
| 167 | 13.2 | 10.6 | 15.8 |

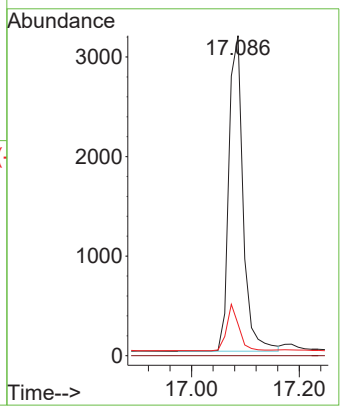





#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.086 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion:188 Resp: 580

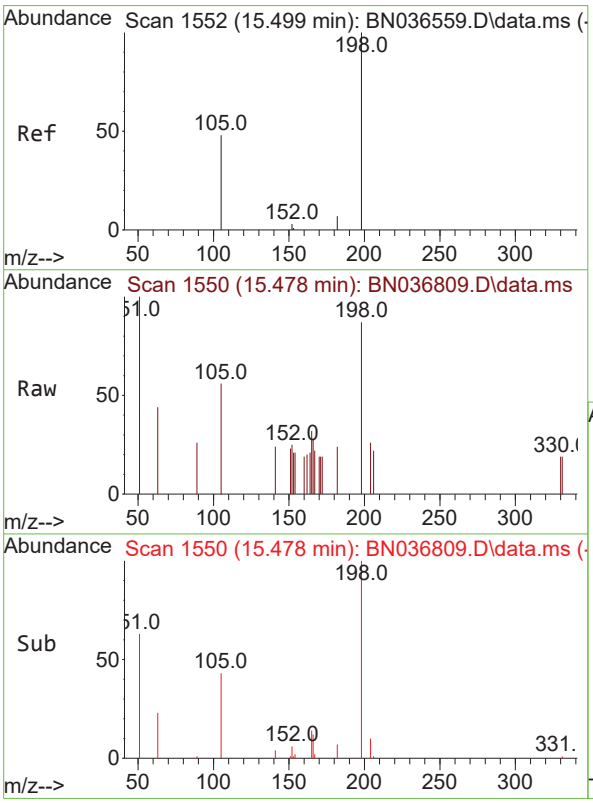
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 9.9 | 8.8 | 13.2 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations**
**APPROVED**

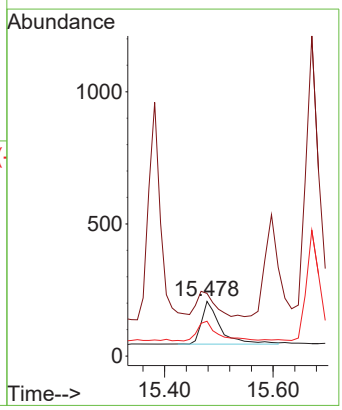
Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

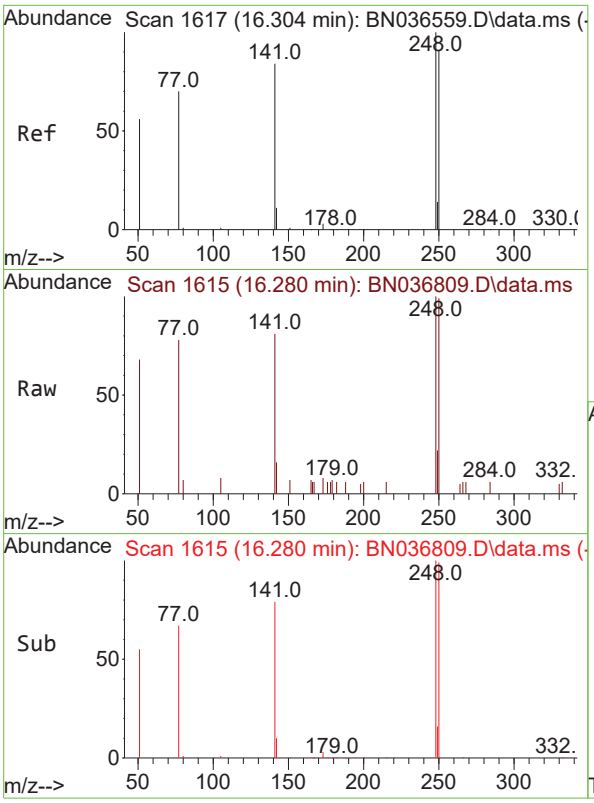



#20
4,6-Dinitro-2-methylphenol
Concen: 0.419 ng
RT: 15.478 min Scan# 1550
Delta R.T. -0.021 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion:198 Resp: 405

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 198 | 100 | | |
| 51 | 114.5 | 107.9 | 161.9 |
| 105 | 63.8 | 56.2 | 84.2 |






#21
4-Bromophenyl-phenylether
Concen: 0.355 ng
RT: 16.280 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

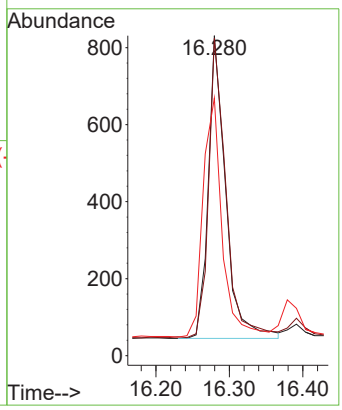
Tgt Ion:248 Resp: 129

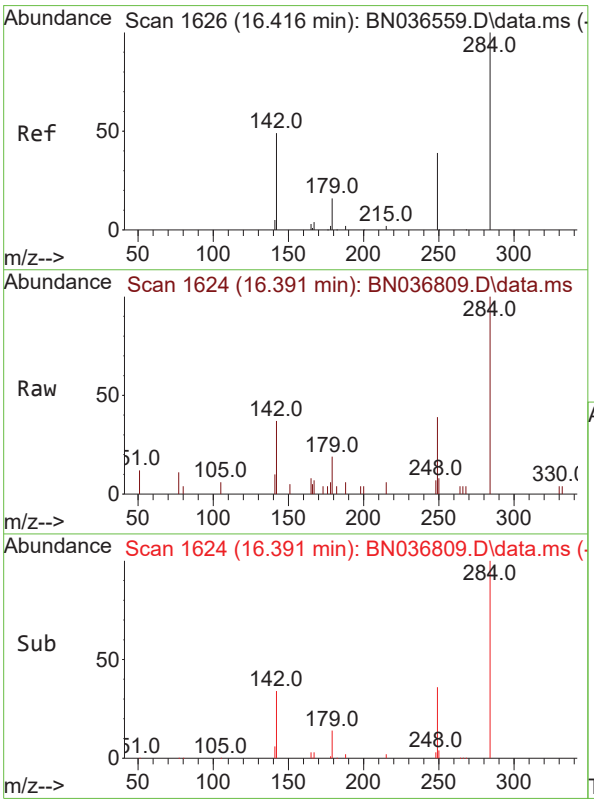
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 99.2 | 73.0 | 109.6 |
| 141 | 80.5 | 68.6 | 103.0 |

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations**
**APPROVED**

Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

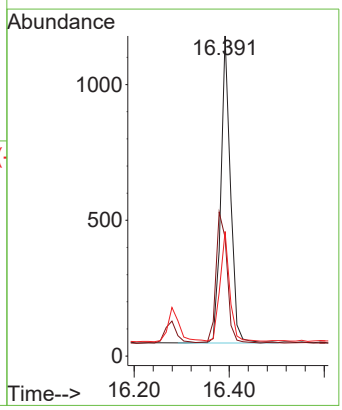


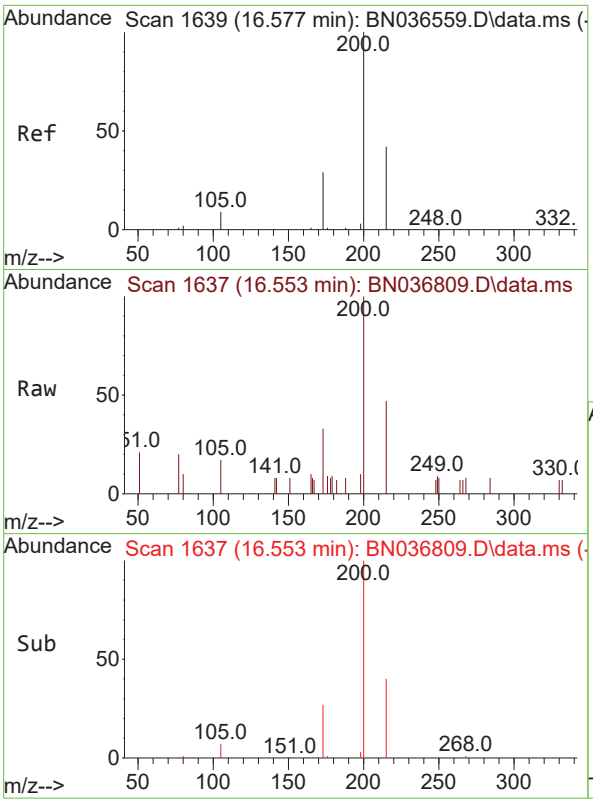




#22
Hexachlorobenzene
Concen: 0.361 ng
RT: 16.391 min Scan# 1624
Delta R.T. -0.025 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion:284 Resp: 1587

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 49.0 | 37.0 | 55.4 |
| 249 | 35.5 | 28.1 | 42.1 |

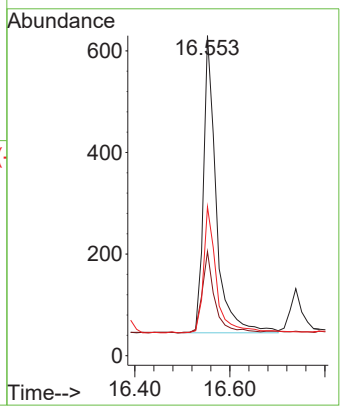





#23
Atrazine
Concen: 0.376 ng
RT: 16.553 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion:200 Resp: 109(

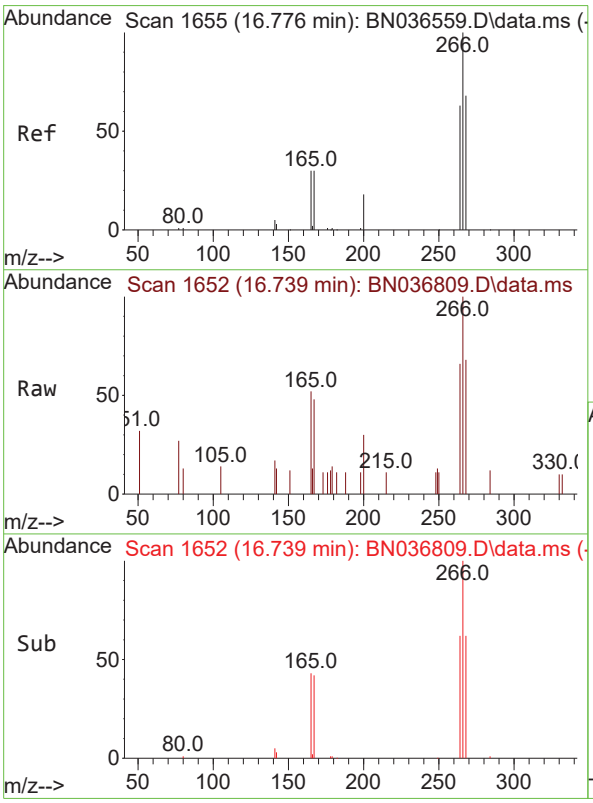
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 173 | 32.5 | 27.3 | 40.9 |
| 215 | 46.5 | 36.8 | 55.2 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations**
**APPROVED**

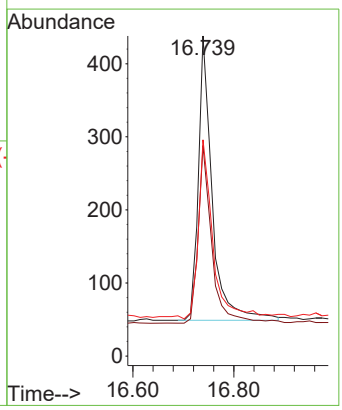
Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

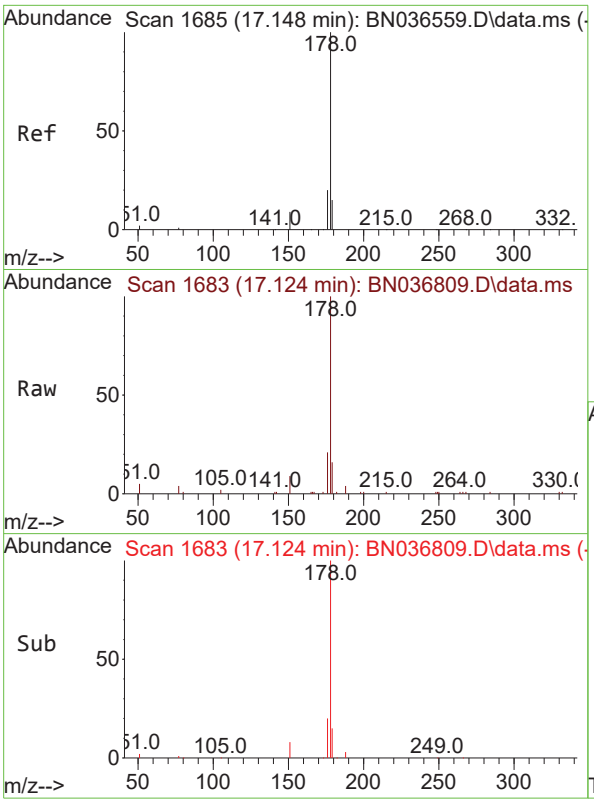



#24
Pentachlorophenol
Concen: 0.371 ng
RT: 16.739 min Scan# 1652
Delta R.T. -0.037 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion:266 Resp: 743

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 264 | 61.8 | 49.6 | 74.4 |
| 268 | 66.6 | 50.9 | 76.3 |

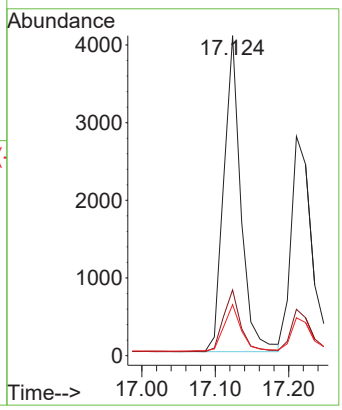





#25
Phenanthrene
Concen: 0.378 ng
RT: 17.124 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion:178 Resp: 658

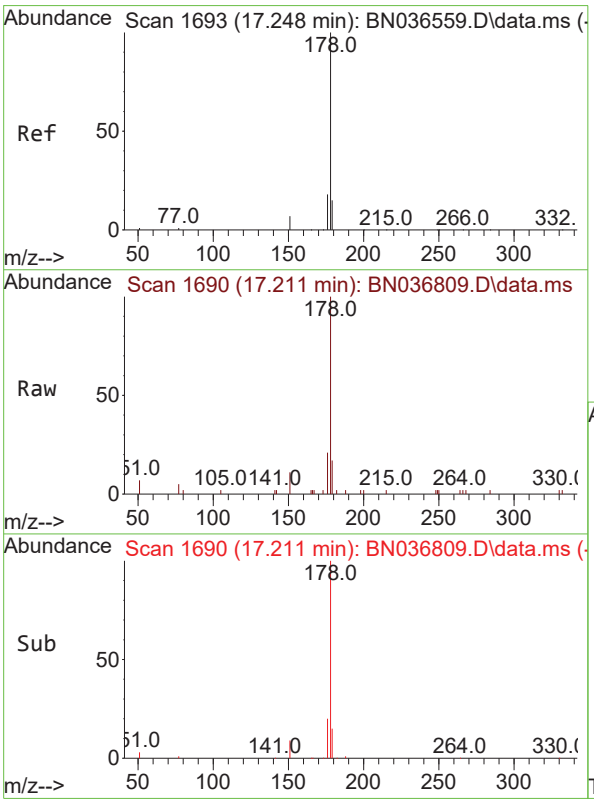
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.7 | 15.9 | 23.9 |
| 179 | 15.1 | 12.2 | 18.4 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations**
**APPROVED**

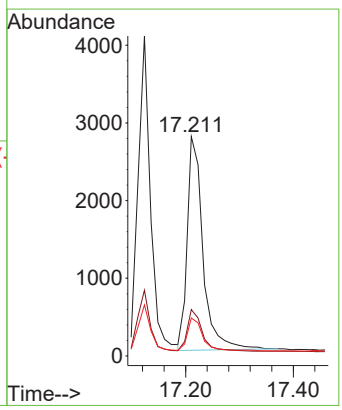
Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

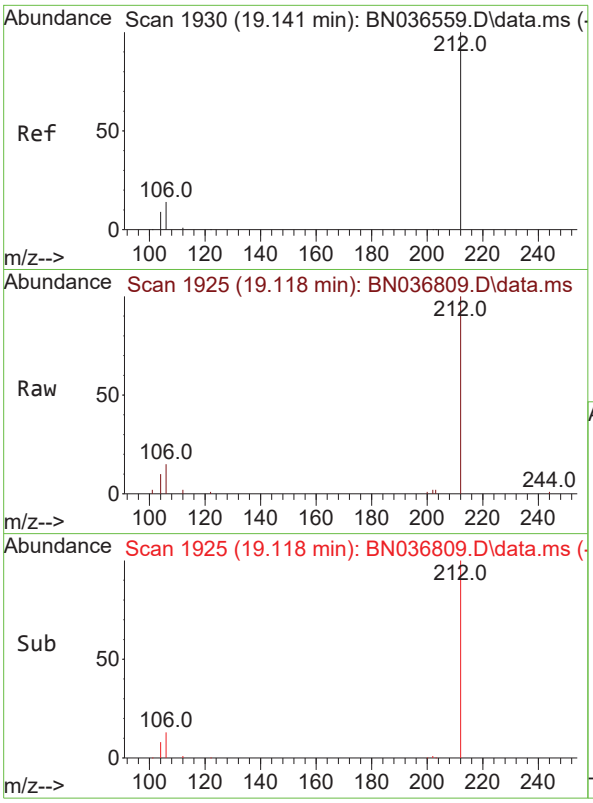



#26
Anthracene
Concen: 0.355 ng
RT: 17.211 min Scan# 1690
Delta R.T. -0.037 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion:178 Resp: 5583

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.3 | 15.4 | 23.2 |
| 179 | 15.3 | 12.6 | 18.8 |

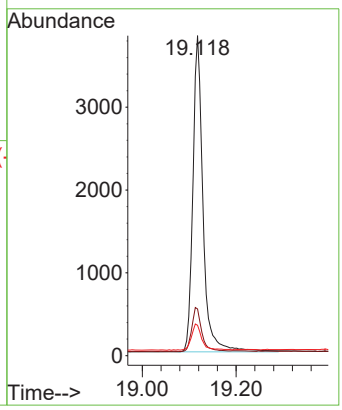





#27
Fluoranthene-d10
Concen: 0.386 ng
RT: 19.118 min Scan# 1
Delta R.T. -0.023 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion:212 Resp: 575

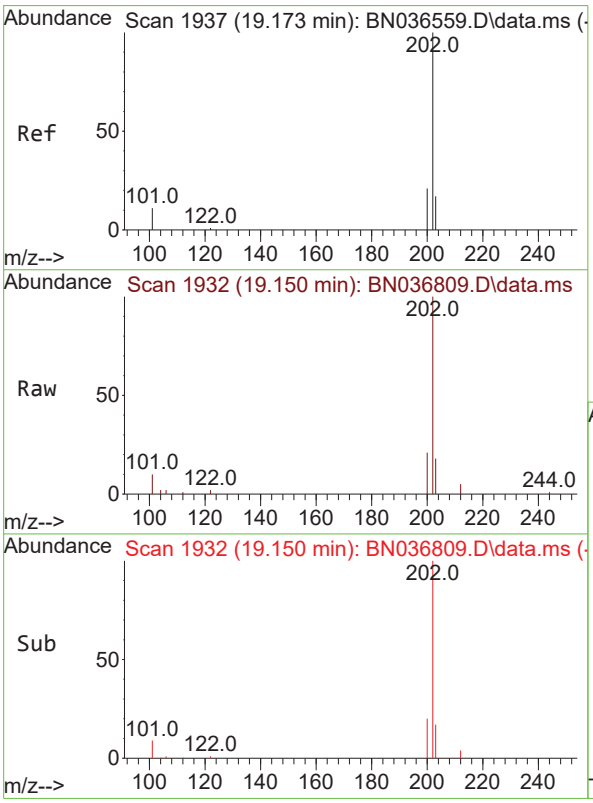
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 13.6 | 11.8 | 17.6 |
| 104 | 8.5 | 7.3 | 10.9 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations**
**APPROVED**

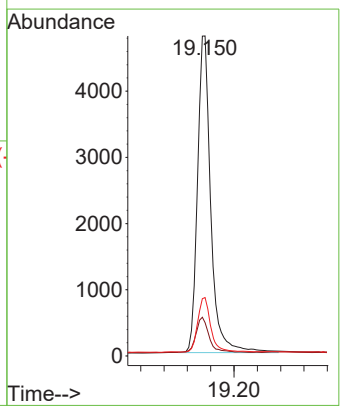
Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

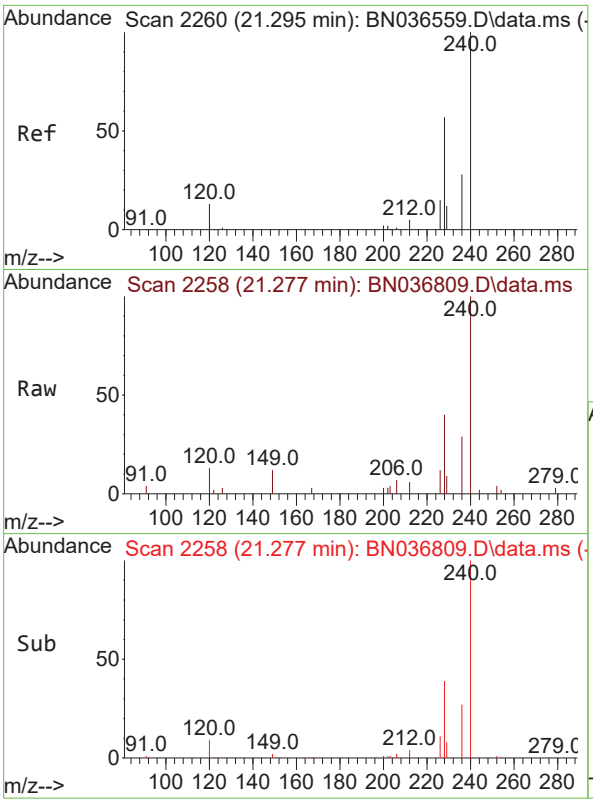



#28
Fluoranthene
Concen: 0.388 ng
RT: 19.150 min Scan# 1932
Delta R.T. -0.023 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion:202 Resp: 7591

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 11.2 | 9.4 | 14.0 |
| 203 | 17.1 | 13.5 | 20.3 |

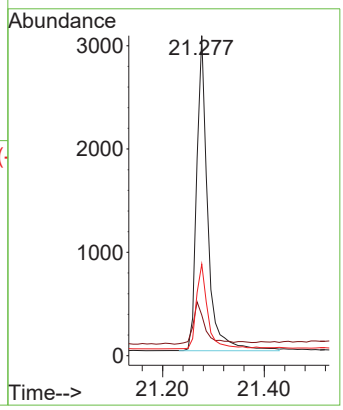





#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion:240 Resp: 458

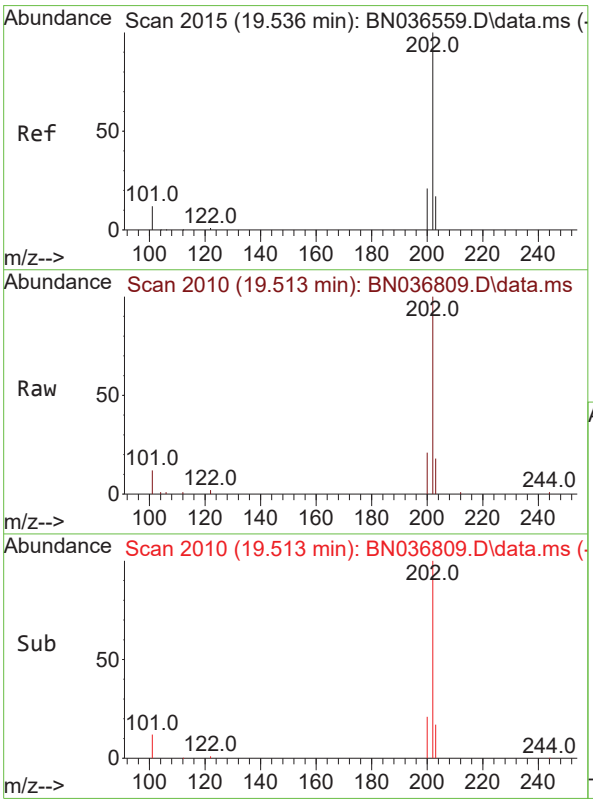
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 12.7 | 14.6 | 22.0# |
| 236 | 28.6 | 24.1 | 36.1 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations**
**APPROVED**

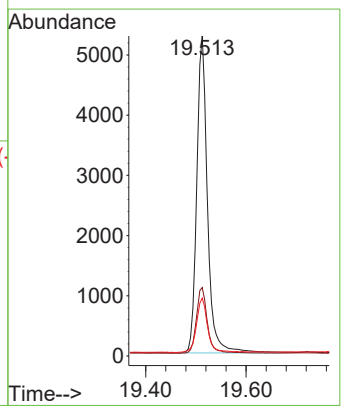
Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

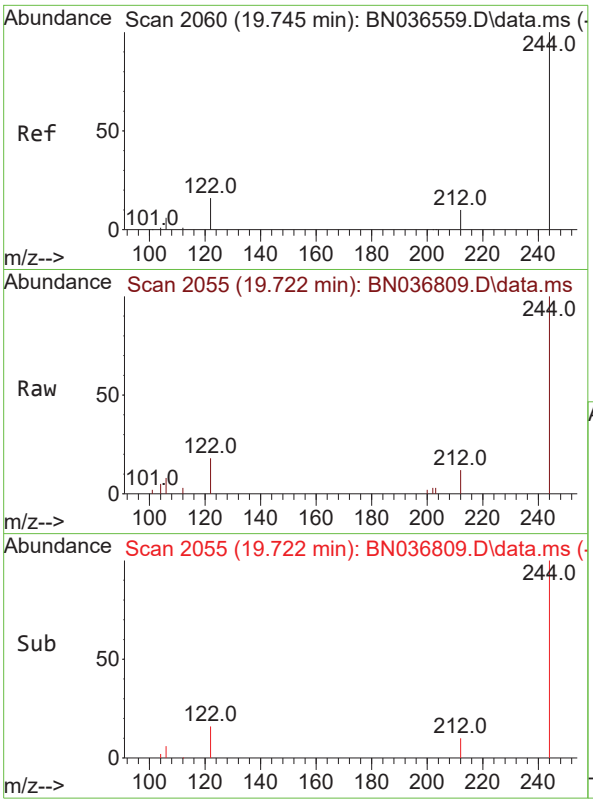



#30
Pyrene
Concen: 0.348 ng
RT: 19.513 min Scan# 2010
Delta R.T. -0.023 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion:202 Resp: 7799

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.1 | 17.1 | 25.7 |
| 203 | 17.5 | 14.1 | 21.1 |

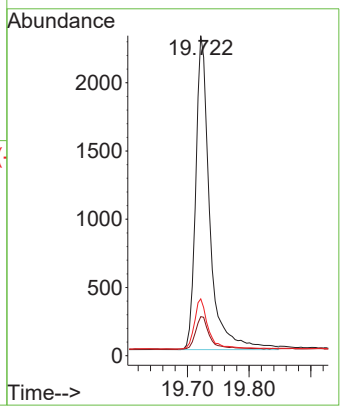





#31
Terphenyl-d14
Concen: 0.333 ng
RT: 19.722 min Scan# 2
Delta R.T. -0.023 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

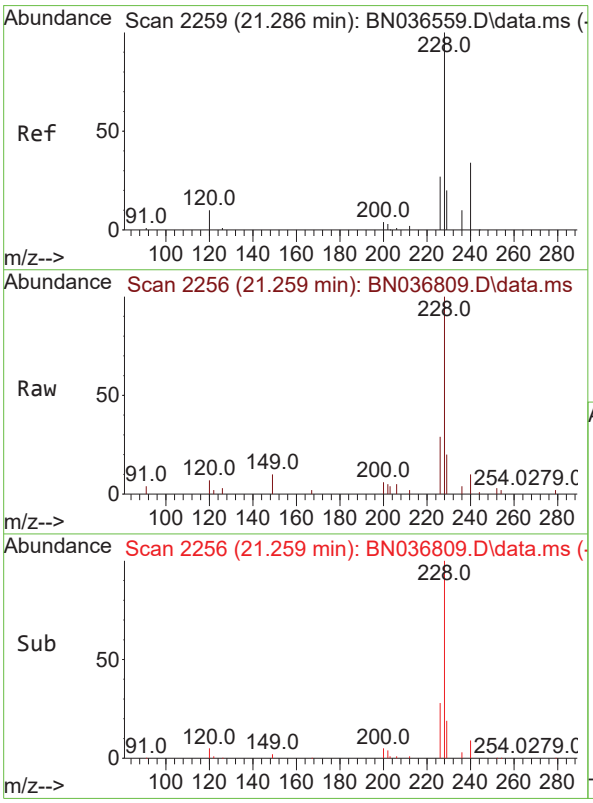
Tgt Ion:244 Resp: 366

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 12.2 | 9.6 | 14.4 |
| 122 | 17.7 | 13.9 | 20.9 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

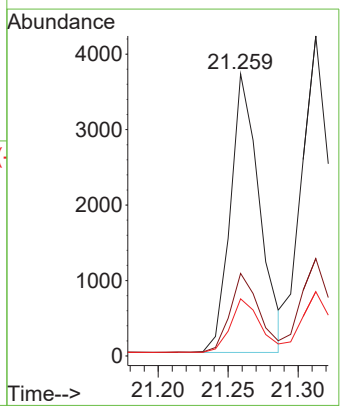
**Manual Integrations APPROVED**
Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

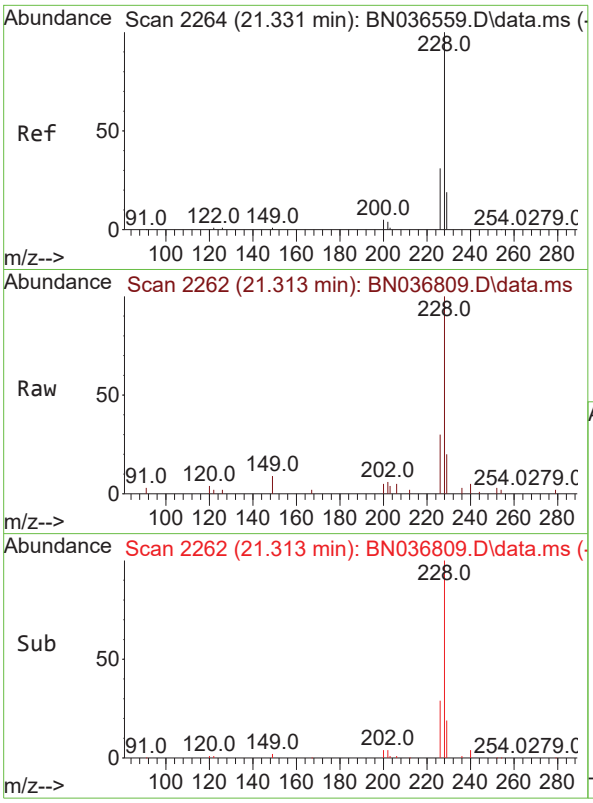



#32
Benzo(a)anthracene
Concen: 0.337 ng
RT: 21.259 min Scan# 2256
Delta R.T. -0.027 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion:228 Resp: 5377

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 29.3 | 22.5 | 33.7 |
| 229 | 20.2 | 16.6 | 25.0 |

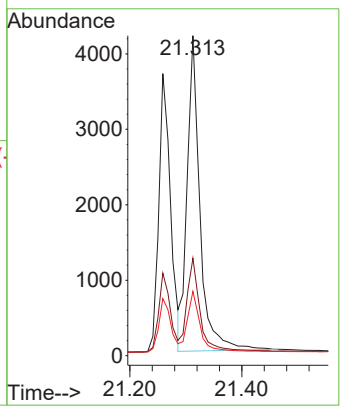





#33
Chrysene
Concen: 0.381 ng
RT: 21.313 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion:228 Resp: 664

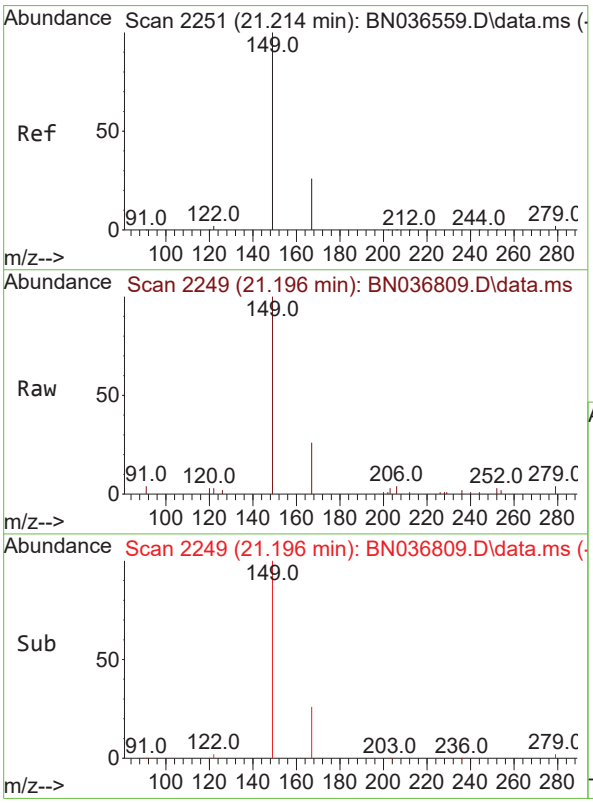
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 30.4 | 25.3 | 37.9 |
| 229 | 20.1 | 15.8 | 23.8 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations**
**APPROVED**

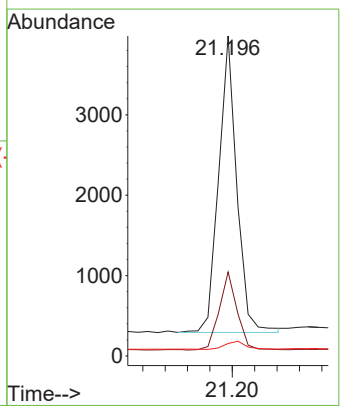
Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

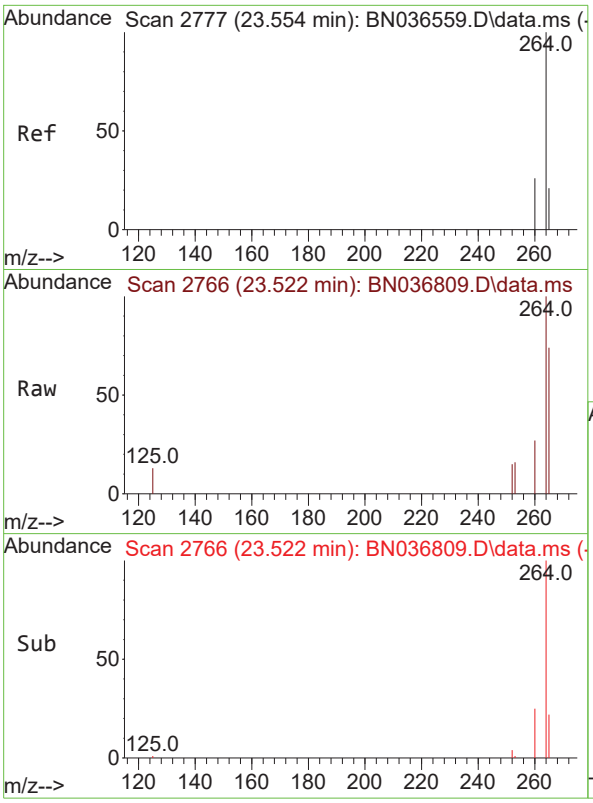



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.365 ng
RT: 21.196 min Scan# 2249
Delta R.T. -0.018 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion:149 Resp: 4143

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 26.0 | 20.7 | 31.1 |
| 279 | 3.0 | 3.6 | 5.4# |

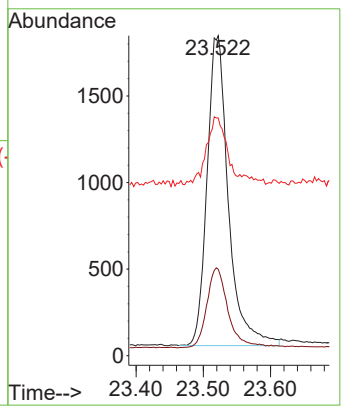





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.522 min Scan# 2
Delta R.T. -0.032 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion:264 Resp: 394

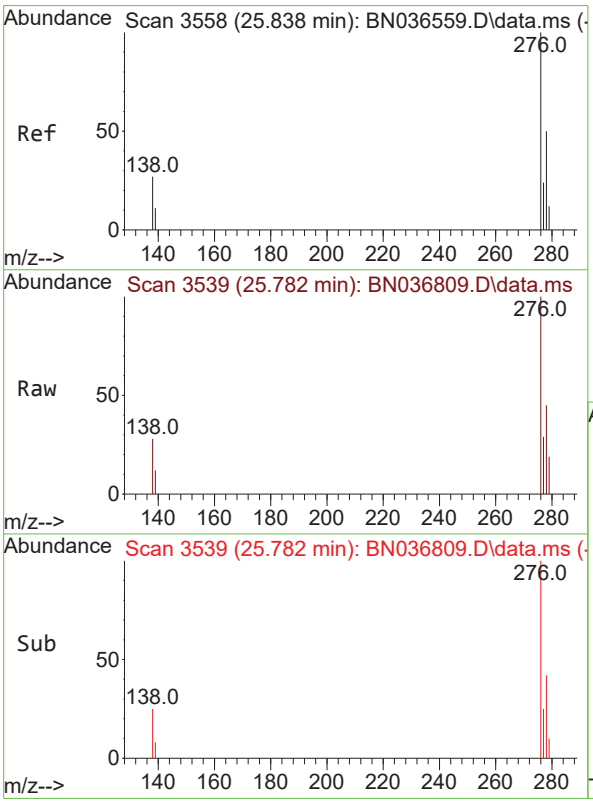
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 27.0 | 22.6 | 33.8 |
| 265 | 74.3 | 88.1 | 132.1 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations**
**APPROVED**

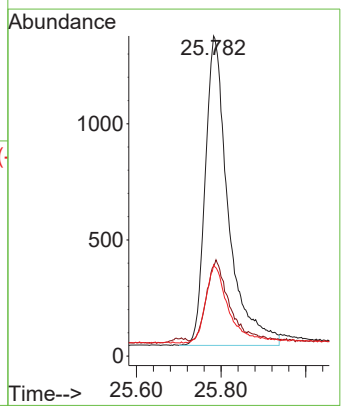
Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

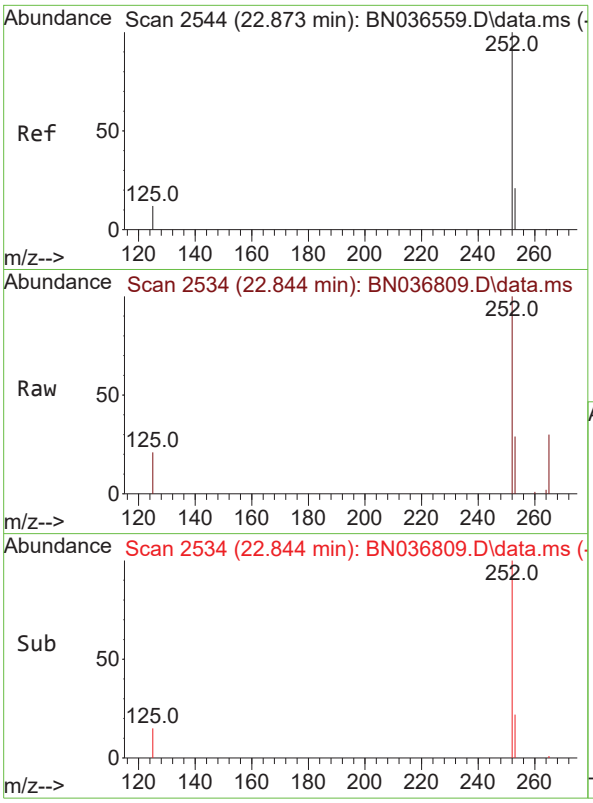



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.352 ng
RT: 25.782 min Scan# 3539
Delta R.T. -0.056 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion:276 Resp: 5019

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 24.2 | 23.4 | 35.2 |
| 277 | 24.6 | 20.0 | 30.0 |

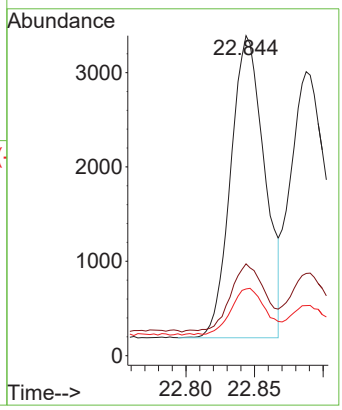





#37
Benzo(b)fluoranthene
Concen: 0.383 ng
RT: 22.844 min Scan# 2
Delta R.T. -0.029 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion:252 Resp: 549

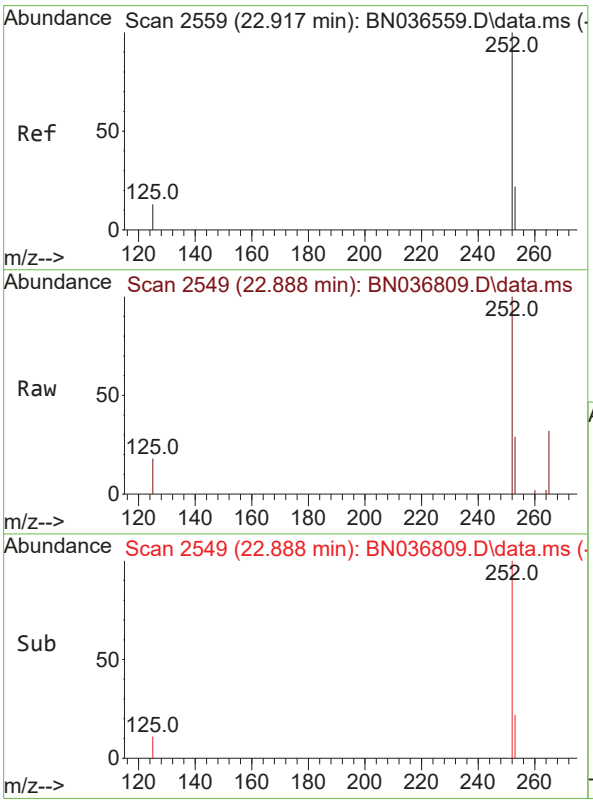
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 28.7 | 23.9 | 35.9 |
| 125 | 20.8 | 17.4 | 26.2 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations**
**APPROVED**

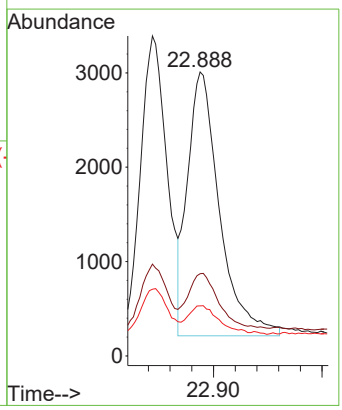
Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

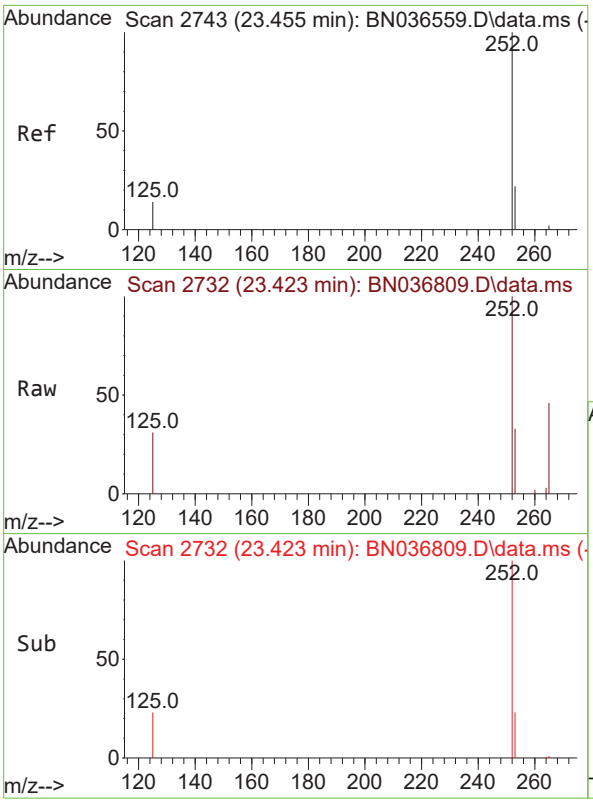



#38
Benzo(k)fluoranthene
Concen: 0.381 ng m
RT: 22.888 min Scan# 2549
Delta R.T. -0.029 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion:252 Resp: 5737

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 28.9 | 24.6 | 36.8 |
| 125 | 17.6 | 17.8 | 26.8# |

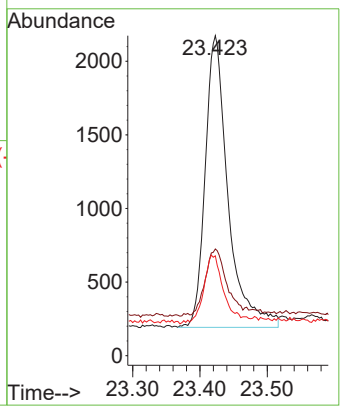





#39
Benzo(a)pyrene
Concen: 0.387 ng
RT: 23.423 min Scan# 2
Delta R.T. -0.032 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion:252 Resp: 467

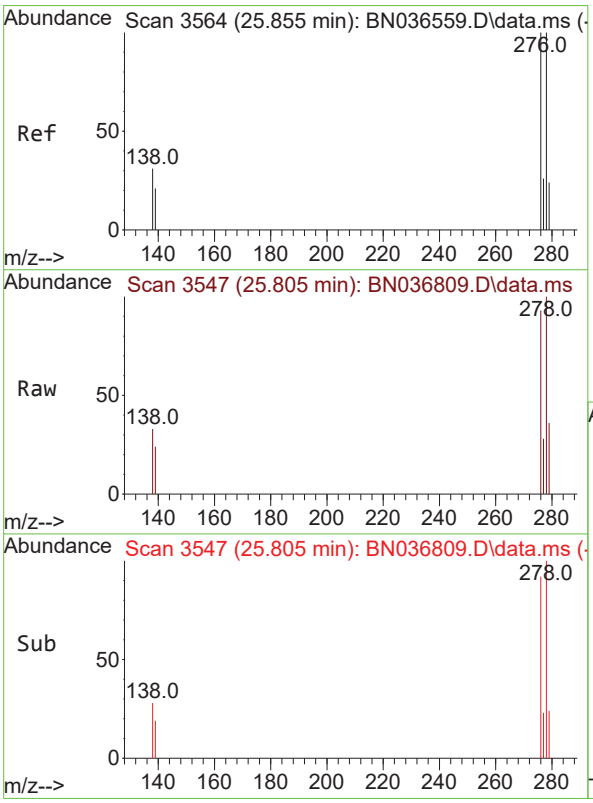
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 33.3 | 27.8 | 41.8 |
| 125 | 31.2 | 22.7 | 34.1 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations**
**APPROVED**

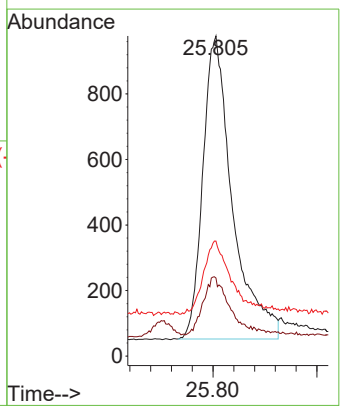
Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

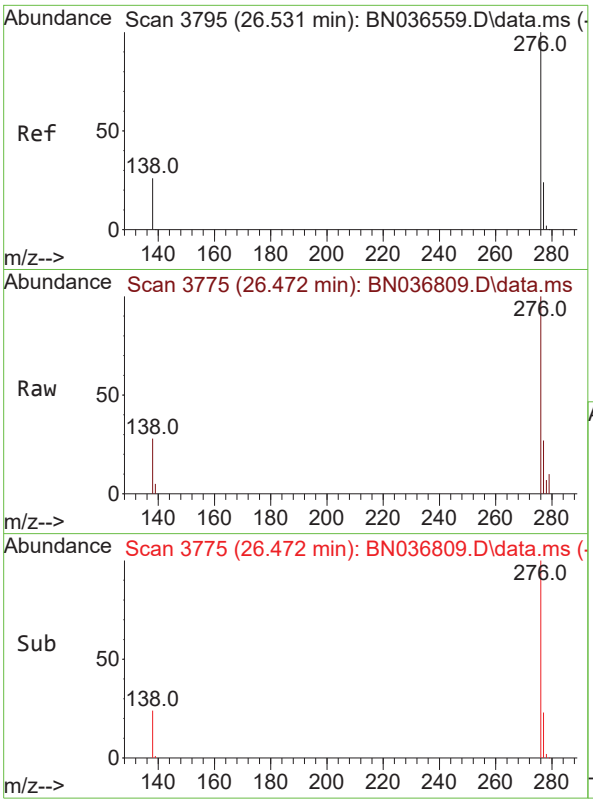



#40
Dibenzo(a,h)anthracene
Concen: 0.330 ng
RT: 25.805 min Scan# 3547
Delta R.T. -0.050 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion:278 Resp: 3655

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 24.4 | 20.8 | 31.2 |
| 279 | 35.9 | 28.8 | 43.2 |

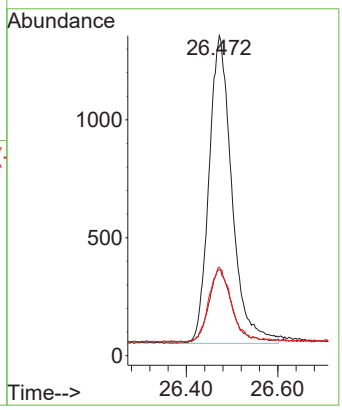





#41
Benzo(g,h,i)perylene
Concen: 0.358 ng
RT: 26.472 min Scan# 3
Delta R.T. -0.058 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion:276 Resp: 454

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 26.8 | 22.2 | 33.4 |
| 138 | 27.6 | 24.1 | 36.1 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

**Manual Integrations**
**APPROVED**

Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN033125\
Data File : BN036809.D
Acq On : 31 Mar 2025 10:39
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
BNA_N
**LabSampleId :**
SSTDCCC0.4

Quant Time: Mar 31 12:10:51 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
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 | 86 | -0.03 |
| 2 | | 1,4-Dioxane | 0.444 | 0.454 | -2.3 | 78 | -0.01 |
| 3 | | n-Nitrosodimethylamine | 0.898 | 0.888 | 1.1 | 81 | -0.01 |
| 4 | S | 2-Fluorophenol | 0.932 | 0.818 | 12.2 | 71 | -0.03 |
| 5 | S | Phenol-d6 | 1.152 | 0.953 | 17.3 | 72 | -0.04 |
| 6 | | bis(2-Chloroethyl)ether | 1.190 | 1.001 | 15.9 | 72 | -0.03 |
| 7 | I | Naphthalene-d8 | 1.000 | 1.000 | 0.0 | 91 | -0.03 |
| 8 | S | Nitrobenzene-d5 | 0.435 | 0.363 | 16.6 | 80 | -0.03 |
| 9 | | Naphthalene | 1.177 | 1.042 | 11.5 | 79 | -0.03 |
| 10 | | Hexachlorobutadiene | 0.277 | 0.245 | 11.6 | 76 | -0.03 |
| 11 | SURR | 2-Methylnaphthalene-d10 | 0.595 | 0.537 | 9.7 | 81 | -0.04 |
| 12 | | 2-Methylnaphthalene | 0.749 | 0.675 | 9.9 | 81 | -0.03 |
| 13 | I | Acenaphthene-d10 | 1.000 | 1.000 | 0.0 | 92 | -0.03 |
| 14 | S | 2,4,6-Tribromophenol | 0.182 | 0.161 | 11.5 | 80 | -0.02 |
| 15 | S | 2-Fluorobiphenyl | 2.327 | 1.979 | 15.0 | 76 | -0.03 |
| 16 | | Acenaphthylene | 1.888 | 1.650 | 12.6 | 79 | -0.02 |
| 17 | | Acenaphthene | 1.236 | 1.130 | 8.6 | 82 | -0.03 |
| 18 | | Fluorene | 1.672 | 1.513 | 9.5 | 79 | -0.03 |
| 19 | I | Phenanthrene-d10 | 1.000 | 1.000 | 0.0 | 97 | -0.02 |
| 20 | | 4,6-Dinitro-2-methylphenol | 0.086 | 0.070 | 18.6 | 88 | -0.02 |
| 21 | | 4-Bromophenyl-phenylether | 0.251 | 0.222 | 11.6 | 79 | -0.02 |
| 22 | | Hexachlorobenzene | 0.303 | 0.273 | 9.9 | 79 | -0.02 |
| 23 | | Atrazine | 0.201 | 0.189 | 6.0 | 86 | -0.02 |
| 24 | | Pentachlorophenol | 0.138 | 0.128 | 7.2 | 90 | -0.04 |
| 25 | | Phenanthrene | 1.200 | 1.133 | 5.6 | 85 | -0.02 |
| 26 | | Anthracene | 1.083 | 0.961 | 11.3 | 81 | -0.04 |
| 27 | SURR | Fluoranthene-d10 | 1.025 | 0.990 | 3.4 | 86 | -0.02 |
| 28 | | Fluoranthene | 1.348 | 1.307 | 3.0 | 87 | -0.02 |
| 29 | I | Chrysene-d12 | 1.000 | 1.000 | 0.0 | 112 | -0.02 |
| 30 | | Pyrene | 1.956 | 1.701 | 13.0 | 89 | -0.02 |
| 31 | S | Terphenyl-d14 | 0.958 | 0.798 | 16.7 | 87 | -0.02 |
| 32 | | Benzo(a)anthracene | 1.391 | 1.172 | 15.7 | 91 | -0.03 |
| 33 | | Chrysene | 1.520 | 1.448 | 4.7 | 100 | -0.02 |
| 34 | | Bis(2-ethylhexyl)phthalate | 0.990 | 0.903 | 8.8 | 97 | -0.02 |
| 35 | I | Perylene-d12 | 1.000 | 1.000 | 0.0 | 111 | -0.03 |
| 36 | | Indeno(1,2,3-cd)pyrene | 1.444 | 1.272 | 11.9 | 92 | -0.06 |
| 37 | | Benzo(b)fluoranthene | 1.456 | 1.393 | 4.3 | 100 | -0.03 |
| 38 | | Benzo(k)fluoranthene | 1.527 | 1.454 | 4.8 | 100 | -0.03 |
| 39 | C | Benzo(a)pyrene | 1.226 | 1.186 | 3.3 | 101 | -0.03 |
| 40 | | Dibenzo(a,h)anthracene | 1.124 | 0.926 | 17.6 | 89 | -0.05 |
| 41 | | Benzo(g,h,i)perylene | 1.286 | 1.152 | 10.4 | 93 | -0.06 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN033125\
Data File : BN036809.D
Acq On : 31 Mar 2025 10:39
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
BNA_N
**LabSampleId :**
SSTDCCC0.4

Quant Time: Mar 31 12:10:51 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
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 | 86 | -0.03 |
| 2 | | 1,4-Dioxane | 0.400 | 0.409 | -2.2 | 78 | -0.01 |
| 3 | | n-Nitrosodimethylamine | 0.400 | 0.396 | 1.0 | 81 | -0.01 |
| 4 | S | 2-Fluorophenol | 0.400 | 0.351 | 12.3 | 71 | -0.03 |
| 5 | S | Phenol-d6 | 0.400 | 0.331 | 17.3 | 72 | -0.04 |
| 6 | | bis(2-Chloroethyl)ether | 0.400 | 0.336 | 16.0 | 72 | -0.03 |
| 7 | I | Naphthalene-d8 | 0.400 | 0.400 | 0.0 | 91 | -0.03 |
| 8 | S | Nitrobenzene-d5 | 0.400 | 0.333 | 16.8 | 80 | -0.03 |
| 9 | | Naphthalene | 0.400 | 0.354 | 11.5 | 79 | -0.03 |
| 10 | | Hexachlorobutadiene | 0.400 | 0.354 | 11.5 | 76 | -0.03 |
| 11 | SURR | 2-Methylnaphthalene-d10 | 0.400 | 0.361 | 9.8 | 81 | -0.04 |
| 12 | | 2-Methylnaphthalene | 0.400 | 0.361 | 9.8 | 81 | -0.03 |
| 13 | I | Acenaphthene-d10 | 0.400 | 0.400 | 0.0 | 92 | -0.03 |
| 14 | S | 2,4,6-Tribromophenol | 0.400 | 0.355 | 11.3 | 80 | -0.02 |
| 15 | S | 2-Fluorobiphenyl | 0.400 | 0.340 | 15.0 | 76 | -0.03 |
| 16 | | Acenaphthylene | 0.400 | 0.350 | 12.5 | 79 | -0.02 |
| 17 | | Acenaphthene | 0.400 | 0.366 | 8.5 | 82 | -0.03 |
| 18 | | Fluorene | 0.400 | 0.362 | 9.5 | 79 | -0.03 |
| 19 | I | Phenanthrene-d10 | 0.400 | 0.400 | 0.0 | 97 | -0.02 |
| 20 | | 4,6-Dinitro-2-methylphenol | 0.400 | 0.419 | -4.7 | 88 | -0.02 |
| 21 | | 4-Bromophenyl-phenylether | 0.400 | 0.355 | 11.3 | 79 | -0.02 |
| 22 | | Hexachlorobenzene | 0.400 | 0.361 | 9.8 | 79 | -0.02 |
| 23 | | Atrazine | 0.400 | 0.376 | 6.0 | 86 | -0.02 |
| 24 | | Pentachlorophenol | 0.400 | 0.371 | 7.3 | 90 | -0.04 |
| 25 | | Phenanthrene | 0.400 | 0.378 | 5.5 | 85 | -0.02 |
| 26 | | Anthracene | 0.400 | 0.355 | 11.3 | 81 | -0.04 |
| 27 | SURR | Fluoranthene-d10 | 0.400 | 0.386 | 3.5 | 86 | -0.02 |
| 28 | | Fluoranthene | 0.400 | 0.388 | 3.0 | 87 | -0.02 |
| 29 | I | Chrysene-d12 | 0.400 | 0.400 | 0.0 | 112 | -0.02 |
| 30 | | Pyrene | 0.400 | 0.348 | 13.0 | 89 | -0.02 |
| 31 | S | Terphenyl-d14 | 0.400 | 0.333 | 16.8 | 87 | -0.02 |
| 32 | | Benzo(a)anthracene | 0.400 | 0.337 | 15.8 | 91 | -0.03 |
| 33 | | Chrysene | 0.400 | 0.381 | 4.8 | 100 | -0.02 |
| 34 | | Bis(2-ethylhexyl)phthalate | 0.400 | 0.365 | 8.8 | 97 | -0.02 |
| 35 | I | Perylene-d12 | 0.400 | 0.400 | 0.0 | 111 | -0.03 |
| 36 | | Indeno(1,2,3-cd)pyrene | 0.400 | 0.352 | 12.0 | 92 | -0.06 |
| 37 | | Benzo(b)fluoranthene | 0.400 | 0.383 | 4.3 | 100 | -0.03 |
| 38 | | Benzo(k)fluoranthene | 0.400 | 0.381 | 4.8 | 100 | -0.03 |
| 39 | C | Benzo(a)pyrene | 0.400 | 0.387 | 3.3 | 101 | -0.03 |
| 40 | | Dibenzo(a,h)anthracene | 0.400 | 0.330 | 17.5 | 89 | -0.05 |
| 41 | | Benzo(g,h,i)perylene | 0.400 | 0.358 | 10.5 | 93 | -0.06 |

(#) = 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.: Q1629 SAS No.: Q1629 SDG No.: Q1629

Instrument ID: BNA_N Calibration Date/Time: 03/31/2025 15:08

Lab File ID: BN036815.D Init. Calib. Date(s): 03/10/2025 03/10/2025

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 11:42 15:19

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

| COMPOUND | RRF | RRF0.4 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| 2-Methylnaphthalene-d10 | 0.595 | 0.543 | | -8.7 | 50.0 |
| Fluoranthene-d10 | 1.025 | 0.994 | | -3.0 | 50.0 |
| 2-Fluorophenol | 0.932 | 0.839 | | -10.0 | 50.0 |
| Phenol-d6 | 1.152 | 0.976 | | -15.3 | 50.0 |
| Nitrobenzene-d5 | 0.435 | 0.348 | | -20.0 | 50.0 |
| 2-Fluorobiphenyl | 2.327 | 1.957 | | -15.9 | 50.0 |
| 2,4,6-Tribromophenol | 0.182 | 0.159 | | -12.6 | 50.0 |
| Terphenyl-d14 | 0.958 | 0.842 | | -12.1 | 50.0 |
| 1,4-Dioxane | 0.444 | 0.447 | | 0.7 | 50.0 |

All other compounds must meet a minimum RRF of 0.010.

Form VII SV-1

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN033125\
Data File : BN036815.D
Acq On : 31 Mar 2025 15:08
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 31 15:30:13 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations APPROVED**
Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.696 | 152 | 1563 | 0.400 | ng | | -0.03 |
| 7) Naphthalene-d8 | 10.477 | 136 | 4089 | 0.400 | ng | | -0.03 |
| 13) Acenaphthene-d10 | 14.334 | 164 | 2524 | 0.400 | ng | | -0.03 |
| 19) Phenanthrene-d10 | 17.087 | 188 | 5032 | 0.400 | ng | | -0.02 |
| 29) Chrysene-d12 | 21.277 | 240 | 3863 | 0.400 | ng | | -0.02 |
| 35) Perylene-d12 | 23.525 | 264 | 3435 | 0.400 | ng | | #-0.03 |
| **System Monitoring Compounds** | | | | | | | |
| 4) 2-Fluorophenol | 5.283 | 112 | 1311 | 0.360 | ng | | -0.03 |
| 5) Phenol-d6 | 6.865 | 99 | 1525 | 0.339 | ng | | -0.04 |
| 8) Nitrobenzene-d5 | 8.843 | 82 | 1424 | 0.320 | ng | | -0.03 |
| 11) 2-Methylnaphthalene-d10 | 12.075 | 152 | 2219 | 0.365 | ng | | -0.04 |
| 14) 2,4,6-Tribromophenol | 15.833 | 330 | 402 | 0.351 | ng | | -0.02 |
| 15) 2-Fluorobiphenyl | 12.963 | 172 | 4939 | 0.336 | ng | | -0.03 |
| 27) Fluoranthene-d10 | 19.118 | 212 | 5000 | 0.388 | ng | | -0.02 |
| 31) Terphenyl-d14 | 19.726 | 244 | 3254 | 0.352 | ng | | -0.02 |
| **Target Compounds** | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.225 | 88 | 698 | 0.403 | ng | | 97 |
| 3) n-Nitrosodimethylamine | 3.536 | 42 | 1430 | 0.408 | ng | | 93 |
| 6) bis(2-Chloroethyl)ether | 7.118 | 93 | 1597 | 0.343 | ng | | 98 |
| 9) Naphthalene | 10.530 | 128 | 4210 | 0.350 | ng | | 99 |
| 10) Hexachlorobutadiene | 10.818 | 225 | 998 | 0.352 | ng | # | 99 |
| 12) 2-Methylnaphthalene | 12.151 | 142 | 2722 | 0.356 | ng | | 99 |
| 16) Acenaphthylene | 14.056 | 152 | 4054 | 0.340 | ng | | 100 |
| 17) Acenaphthene | 14.398 | 154 | 2777 | 0.356 | ng | | 99 |
| 18) Fluorene | 15.393 | 166 | 3732 | 0.354 | ng | | 99 |
| 20) 4,6-Dinitro-2-methylph... | 15.478 | 198 | 396 | 0.454 | ng | | 85 |
| 21) 4-Bromophenyl-phenylether | 16.280 | 248 | 1144 | 0.363 | ng | | 94 |
| 22) Hexachlorobenzene | 16.391 | 284 | 1380 | 0.363 | ng | | 95 |
| 23) Atrazine | 16.553 | 200 | 954 | 0.377 | ng | | 97 |
| 24) Pentachlorophenol | 16.739 | 266 | 651 | 0.375 | ng | | 97 |
| 25) Phenanthrene | 17.124 | 178 | 5703 | 0.378 | ng | | 100 |
| 26) Anthracene | 17.223 | 178 | 4933 | 0.362 | ng | | 99 |
| 28) Fluoranthene | 19.150 | 202 | 6761 | 0.399 | ng | | 98 |
| 30) Pyrene | 19.513 | 202 | 6826 | 0.361 | ng | | 100 |
| 32) Benzo(a)anthracene | 21.268 | 228 | 4715 | 0.351 | ng | | 99 |
| 33) Chrysene | 21.313 | 228 | 5650 | 0.385 | ng | | 100 |
| 34) Bis(2-ethylhexyl)phtha... | 21.196 | 149 | 3477 | 0.364 | ng | # | 99 |
| 36) Indeno(1,2,3-cd)pyrene | 25.800 | 276 | 4428 | 0.357 | ng | | 94 |
| 37) Benzo(b)fluoranthene | 22.850 | 252 | 4732 | 0.379 | ng | | 98 |
| 38) Benzo(k)fluoranthene | 22.897 | 252 | 5156m | 0.393 | ng | | |
| 39) Benzo(a)pyrene | 23.429 | 252 | 4200 | 0.399 | ng | | 97 |
| 40) Dibenzo(a,h)anthracene | 25.811 | 278 | 3277 | 0.340 | ng | | 97 |
| 41) Benzo(g,h,i)perylene | 26.484 | 276 | 4006 | 0.363 | ng | | 97 |

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

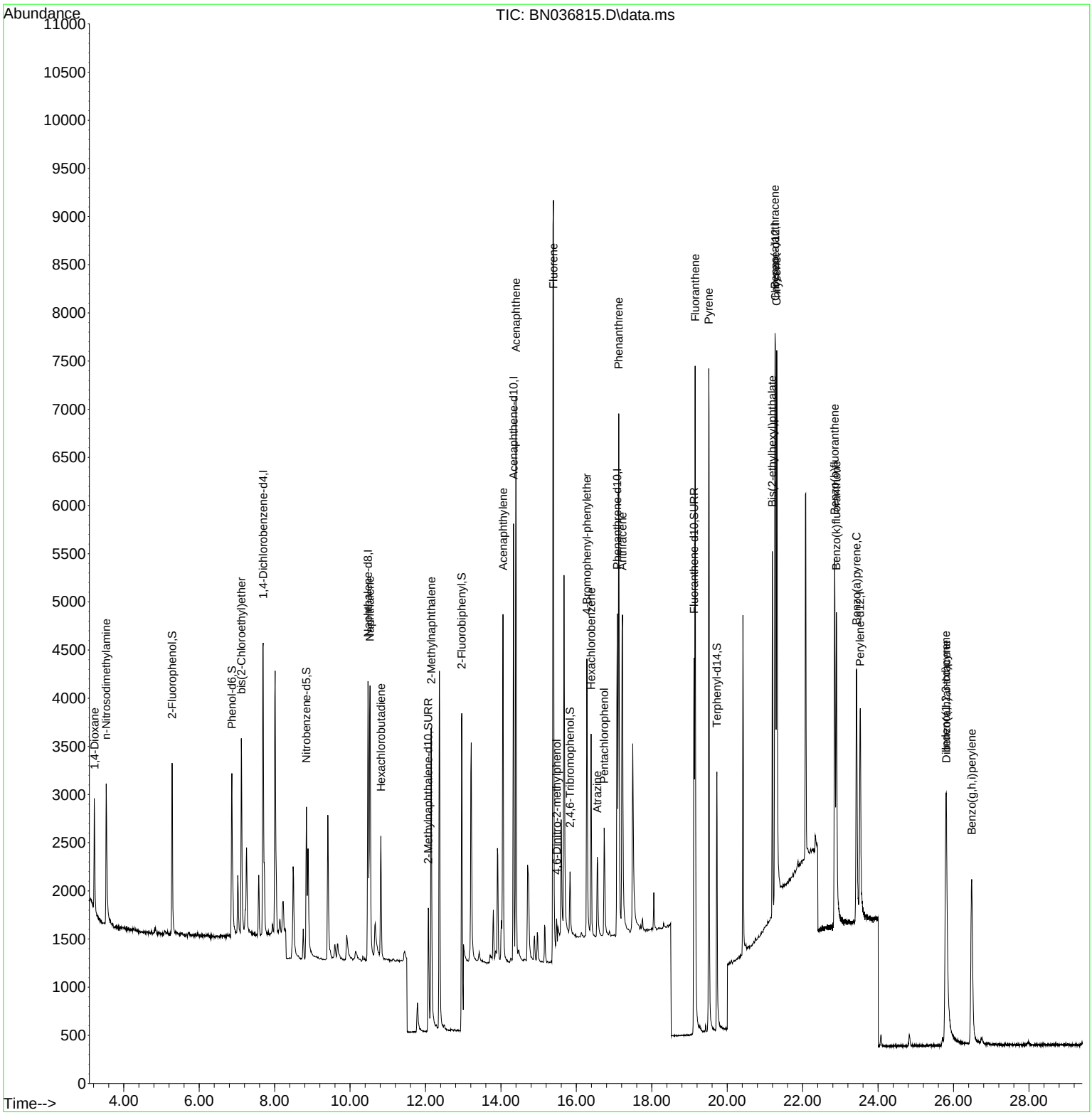
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN033125\
Data File : BN036815.D
Acq On : 31 Mar 2025 15:08
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

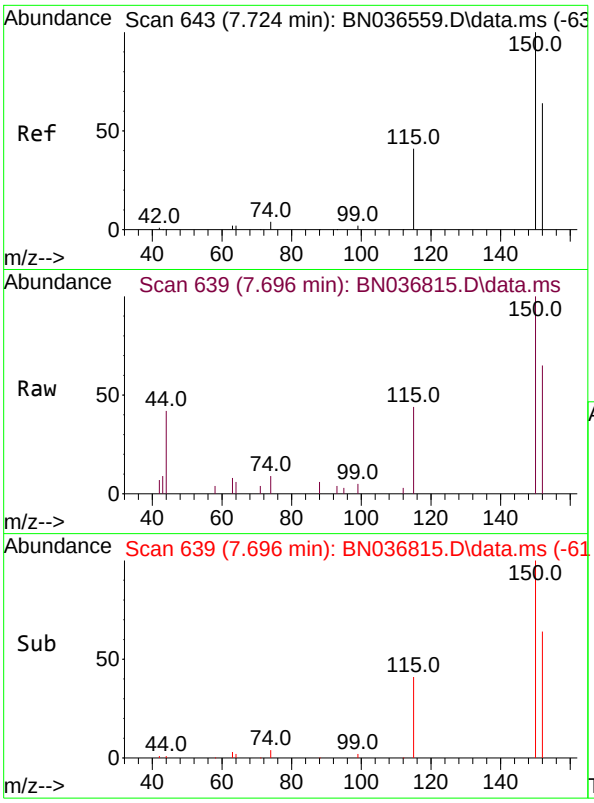
Quant Time: Mar 31 15:30:13 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

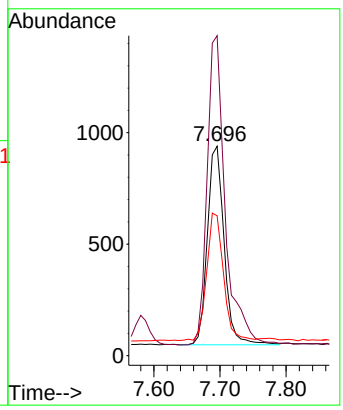





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.696 min Scan# 6
Delta R.T. -0.028 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion:152 Resp: 156

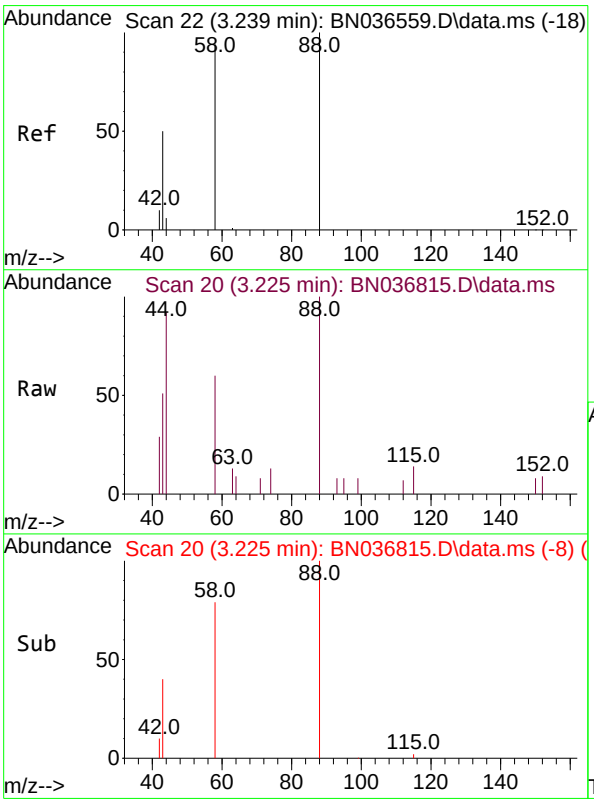
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 152.8 | 123.7 | 185.5 |
| 115 | 66.9 | 54.3 | 81.5 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations**
**APPROVED**

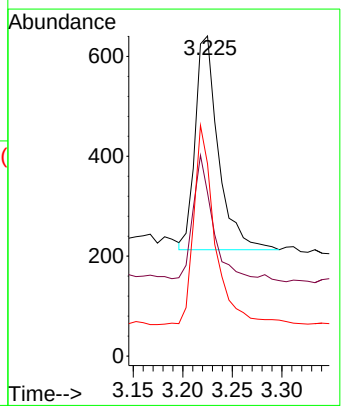
Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

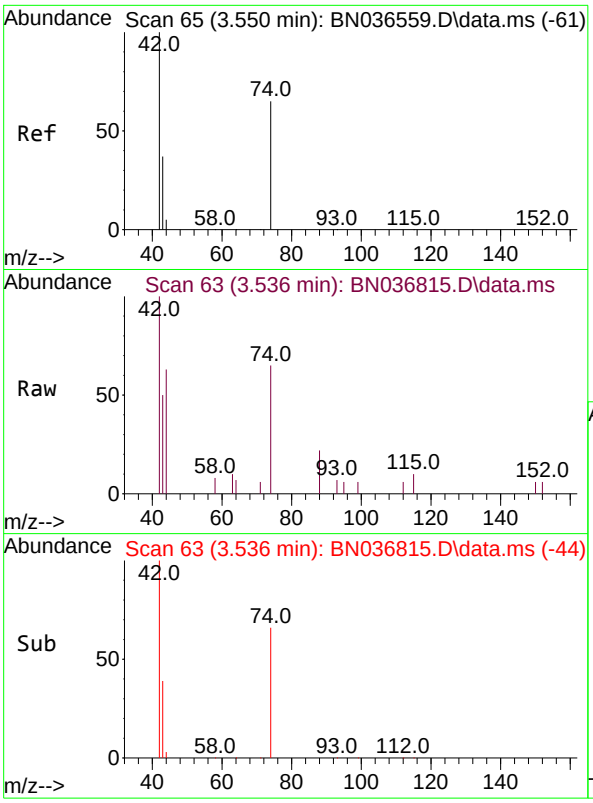



#2
1,4-Dioxane
Concen: 0.403 ng
RT: 3.225 min Scan# 20
Delta R.T. -0.014 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion: 88 Resp: 698

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 51.7 | 37.8 | 56.8 |
| 58 | 85.5 | 67.4 | 101.2 |

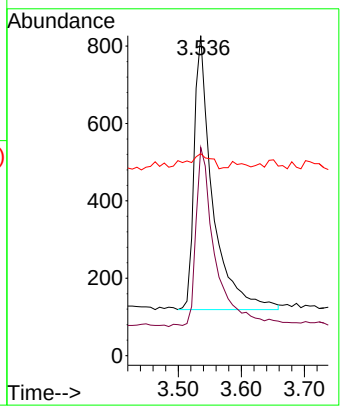





#3
n-Nitrosodimethylamine
Concen: 0.408 ng
RT: 3.536 min Scan# 6
Delta R.T. -0.014 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion: 42 Resp: 143

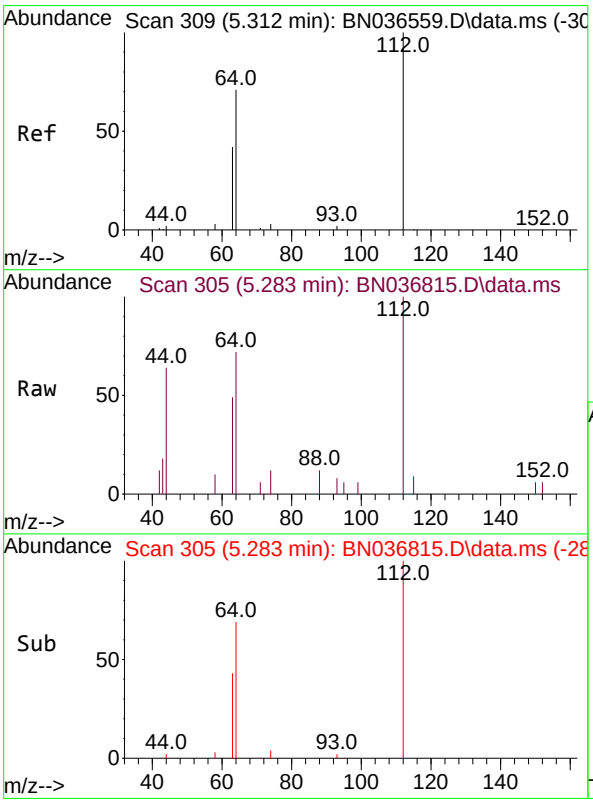
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 69.3 | 60.6 | 90.8 |
| 44 | 6.6 | 6.3 | 9.5 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations APPROVED**

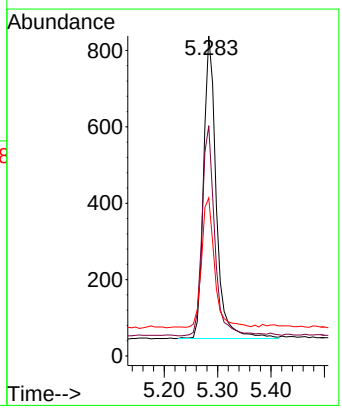
Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

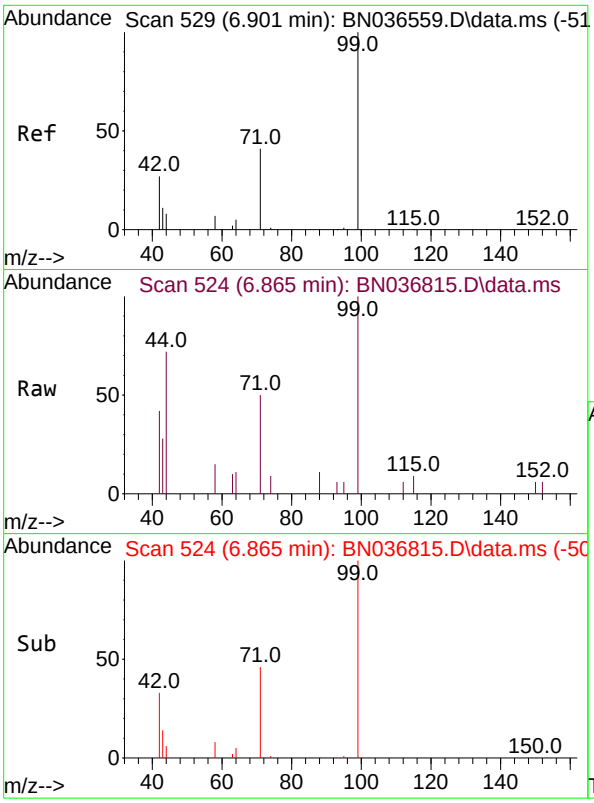



#4
2-Fluorophenol
Concen: 0.360 ng
RT: 5.283 min Scan# 305
Delta R.T. -0.029 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion:112 Resp: 1311

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 69.4 | 53.1 | 79.7 |
| 63 | 43.9 | 31.8 | 47.8 |

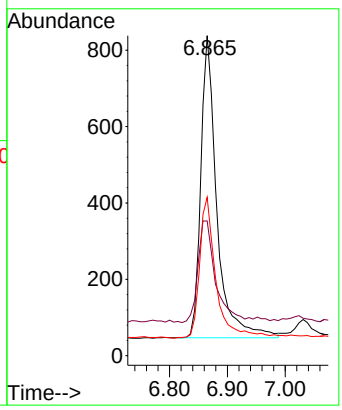





#5
Phenol-d6
Concen: 0.339 ng
RT: 6.865 min Scan# 5
Delta R.T. -0.036 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion: 99 Resp: 152

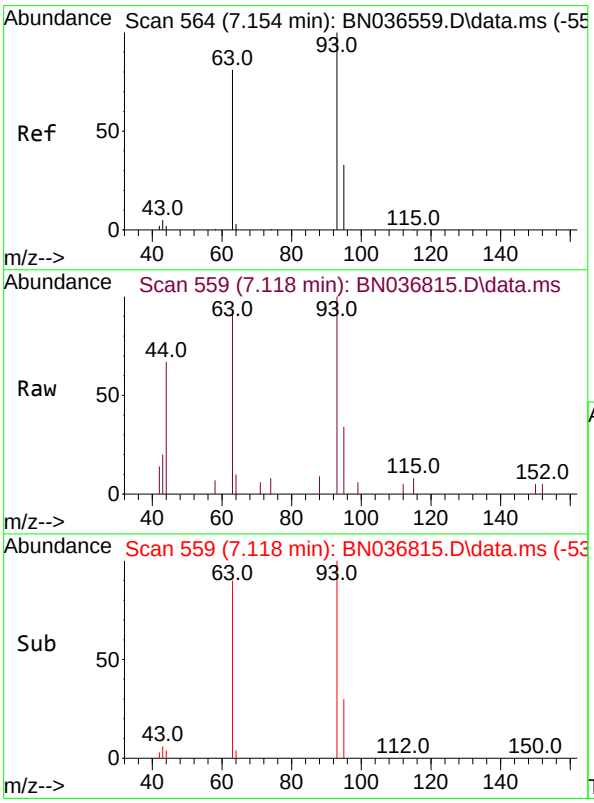
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 37.5 | 26.5 | 39.7 |
| 71 | 48.4 | 34.1 | 51.1 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations**
**APPROVED**

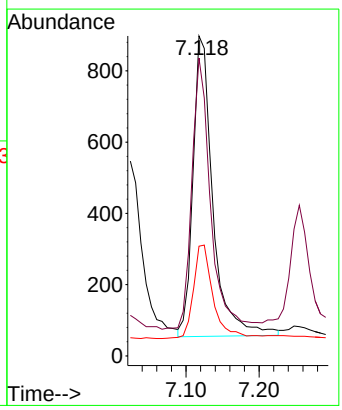
Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

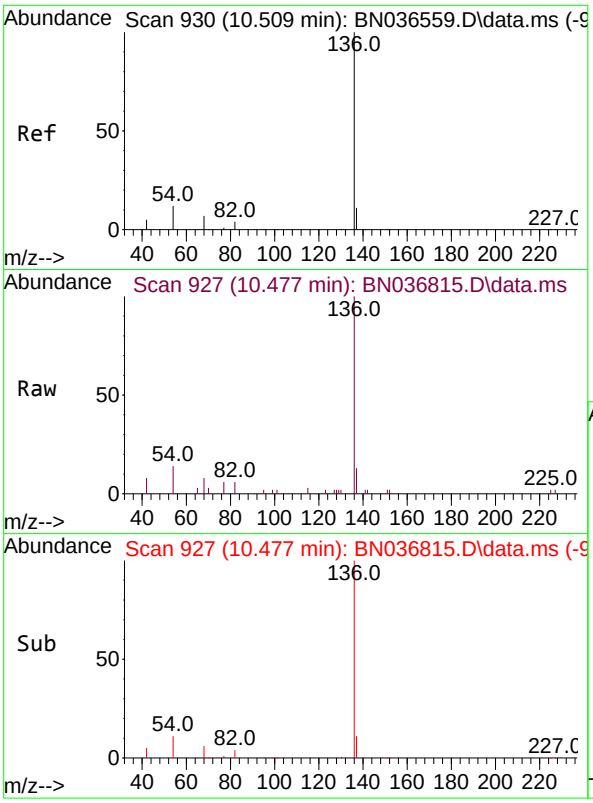



#6
bis(2-Chloroethyl)ether
Concen: 0.343 ng
RT: 7.118 min Scan# 559
Delta R.T. -0.036 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion: 93 Resp: 1597

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 82.9 | 67.7 | 101.5 |
| 95 | 30.6 | 25.6 | 38.4 |

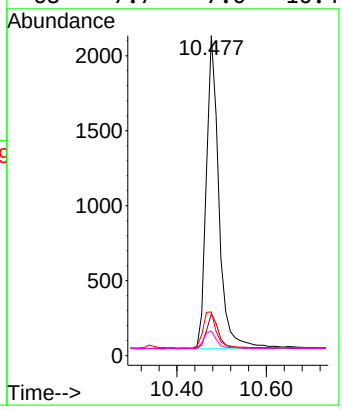





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.477 min Scan# 9
Delta R.T. -0.032 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion:136 Resp: 408

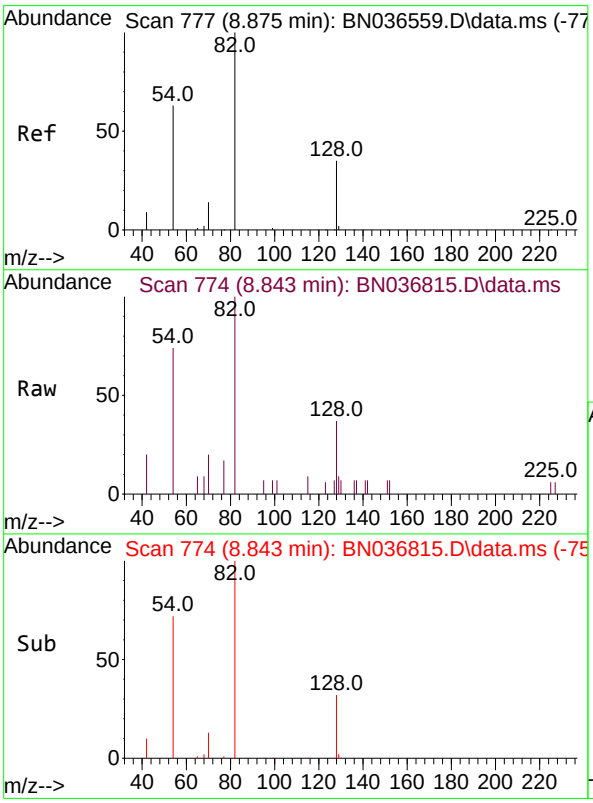
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 13.1 | 10.3 | 15.5 |
| 54 | 13.6 | 11.5 | 17.3 |
| 68 | 7.7 | 7.0 | 10.4 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations**
**APPROVED**

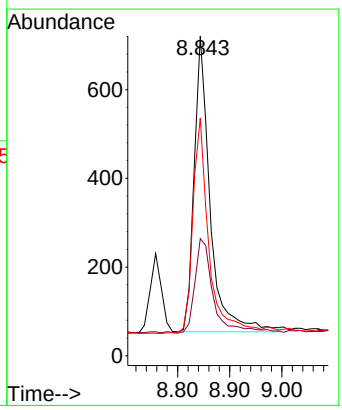
Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

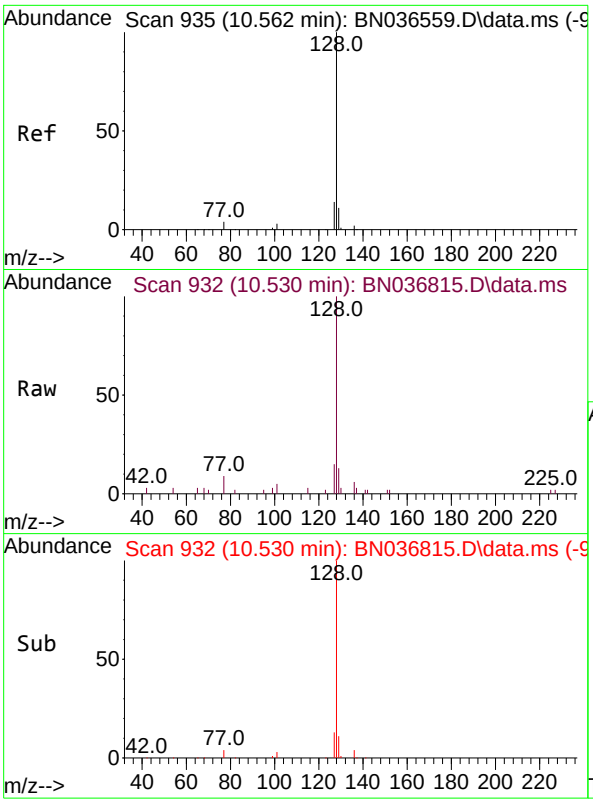



#8
Nitrobenzene-d5
Concen: 0.320 ng
RT: 8.843 min Scan# 774
Delta R.T. -0.032 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion: 82 Resp: 1424

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 36.6 | 30.6 | 45.8 |
| 54 | 74.3 | 52.2 | 78.4 |

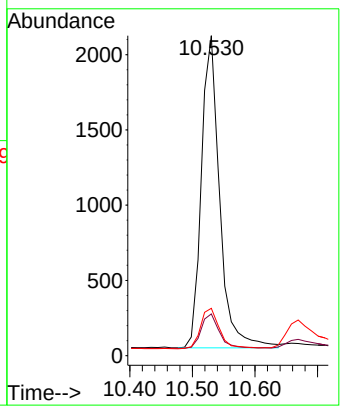





#9
Naphthalene
Concen: 0.350 ng
RT: 10.530 min Scan# 9
Delta R.T. -0.032 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion:128 Resp: 421

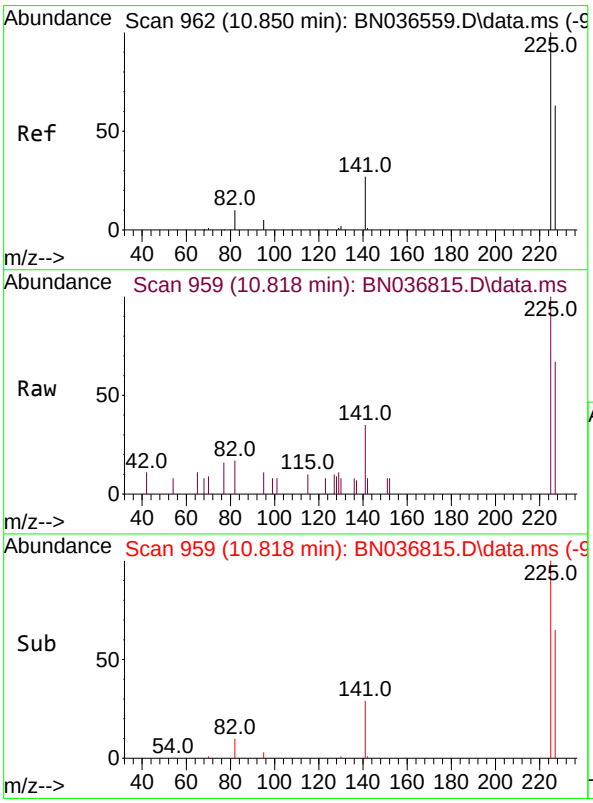
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 13.0 | 9.8 | 14.6 |
| 127 | 14.8 | 11.8 | 17.8 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations**
**APPROVED**

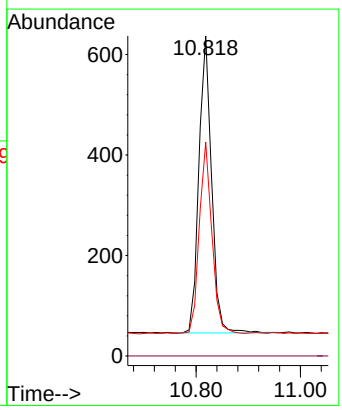
Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

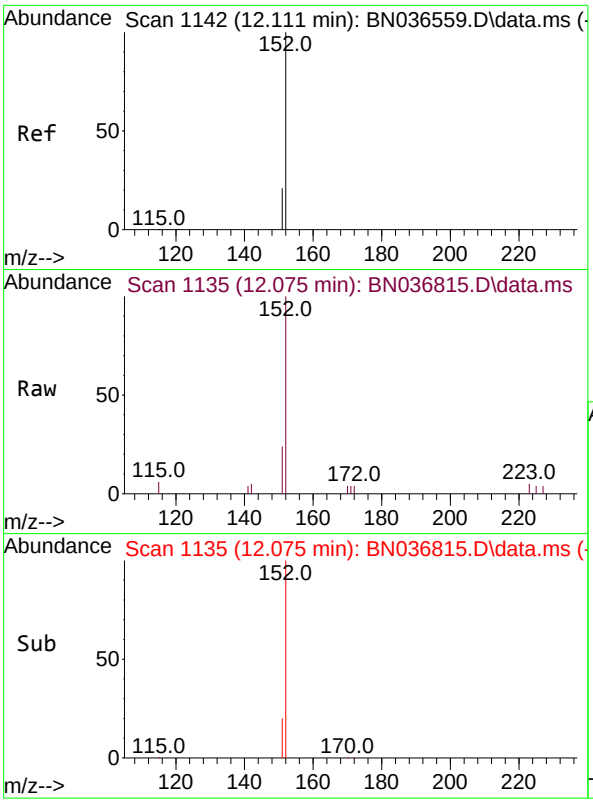



#10
Hexachlorobutadiene
Concen: 0.352 ng
RT: 10.818 min Scan# 959
Delta R.T. -0.032 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion:225 Resp: 998

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 0.0 | 0.0 | 0.0 |
| 227 | 64.0 | 51.8 | 77.8 |






#11
2-Methylnaphthalene-d10
Concen: 0.365 ng
RT: 12.075 min Scan# 11
Delta R.T. -0.035 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

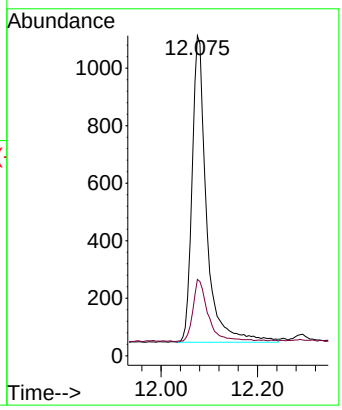
Tgt Ion:152 Resp: 221

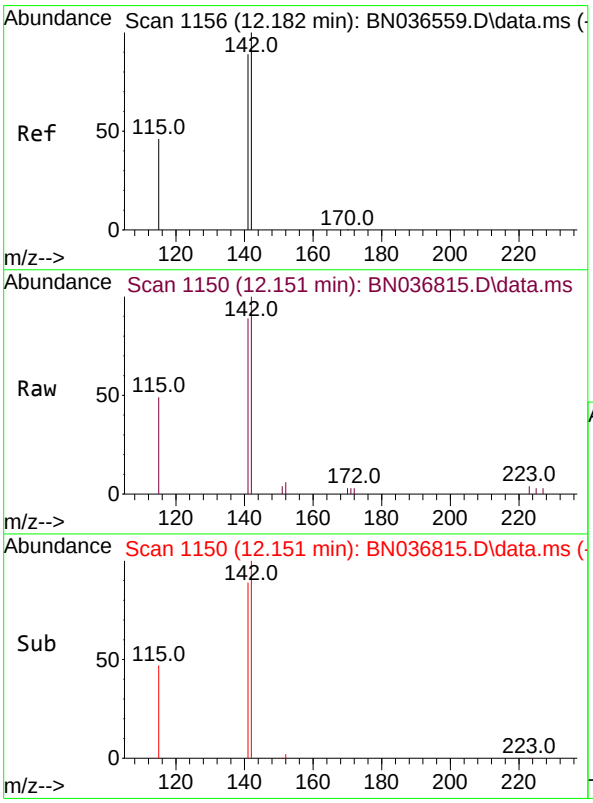
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 21.2 | 17.0 | 25.6 |

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations**
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Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

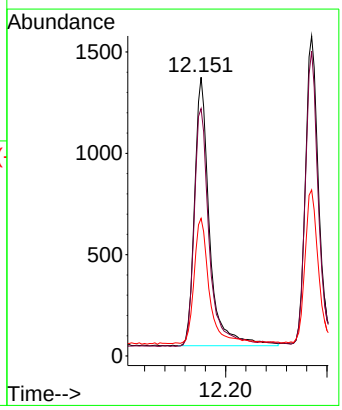


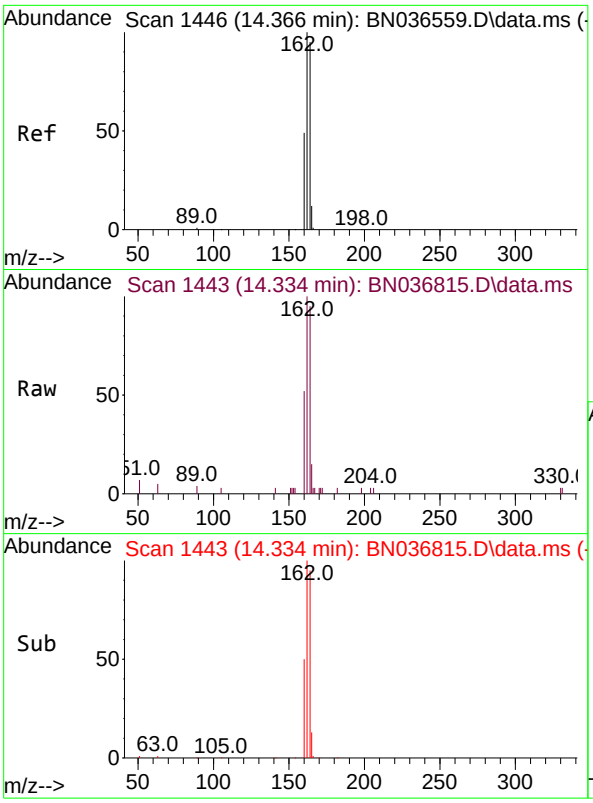




#12
2-Methylnaphthalene
Concen: 0.356 ng
RT: 12.151 min Scan# 1150
Delta R.T. -0.030 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion:142 Resp: 2722

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 88.8 | 71.7 | 107.5 |
| 115 | 49.4 | 38.3 | 57.5 |

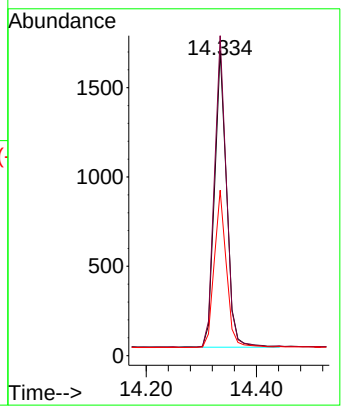





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.334 min Scan# 14
Delta R.T. -0.032 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion:164 Resp: 252

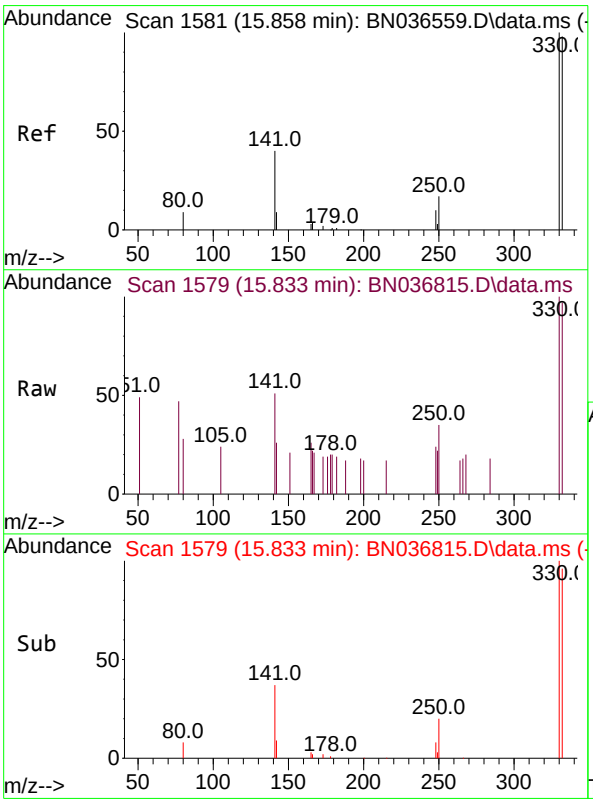
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 104.9 | 84.2 | 126.2 |
| 160 | 54.2 | 42.2 | 63.2 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations**
**APPROVED**

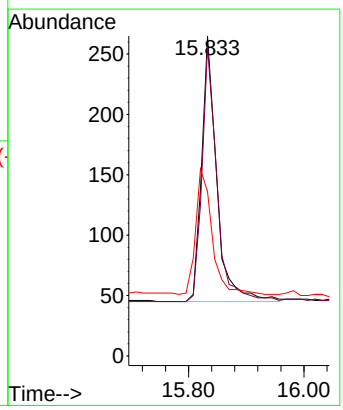
Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

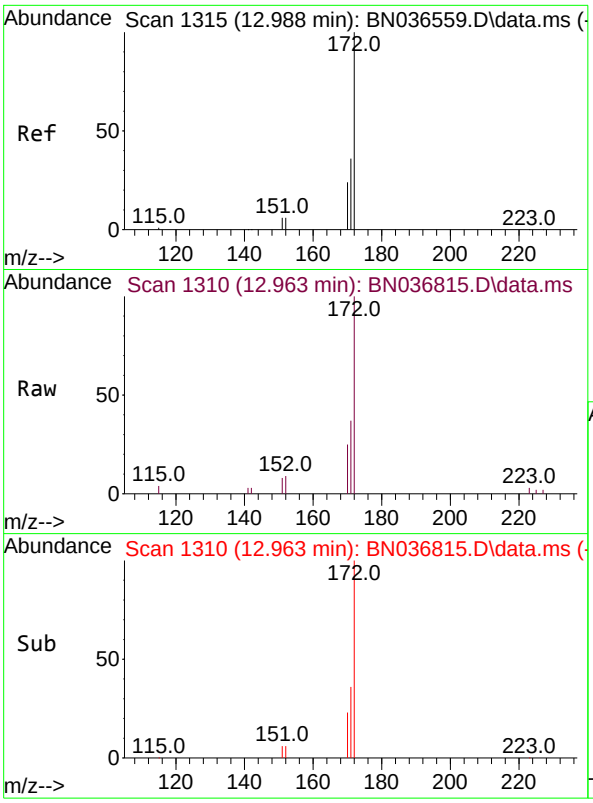



#14
2,4,6-Tribromophenol
Concen: 0.351 ng
RT: 15.833 min Scan# 1579
Delta R.T. -0.025 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion:330 Resp: 402

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 94.8 | 75.2 | 112.8 |
| 141 | 51.0 | 43.4 | 65.2 |

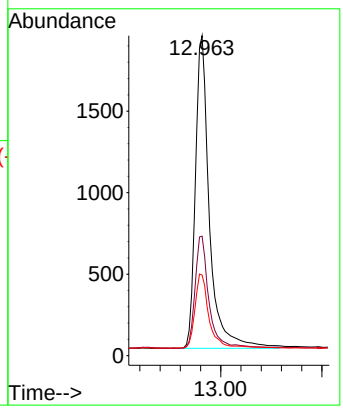





#15
2-Fluorobiphenyl
Concen: 0.336 ng
RT: 12.963 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion:172 Resp: 493

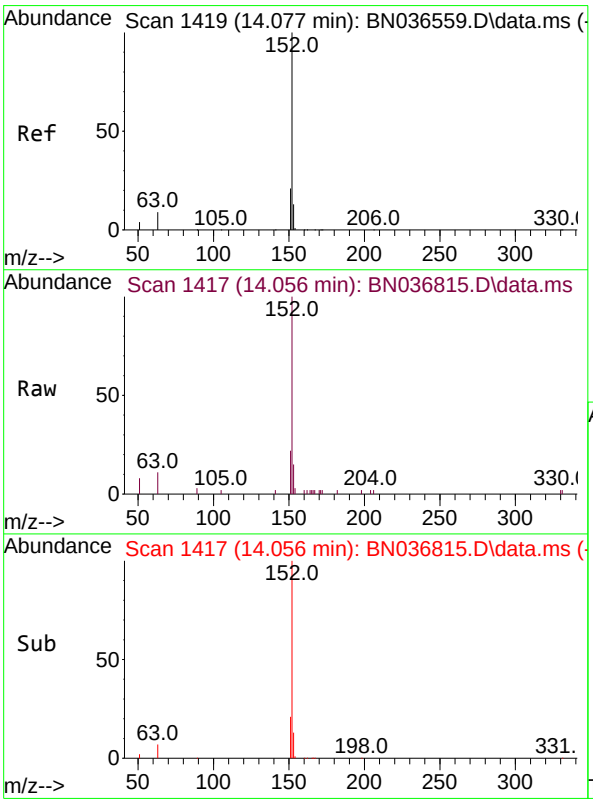
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 37.3 | 29.5 | 44.3 |
| 170 | 25.2 | 20.2 | 30.4 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations**
**APPROVED**

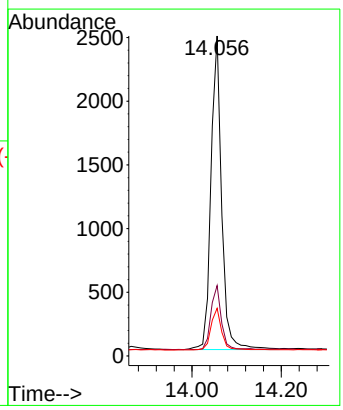
Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

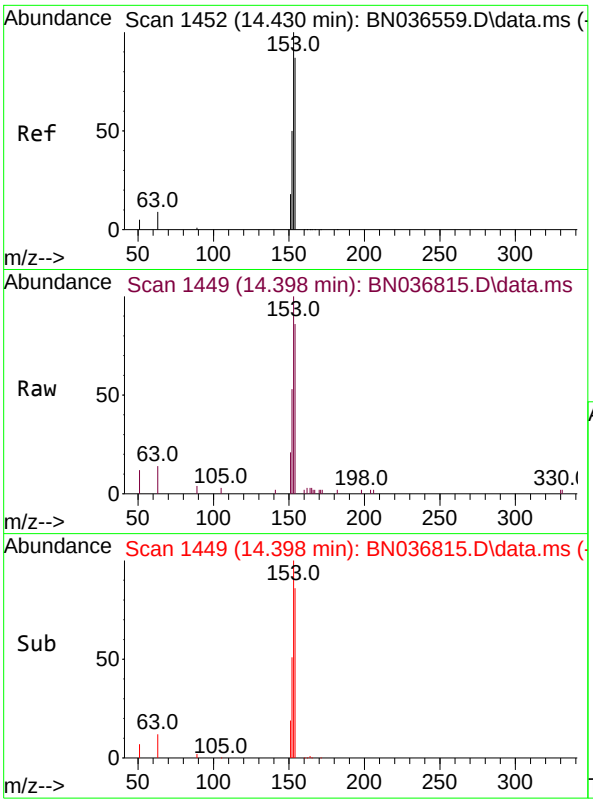



#16
Acenaphthylene
Concen: 0.340 ng
RT: 14.056 min Scan# 1417
Delta R.T. -0.021 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion:152 Resp: 4054

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.2 | 16.2 | 24.4 |
| 153 | 13.5 | 10.6 | 15.8 |

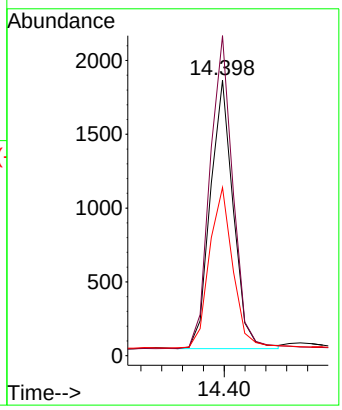





#17
Acenaphthene
Concen: 0.356 ng
RT: 14.398 min Scan# 14
Delta R.T. -0.032 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion:154 Resp: 277

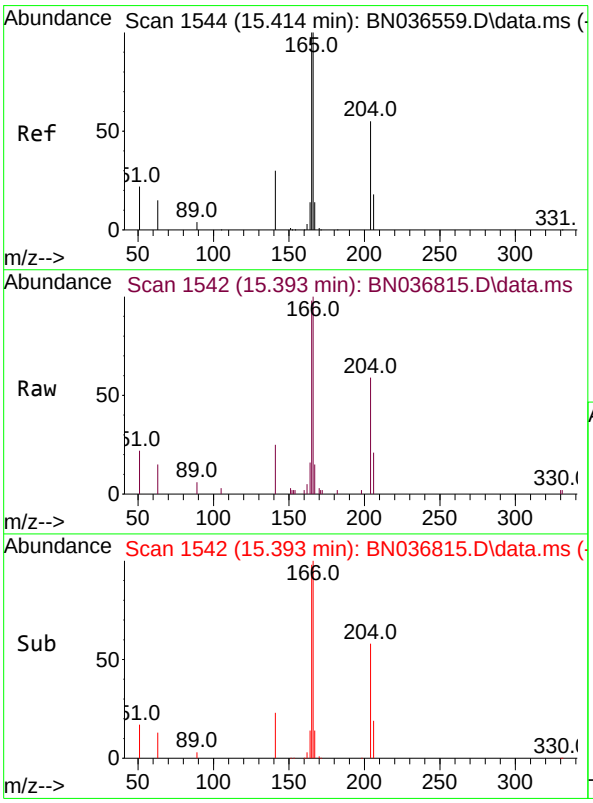
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 118.7 | 94.1 | 141.1 |
| 152 | 62.5 | 49.8 | 74.6 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations**
**APPROVED**

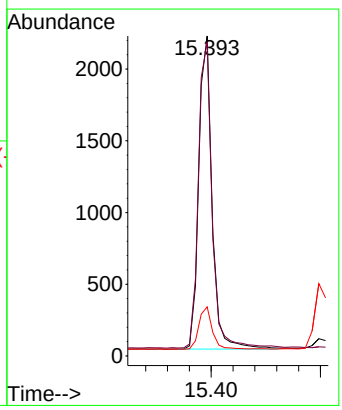
Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

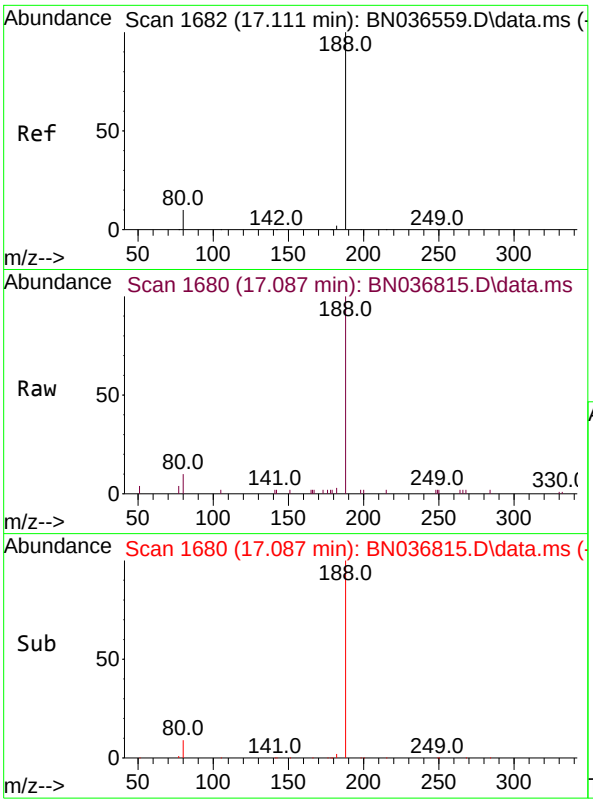



#18
Fluorene
Concen: 0.354 ng
RT: 15.393 min Scan# 1542
Delta R.T. -0.021 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion:166 Resp: 3732

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 100.8 | 79.8 | 119.8 |
| 167 | 13.4 | 10.6 | 15.8 |

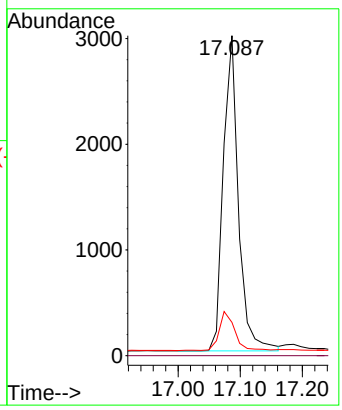





#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.087 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion:188 Resp: 503

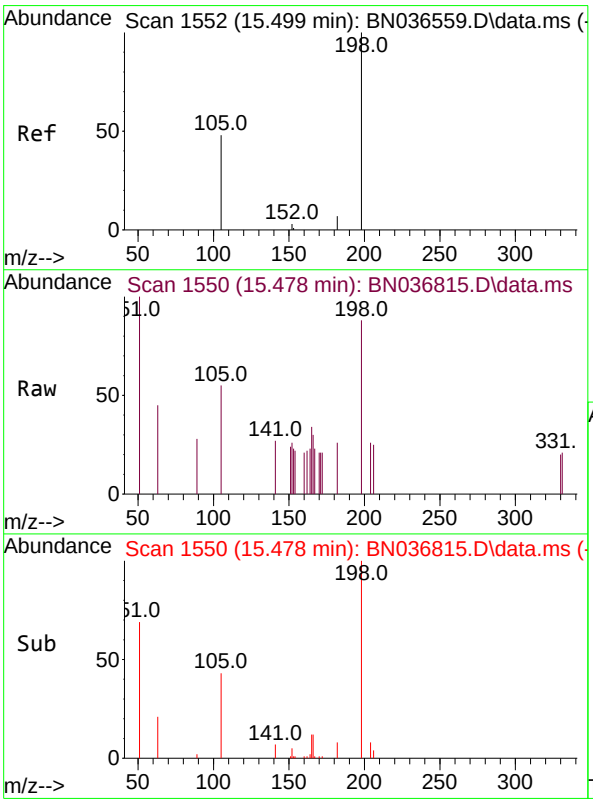
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 10.4 | 8.8 | 13.2 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations**
**APPROVED**

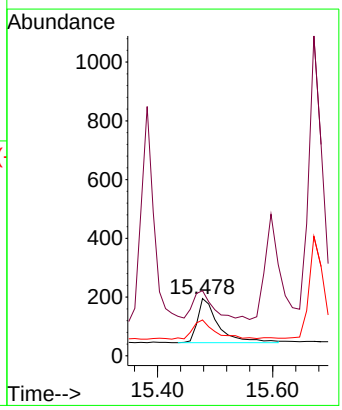
Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

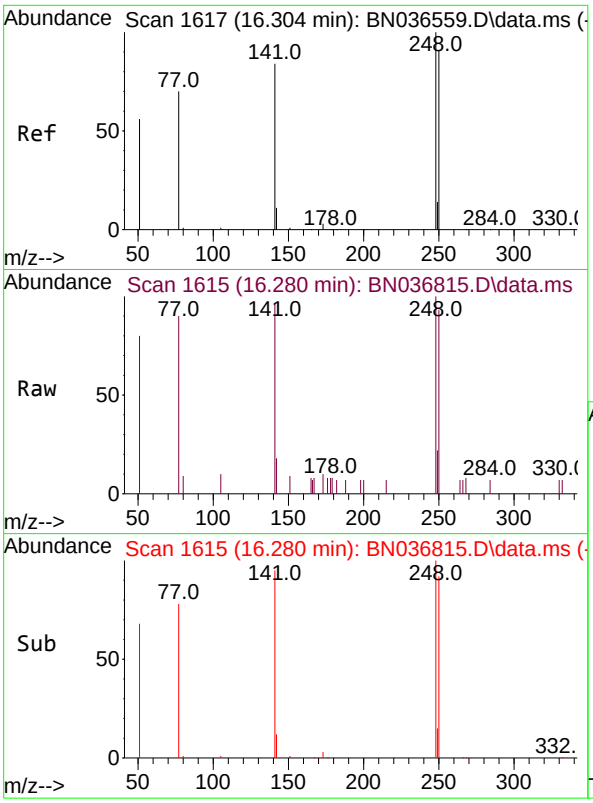



#20
4,6-Dinitro-2-methylphenol
Concen: 0.454 ng
RT: 15.478 min Scan# 1550
Delta R.T. -0.021 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion:198 Resp: 396

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 198 | 100 | | |
| 51 | 113.8 | 107.9 | 161.9 |
| 105 | 62.6 | 56.2 | 84.2 |






#21
4-Bromophenyl-phenylether
Concen: 0.363 ng
RT: 16.280 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

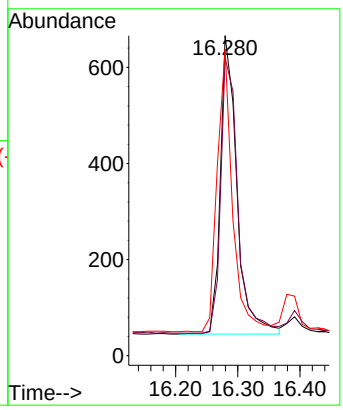
Tgt Ion:248 Resp: 114

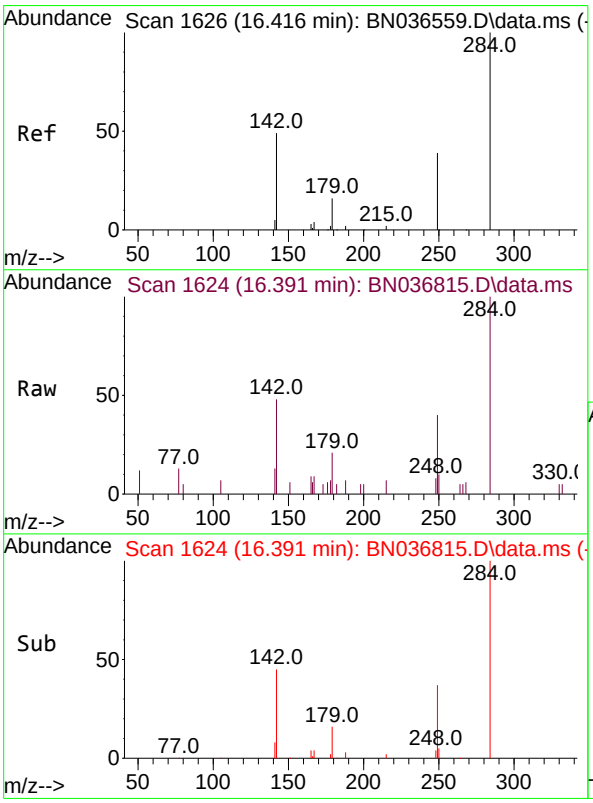
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 93.1 | 73.0 | 109.6 |
| 141 | 95.8 | 68.6 | 103.0 |

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations**
**APPROVED**

Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

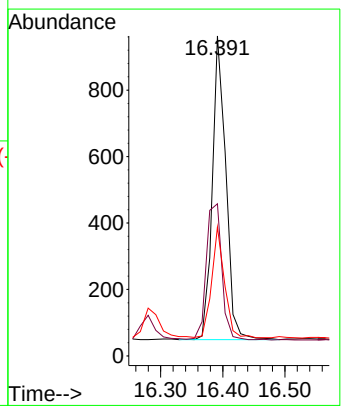


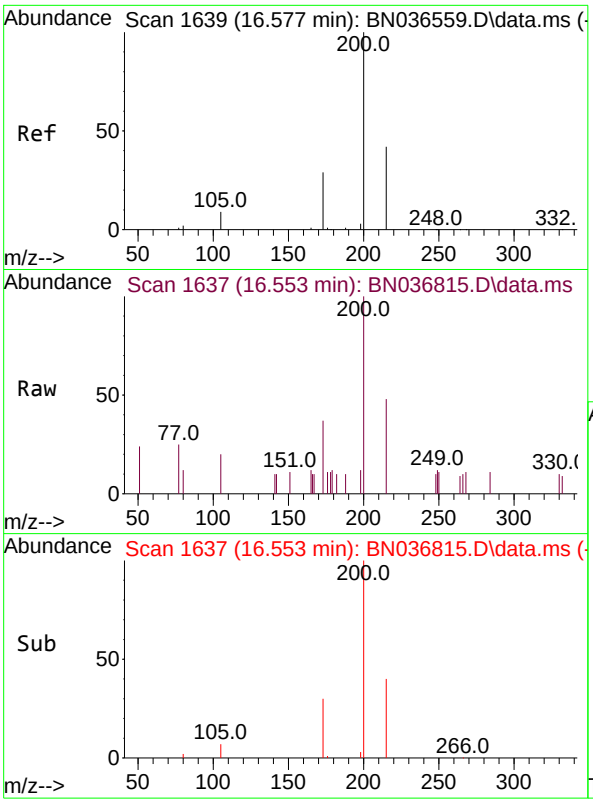




#22
Hexachlorobenzene
Concen: 0.363 ng
RT: 16.391 min Scan# 1624
Delta R.T. -0.025 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion:284 Resp: 1380

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 51.9 | 37.0 | 55.4 |
| 249 | 34.7 | 28.1 | 42.1 |

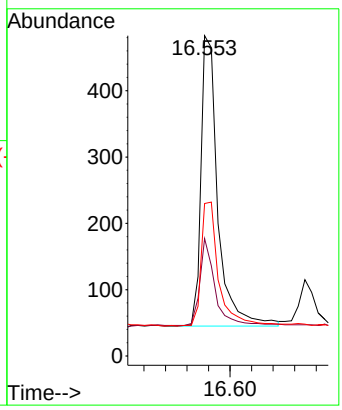





#23
Atrazine
Concen: 0.377 ng
RT: 16.553 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion:200 Resp: 954

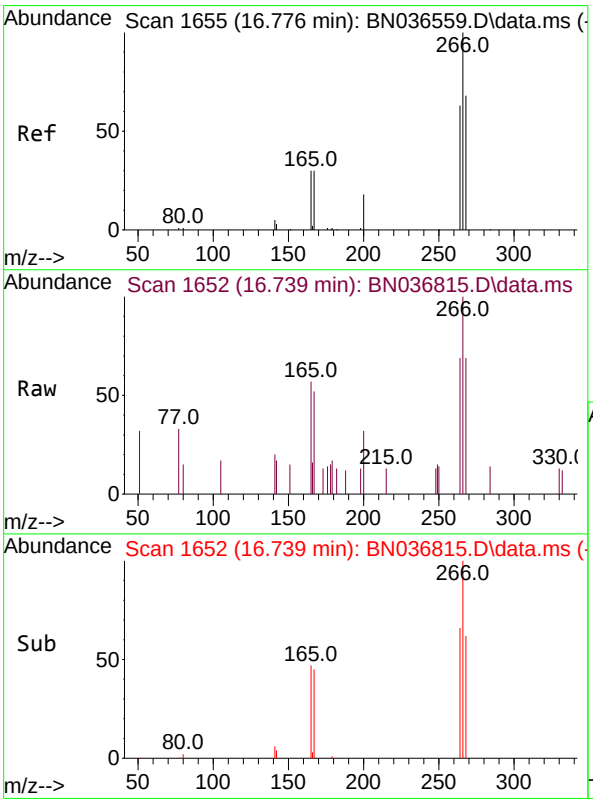
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 173 | 36.6 | 27.3 | 40.9 |
| 215 | 47.6 | 36.8 | 55.2 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations**
**APPROVED**

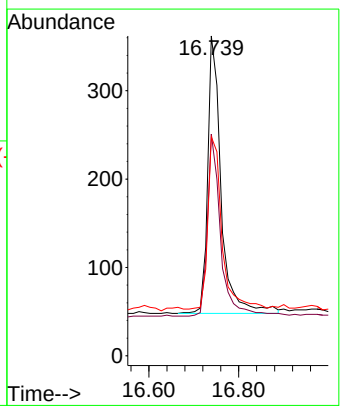
Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

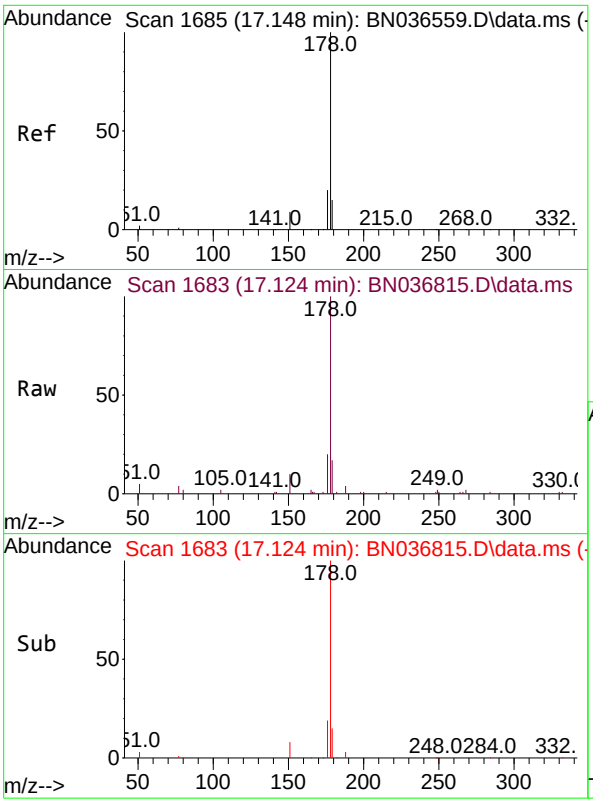



#24
Pentachlorophenol
Concen: 0.375 ng
RT: 16.739 min Scan# 1652
Delta R.T. -0.037 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion:266 Resp: 651

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 264 | 64.8 | 49.6 | 74.4 |
| 268 | 65.4 | 50.9 | 76.3 |

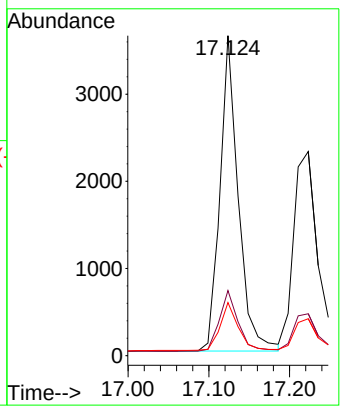





#25
Phenanthrene
Concen: 0.378 ng
RT: 17.124 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion:178 Resp: 570

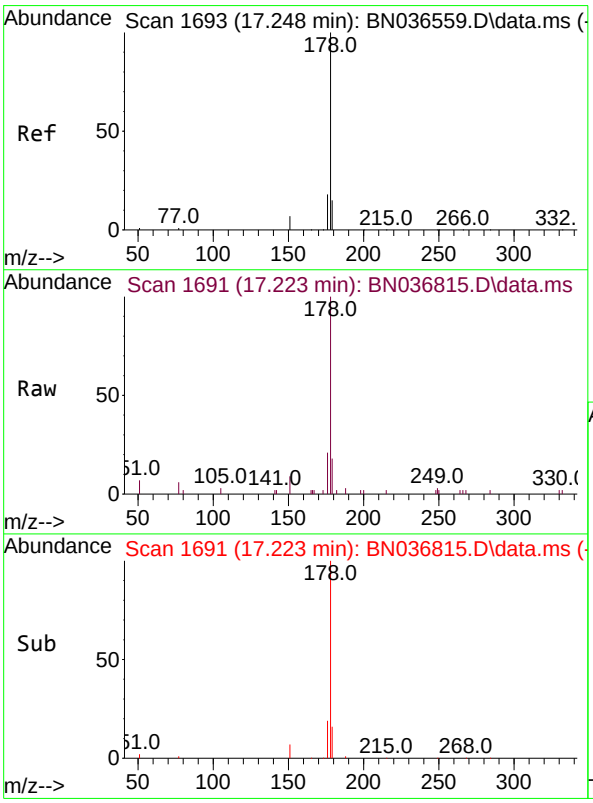
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.9 | 15.9 | 23.9 |
| 179 | 15.7 | 12.2 | 18.4 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations**
**APPROVED**

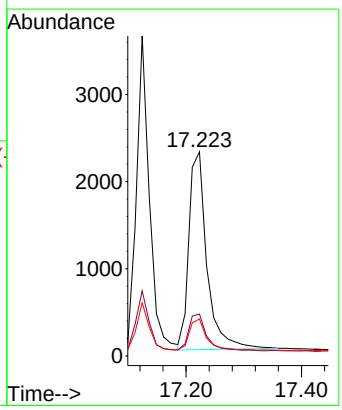
Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

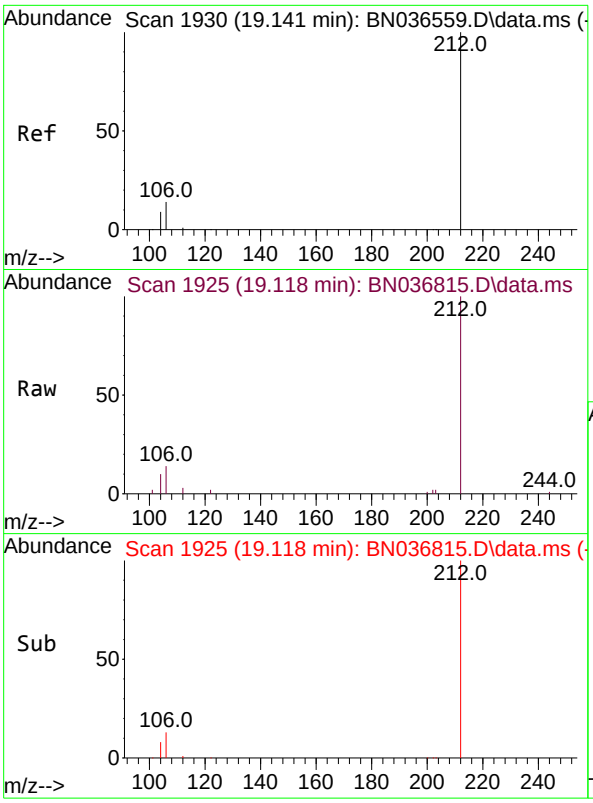



#26
Anthracene
Concen: 0.362 ng
RT: 17.223 min Scan# 1691
Delta R.T. -0.025 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion:178 Resp: 4933

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.9 | 15.4 | 23.2 |
| 179 | 15.6 | 12.6 | 18.8 |

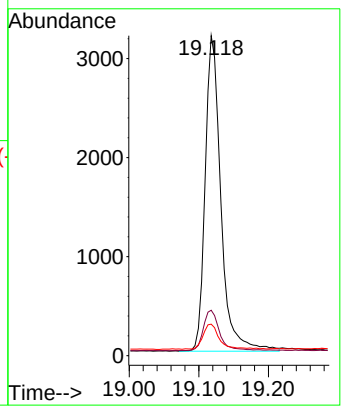





#27
Fluoranthene-d10
Concen: 0.388 ng
RT: 19.118 min Scan# 1
Delta R.T. -0.023 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion:212 Resp: 500

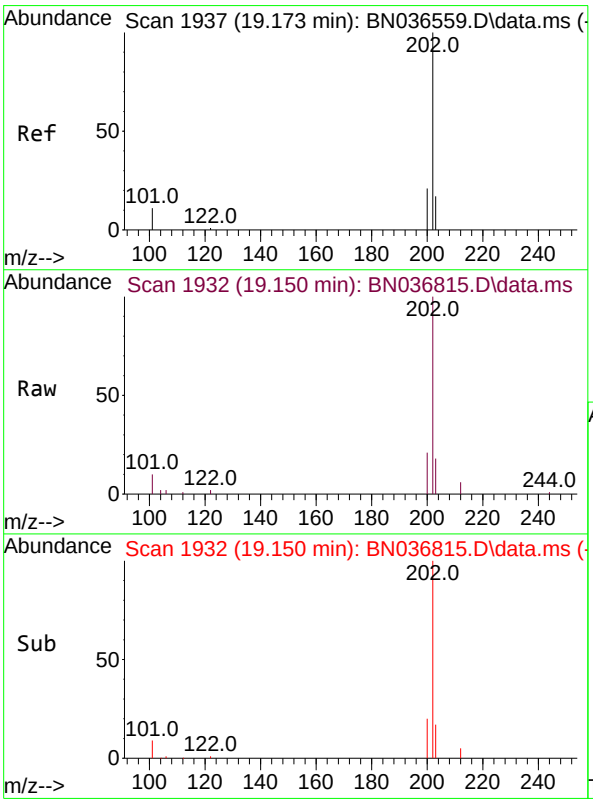
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 13.2 | 11.8 | 17.6 |
| 104 | 8.4 | 7.3 | 10.9 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations**
**APPROVED**

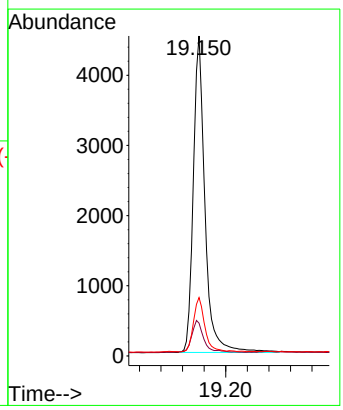
Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

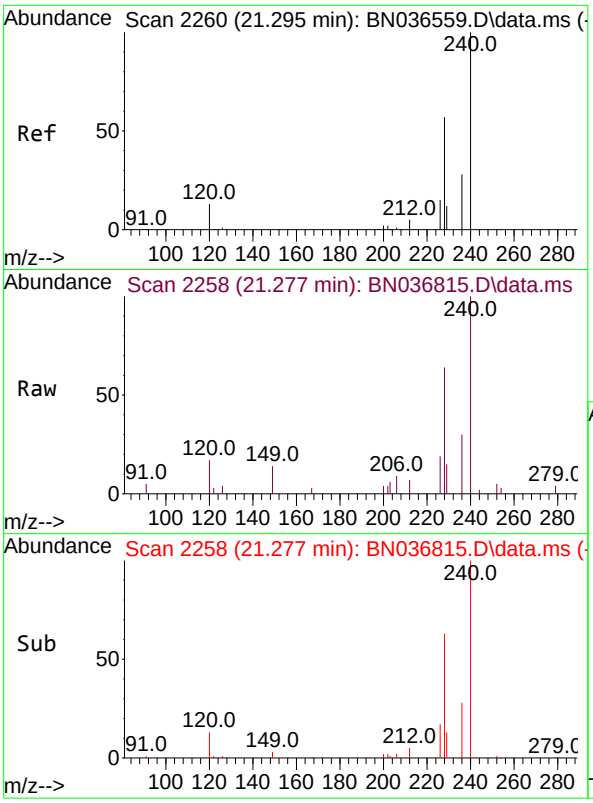



#28
Fluoranthene
Concen: 0.399 ng
RT: 19.150 min Scan# 1932
Delta R.T. -0.023 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion:202 Resp: 6761

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 10.4 | 9.4 | 14.0 |
| 203 | 16.5 | 13.5 | 20.3 |

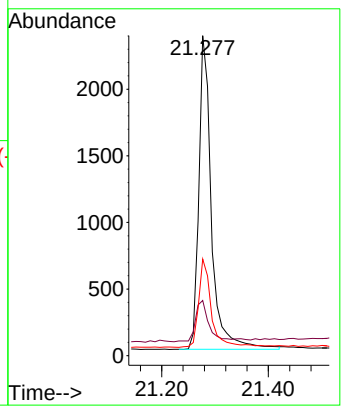





#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion:240 Resp: 386

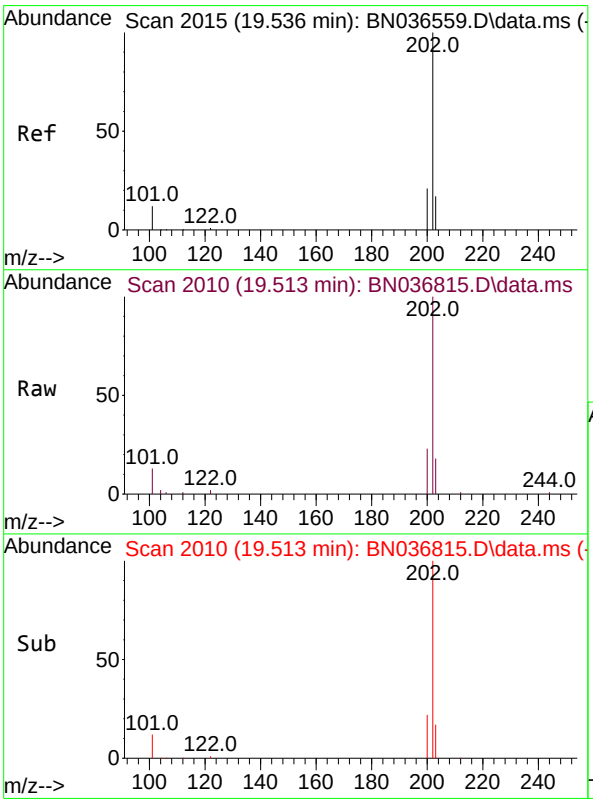
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 17.3 | 14.6 | 22.0 |
| 236 | 30.2 | 24.1 | 36.1 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations**
**APPROVED**

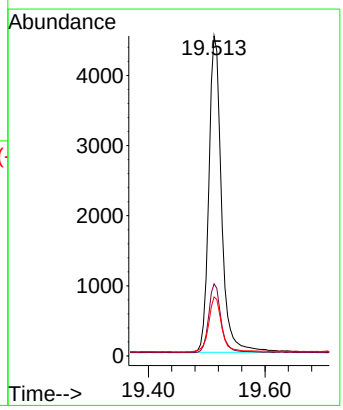
Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

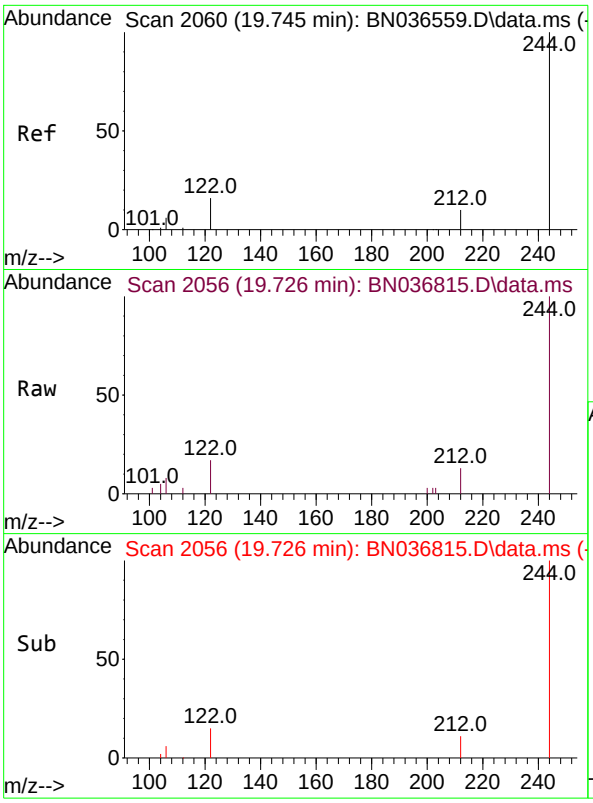



#30
Pyrene
Concen: 0.361 ng
RT: 19.513 min Scan# 2010
Delta R.T. -0.023 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion:202 Resp: 6826

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.6 | 17.1 | 25.7 |
| 203 | 17.8 | 14.1 | 21.1 |

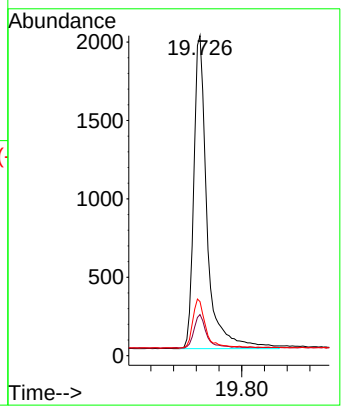





#31
Terphenyl-d14
Concen: 0.352 ng
RT: 19.726 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion:244 Resp: 325

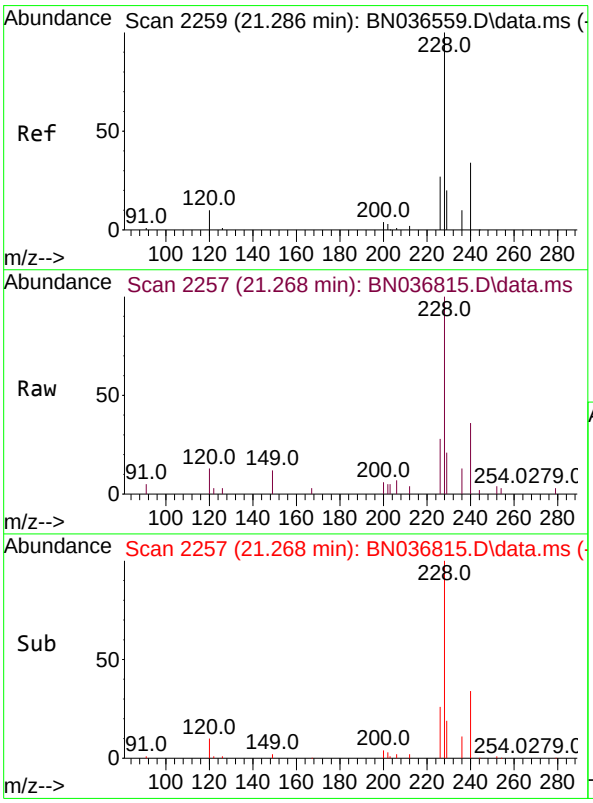
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 12.9 | 9.6 | 14.4 |
| 122 | 16.9 | 13.9 | 20.9 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations APPROVED**

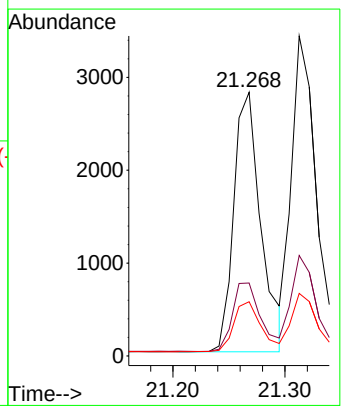
Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

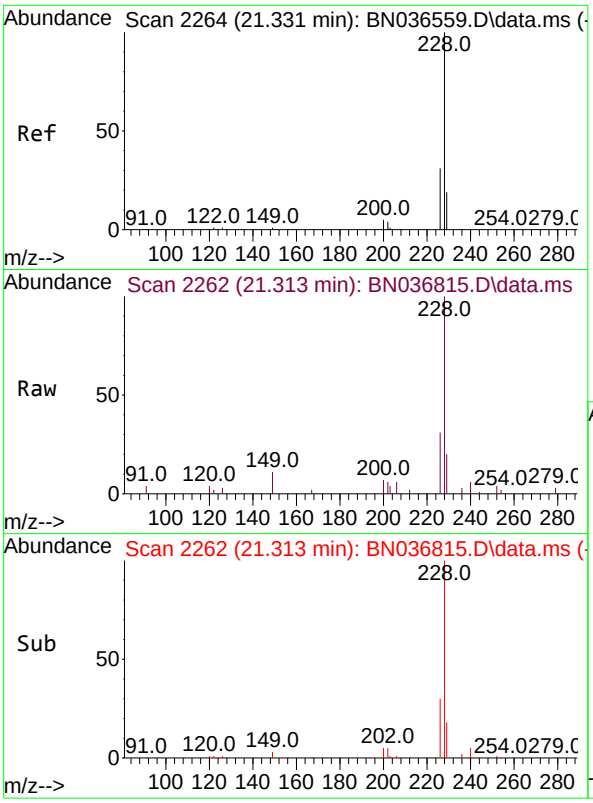



#32
Benzo(a)anthracene
Concen: 0.351 ng
RT: 21.268 min Scan# 2257
Delta R.T. -0.018 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion:228 Resp: 4715

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 27.7 | 22.5 | 33.7 |
| 229 | 20.6 | 16.6 | 25.0 |

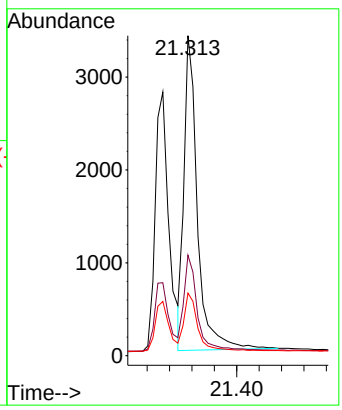





#33
Chrysene
Concen: 0.385 ng
RT: 21.313 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion:228 Resp: 565

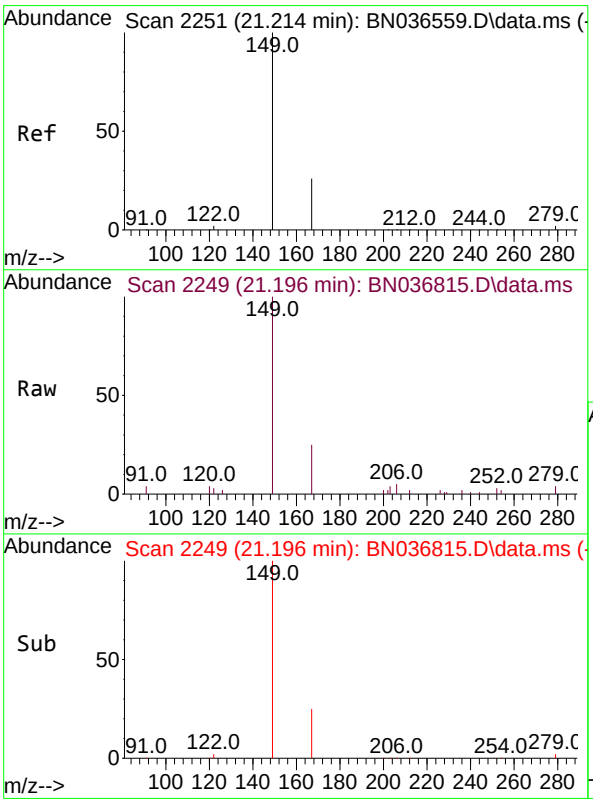
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 31.4 | 25.3 | 37.9 |
| 229 | 19.6 | 15.8 | 23.8 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations**
**APPROVED**

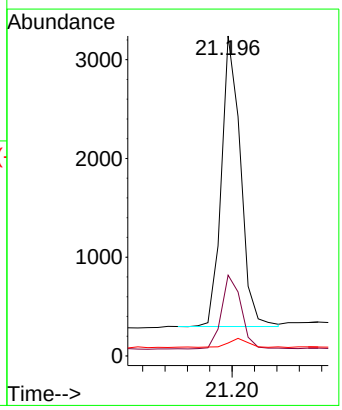
Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

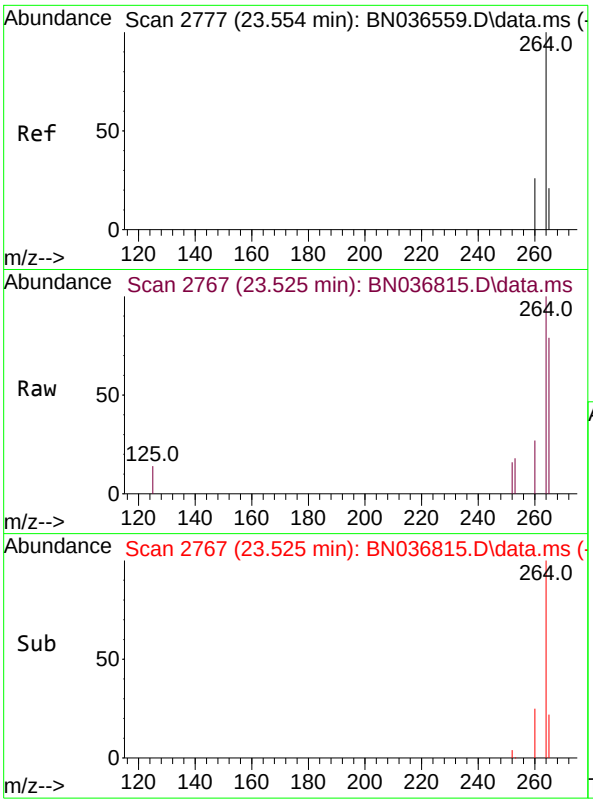



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.364 ng
RT: 21.196 min Scan# 2249
Delta R.T. -0.018 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion:149 Resp: 3477

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 26.4 | 20.7 | 31.1 |
| 279 | 3.1 | 3.6 | 5.4# |

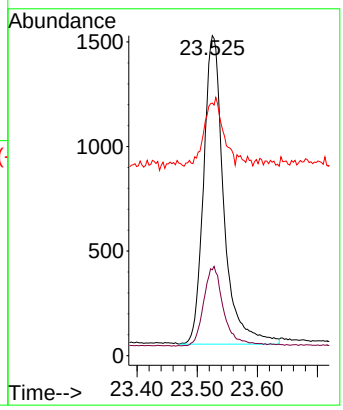





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.525 min Scan# 2
Delta R.T. -0.029 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion:264 Resp: 343

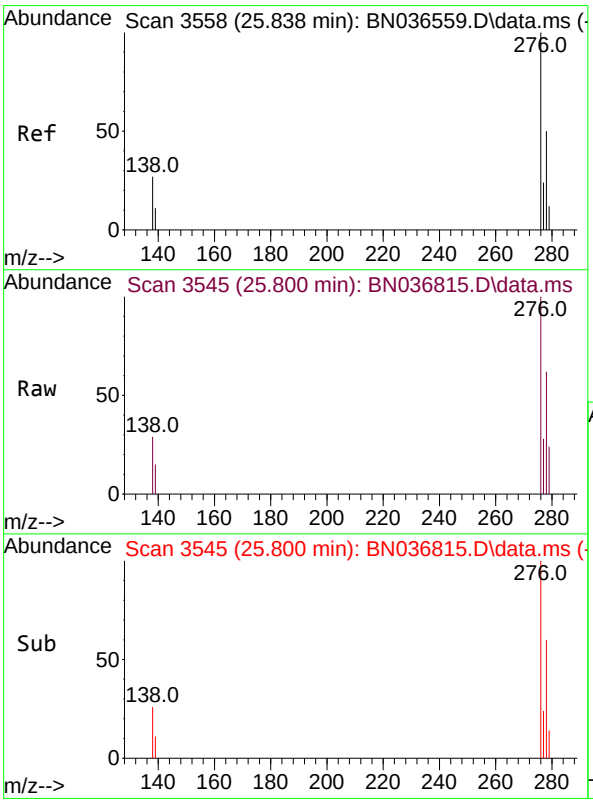
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 26.9 | 22.6 | 33.8 |
| 265 | 79.0 | 88.1 | 132.1# |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations**
**APPROVED**

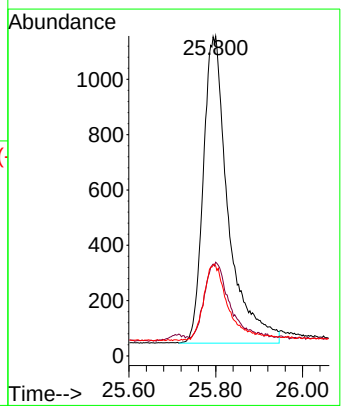
Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

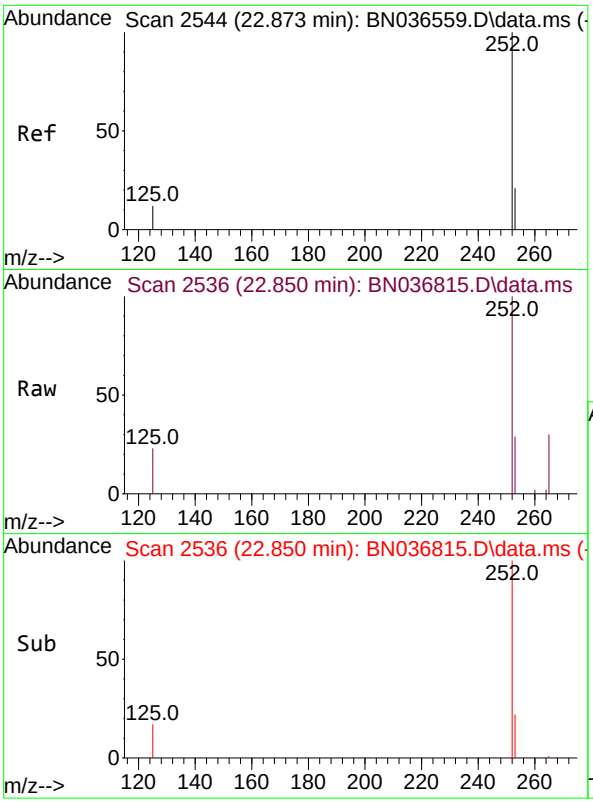



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.357 ng
RT: 25.800 min Scan# 3545
Delta R.T. -0.038 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion:276 Resp: 4428

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 24.1 | 23.4 | 35.2 |
| 277 | 23.9 | 20.0 | 30.0 |

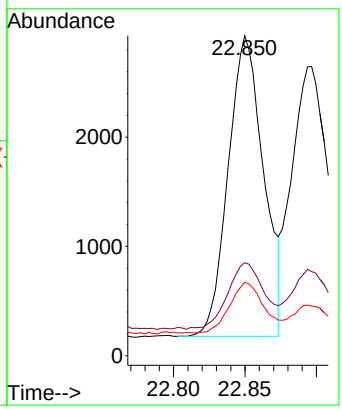





#37
Benzo(b)fluoranthene
Concen: 0.379 ng
RT: 22.850 min Scan# 2
Delta R.T. -0.023 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion:252 Resp: 473

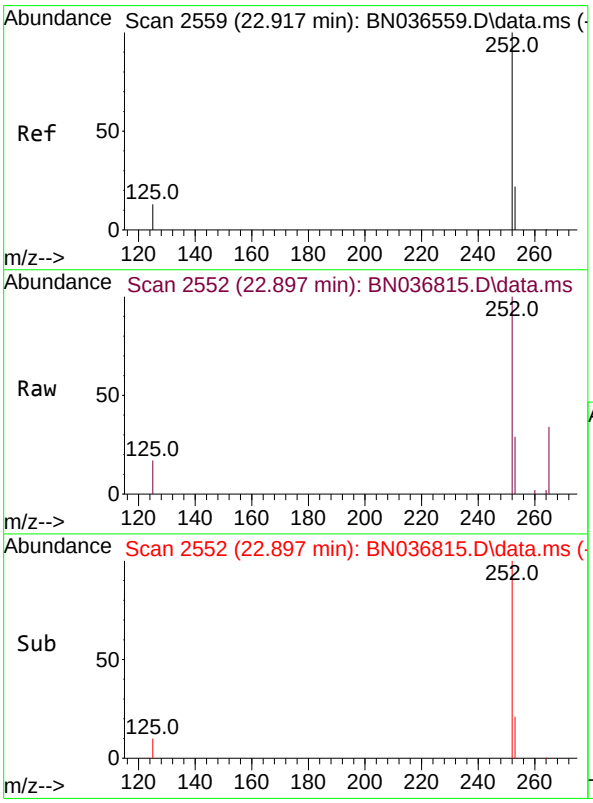
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 29.0 | 23.9 | 35.9 |
| 125 | 22.9 | 17.4 | 26.2 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations**
**APPROVED**

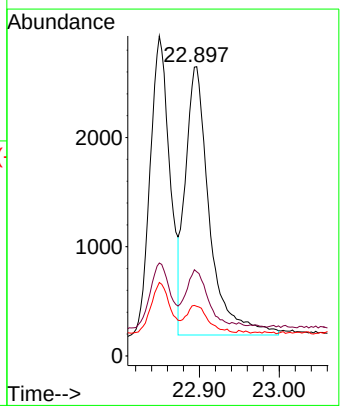
Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

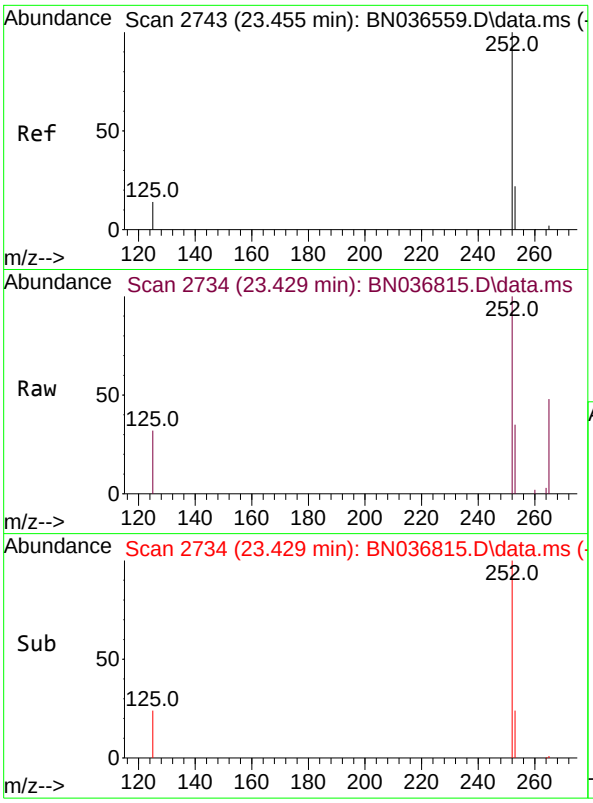



#38
Benzo(k)fluoranthene
Concen: 0.393 ng m
RT: 22.897 min Scan# 2552
Delta R.T. -0.020 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion:252 Resp: 5156

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 29.1 | 24.6 | 36.8 |
| 125 | 17.1 | 17.8 | 26.8# |

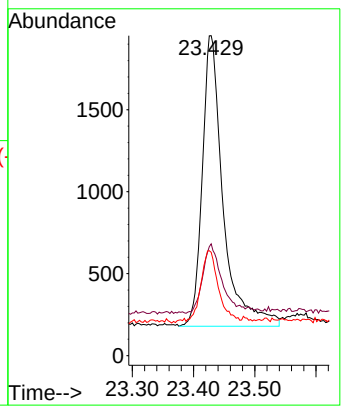





#39
Benzo(a)pyrene
Concen: 0.399 ng
RT: 23.429 min Scan# 2
Delta R.T. -0.026 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion:252 Resp: 420

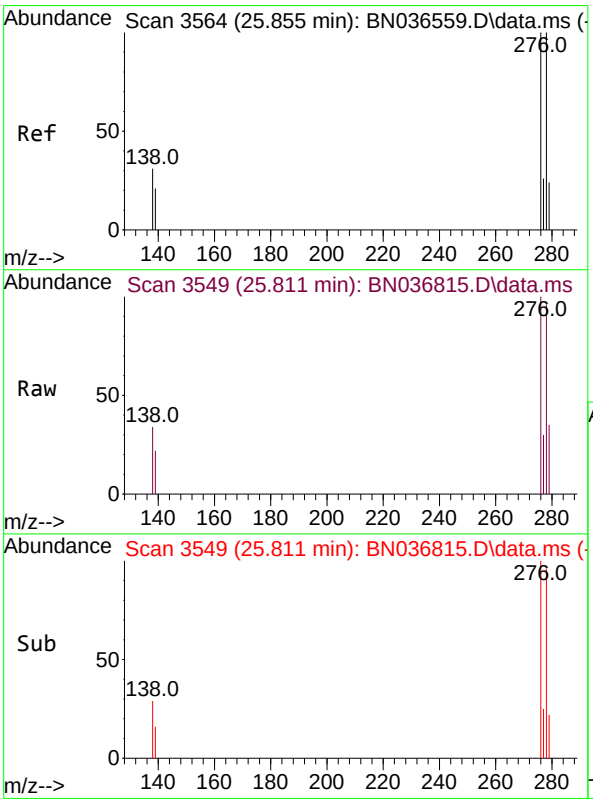
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 34.9 | 27.8 | 41.8 |
| 125 | 32.3 | 22.7 | 34.1 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations**
**APPROVED**

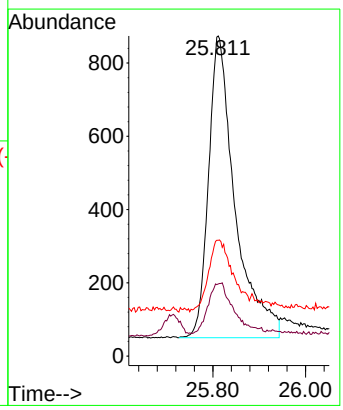
Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

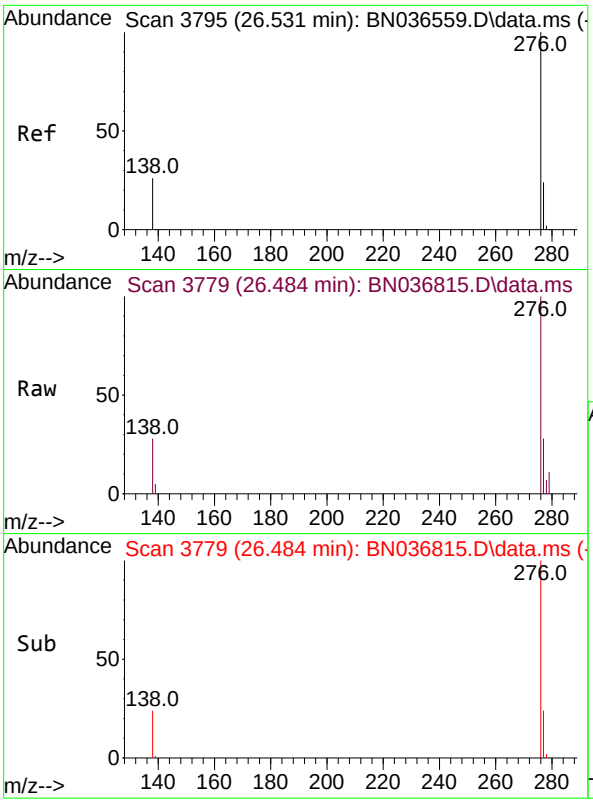



#40
Dibenzo(a,h)anthracene
Concen: 0.340 ng
RT: 25.811 min Scan# 3549
Delta R.T. -0.044 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion:278 Resp: 3277

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 22.5 | 20.8 | 31.2 |
| 279 | 36.2 | 28.8 | 43.2 |

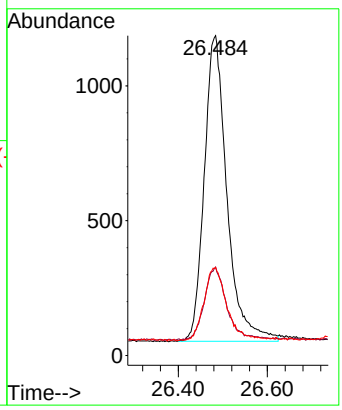





#41
Benzo(g,h,i)perylene
Concen: 0.363 ng
RT: 26.484 min Scan# 3
Delta R.T. -0.047 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion:276 Resp: 400

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 27.7 | 22.2 | 33.4 |
| 138 | 27.6 | 24.1 | 36.1 |




**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

**Manual Integrations**
**APPROVED**

Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN033125\
Data File : BN036815.D
Acq On : 31 Mar 2025 15:08
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
BNA_N
**LabSampleId :**
SSTDCCC0.4

Quant Time: Mar 31 15:30:13 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
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 | 71 | -0.03 |
| 2 | | 1,4-Dioxane | 0.444 | 0.447 | -0.7 | 64 | -0.01 |
| 3 | | n-Nitrosodimethylamine | 0.898 | 0.915 | -1.9 | 69 | -0.01 |
| 4 | S | 2-Fluorophenol | 0.932 | 0.839 | 10.0 | 60 | -0.03 |
| 5 | S | Phenol-d6 | 1.152 | 0.976 | 15.3 | 61 | -0.04 |
| 6 | | bis(2-Chloroethyl)ether | 1.190 | 1.022 | 14.1 | 61 | -0.04 |
| 7 | I | Naphthalene-d8 | 1.000 | 1.000 | 0.0 | 80 | -0.03 |
| 8 | S | Nitrobenzene-d5 | 0.435 | 0.348 | 20.0 | 67 | -0.03 |
| 9 | | Naphthalene | 1.177 | 1.030 | 12.5 | 69 | -0.03 |
| 10 | | Hexachlorobutadiene | 0.277 | 0.244 | 11.9 | 67 | -0.03 |
| 11 | SURR | 2-Methylnaphthalene-d10 | 0.595 | 0.543 | 8.7 | 72 | -0.04 |
| 12 | | 2-Methylnaphthalene | 0.749 | 0.666 | 11.1 | 70 | -0.03 |
| 13 | I | Acenaphthene-d10 | 1.000 | 1.000 | 0.0 | 83 | -0.03 |
| 14 | S | 2,4,6-Tribromophenol | 0.182 | 0.159 | 12.6 | 71 | -0.02 |
| 15 | S | 2-Fluorobiphenyl | 2.327 | 1.957 | 15.9 | 68 | -0.03 |
| 16 | | Acenaphthylene | 1.888 | 1.606 | 14.9 | 69 | -0.02 |
| 17 | | Acenaphthene | 1.236 | 1.100 | 11.0 | 72 | -0.03 |
| 18 | | Fluorene | 1.672 | 1.479 | 11.5 | 70 | -0.02 |
| 19 | I | Phenanthrene-d10 | 1.000 | 1.000 | 0.0 | 84 | -0.02 |
| 20 | | 4,6-Dinitro-2-methylphenol | 0.086 | 0.079 | 8.1 | 86 | -0.02 |
| 21 | | 4-Bromophenyl-phenylether | 0.251 | 0.227 | 9.6 | 70 | -0.02 |
| 22 | | Hexachlorobenzene | 0.303 | 0.274 | 9.6 | 68 | -0.02 |
| 23 | | Atrazine | 0.201 | 0.190 | 5.5 | 75 | -0.02 |
| 24 | | Pentachlorophenol | 0.138 | 0.129 | 6.5 | 79 | -0.04 |
| 25 | | Phenanthrene | 1.200 | 1.133 | 5.6 | 73 | -0.02 |
| 26 | | Anthracene | 1.083 | 0.980 | 9.5 | 72 | -0.02 |
| 27 | SURR | Fluoranthene-d10 | 1.025 | 0.994 | 3.0 | 75 | -0.02 |
| 28 | | Fluoranthene | 1.348 | 1.344 | 0.3 | 78 | -0.02 |
| 29 | I | Chrysene-d12 | 1.000 | 1.000 | 0.0 | 94 | -0.02 |
| 30 | | Pyrene | 1.956 | 1.767 | 9.7 | 78 | -0.02 |
| 31 | S | Terphenyl-d14 | 0.958 | 0.842 | 12.1 | 77 | -0.02 |
| 32 | | Benzo(a)anthracene | 1.391 | 1.221 | 12.2 | 80 | -0.02 |
| 33 | | Chrysene | 1.520 | 1.463 | 3.7 | 85 | -0.02 |
| 34 | | Bis(2-ethylhexyl)phthalate | 0.990 | 0.900 | 9.1 | 81 | -0.02 |
| 35 | I | Perylene-d12 | 1.000 | 1.000 | 0.0 | 97 | -0.03 |
| 36 | | Indeno(1,2,3-cd)pyrene | 1.444 | 1.289 | 10.7 | 81 | -0.04 |
| 37 | | Benzo(b)fluoranthene | 1.456 | 1.378 | 5.4 | 86 | -0.02 |
| 38 | | Benzo(k)fluoranthene | 1.527 | 1.501 | 1.7 | 90 | -0.02 |
| 39 | C | Benzo(a)pyrene | 1.226 | 1.223 | 0.2 | 91 | -0.03 |
| 40 | | Dibenzo(a,h)anthracene | 1.124 | 0.954 | 15.1 | 80 | -0.04 |
| 41 | | Benzo(g,h,i)perylene | 1.286 | 1.166 | 9.3 | 82 | -0.05 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN033125\
Data File : BN036815.D
Acq On : 31 Mar 2025 15:08
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
BNA_N
**LabSampleId :**
SSTDCCC0.4

Quant Time: Mar 31 15:30:13 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
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 | 71 | -0.03 |
| 2 | | 1,4-Dioxane | 0.400 | 0.403 | -0.8 | 64 | -0.01 |
| 3 | | n-Nitrosodimethylamine | 0.400 | 0.408 | -2.0 | 69 | -0.01 |
| 4 | S | 2-Fluorophenol | 0.400 | 0.360 | 10.0 | 60 | -0.03 |
| 5 | S | Phenol-d6 | 0.400 | 0.339 | 15.3 | 61 | -0.04 |
| 6 | | bis(2-Chloroethyl)ether | 0.400 | 0.343 | 14.2 | 61 | -0.04 |
| 7 | I | Naphthalene-d8 | 0.400 | 0.400 | 0.0 | 80 | -0.03 |
| 8 | S | Nitrobenzene-d5 | 0.400 | 0.320 | 20.0 | 67 | -0.03 |
| 9 | | Naphthalene | 0.400 | 0.350 | 12.5 | 69 | -0.03 |
| 10 | | Hexachlorobutadiene | 0.400 | 0.352 | 12.0 | 67 | -0.03 |
| 11 | SURR | 2-Methylnaphthalene-d10 | 0.400 | 0.365 | 8.8 | 72 | -0.04 |
| 12 | | 2-Methylnaphthalene | 0.400 | 0.356 | 11.0 | 70 | -0.03 |
| 13 | I | Acenaphthene-d10 | 0.400 | 0.400 | 0.0 | 83 | -0.03 |
| 14 | S | 2,4,6-Tribromophenol | 0.400 | 0.351 | 12.3 | 71 | -0.02 |
| 15 | S | 2-Fluorobiphenyl | 0.400 | 0.336 | 16.0 | 68 | -0.03 |
| 16 | | Acenaphthylene | 0.400 | 0.340 | 15.0 | 69 | -0.02 |
| 17 | | Acenaphthene | 0.400 | 0.356 | 11.0 | 72 | -0.03 |
| 18 | | Fluorene | 0.400 | 0.354 | 11.5 | 70 | -0.02 |
| 19 | I | Phenanthrene-d10 | 0.400 | 0.400 | 0.0 | 84 | -0.02 |
| 20 | | 4,6-Dinitro-2-methylphenol | 0.400 | 0.454 | -13.5 | 86 | -0.02 |
| 21 | | 4-Bromophenyl-phenylether | 0.400 | 0.363 | 9.3 | 70 | -0.02 |
| 22 | | Hexachlorobenzene | 0.400 | 0.363 | 9.3 | 68 | -0.02 |
| 23 | | Atrazine | 0.400 | 0.377 | 5.8 | 75 | -0.02 |
| 24 | | Pentachlorophenol | 0.400 | 0.375 | 6.3 | 79 | -0.04 |
| 25 | | Phenanthrene | 0.400 | 0.378 | 5.5 | 73 | -0.02 |
| 26 | | Anthracene | 0.400 | 0.362 | 9.5 | 72 | -0.02 |
| 27 | SURR | Fluoranthene-d10 | 0.400 | 0.388 | 3.0 | 75 | -0.02 |
| 28 | | Fluoranthene | 0.400 | 0.399 | 0.3 | 78 | -0.02 |
| 29 | I | Chrysene-d12 | 0.400 | 0.400 | 0.0 | 94 | -0.02 |
| 30 | | Pyrene | 0.400 | 0.361 | 9.8 | 78 | -0.02 |
| 31 | S | Terphenyl-d14 | 0.400 | 0.352 | 12.0 | 77 | -0.02 |
| 32 | | Benzo(a)anthracene | 0.400 | 0.351 | 12.3 | 80 | -0.02 |
| 33 | | Chrysene | 0.400 | 0.385 | 3.8 | 85 | -0.02 |
| 34 | | Bis(2-ethylhexyl)phthalate | 0.400 | 0.364 | 9.0 | 81 | -0.02 |
| 35 | I | Perylene-d12 | 0.400 | 0.400 | 0.0 | 97 | -0.03 |
| 36 | | Indeno(1,2,3-cd)pyrene | 0.400 | 0.357 | 10.8 | 81 | -0.04 |
| 37 | | Benzo(b)fluoranthene | 0.400 | 0.379 | 5.3 | 86 | -0.02 |
| 38 | | Benzo(k)fluoranthene | 0.400 | 0.393 | 1.8 | 90 | -0.02 |
| 39 | C | Benzo(a)pyrene | 0.400 | 0.399 | 0.3 | 91 | -0.03 |
| 40 | | Dibenzo(a,h)anthracene | 0.400 | 0.340 | 15.0 | 80 | -0.04 |
| 41 | | Benzo(g,h,i)perylene | 0.400 | 0.363 | 9.3 | 82 | -0.05 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0

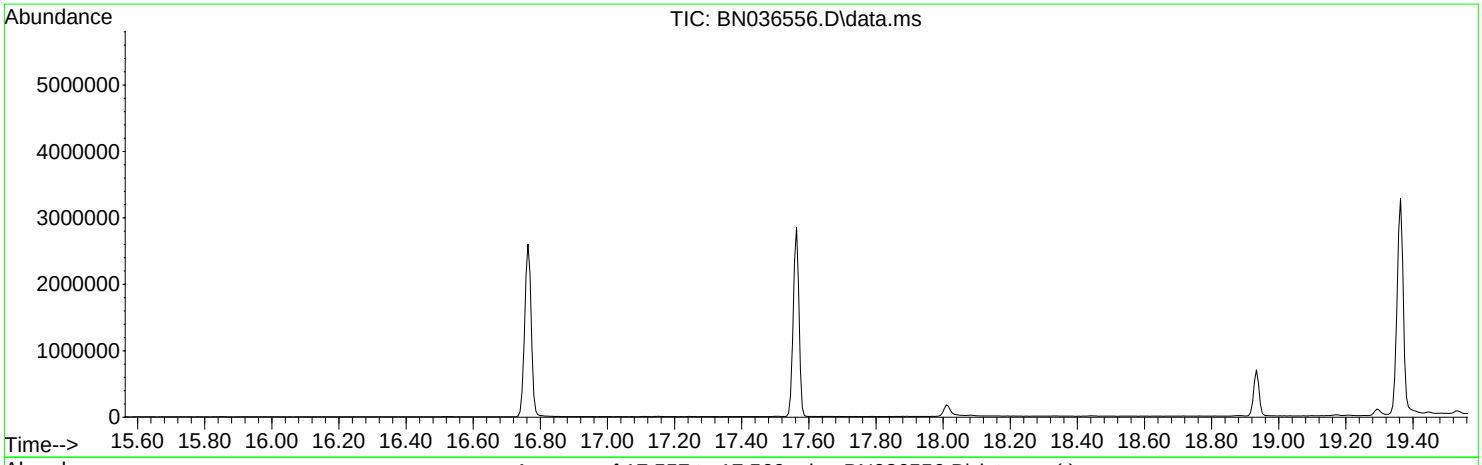
# QC SAMPLE DATA

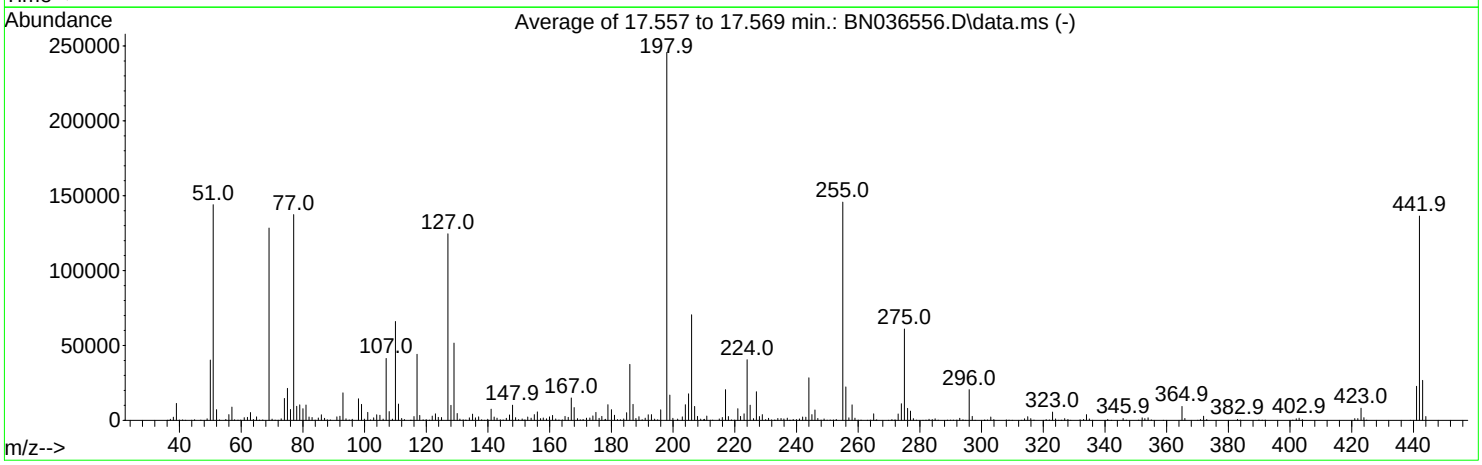
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036556.D
Acq On : 10 Mar 2025 11:03
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Mon Mar 10 16:06:28 2025



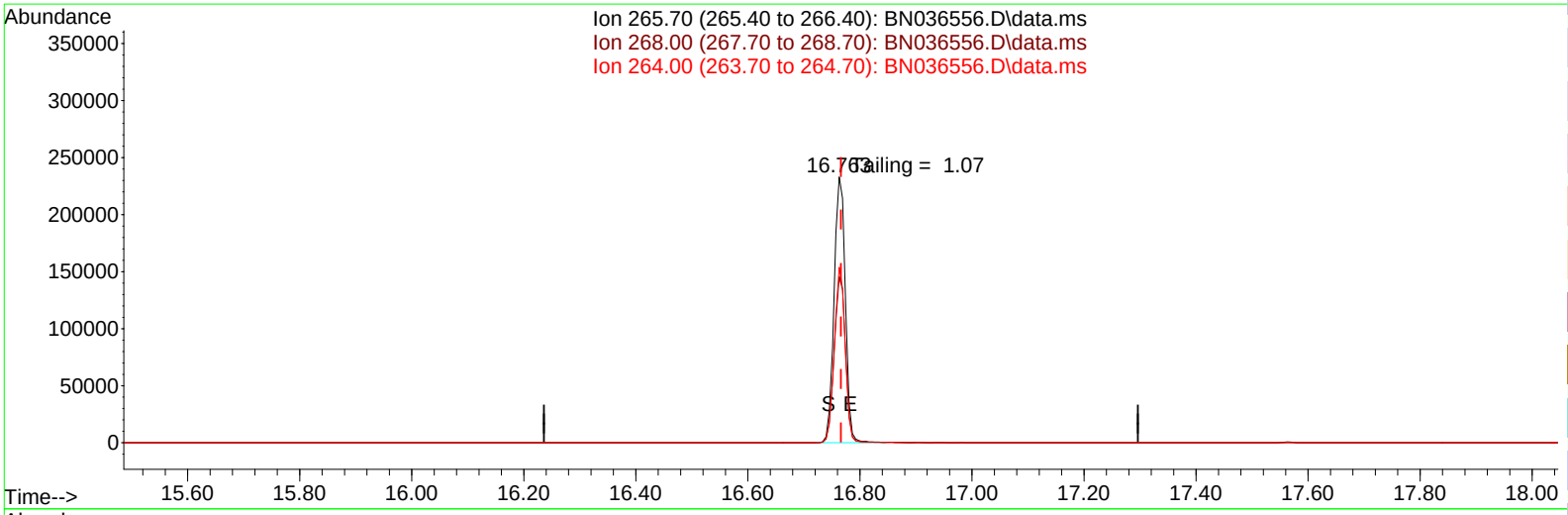

AutoFind: Scans 2460, 2461, 2462; Background Corrected with Scan 2453

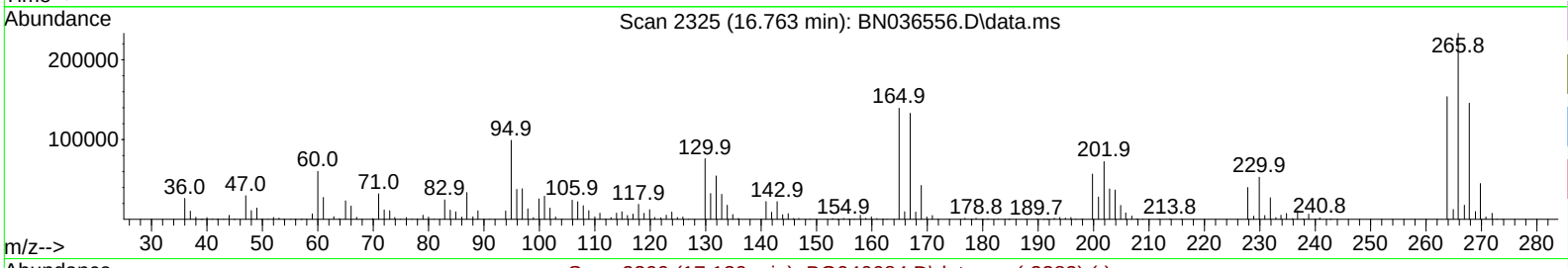
| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 51 | 198 | 10 | 80 | 58.6 | 144050 | PASS |
| 68 | 69 | 0.00 | 2 | 0.0 | 0 | PASS |
| 69 | 198 | 0.00 | 100 | 52.3 | 128410 | PASS |
| 70 | 69 | 0.00 | 2 | 0.7 | 835 | PASS |
| 127 | 198 | 10 | 80 | 50.7 | 124576 | PASS |
| 197 | 198 | 0.00 | 2 | 0.0 | 0 | PASS |
| 198 | 198 | 100 | 100 | 100.0 | 245632 | PASS |
| 199 | 198 | 5 | 9 | 6.9 | 16887 | PASS |
| 275 | 198 | 10 | 60 | 24.8 | 60997 | PASS |
| 365 | 198 | 1 | 100 | 3.8 | 9349 | PASS |
| 441 | 198 | 0.01 | 100 | 9.3 | 22761 | PASS |
| 442 | 442 | 50 | 100 | 100.0 | 136488 | PASS |
| 443 | 442 | 15 | 24 | 19.6 | 26765 | PASS |

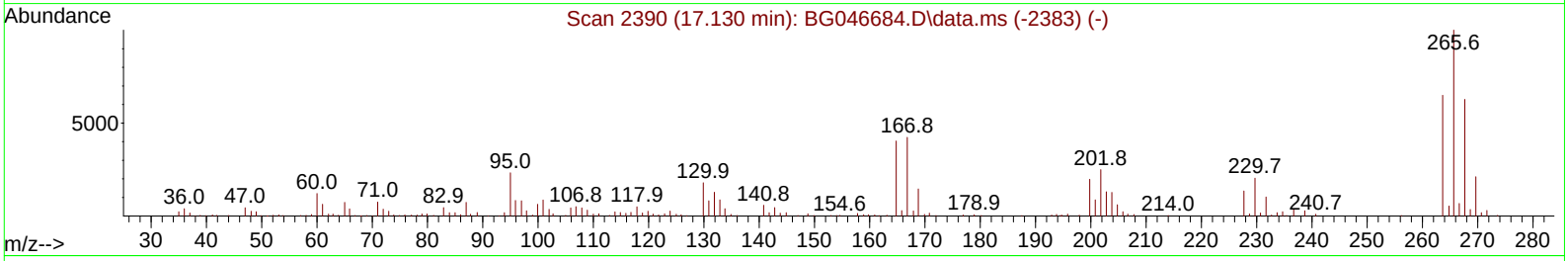
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036556.D
Acq On : 10 Mar 2025 11:03
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
DFTPP

Quant Time: Mar 10 17:07:28 2025
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: BN036556.D\data.ms

**(70) Pentachlorophenol (C)**

**16.763min (-0.003) 23577.14 ng**

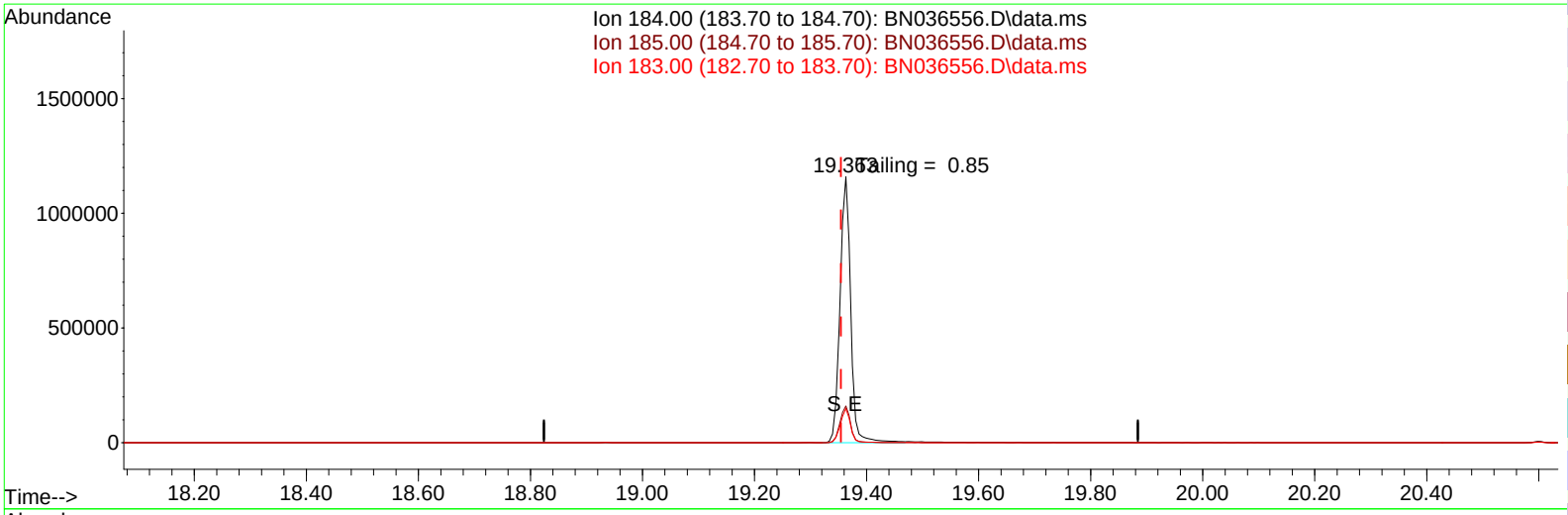
**response 323613**

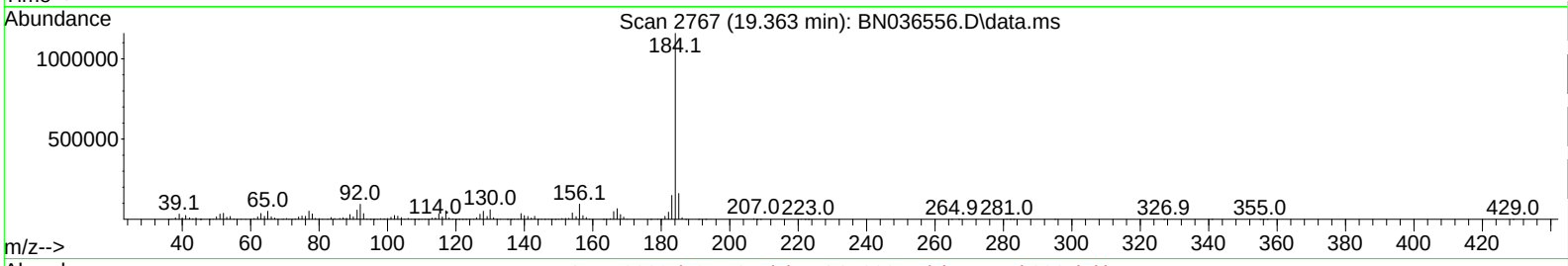
| Ion | Exp% | Act% |
|---|---|---|
| 265.70 | 100.00 | 100.00 |
| 268.00 | 62.20 | 62.52 |
| 264.00 | 61.60 | 66.01 |
| 0.00 | 0.00 | 0.00 |

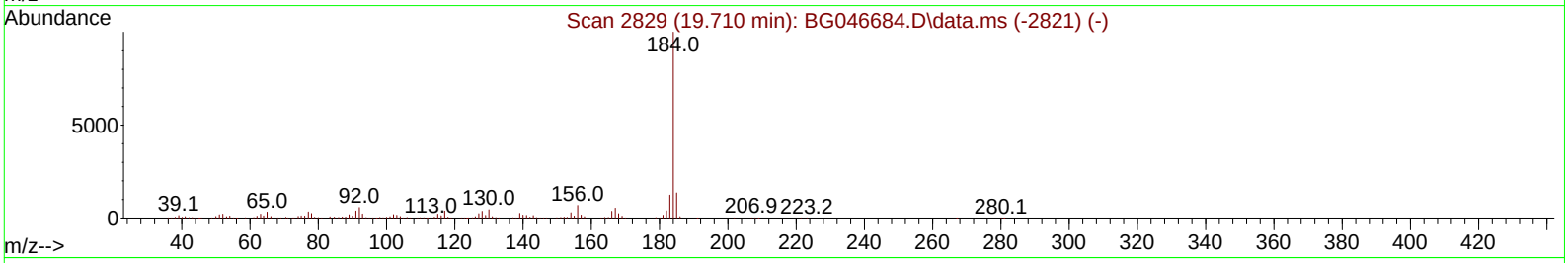
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036556.D
Acq On : 10 Mar 2025 11:03
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
DFTPP

Quant Time: Mar 10 17:07:28 2025
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: BN036556.D\data.ms

**(77) Benzidine**

**19.363min (+ 0.009) 0.00 ng**

**response 1553313**

| Ion | Exp% | Act% |
|---|---|---|
| 184.00 | 100.00 | 100.00 |
| 185.00 | 15.50 | 13.86 |
| 183.00 | 13.20 | 12.85 |
| 0.00 | 0.00 | 0.00 |

**Instrument :**
BNA_N
**ClientSampleId :**
DFTPP

## DDT Breakdown

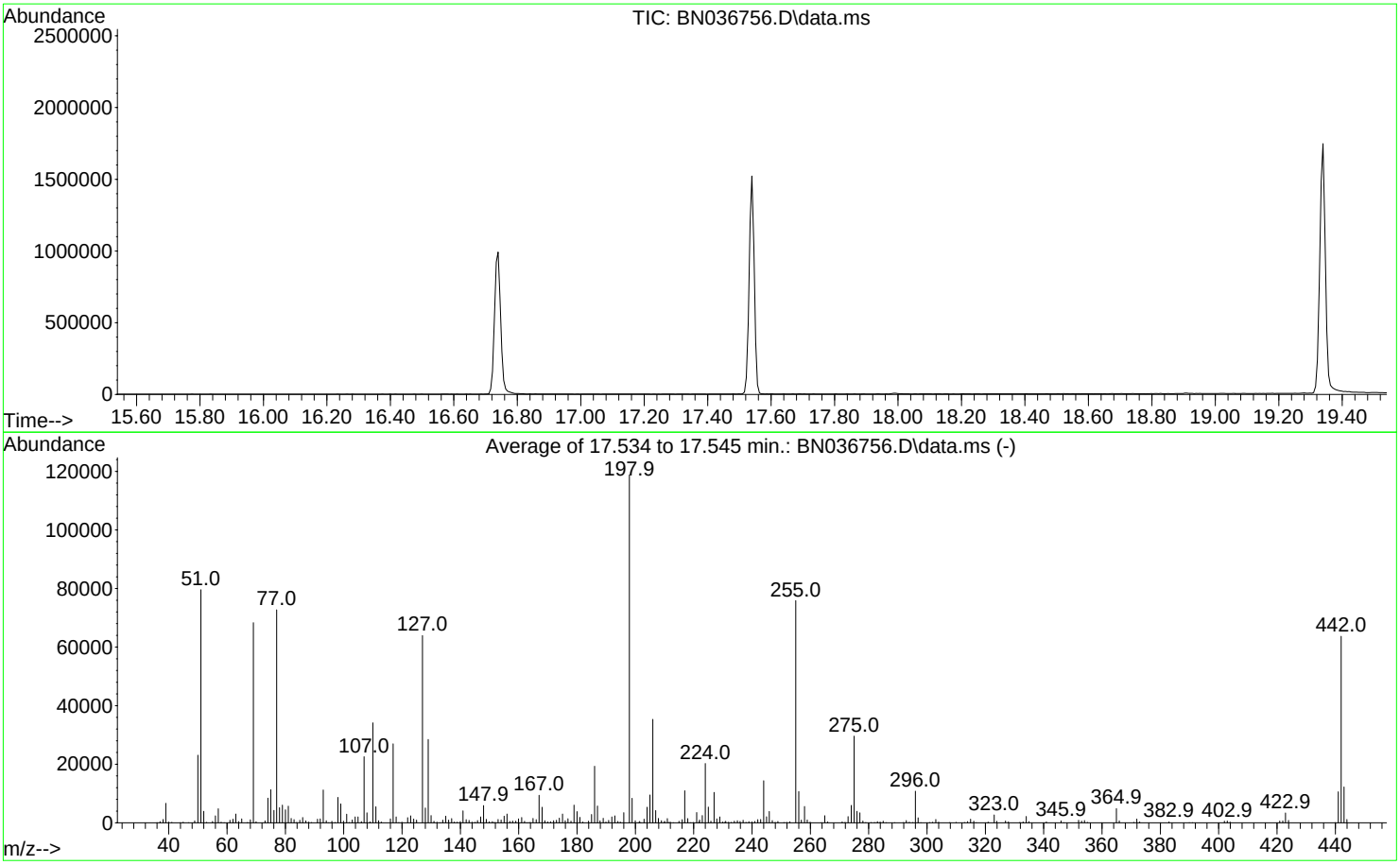
| Date | Instrument Name | DFTPP Data File |
|---|---|---|
| 3/10/2025 | BNA_N | BN036556.D |
| | | |
| | | |
| **Compound Name** | **Response** | **Retention Time** |
| | | |
| DDT | 1110406 | 20.598 |
| DDD | 11596 | 20.21 |
| DDE | 530 | 19.645 |
| | | |
| | | |
| **SUM(DDD+DDE)** | **SUM(DDT+DDD+DDE)** | **% Breakdown Of DDT** |
| | | |
| 12126 | 1122532 | 1.08 |
| | | |

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036756.D
Acq On : 28 Mar 2025 03:07
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-BN031025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Mon Mar 10 16:06:28 2025



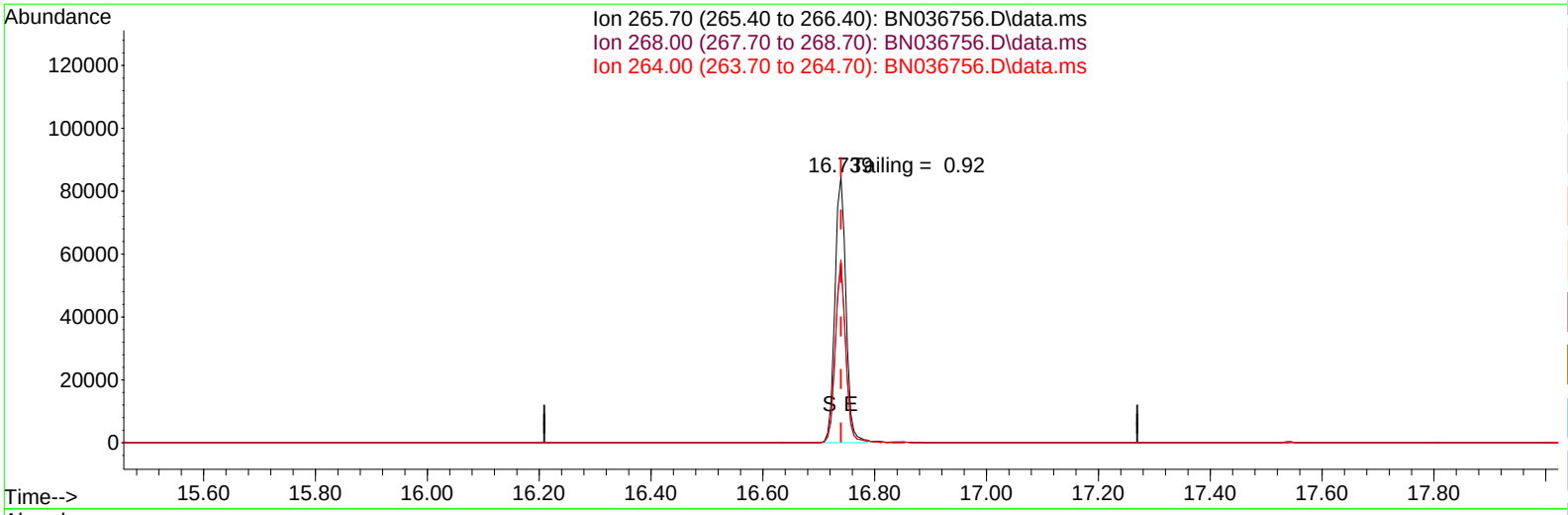

AutoFind: Scans 2456, 2457, 2458; Background Corrected with Scan 2450

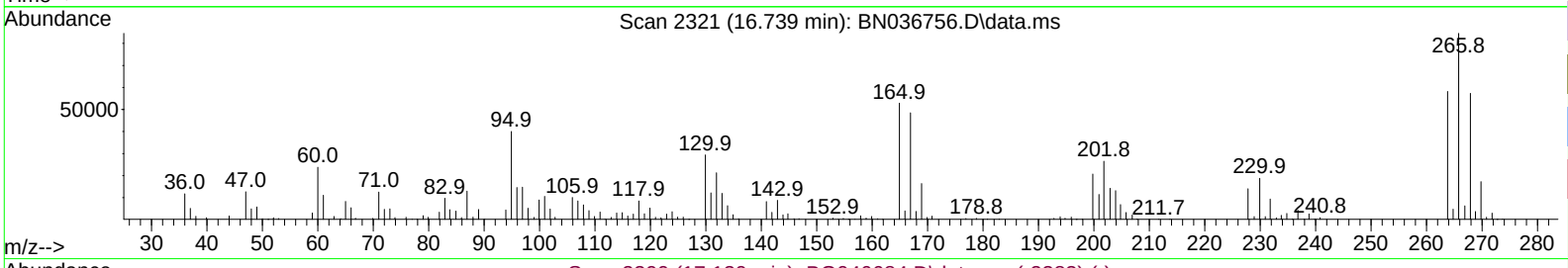
| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 51 | 198 | 10 | 80 | 67.0 | 79608 | PASS |
| 68 | 69 | 0.00 | 2 | 1.5 | 1020 | PASS |
| 69 | 198 | 0.00 | 100 | 57.5 | 68325 | PASS |
| 70 | 69 | 0.00 | 2 | 0.5 | 357 | PASS |
| 127 | 198 | 10 | 80 | 53.9 | 63944 | PASS |
| 197 | 198 | 0.00 | 2 | 0.0 | 0 | PASS |
| 198 | 198 | 100 | 100 | 100.0 | 118744 | PASS |
| 199 | 198 | 5 | 9 | 7.1 | 8386 | PASS |
| 275 | 198 | 10 | 60 | 24.9 | 29595 | PASS |
| 365 | 198 | 1 | 100 | 4.1 | 4858 | PASS |
| 441 | 198 | 0.01 | 100 | 8.9 | 10582 | PASS |
| 442 | 442 | 50 | 100 | 100.0 | 63691 | PASS |
| 443 | 442 | 15 | 24 | 19.2 | 12256 | PASS |

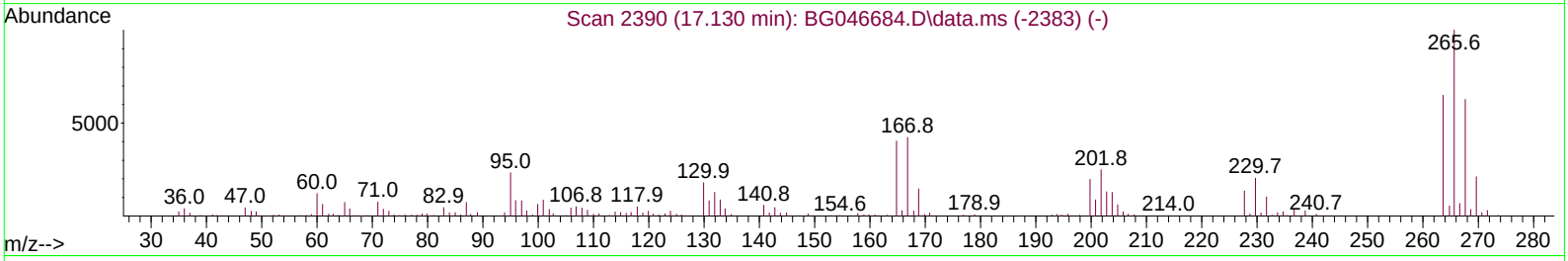
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036756.D
Acq On : 28 Mar 2025 03:07
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 21 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
DFTPP

Quant Time: Mar 28 05:40:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Mar 28 05:40:24 2025
Response via : Initial Calibration




TIC: BN036756.D\data.ms

**(70) Pentachlorophenol (C)**

**16.739min ( 0.000) 15913.57 ng**

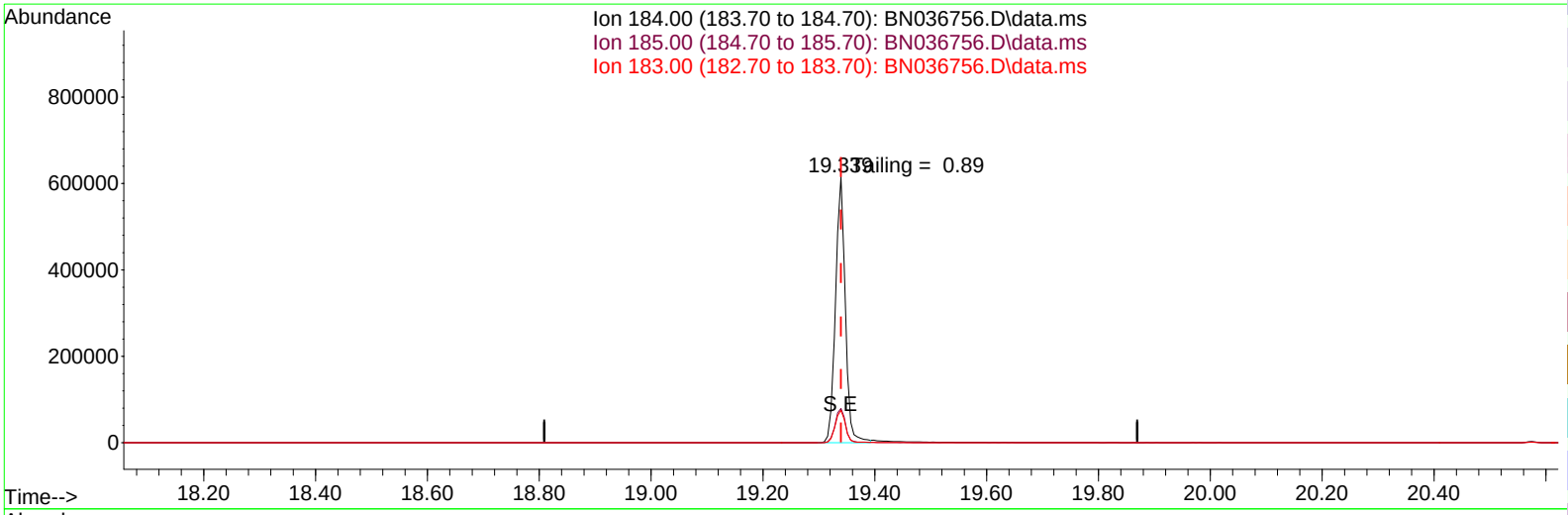
**response 116893**

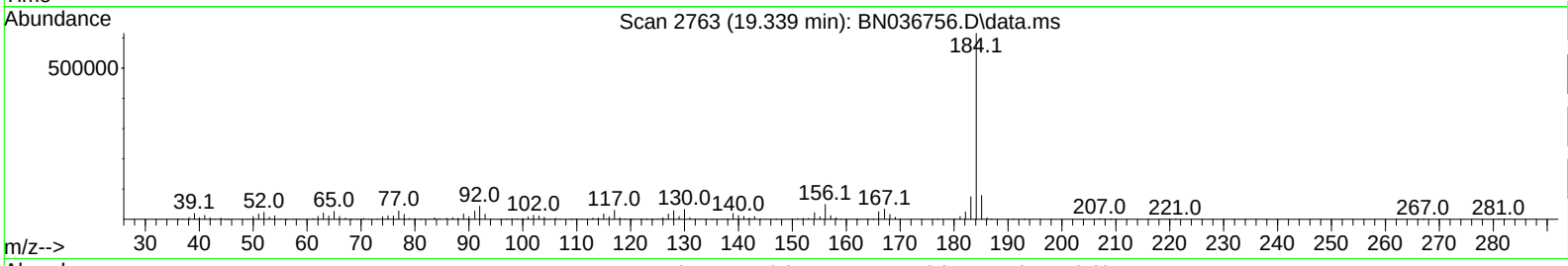
| Ion | Exp% | Act% |
|---|---|---|
| 265.70 | 100.00 | 100.00 |
| 268.00 | 62.20 | 67.77 |
| 264.00 | 61.60 | 68.86 |
| 0.00 | 0.00 | 0.00 |

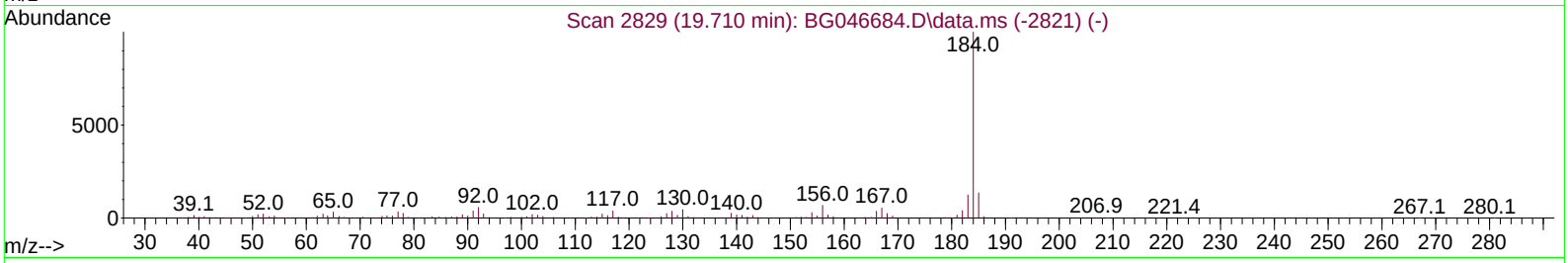
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036756.D
Acq On : 28 Mar 2025 03:07
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 21 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
DFTPP

Quant Time: Mar 28 05:40:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Mar 28 05:40:24 2025
Response via : Initial Calibration




TIC: BN036756.D\data.ms

**(77) Benzidine**

**19.339min ( 0.000) 0.00 ng**

**response 762967**

| Ion | Exp% | Act% |
|---|---|---|
| 184.00 | 100.00 | 100.00 |
| 185.00 | 15.50 | 12.92 |
| 183.00 | 13.20 | 12.18 |
| 0.00 | 0.00 | 0.00 |

**Instrument :**
BNA_N
**ClientSampleId :**
DFTPP

## DDT Breakdown

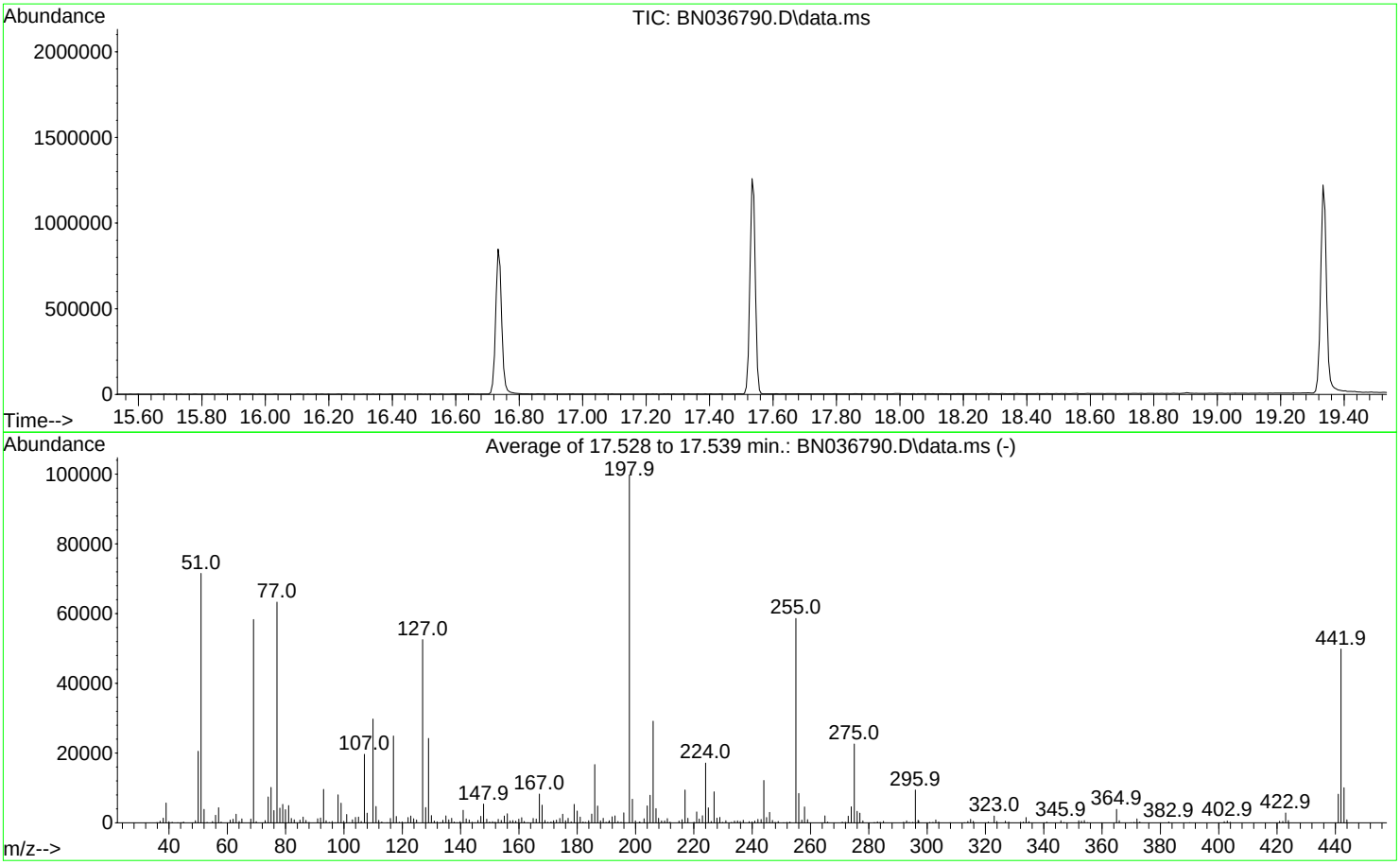
| Date | Instrument Name | DFTPP Data File |
|---|---|---|
| 3/27/2025 | BNA_N | BN036756.D |
| | | |
| | | |
| **Compound Name** | **Response** | **Retention Time** |
| | | |
| DDT | 412653 | 20.575 |
| DDD | 5613 | 20.186 |
| DDE | 207 | 19.633 |
| | | |
| | | |
| **SUM(DDD+DDE)** | **SUM(DDT+DDD+DDE)** | **% Breakdown Of DDT** |
| | | |
| 5820 | 418473 | 1.39 |
| | | |

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032825\
Data File : BN036790.D
Acq On : 29 Mar 2025 01:26
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-BN031025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Mon Mar 10 16:06:28 2025



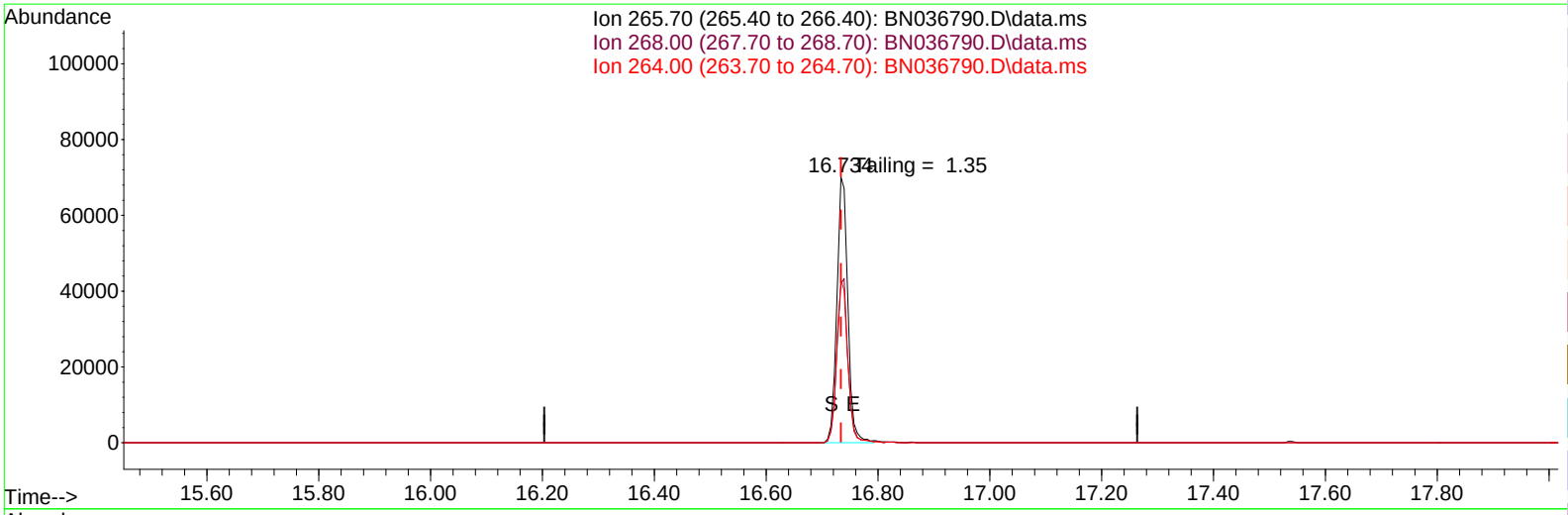

AutoFind: Scans 2455, 2456, 2457; Background Corrected with Scan 2449

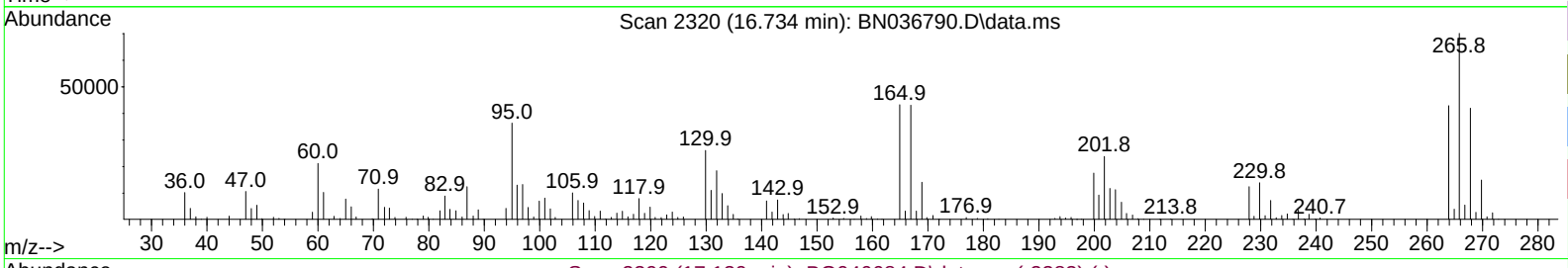
| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 51 | 198 | 10 | 80 | 71.7 | 71579 | PASS |
| 68 | 69 | 0.00 | 2 | 1.9 | 1100 | PASS |
| 69 | 198 | 0.00 | 100 | 58.5 | 58331 | PASS |
| 70 | 69 | 0.00 | 2 | 0.6 | 333 | PASS |
| 127 | 198 | 10 | 80 | 52.7 | 52565 | PASS |
| 197 | 198 | 0.00 | 2 | 0.0 | 0 | PASS |
| 198 | 198 | 100 | 100 | 100.0 | 99763 | PASS |
| 199 | 198 | 5 | 9 | 6.8 | 6769 | PASS |
| 275 | 198 | 10 | 60 | 22.7 | 22601 | PASS |
| 365 | 198 | 1 | 100 | 3.9 | 3887 | PASS |
| 441 | 198 | 0.01 | 100 | 8.2 | 8219 | PASS |
| 442 | 442 | 50 | 100 | 100.0 | 49867 | PASS |
| 443 | 442 | 15 | 24 | 20.2 | 10070 | PASS |

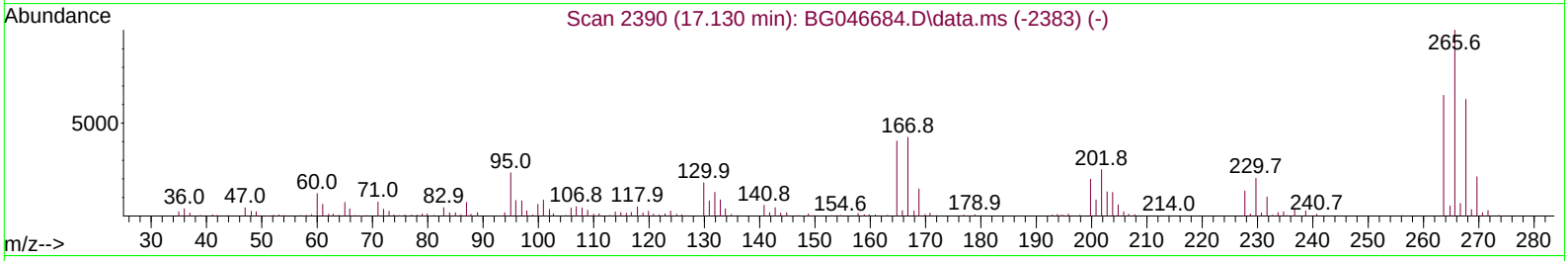
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032825\
Data File : BN036790.D
Acq On : 29 Mar 2025 01:26
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 21 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
DFTPP

Quant Time: Apr 01 00:17:04 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Apr 01 00:16:52 2025
Response via : Initial Calibration




TIC: BN036790.D\data.ms

**(70) Pentachlorophenol (C)**

**16.734min ( 0.000) 16501.63 ng**

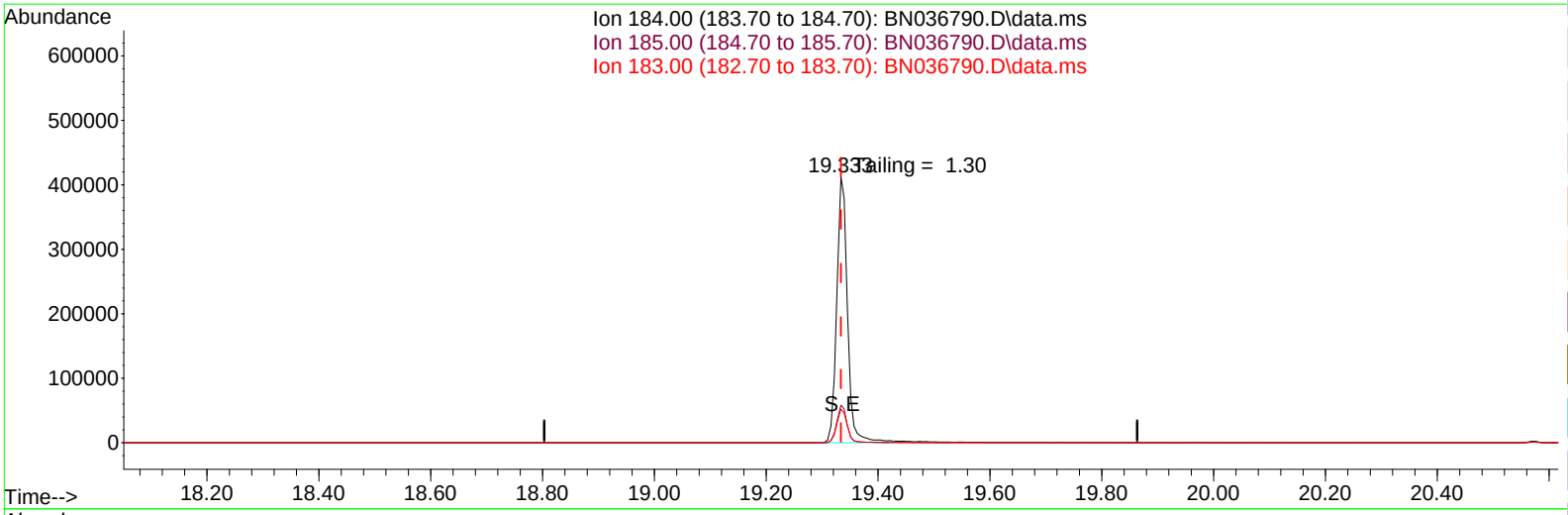
**response 96219**

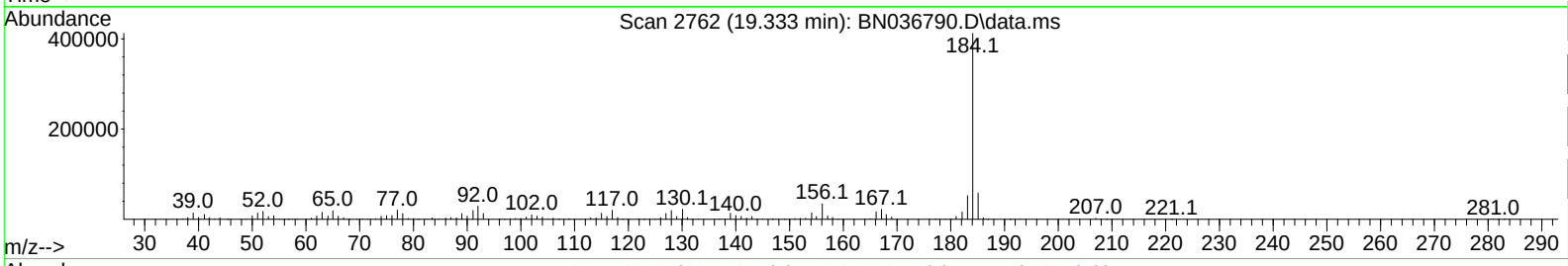
| Ion | Exp% | Act% |
|---|---|---|
| 265.70 | 100.00 | 100.00 |
| 268.00 | 62.20 | 59.83 |
| 264.00 | 61.60 | 61.22 |
| 0.00 | 0.00 | 0.00 |

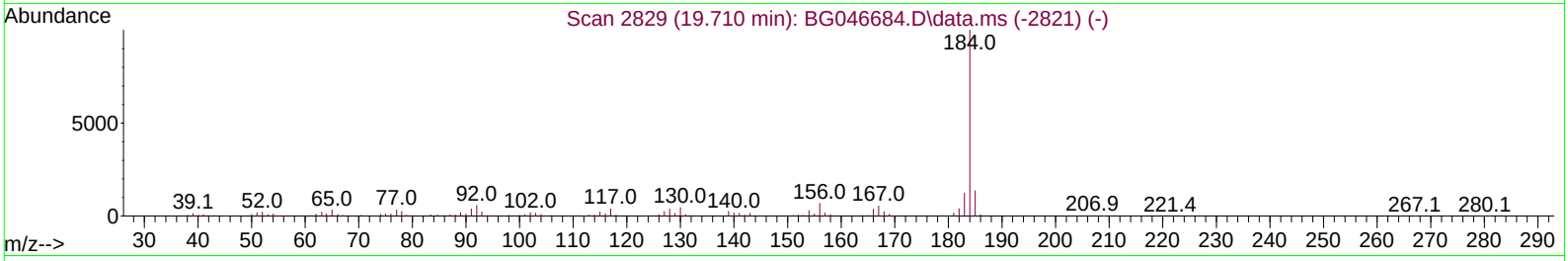
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032825\
Data File : BN036790.D
Acq On : 29 Mar 2025 01:26
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 21 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
DFTPP

Quant Time: Apr 01 00:17:04 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Apr 01 00:16:52 2025
Response via : Initial Calibration




TIC: BN036790.D\data.ms

**(77) Benzidine**

**19.333min ( 0.000) 0.00 ng**

**response 556362**

| Ion | Exp% | Act% |
|---|---|---|
| 184.00 | 100.00 | 100.00 |
| 185.00 | 15.50 | 14.17 |
| 183.00 | 13.20 | 12.68 |
| 0.00 | 0.00 | 0.00 |

**Instrument :**
BNA_N
**ClientSampleId :**
DFTPP

## DDT Breakdown

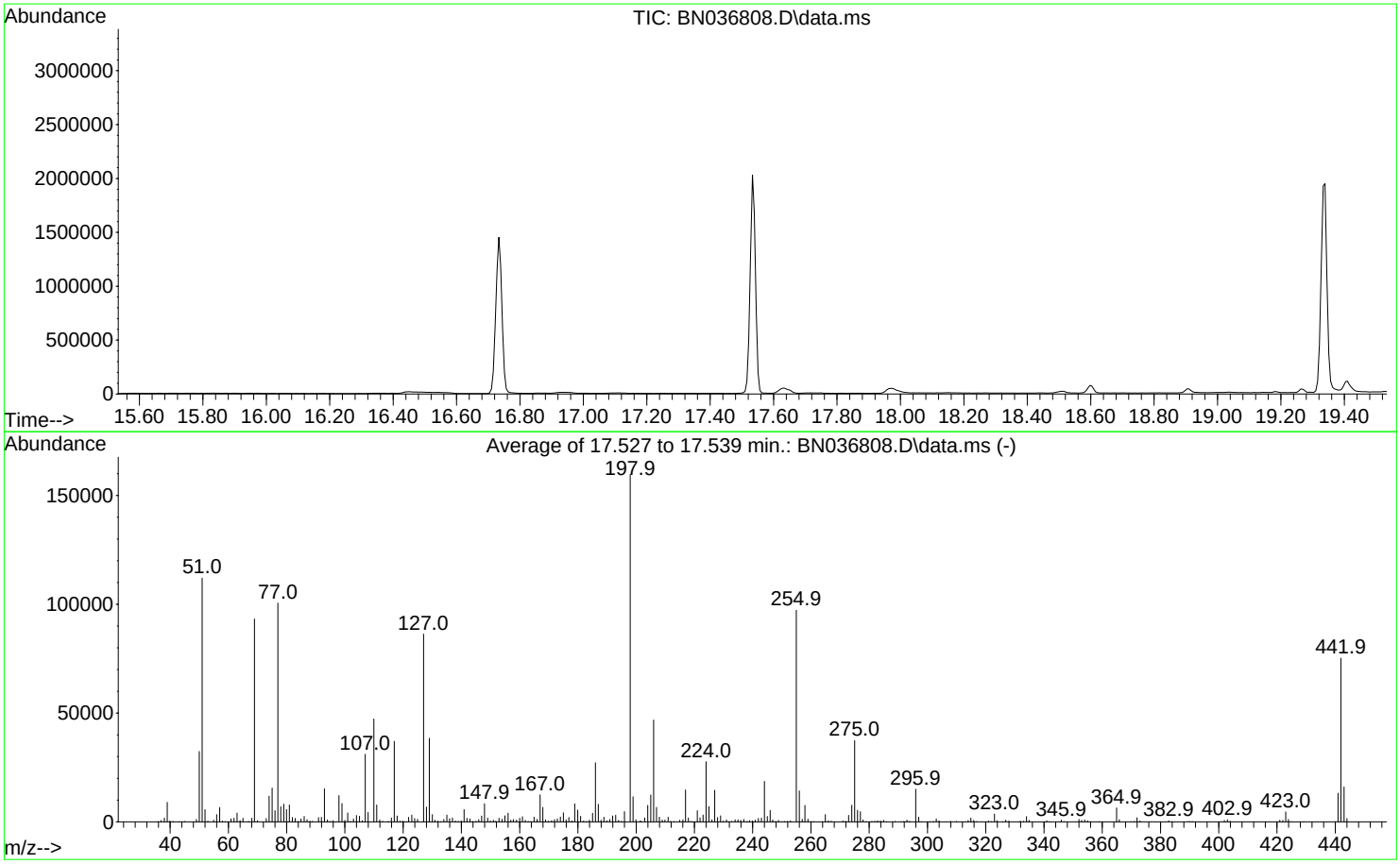
| Date | Instrument Name | DFTPP Data File |
|---|---|---|
| 3/28/2025 | BNA_N | BN036790.D |
| | | |
| | | |
| **Compound Name** | **Response** | **Retention Time** |
| | | |
| DDT | 356014 | 20.575 |
| DDD | 5380 | 20.133 |
| DDE | 263 | 19.628 |
| | | |
| | | |
| **SUM(DDD+DDE)** | **SUM(DDT+DDD+DDE)** | **% Breakdown Of DDT** |
| | | |
| 5643 | 361657 | 1.56 |
| | | |

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN033125\
Data File : BN036808.D
Acq On : 31 Mar 2025 10:00
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-BN031025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Mon Mar 10 16:06:28 2025



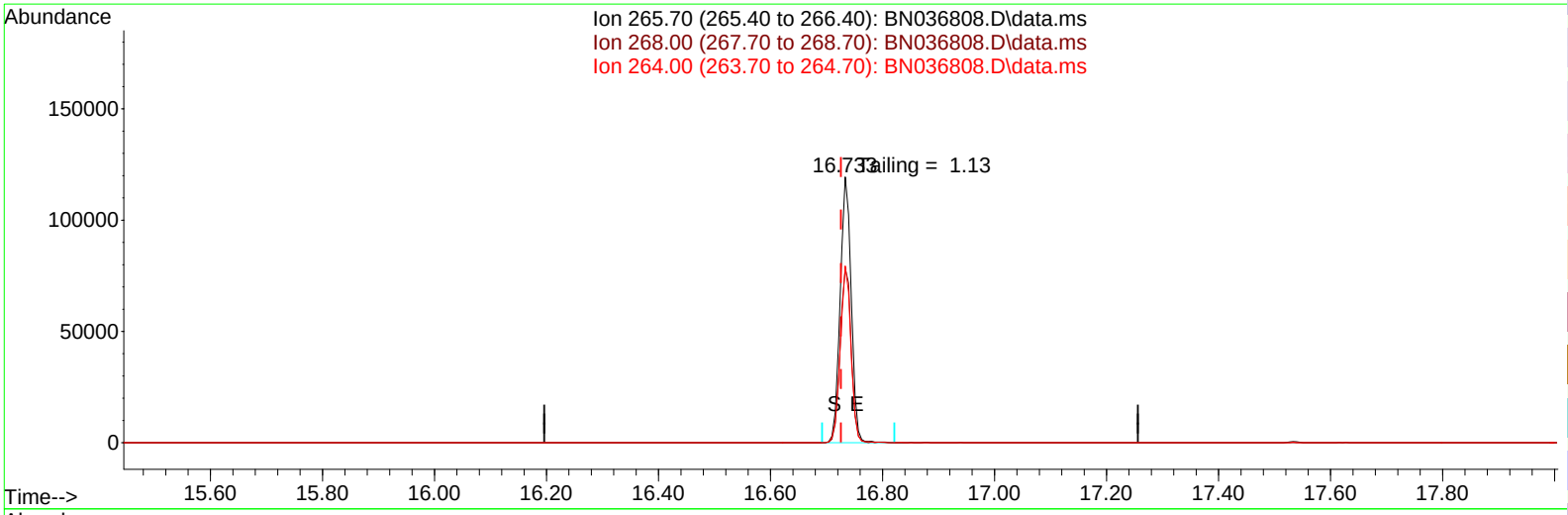

AutoFind: Scans 2455, 2456, 2457; Background Corrected with Scan 2449

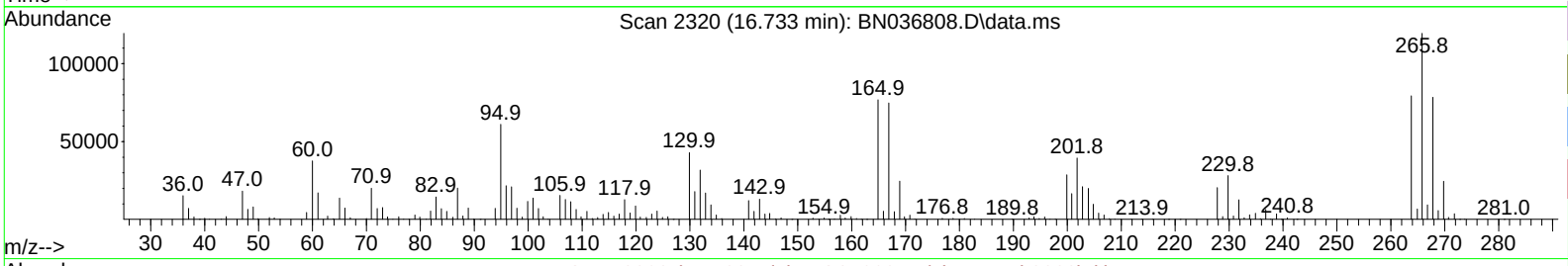
| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 51 | 198 | 10 | 80 | 70.2 | 112056 | PASS |
| 68 | 69 | 0.00 | 2 | 1.8 | 1674 | PASS |
| 69 | 198 | 0.00 | 100 | 58.4 | 93275 | PASS |
| 70 | 69 | 0.00 | 2 | 0.6 | 564 | PASS |
| 127 | 198 | 10 | 80 | 54.1 | 86363 | PASS |
| 197 | 198 | 0.00 | 2 | 0.0 | 0 | PASS |
| 198 | 198 | 100 | 100 | 100.0 | 159677 | PASS |
| 199 | 198 | 5 | 9 | 7.2 | 11540 | PASS |
| 275 | 198 | 10 | 60 | 23.4 | 37339 | PASS |
| 365 | 198 | 1 | 100 | 4.0 | 6395 | PASS |
| 441 | 198 | 0.01 | 100 | 8.3 | 13207 | PASS |
| 442 | 442 | 50 | 100 | 100.0 | 75192 | PASS |
| 443 | 442 | 15 | 24 | 21.3 | 16045 | PASS |

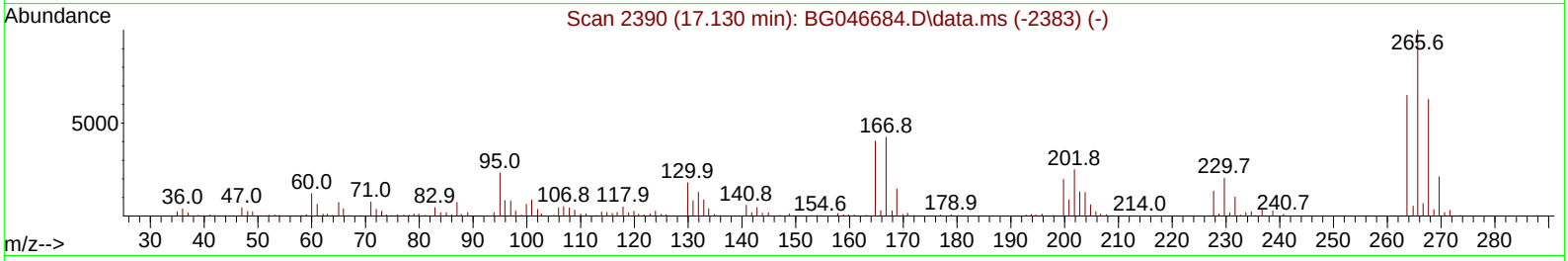
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN033125\
Data File : BN036808.D
Acq On : 31 Mar 2025 10:00
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
DFTPP

Quant Time: Mar 31 12:42:19 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Mar 29 04:33:53 2025
Response via : Initial Calibration




TIC: BN036808.D\data.ms

**(70) Pentachlorophenol (C)**

**16.733min (+ 0.007) 18057.26 ng**

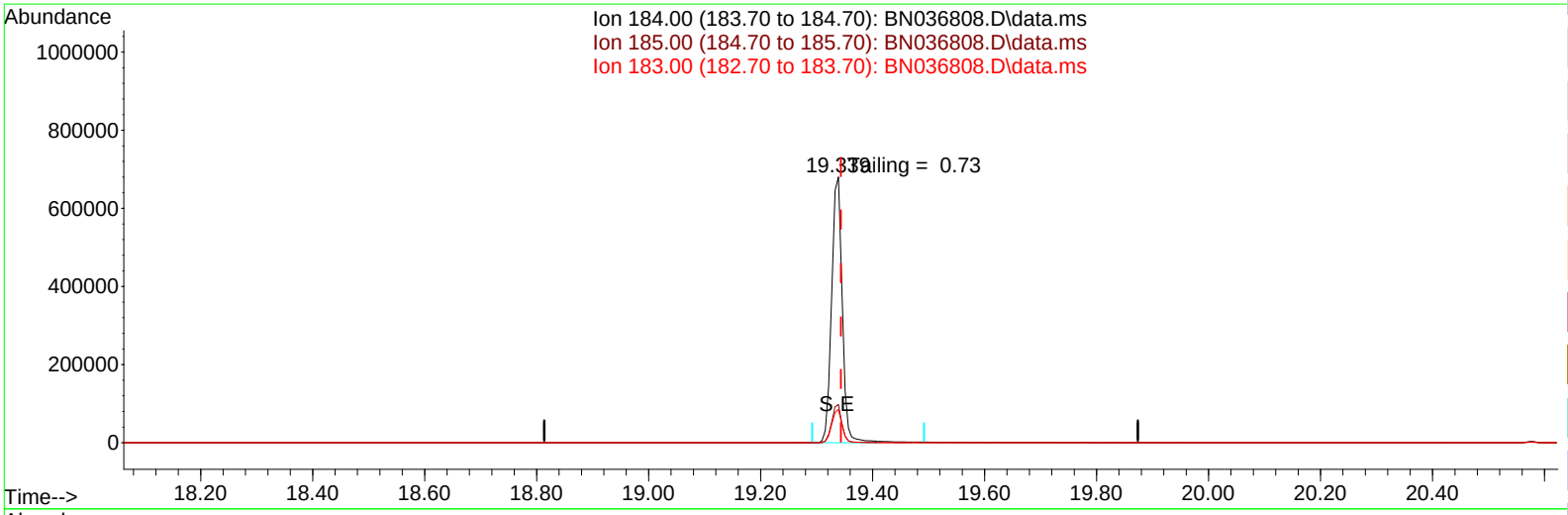
**response 163532**

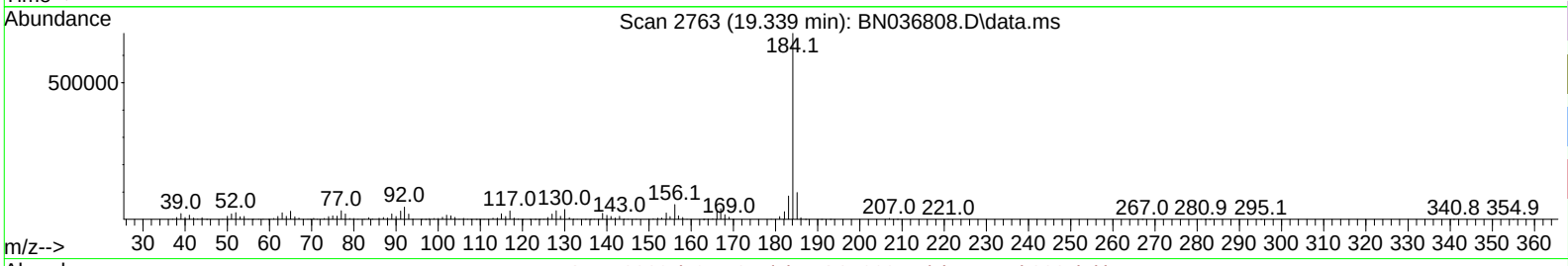
| Ion | Exp% | Act% |
|---|---|---|
| 265.70 | 100.00 | 100.00 |
| 268.00 | 62.20 | 65.65 |
| 264.00 | 61.60 | 66.47 |
| 0.00 | 0.00 | 0.00 |

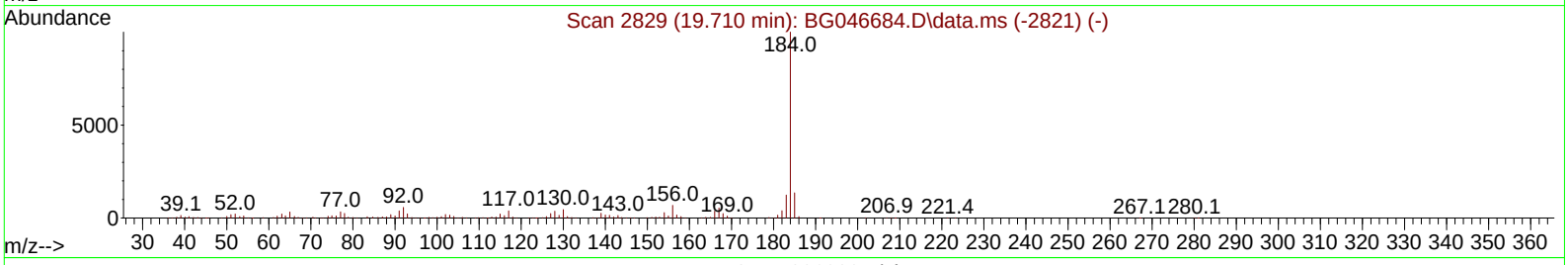
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN033125\
Data File : BN036808.D
Acq On : 31 Mar 2025 10:00
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
DFTPP

Quant Time: Mar 31 12:45:51 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Mar 29 04:33:53 2025
Response via : Initial Calibration




TIC: BN036808.D\data.ms

**(77) Benzidine**

**19.339min (-0.005) 0.00 ng**

**response 903894**

| Ion | Exp% | Act% |
|---|---|---|
| 184.00 | 100.00 | 100.00 |
| 185.00 | 15.50 | 14.38 |
| 183.00 | 13.20 | 12.51 |
| 0.00 | 0.00 | 0.00 |

**Instrument :**
BNA_N
**ClientSampleId :**
DFTPP

## DDT Breakdown

| Date | Instrument Name | DFTPP Data File |
|---|---|---|
| 3/31/2025 | BNA_N | BN036808.D |
| | | |
| | | |
| **Compound Name** | **Response** | **Retention Time** |
| | | |
| DDT | 562026 | 20.58 |
| DDD | 7640 | 20.186 |
| DDE | 699 | 19.627 |
| | | |
| | | |
| **SUM(DDD+DDE)** | **SUM(DDT+DDD+DDE)** | **% Breakdown Of DDT** |
| | | |
| 8339 | 570365 | 1.46 |
| | | |

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: | PB167295BL | SDG No.: | Q1629 |
| Lab Sample ID: | PB167295BL | 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 |
|---|---|---|---|---|
| BN036792.D | 1 | 03/25/25 08:41 | 03/29/25 03:20 | PB167295 |

| 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 | 0.31 | | 30 - 150 | | 77% | SPK: 0.4 |
| 93951-69-0 | Fluoranthene-d10 | 0.37 | | 30 - 150 | | 94% | SPK: 0.4 |
| 4165-60-0 | Nitrobenzene-d5 | 0.28 | | 55 - 111 | | 70% | SPK: 0.4 |
| 321-60-8 | 2-Fluorobiphenyl | 0.27 | | 53 - 106 | | 67% | SPK: 0.4 |
| 1718-51-0 | Terphenyl-d14 | 0.36 | | 58 - 132 | | 90% | SPK: 0.4 |
| **INTERNAL STANDARDS** | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 1920 | 7.703 | | | | |
| 1146-65-2 | Naphthalene-d8 | 4330 | 10.498 | | | | |
| 15067-26-2 | Acenaphthene-d10 | 2410 | 14.345 | | | | |
| 1517-22-2 | Phenanthrene-d10 | 4530 | 17.099 | | | | |
| 1719-03-5 | Chrysene-d12 | 3410 | 21.277 | | | | |
| 1520-96-3 | Perylene-d12 | 1730 | 23.525 | | | | |

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\BN032825\
Data File : BN036792.D
Acq On : 29 Mar 2025 03:20
Operator : RC/JU
Sample : PB167295BL
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
PB167295BL

Quant Time: Mar 29 04:28:52 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

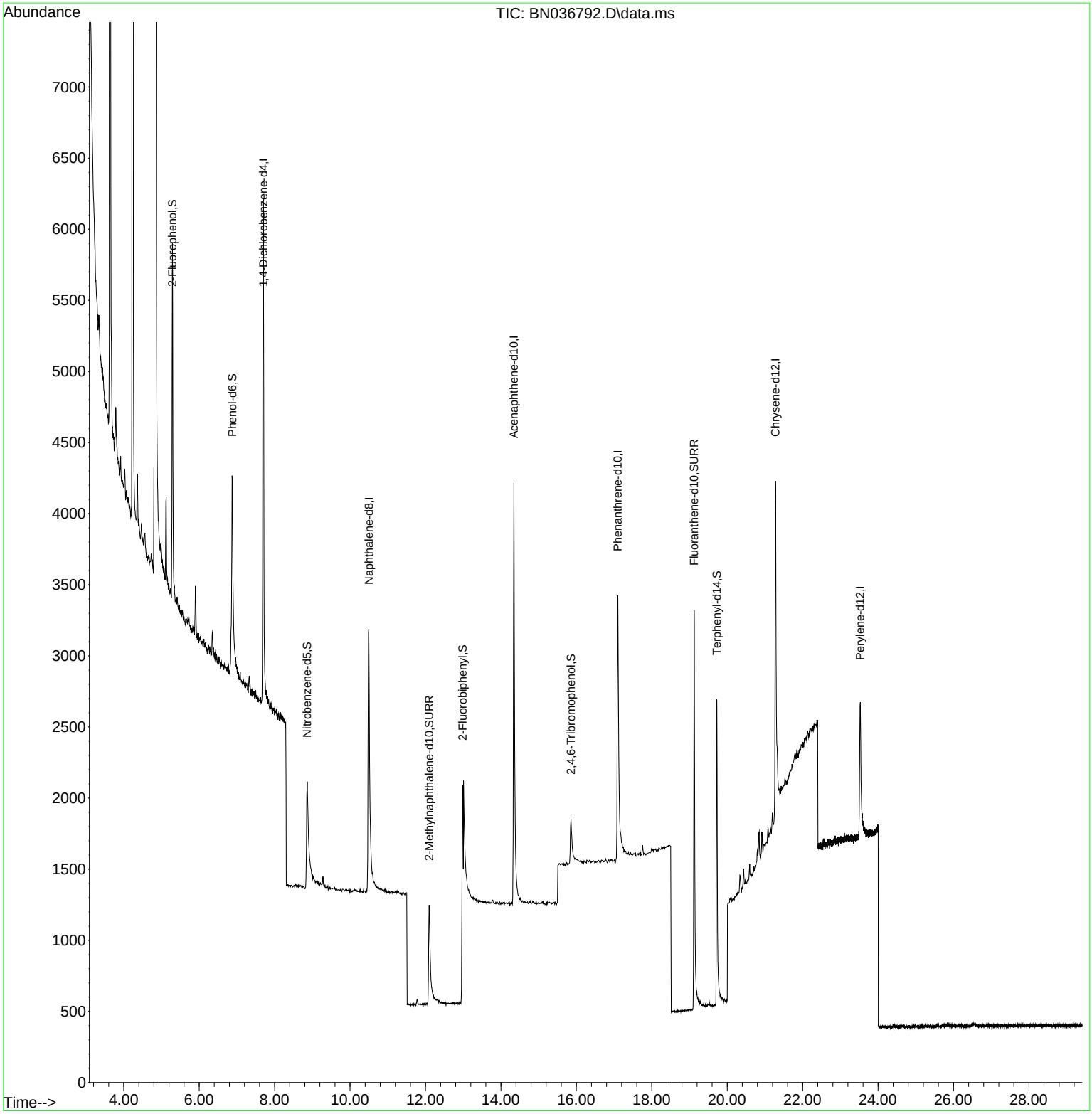
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.703 | 152 | 1921 | 0.400 | ng | -0.02 |
| 7) Naphthalene-d8 | 10.498 | 136 | 4330 | 0.400 | ng | -0.01 |
| 13) Acenaphthene-d10 | 14.345 | 164 | 2411 | 0.400 | ng | -0.02 |
| 19) Phenanthrene-d10 | 17.099 | 188 | 4533 | 0.400 | ng | #-0.01 |
| 29) Chrysene-d12 | 21.277 | 240 | 3414 | 0.400 | ng | -0.02 |
| 35) Perylene-d12 | 23.525 | 264 | 1734 | 0.400 | ng | #-0.03 |
| System Monitoring Compounds | | | | | | |
| 4) 2-Fluorophenol | 5.291 | 112 | 1737 | 0.388 | ng | -0.02 |
| 5) Phenol-d6 | 6.879 | 99 | 1887 | 0.341 | ng | -0.02 |
| 8) Nitrobenzene-d5 | 8.865 | 82 | 1320 | 0.280 | ng | -0.01 |
| 11) 2-Methylnaphthalene-d10 | 12.096 | 152 | 1997 | 0.310 | ng | -0.02 |
| 14) 2,4,6-Tribromophenol | 15.858 | 330 | 337 | 0.308 | ng | 0.00 |
| 15) 2-Fluorobiphenyl | 12.983 | 172 | 3733 | 0.266 | ng | 0.00 |
| 27) Fluoranthene-d10 | 19.123 | 212 | 4345 | 0.374 | ng | -0.02 |
| 31) Terphenyl-d14 | 19.722 | 244 | 2960 | 0.362 | ng | -0.02 |
| Target Compounds | | | | | | Qvalue |

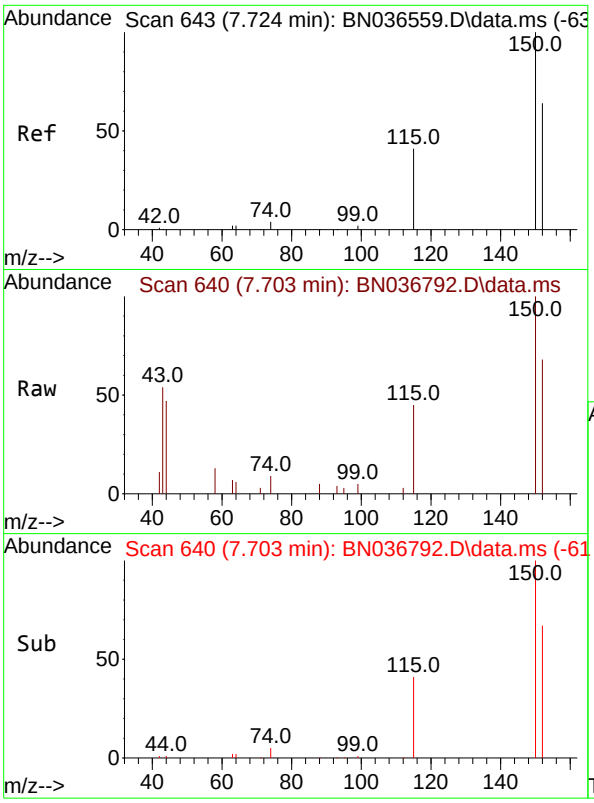
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032825\
Data File : BN036792.D
Acq On : 29 Mar 2025 03:20
Operator : RC/JU
Sample : PB167295BL
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
PB167295BL

Quant Time: Mar 29 04:28:52 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration



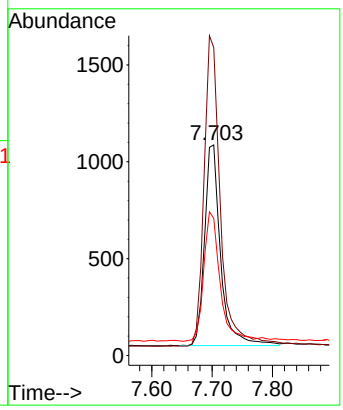


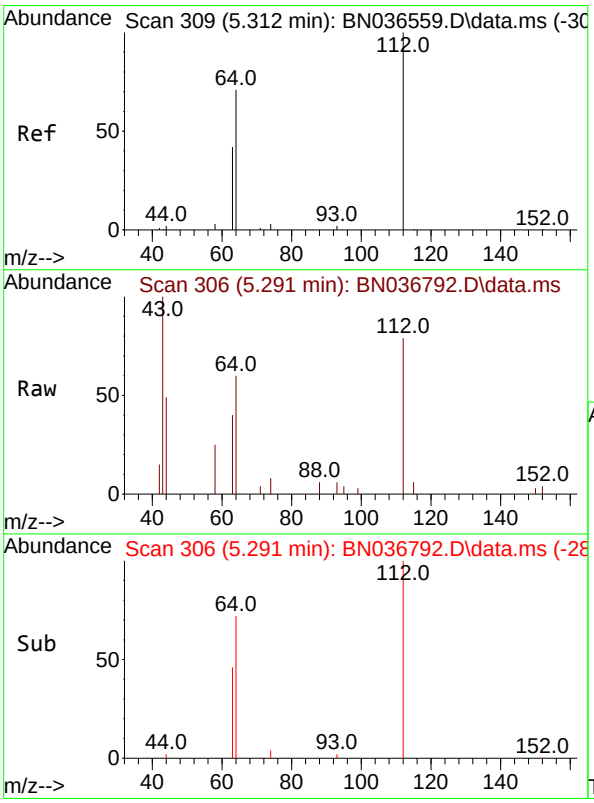

#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.703 min Scan# 64
Delta R.T. -0.021 min
Lab File: BN036792.D
Acq: 29 Mar 2025 03:20

**Instrument :**
BNA_N
**ClientSampleId :**
PB167295BL

Tgt Ion:152 Resp: 1921

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 146.2 | 123.7 | 185.5 |
| 115 | 65.2 | 54.3 | 81.5 |

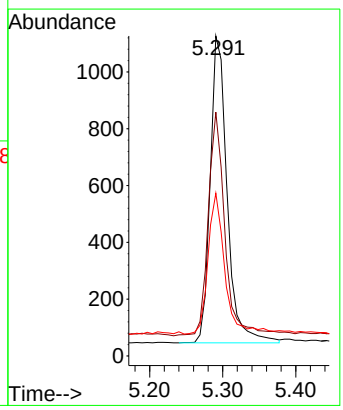


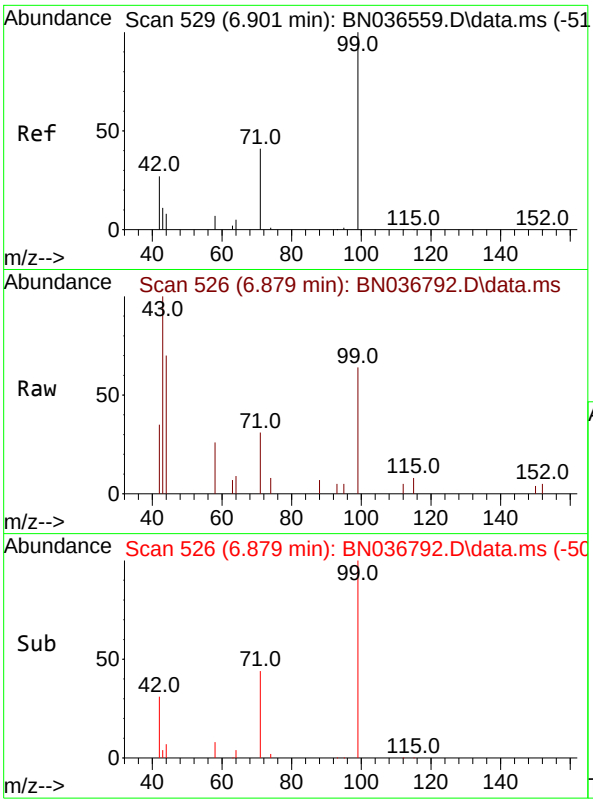




#4
2-Fluorophenol
Concen: 0.388 ng
RT: 5.291 min Scan# 306
Delta R.T. -0.021 min
Lab File: BN036792.D
Acq: 29 Mar 2025 03:20

Tgt Ion:112 Resp: 1737

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 72.5 | 53.1 | 79.7 |
| 63 | 45.6 | 31.8 | 47.8 |



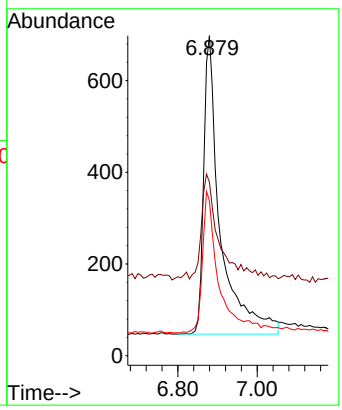


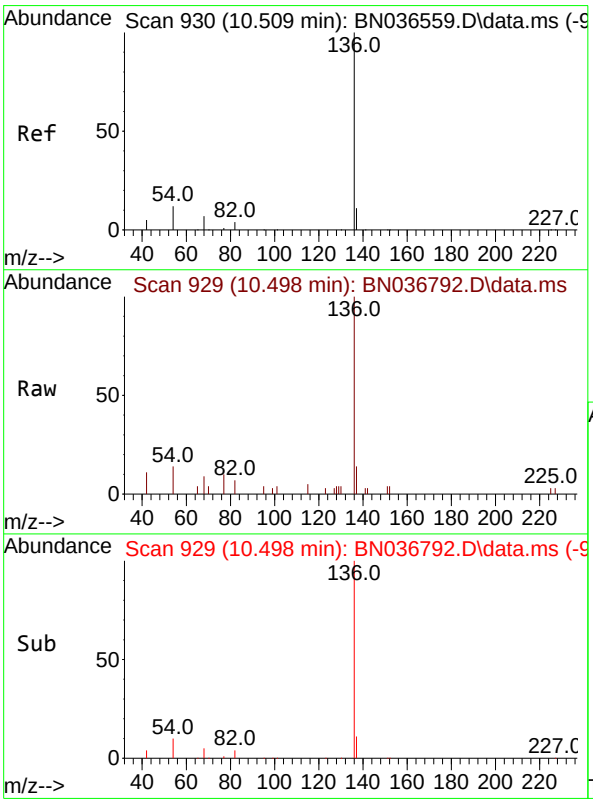

#5
Phenol-d6
Concen: 0.341 ng
RT: 6.879 min Scan# 5
Delta R.T. -0.021 min
Lab File: BN036792.D
Acq: 29 Mar 2025 03:20

**Instrument :**
BNA_N
**ClientSampleId :**
PB167295BL

Tgt Ion: 99 Resp: 1887

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 37.3 | 26.5 | 39.7 |
| 71 | 45.5 | 34.1 | 51.1 |

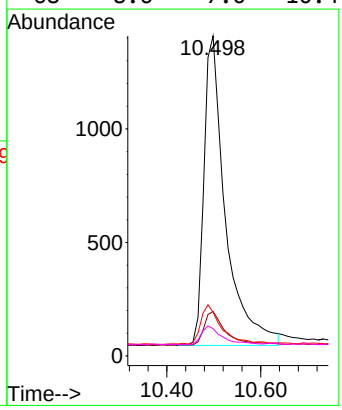


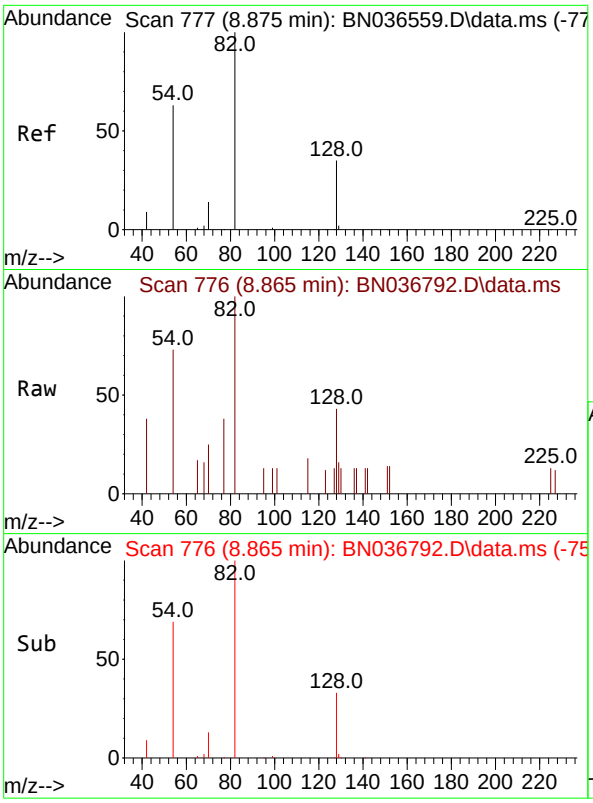




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.498 min Scan# 929
Delta R.T. -0.010 min
Lab File: BN036792.D
Acq: 29 Mar 2025 03:20

Tgt Ion:136 Resp: 4330

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 13.9 | 10.3 | 15.5 |
| 54 | 13.7 | 11.5 | 17.3 |
| 68 | 8.6 | 7.0 | 10.4 |



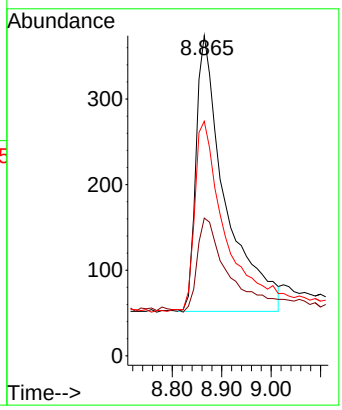


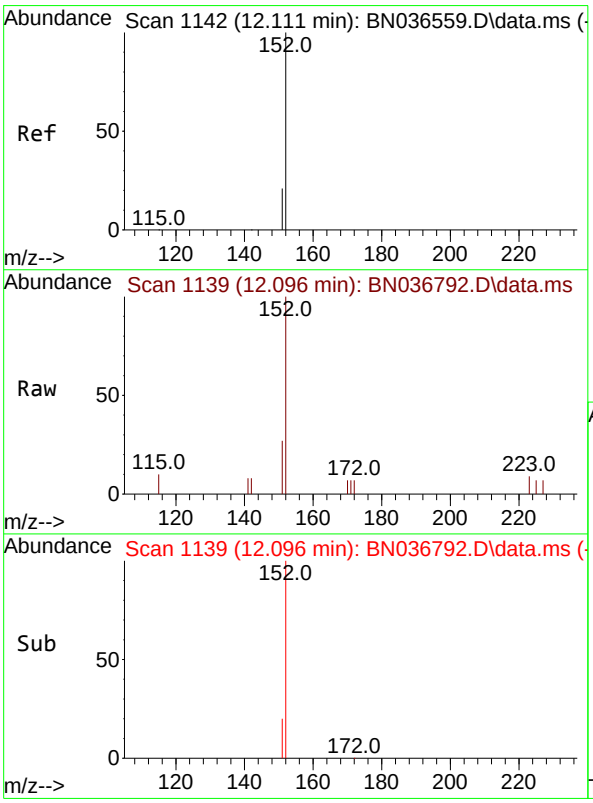

#8
Nitrobenzene-d5
Concen: 0.280 ng
RT: 8.865 min Scan# 7
Delta R.T. -0.010 min
Lab File: BN036792.D
Acq: 29 Mar 2025 03:20

**Instrument :**
BNA_N
**ClientSampleId :**
PB167295BL

Tgt Ion: 82 Resp: 1320

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 43.0 | 30.6 | 45.8 |
| 54 | 73.3 | 52.2 | 78.4 |

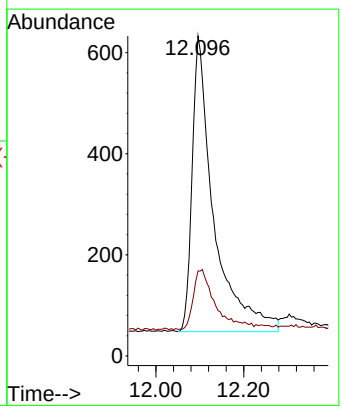


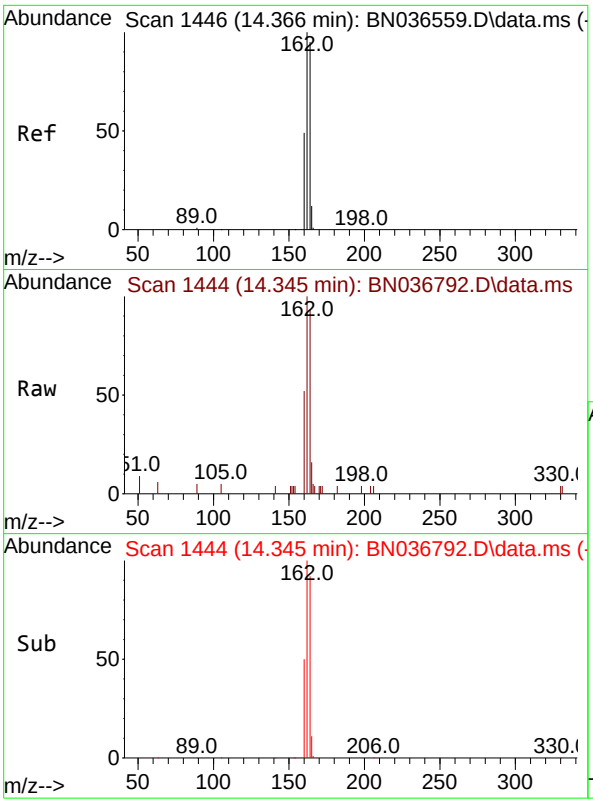




#11
2-Methylnaphthalene-d10
Concen: 0.310 ng
RT: 12.096 min Scan# 1139
Delta R.T. -0.015 min
Lab File: BN036792.D
Acq: 29 Mar 2025 03:20

Tgt Ion:152 Resp: 1997

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.6 | 17.0 | 25.6 |



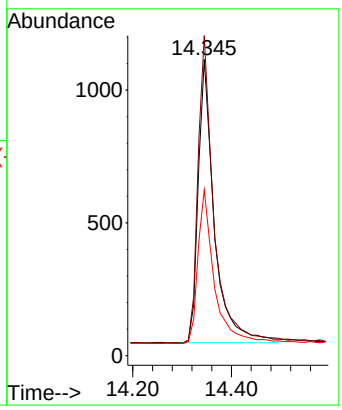


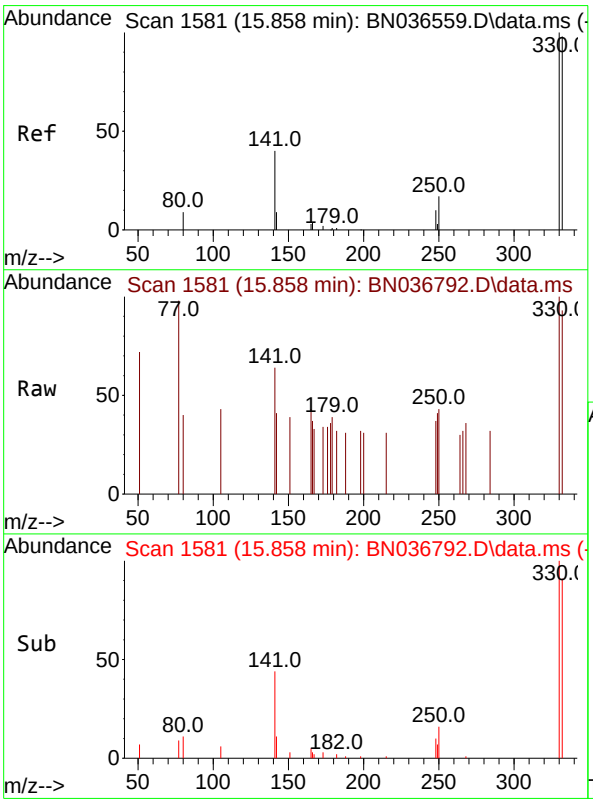

#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.345 min Scan# 14
Delta R.T. -0.021 min
Lab File: BN036792.D
Acq: 29 Mar 2025 03:20

**Instrument :**
BNA_N
**ClientSampleId :**
PB167295BL

Tgt Ion:164 Resp: 2411

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 108.1 | 84.2 | 126.2 |
| 160 | 56.0 | 42.2 | 63.2 |

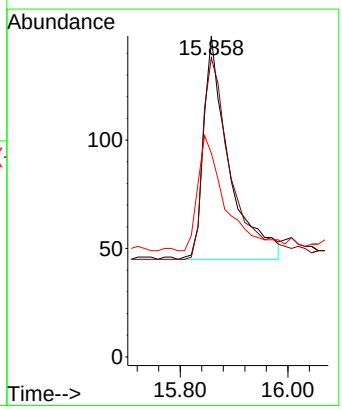


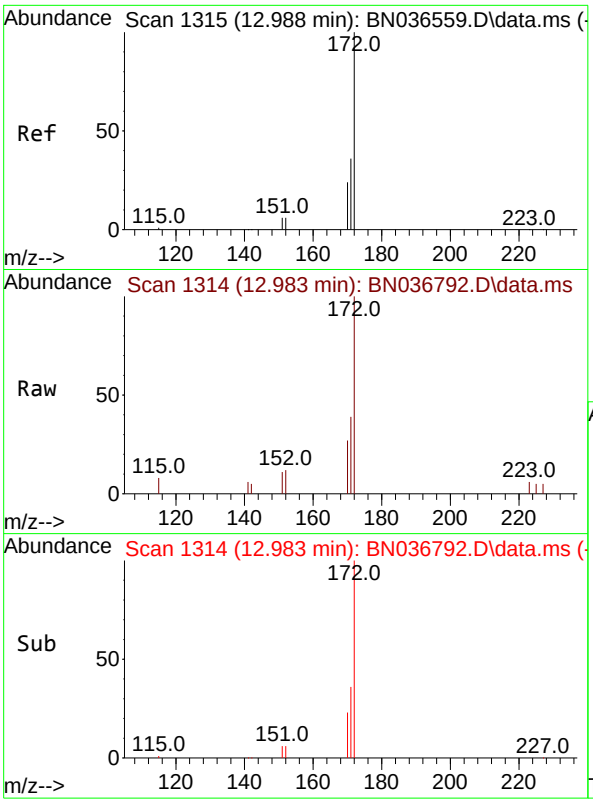




#14
2,4,6-Tribromophenol
Concen: 0.308 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036792.D
Acq: 29 Mar 2025 03:20

Tgt Ion:330 Resp: 337

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 99.1 | 75.2 | 112.8 |
| 141 | 55.5 | 43.4 | 65.2 |



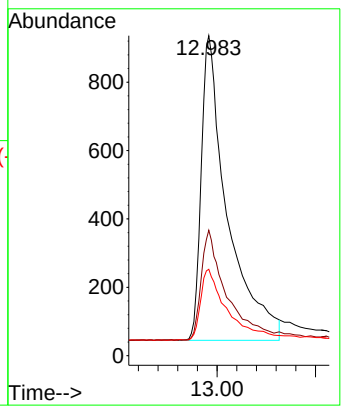


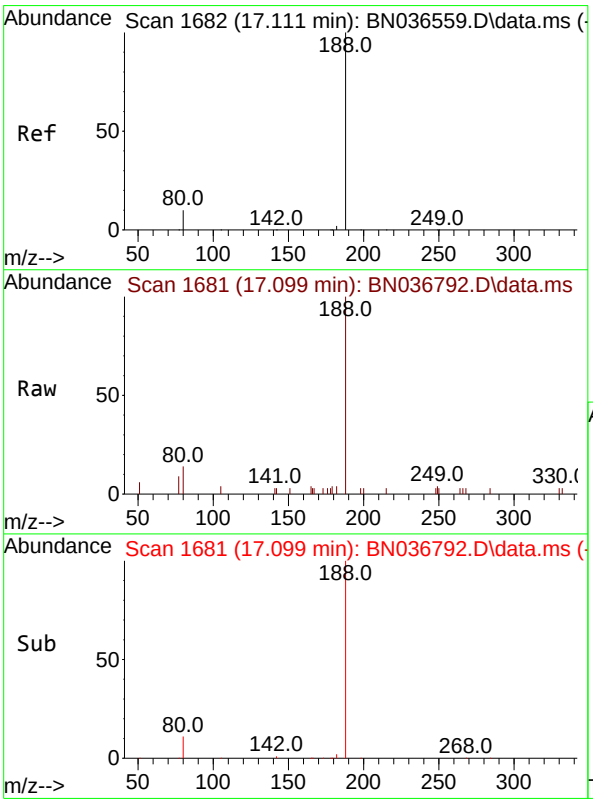

#15
2-Fluorobiphenyl
Concen: 0.266 ng
RT: 12.983 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN036792.D
Acq: 29 Mar 2025 03:20

**Instrument :**
BNA_N
**ClientSampleId :**
PB167295BL

Tgt Ion:172 Resp: 3733

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 39.2 | 29.5 | 44.3 |
| 170 | 27.0 | 20.2 | 30.4 |

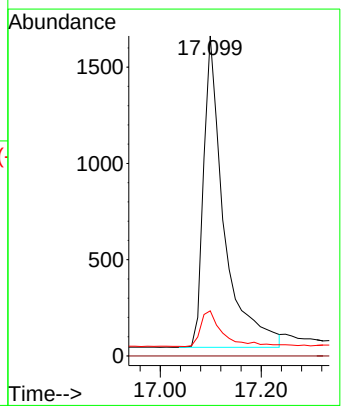


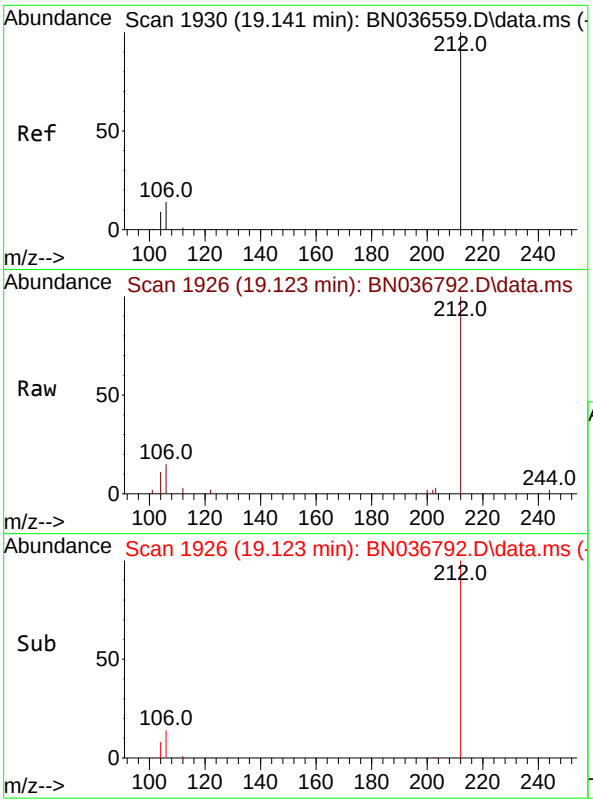




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.099 min Scan# 1681
Delta R.T. -0.012 min
Lab File: BN036792.D
Acq: 29 Mar 2025 03:20

Tgt Ion:188 Resp: 4533

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 14.1 | 8.8 | 13.2# |



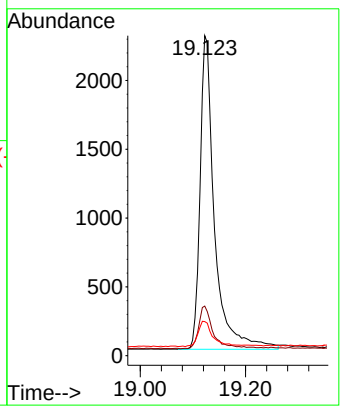


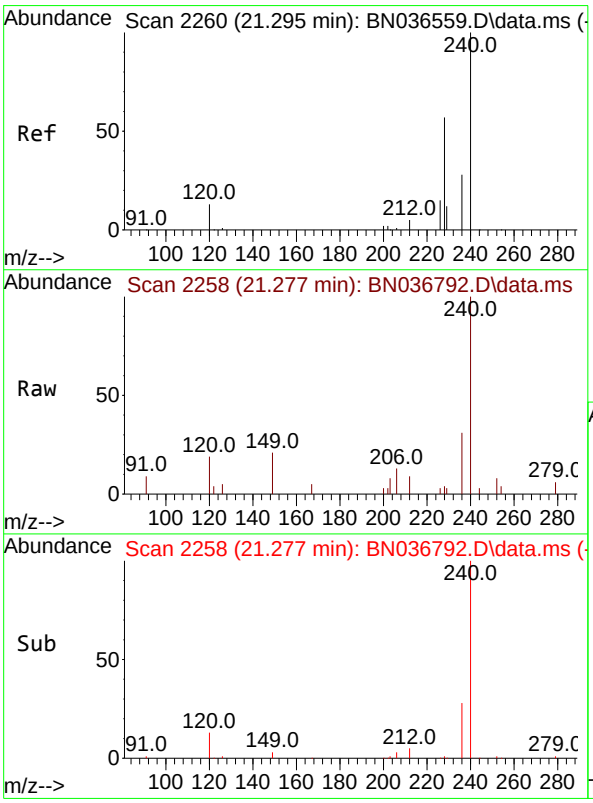

#27
Fluoranthene-d10
Concen: 0.374 ng
RT: 19.123 min Scan# 1
Delta R.T. -0.018 min
Lab File: BN036792.D
Acq: 29 Mar 2025 03:20

**Instrument :**
BNA_N
**ClientSampleId :**
PB167295BL

Tgt Ion:212 Resp: 4345

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 13.7 | 11.8 | 17.6 |
| 104 | 8.2 | 7.3 | 10.9 |

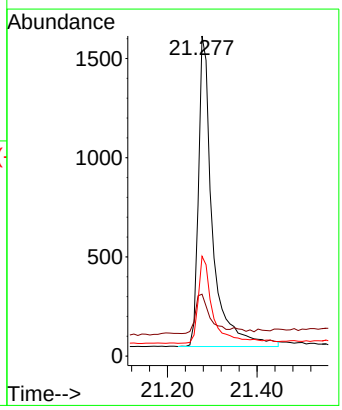


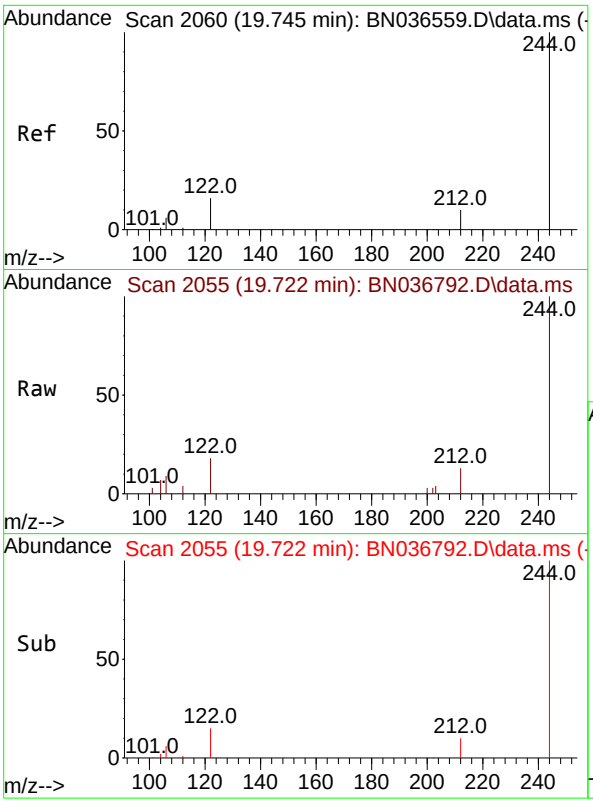




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 2258
Delta R.T. -0.018 min
Lab File: BN036792.D
Acq: 29 Mar 2025 03:20

Tgt Ion:240 Resp: 3414

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 19.3 | 14.6 | 22.0 |
| 236 | 31.2 | 24.1 | 36.1 |



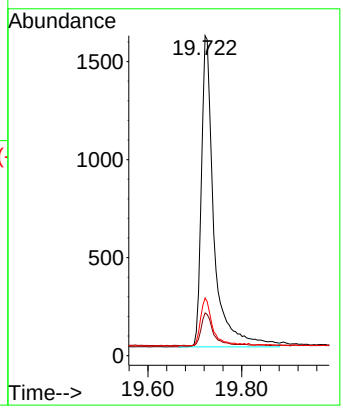


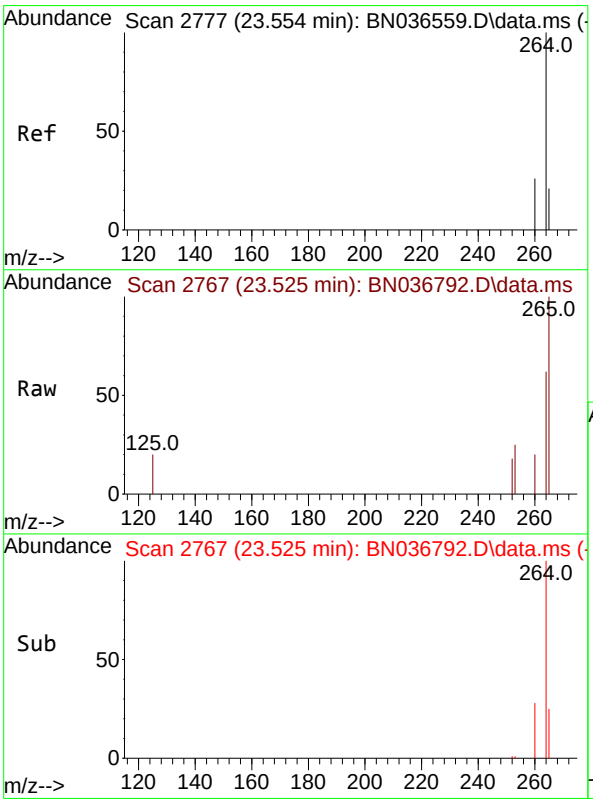

#31
Terphenyl-d14
Concen: 0.362 ng
RT: 19.722 min Scan# 2
Delta R.T. -0.023 min
Lab File: BN036792.D
Acq: 29 Mar 2025 03:20

**Instrument :**
BNA_N
**ClientSampleId :**
PB167295BL

Tgt Ion:244 Resp: 2960

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 13.4 | 9.6 | 14.4 |
| 122 | 18.0 | 13.9 | 20.9 |

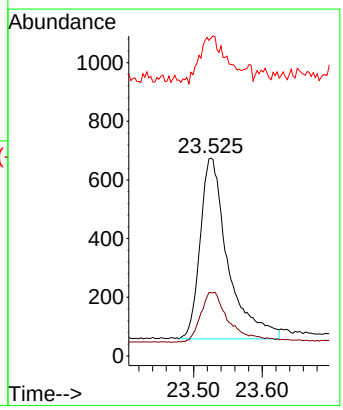



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.525 min Scan# 2767
Delta R.T. -0.029 min
Lab File: BN036792.D
Acq: 29 Mar 2025 03:20

Tgt Ion:264 Resp: 1734

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 32.0 | 22.6 | 33.8 |
| 265 | 160.8 | 88.1 | 132.1# |



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: | PB167295BS | SDG No.: | Q1629 |
| Lab Sample ID: | PB167295BS | 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 |
|---|---|---|---|---|
| BN036804.D | 1 | 03/25/25 08:41 | 03/29/25 10:33 | PB167295 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 123-91-1 | 1,4-Dioxane | 0.32 | | 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 | 0.33 | | 30 - 150 | | 83% | SPK: 0.4 |
| 4165-60-0 | Nitrobenzene-d5 | 0.31 | | 55 - 111 | | 77% | SPK: 0.4 |
| 321-60-8 | 2-Fluorobiphenyl | 0.33 | | 53 - 106 | | 82% | SPK: 0.4 |
| 1718-51-0 | Terphenyl-d14 | 0.37 | | 58 - 132 | | 91% | SPK: 0.4 |
| **INTERNAL STANDARDS** | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 1790 | 7.696 | | | | |
| 1146-65-2 | Naphthalene-d8 | 4260 | 10.477 | | | | |
| 15067-26-2 | Acenaphthene-d10 | 2360 | 14.334 | | | | |
| 1517-22-2 | Phenanthrene-d10 | 4800 | 17.087 | | | | |
| 1719-03-5 | Chrysene-d12 | 3160 | 21.277 | | | | |
| 1520-96-3 | Perylene-d12 | 2660 | 23.516 | | | | |

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\BN032825\
Data File : BN036804.D
Acq On : 29 Mar 2025 10:33
Operator : RC/JU
Sample : PB167295BS
Misc :
ALS Vial : 35 Sample Multiplier: 1

Quant Time: Mar 31 02:00:08 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

**Instrument :**
BNA_N
**ClientSampleId :**
PB167295BS

**Manual Integrations APPROVED**
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.696 | 152 | 1794 | 0.400 | ng | -0.03 |
| 7) Naphthalene-d8 | 10.477 | 136 | 4263 | 0.400 | ng | -0.03 |
| 13) Acenaphthene-d10 | 14.334 | 164 | 2364 | 0.400 | ng | -0.03 |
| 19) Phenanthrene-d10 | 17.087 | 188 | 4802 | 0.400 | ng | -0.02 |
| 29) Chrysene-d12 | 21.277 | 240 | 3163 | 0.400 | ng | #-0.02 |
| 35) Perylene-d12 | 23.516 | 264 | 2660 | 0.400 | ng | -0.04 |
| **System Monitoring Compounds** | | | | | | |
| 4) 2-Fluorophenol | 5.291 | 112 | 1499 | 0.359 | ng | -0.02 |
| 5) Phenol-d6 | 6.872 | 99 | 1778 | 0.344 | ng | -0.03 |
| 8) Nitrobenzene-d5 | 8.843 | 82 | 1438 | 0.310 | ng | -0.03 |
| 11) 2-Methylnaphthalene-d10 | 12.075 | 152 | 2355m | 0.371 | ng | -0.04 |
| 14) 2,4,6-Tribromophenol | 15.833 | 330 | 302 | 0.282 | ng | -0.02 |
| 15) 2-Fluorobiphenyl | 12.958 | 172 | 4528 | 0.329 | ng | -0.03 |
| 27) Fluoranthene-d10 | 19.118 | 212 | 4058 | 0.330 | ng | -0.02 |
| 31) Terphenyl-d14 | 19.722 | 244 | 2773 | 0.366 | ng | -0.02 |
| **Target Compounds** | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.225 | 88 | 629 | 0.316 | ng | # 7 |
| 3) n-Nitrosodimethylamine | 3.536 | 42 | 1653 | 0.411 | ng | # 92 |
| 6) bis(2-Chloroethyl)ether | 7.125 | 93 | 1798 | 0.337 | ng | 97 |
| 9) Naphthalene | 10.530 | 128 | 4418 | 0.352 | ng | 98 |
| 10) Hexachlorobutadiene | 10.819 | 225 | 1110 | 0.376 | ng | # 97 |
| 12) 2-Methylnaphthalene | 12.151 | 142 | 2851 | 0.357 | ng | 99 |
| 16) Acenaphthylene | 14.056 | 152 | 4291 | 0.385 | ng | 99 |
| 17) Acenaphthene | 14.398 | 154 | 2758 | 0.378 | ng | 99 |
| 18) Fluorene | 15.393 | 166 | 3648 | 0.369 | ng | 99 |
| 20) 4,6-Dinitro-2-methylph... | 15.478 | 198 | 341 | 0.424 | ng | 89 |
| 21) 4-Bromophenyl-phenylether | 16.280 | 248 | 1132 | 0.376 | ng | 98 |
| 22) Hexachlorobenzene | 16.391 | 284 | 1372 | 0.378 | ng | 97 |
| 23) Atrazine | 16.565 | 200 | 980 | 0.406 | ng | 95 |
| 24) Pentachlorophenol | 16.739 | 266 | 579 | 0.350 | ng | 97 |
| 25) Phenanthrene | 17.124 | 178 | 5643 | 0.392 | ng | 99 |
| 26) Anthracene | 17.223 | 178 | 5086 | 0.391 | ng | 99 |
| 28) Fluoranthene | 19.146 | 202 | 6015 | 0.372 | ng | 98 |
| 30) Pyrene | 19.513 | 202 | 6044 | 0.391 | ng | 100 |
| 32) Benzo(a)anthracene | 21.259 | 228 | 3999 | 0.364 | ng | 99 |
| 33) Chrysene | 21.313 | 228 | 4976 | 0.414 | ng | 99 |
| 34) Bis(2-ethylhexyl)phtha... | 21.196 | 149 | 2833 | 0.362 | ng | 99 |
| 36) Indeno(1,2,3-cd)pyrene | 25.782 | 276 | 3938 | 0.410 | ng | 95 |
| 37) Benzo(b)fluoranthene | 22.841 | 252 | 3780 | 0.390 | ng | 95 |
| 38) Benzo(k)fluoranthene | 22.885 | 252 | 4216 | 0.415 | ng | 96 |
| 39) Benzo(a)pyrene | 23.420 | 252 | 3467 | 0.425 | ng | # 94 |
| 40) Dibenzo(a,h)anthracene | 25.809 | 278 | 2985 | 0.399 | ng | 94 |
| 41) Benzo(g,h,i)perylene | 26.469 | 276 | 3297 | 0.386 | ng | 98 |

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

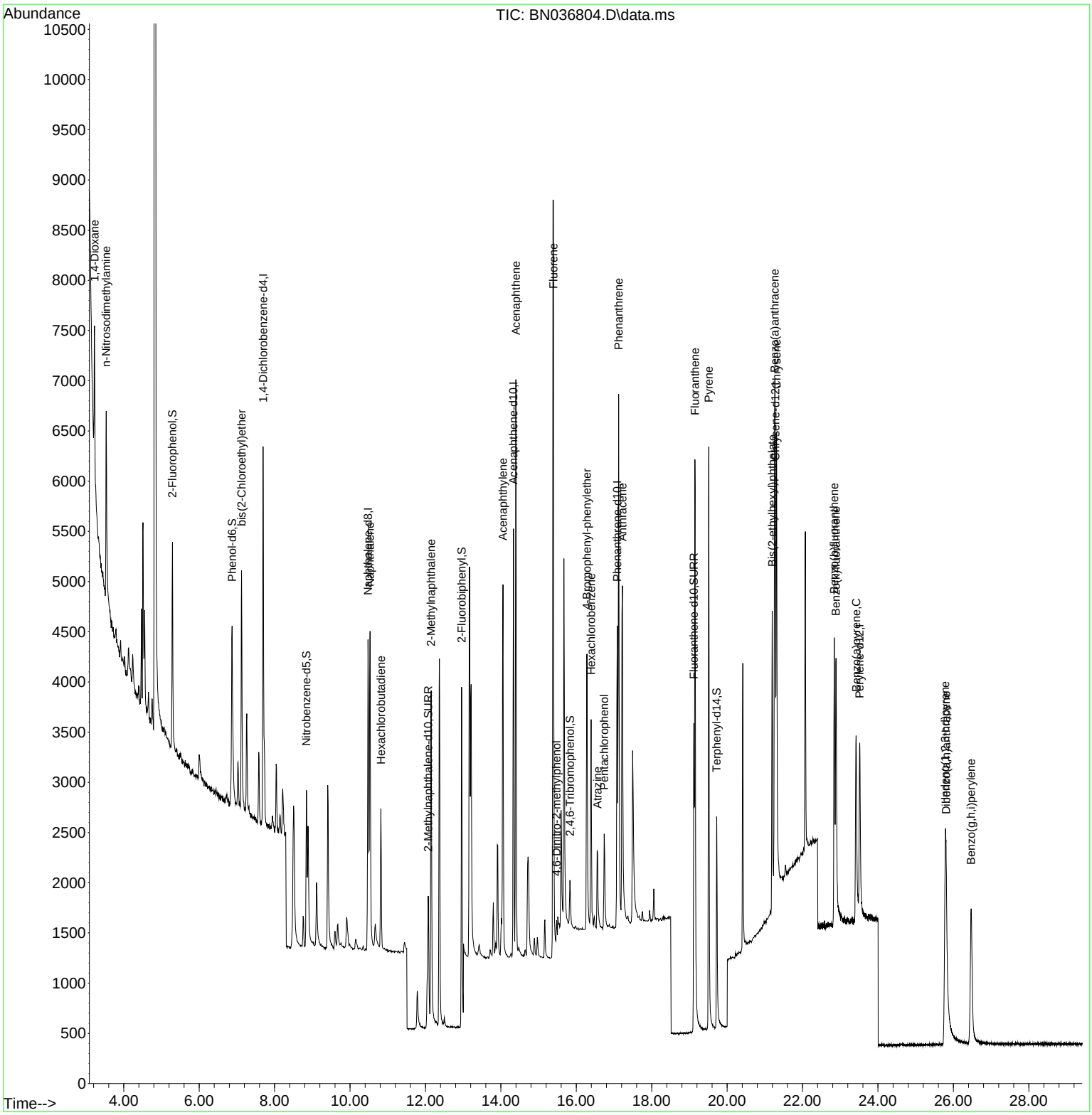
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032825\
Data File : BN036804.D
Acq On : 29 Mar 2025 10:33
Operator : RC/JU
Sample : PB167295BS
Misc :
ALS Vial : 35 Sample Multiplier: 1

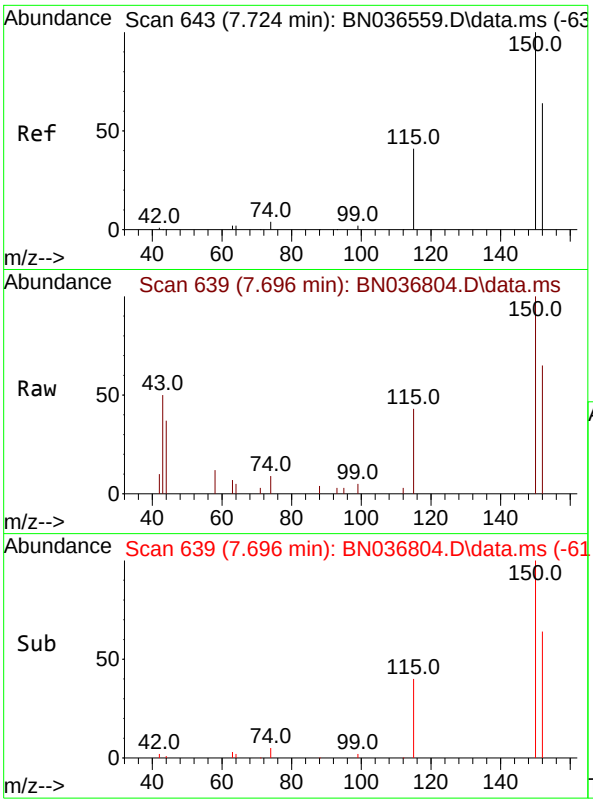
Quant Time: Mar 31 02:00:08 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

**Instrument :**
BNA_N
**ClientSampleId :**
PB167295BS

**Manual Integrations APPROVED**

Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

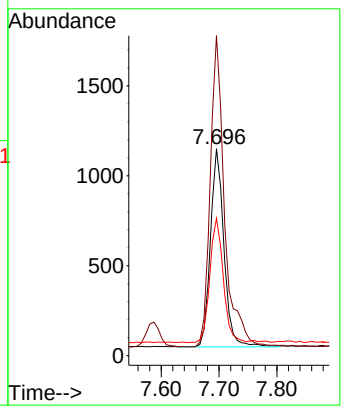





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.696 min Scan# 6
Delta R.T. -0.028 min
Lab File: BN036804.D
Acq: 29 Mar 2025 10:33

Tgt Ion:152 Resp: 179

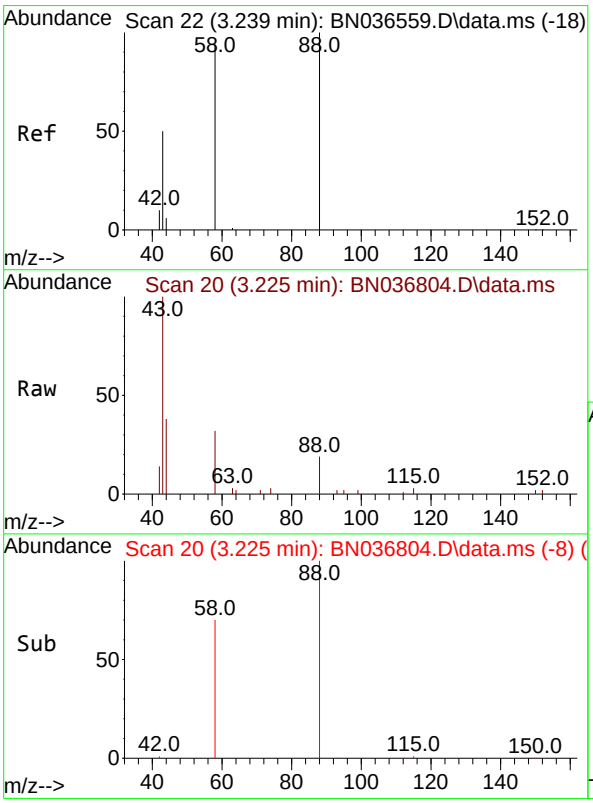
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 154.7 | 123.7 | 185.5 |
| 115 | 66.4 | 54.3 | 81.5 |




**Instrument :**
BNA_N
**ClientSampleId :**
PB167295BS

**Manual Integrations**
**APPROVED**

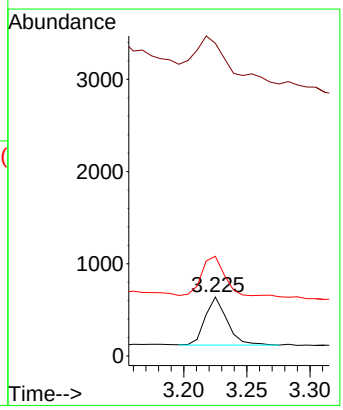
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

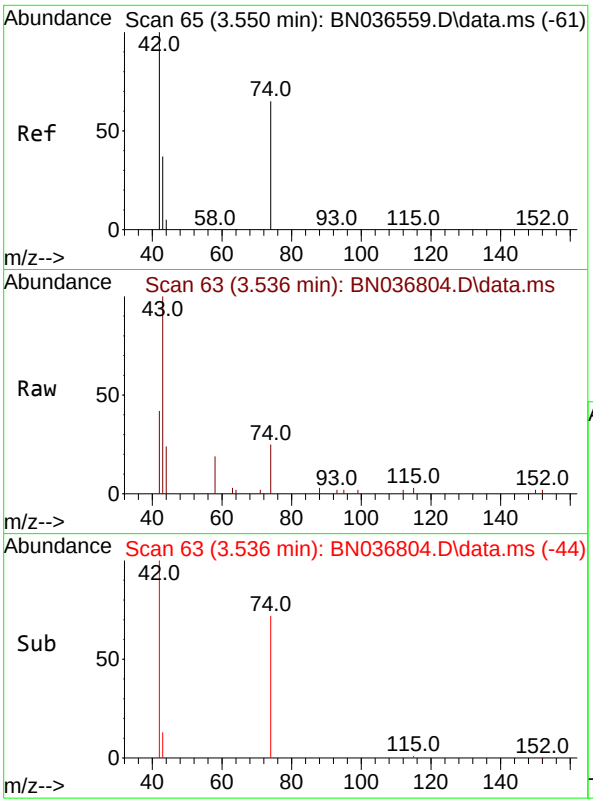



#2
1,4-Dioxane
Concen: 0.316 ng
RT: 3.225 min Scan# 20
Delta R.T. -0.014 min
Lab File: BN036804.D
Acq: 29 Mar 2025 10:33

Tgt Ion: 88 Resp: 629

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 186.6 | 37.8 | 56.8# |
| 58 | 110.0 | 67.4 | 101.2# |

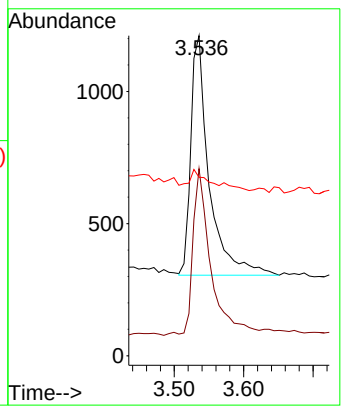





#3
n-Nitrosodimethylamine
Concen: 0.411 ng
RT: 3.536 min Scan# 6
Delta R.T. -0.014 min
Lab File: BN036804.D
Acq: 29 Mar 2025 10:33

Tgt Ion: 42 Resp: 165

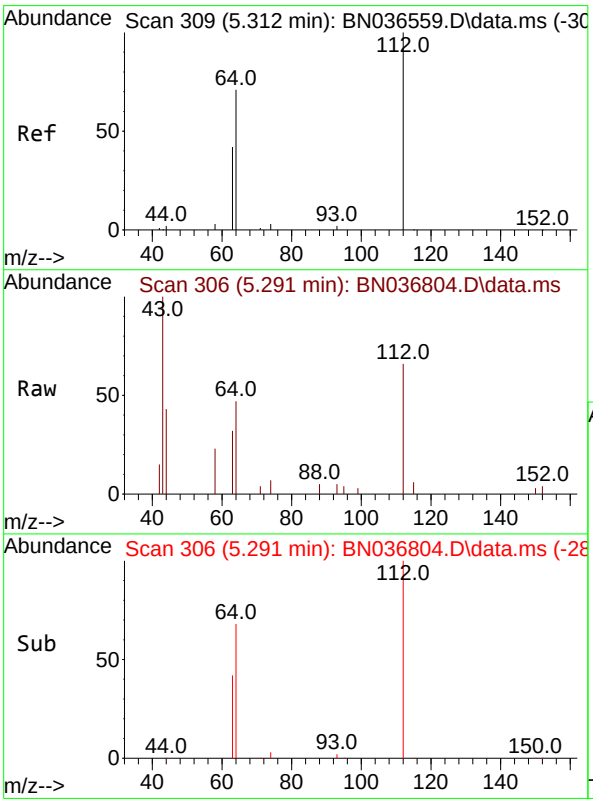
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 68.4 | 60.6 | 90.8 |
| 44 | 10.3 | 6.3 | 9.5 |




**Instrument :**
BNA_N
**ClientSampleId :**
PB167295BS

**Manual Integrations**
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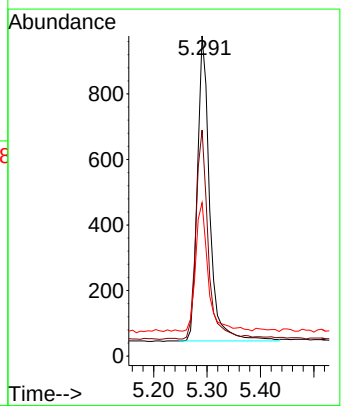
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

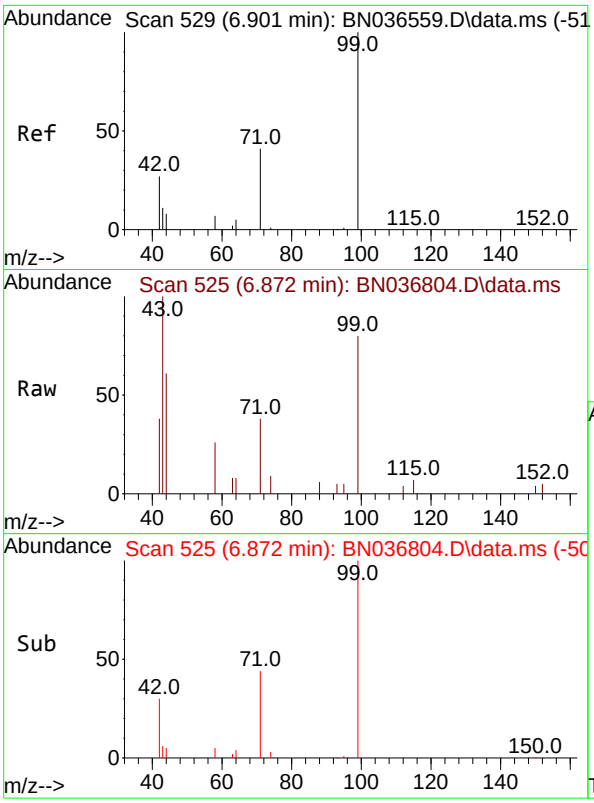



#4
2-Fluorophenol
Concen: 0.359 ng
RT: 5.291 min Scan# 306
Delta R.T. -0.022 min
Lab File: BN036804.D
Acq: 29 Mar 2025 10:33

Tgt Ion:112 Resp: 1499

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 67.2 | 53.1 | 79.7 |
| 63 | 43.8 | 31.8 | 47.8 |

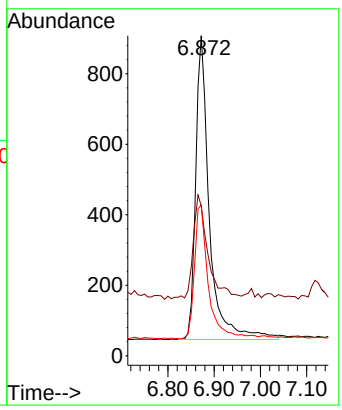





#5
Phenol-d6
Concen: 0.344 ng
RT: 6.872 min Scan# 5
Delta R.T. -0.029 min
Lab File: BN036804.D
Acq: 29 Mar 2025 10:33

Tgt Ion: 99 Resp: 177

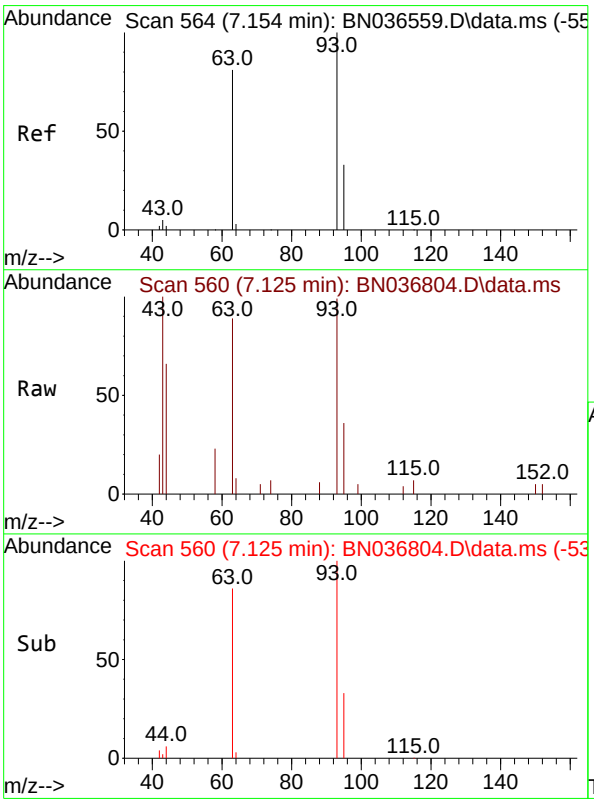
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 36.5 | 26.5 | 39.7 |
| 71 | 44.9 | 34.1 | 51.1 |




**Instrument :**
BNA_N
**ClientSampleId :**
PB167295BS

**Manual Integrations**
**APPROVED**

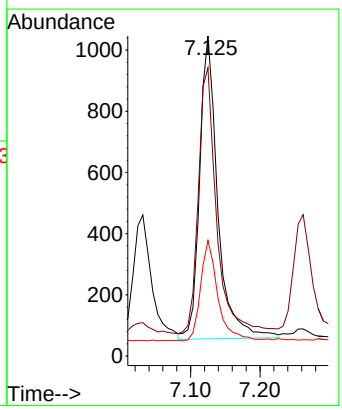
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

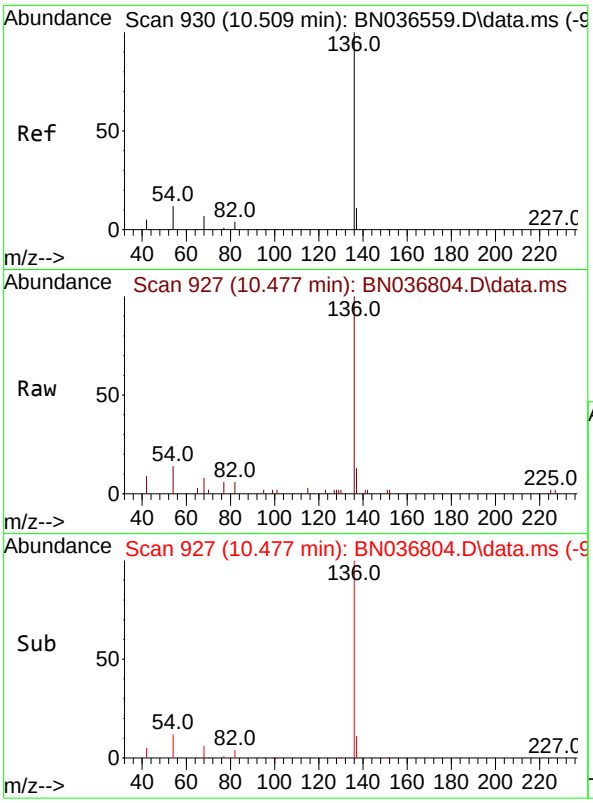



#6
bis(2-Chloroethyl)ether
Concen: 0.337 ng
RT: 7.125 min Scan# 560
Delta R.T. -0.029 min
Lab File: BN036804.D
Acq: 29 Mar 2025 10:33

Tgt Ion: 93 Resp: 1798

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 88.0 | 67.7 | 101.5 |
| 95 | 31.4 | 25.6 | 38.4 |

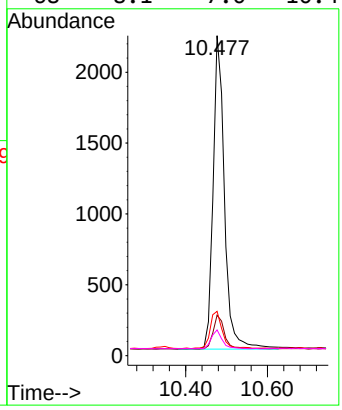





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.477 min Scan# 9
Delta R.T. -0.032 min
Lab File: BN036804.D
Acq: 29 Mar 2025 10:33

Tgt Ion:136 Resp: 426

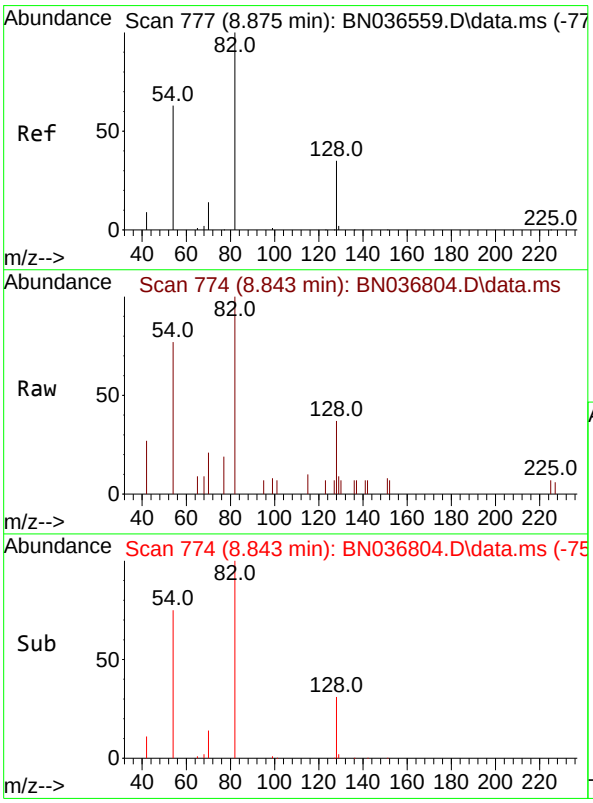
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 12.7 | 10.3 | 15.5 |
| 54 | 13.9 | 11.5 | 17.3 |
| 68 | 8.1 | 7.0 | 10.4 |




**Instrument :**
BNA_N
**ClientSampleId :**
PB167295BS

**Manual Integrations**
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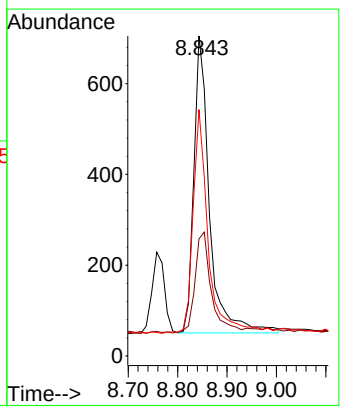
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

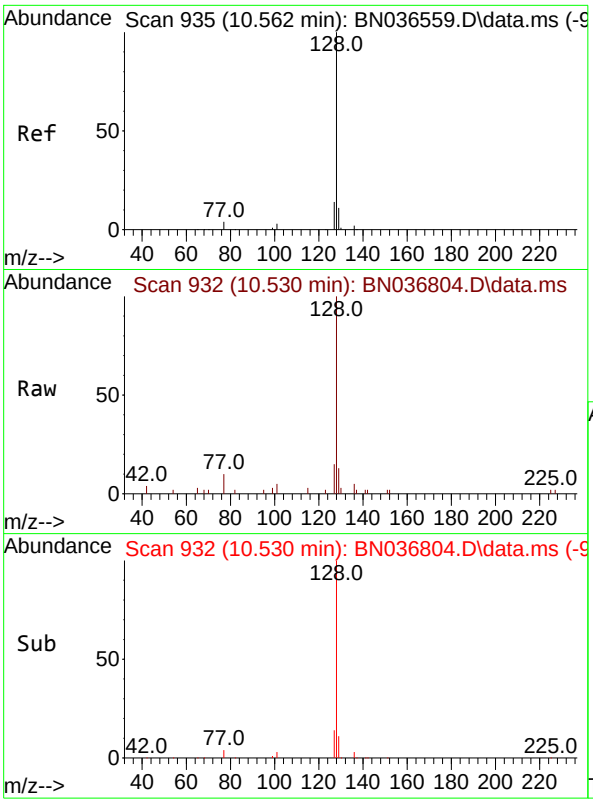



#8
Nitrobenzene-d5
Concen: 0.310 ng
RT: 8.843 min Scan# 774
Delta R.T. -0.032 min
Lab File: BN036804.D
Acq: 29 Mar 2025 10:33

Tgt Ion: 82 Resp: 1438

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 36.6 | 30.6 | 45.8 |
| 54 | 77.0 | 52.2 | 78.4 |

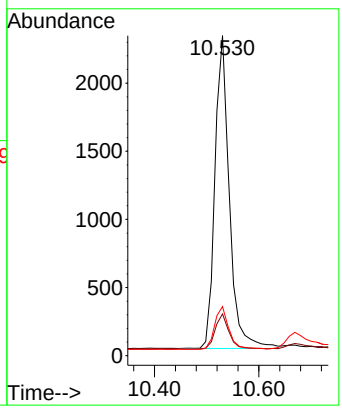





#9
Naphthalene
Concen: 0.352 ng
RT: 10.530 min Scan# 9
Delta R.T. -0.032 min
Lab File: BN036804.D
Acq: 29 Mar 2025 10:33

Tgt Ion:128 Resp: 441

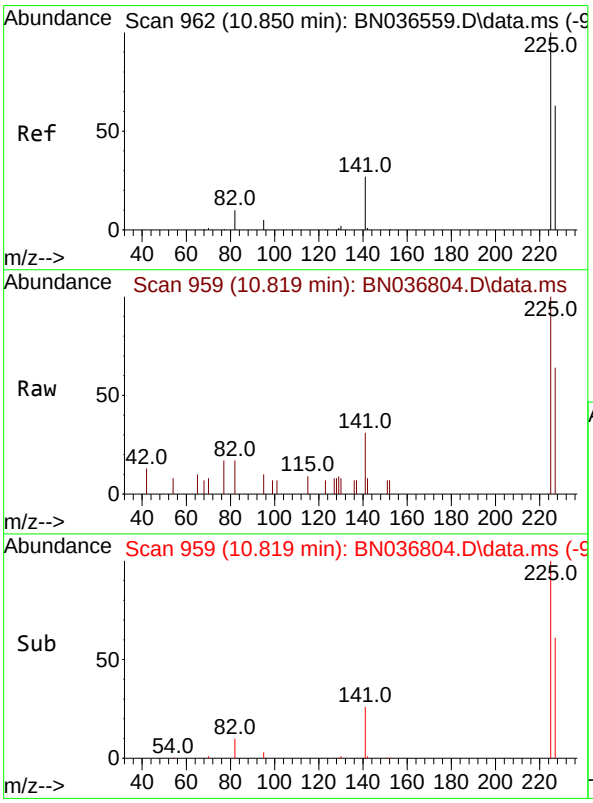
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 13.1 | 9.8 | 14.6 |
| 127 | 15.4 | 11.8 | 17.8 |




**Instrument :**
BNA_N
**ClientSampleId :**
PB167295BS

**Manual Integrations**
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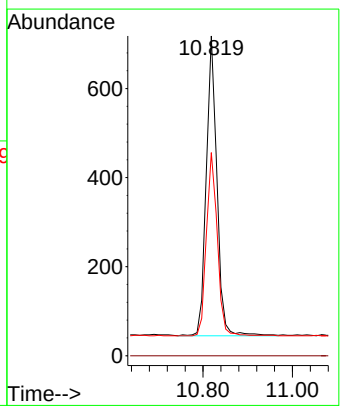
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

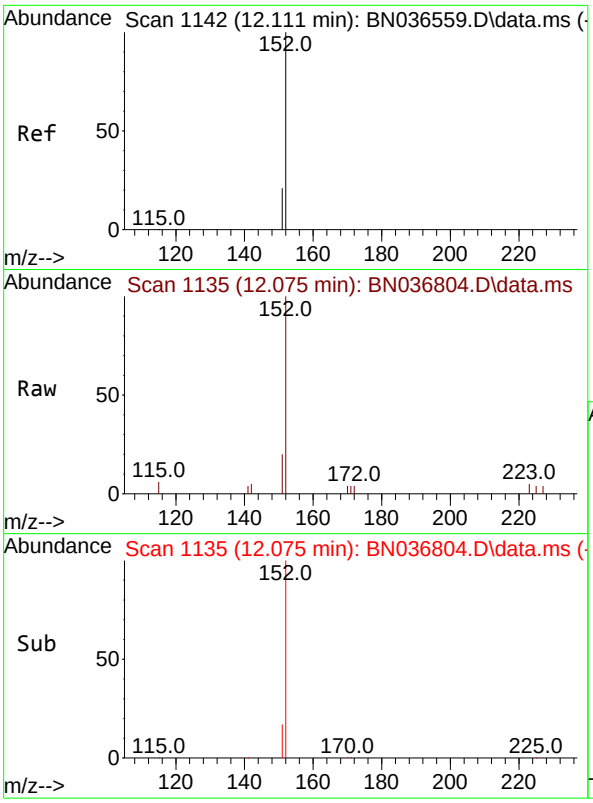



#10
Hexachlorobutadiene
Concen: 0.376 ng
RT: 10.819 min Scan# 959
Delta R.T. -0.032 min
Lab File: BN036804.D
Acq: 29 Mar 2025 10:33

Tgt Ion:225 Resp: 1110

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 0.0 | 0.0 | 0.0 |
| 227 | 62.3 | 51.8 | 77.8 |






#11
2-Methylnaphthalene-d10
Concen: 0.371 ng m
RT: 12.075 min Scan# 1
Delta R.T. -0.035 min
Lab File: BN036804.D
Acq: 29 Mar 2025 10:33

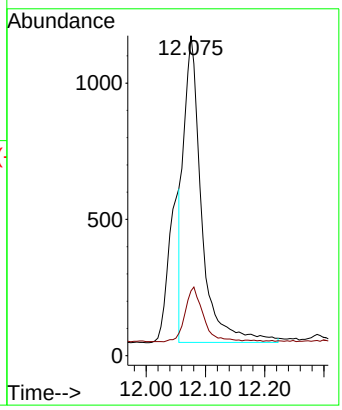
Tgt Ion:152 Resp: 235

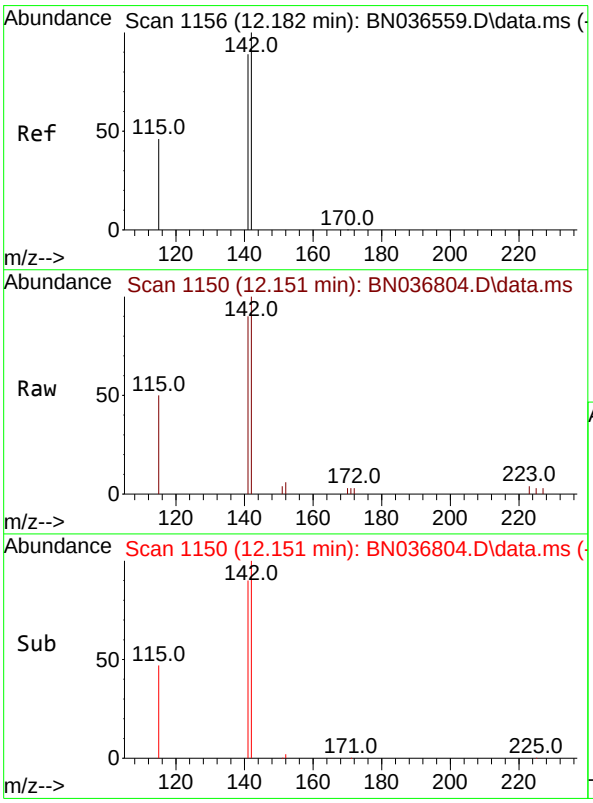
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 18.3 | 17.0 | 25.6 |

**Instrument :**
BNA_N
**ClientSampleId :**
PB167295BS

**Manual Integrations**
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Supervised By :Jagrut Upadhyay 03/31/2025

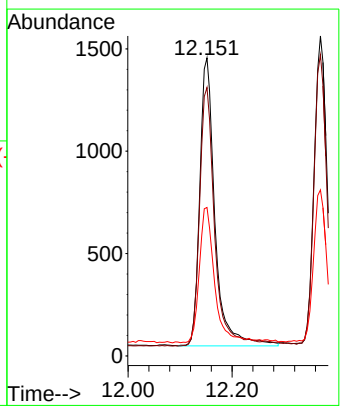


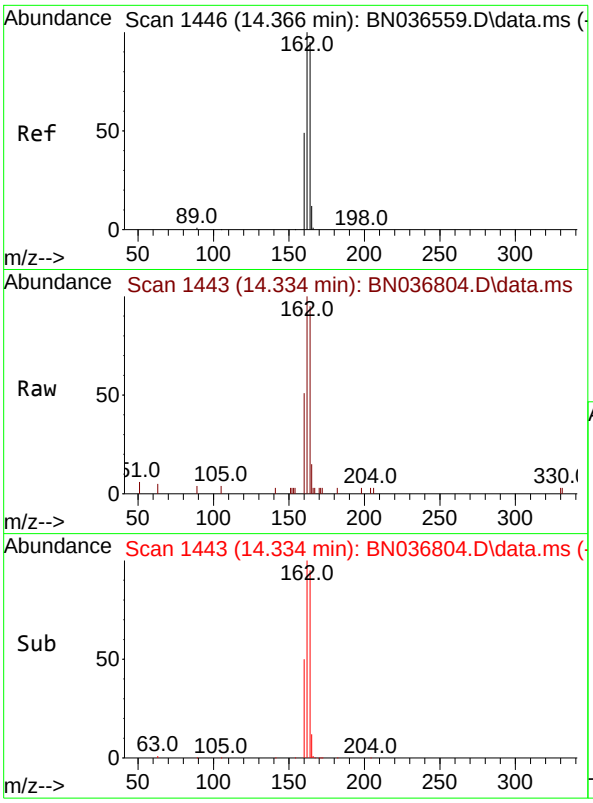




#12
2-Methylnaphthalene
Concen: 0.357 ng
RT: 12.151 min Scan# 1150
Delta R.T. -0.030 min
Lab File: BN036804.D
Acq: 29 Mar 2025 10:33

Tgt Ion:142 Resp: 2851

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 90.0 | 71.7 | 107.5 |
| 115 | 49.8 | 38.3 | 57.5 |






#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.334 min Scan# 14
Delta R.T. -0.032 min
Lab File: BN036804.D
Acq: 29 Mar 2025 10:33

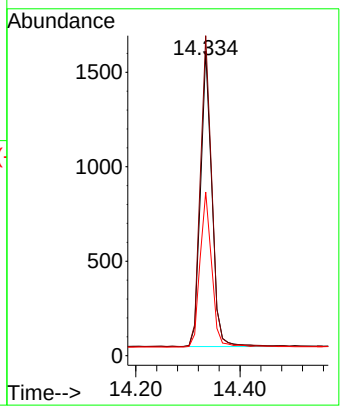
Tgt Ion:164 Resp: 236

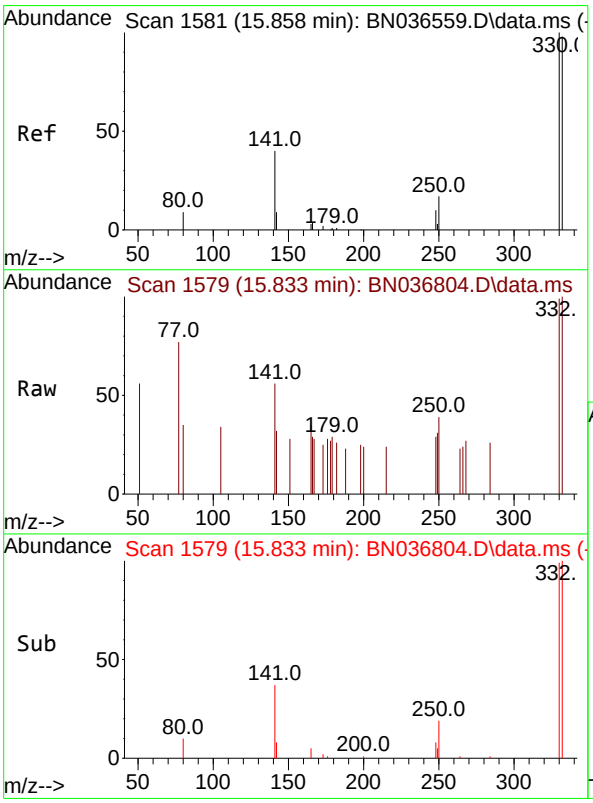
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 105.1 | 84.2 | 126.2 |
| 160 | 53.7 | 42.2 | 63.2 |

**Instrument :**
BNA_N
**ClientSampleId :**
PB167295BS

**Manual Integrations**
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Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

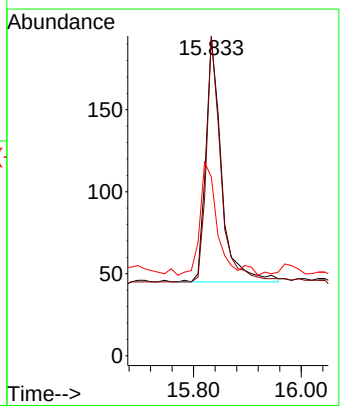


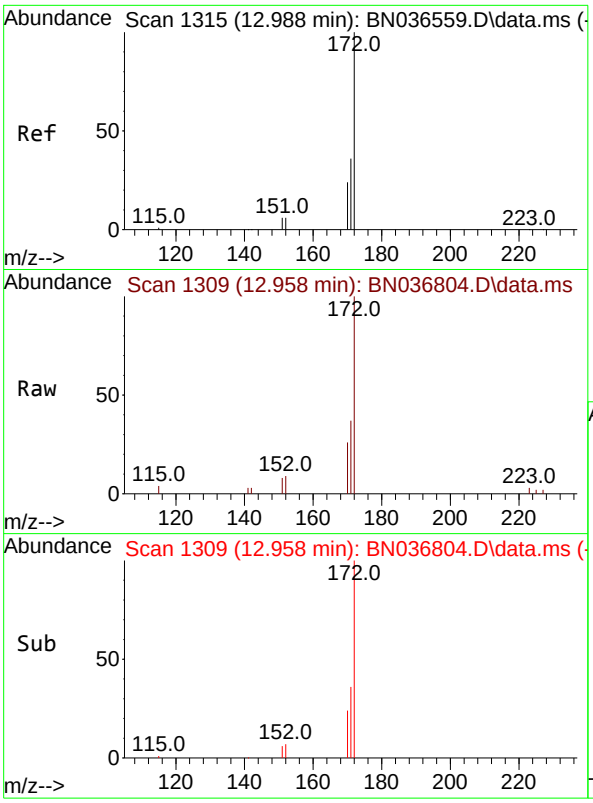




#14
2,4,6-Tribromophenol
Concen: 0.282 ng
RT: 15.833 min Scan# 1579
Delta R.T. -0.025 min
Lab File: BN036804.D
Acq: 29 Mar 2025 10:33

Tgt Ion:330 Resp: 302

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 93.0 | 75.2 | 112.8 |
| 141 | 52.6 | 43.4 | 65.2 |

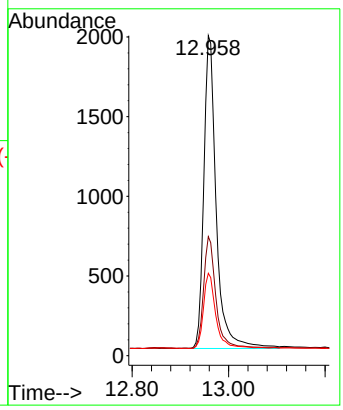





#15
2-Fluorobiphenyl
Concen: 0.329 ng
RT: 12.958 min Scan# 1
Delta R.T. -0.030 min
Lab File: BN036804.D
Acq: 29 Mar 2025 10:33

Tgt Ion:172 Resp: 452

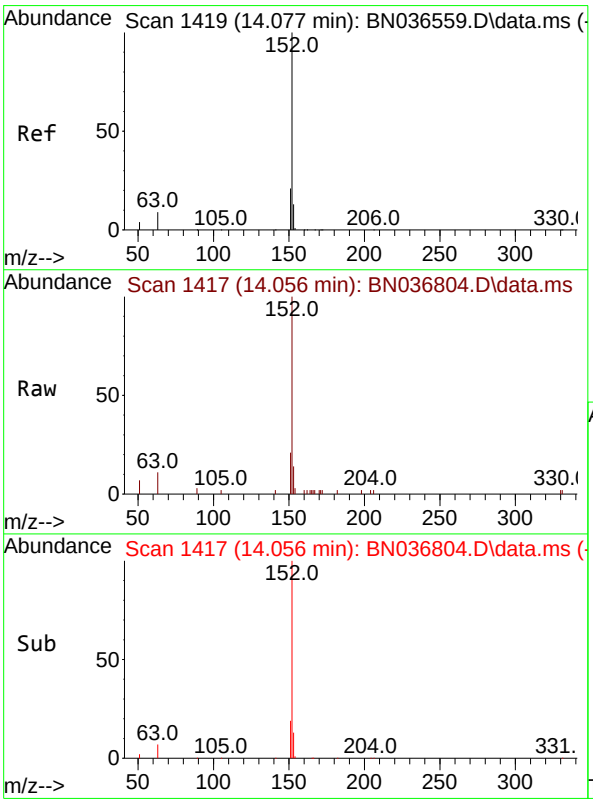
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 37.2 | 29.5 | 44.3 |
| 170 | 25.7 | 20.2 | 30.4 |




**Instrument :**
BNA_N
**ClientSampleId :**
PB167295BS

**Manual Integrations**
**APPROVED**

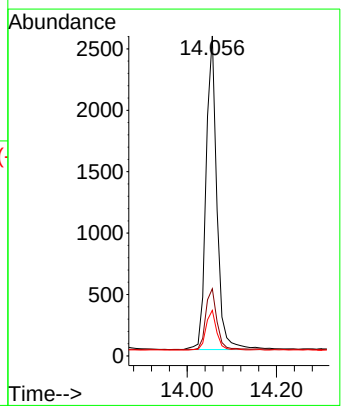
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

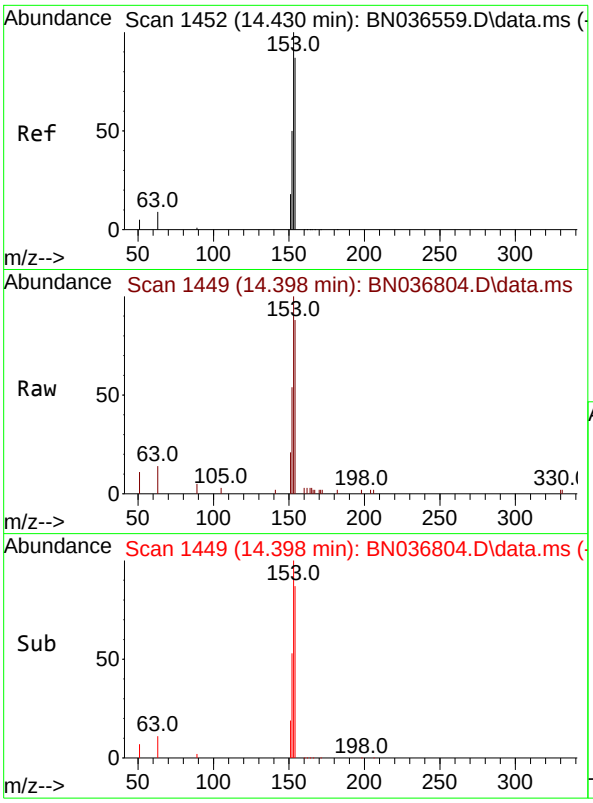



#16
Acenaphthylene
Concen: 0.385 ng
RT: 14.056 min Scan# 1417
Delta R.T. -0.021 min
Lab File: BN036804.D
Acq: 29 Mar 2025 10:33

Tgt Ion:152 Resp: 4291

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 19.9 | 16.2 | 24.4 |
| 153 | 12.6 | 10.6 | 15.8 |

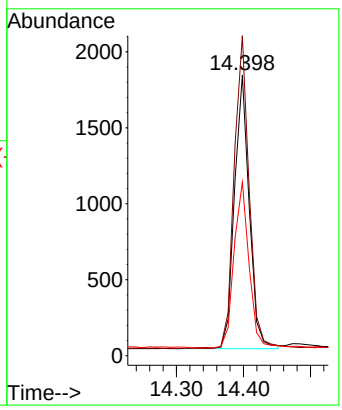





#17
Acenaphthene
Concen: 0.378 ng
RT: 14.398 min Scan# 14
Delta R.T. -0.032 min
Lab File: BN036804.D
Acq: 29 Mar 2025 10:33

Tgt Ion:154 Resp: 275

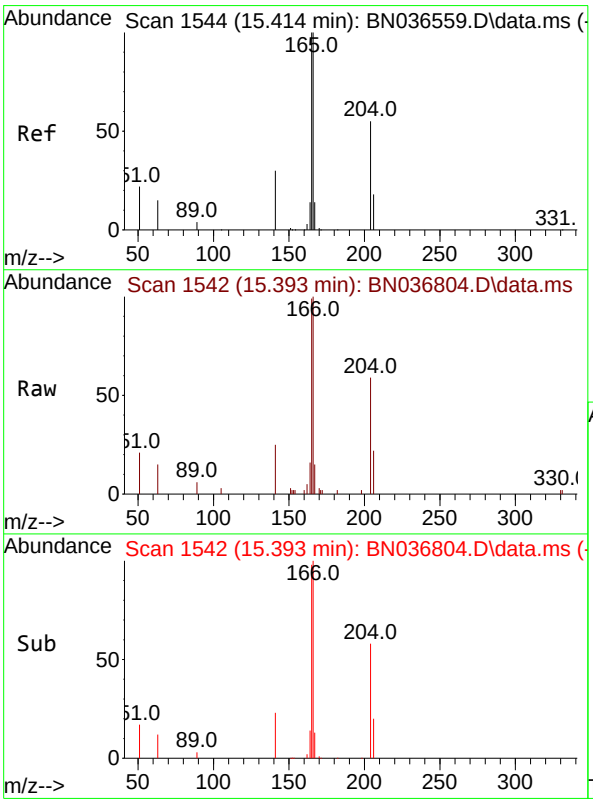
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 116.4 | 94.1 | 141.1 |
| 152 | 62.4 | 49.8 | 74.6 |




**Instrument :**
BNA_N
**ClientSampleId :**
PB167295BS

**Manual Integrations**
**APPROVED**

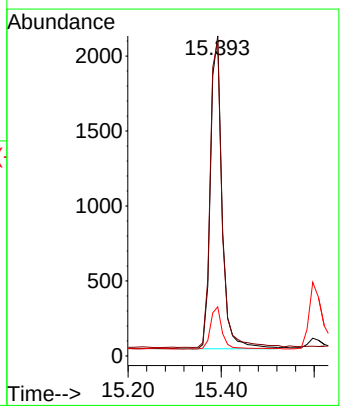
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

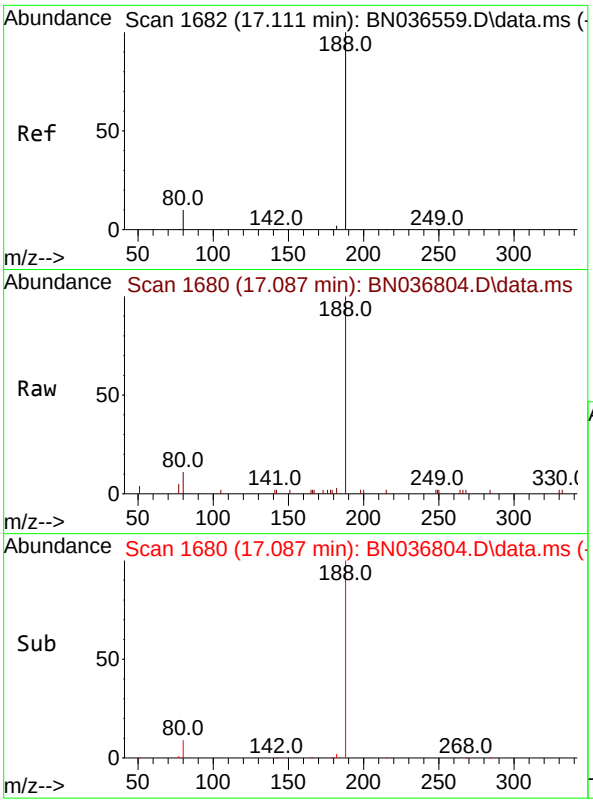



#18
Fluorene
Concen: 0.369 ng
RT: 15.393 min Scan# 1542
Delta R.T. -0.021 min
Lab File: BN036804.D
Acq: 29 Mar 2025 10:33

Tgt Ion:166 Resp: 3648

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 101.1 | 79.8 | 119.8 |
| 167 | 14.0 | 10.6 | 15.8 |

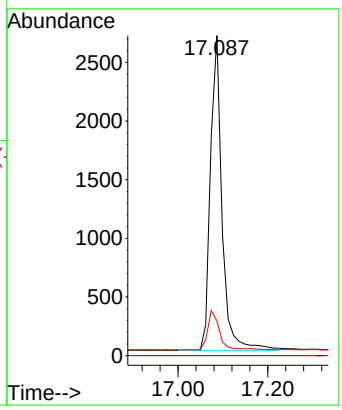





#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.087 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036804.D
Acq: 29 Mar 2025 10:33

Tgt Ion:188 Resp: 480

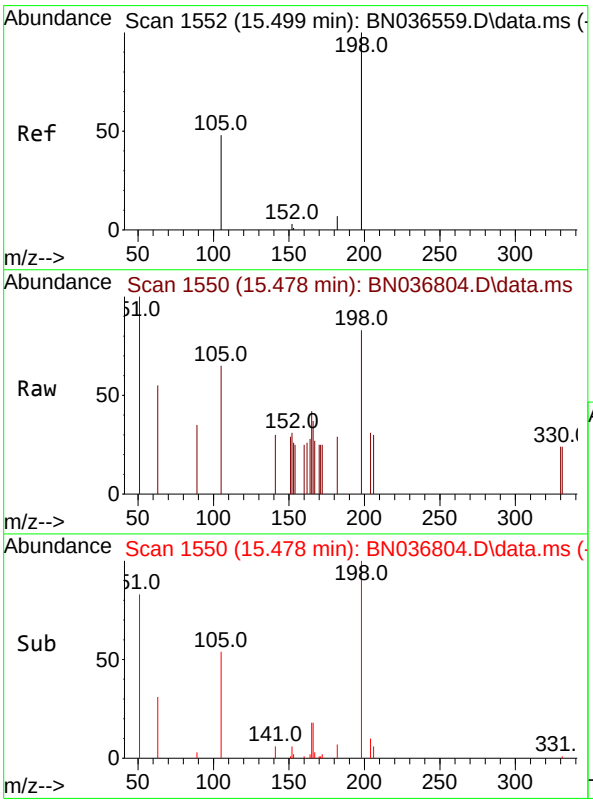
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 10.9 | 8.8 | 13.2 |




**Instrument :**
BNA_N
**ClientSampleId :**
PB167295BS

**Manual Integrations**
**APPROVED**

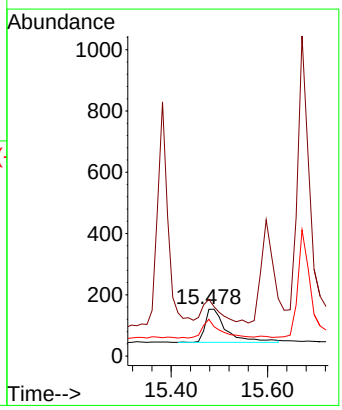
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

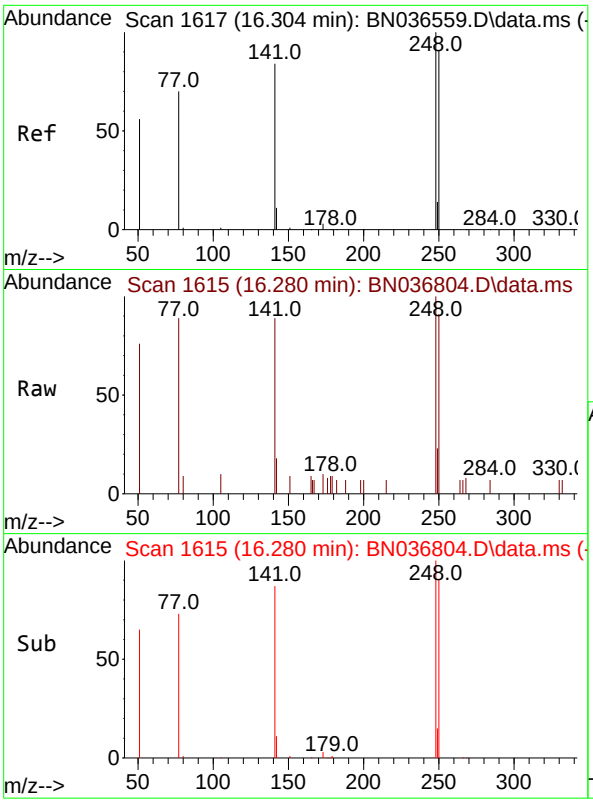



#20
4,6-Dinitro-2-methylphenol
Concen: 0.424 ng
RT: 15.478 min Scan# 1550
Delta R.T. -0.021 min
Lab File: BN036804.D
Acq: 29 Mar 2025 10:33

Tgt Ion:198 Resp: 341

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 198 | 100 | | |
| 51 | 120.9 | 107.9 | 161.9 |
| 105 | 78.4 | 56.2 | 84.2 |

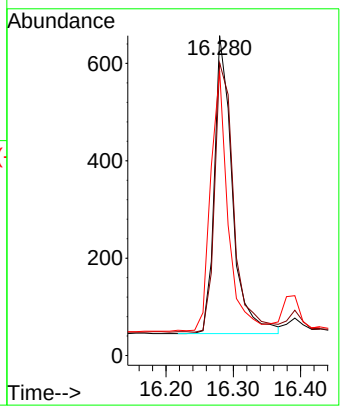





#21
4-Bromophenyl-phenylether
Concen: 0.376 ng
RT: 16.280 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036804.D
Acq: 29 Mar 2025 10:33

Tgt Ion:248 Resp: 113

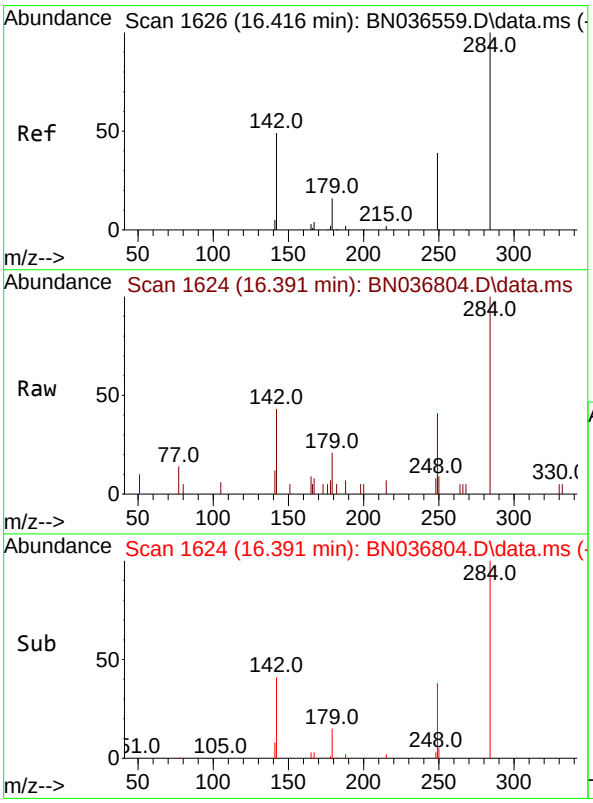
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 91.5 | 73.0 | 109.6 |
| 141 | 89.0 | 68.6 | 103.0 |




**Instrument :**
BNA_N
**ClientSampleId :**
PB167295BS

**Manual Integrations**
**APPROVED**

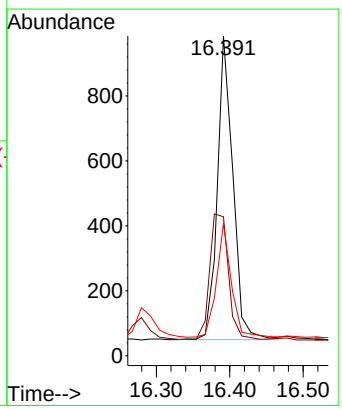
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

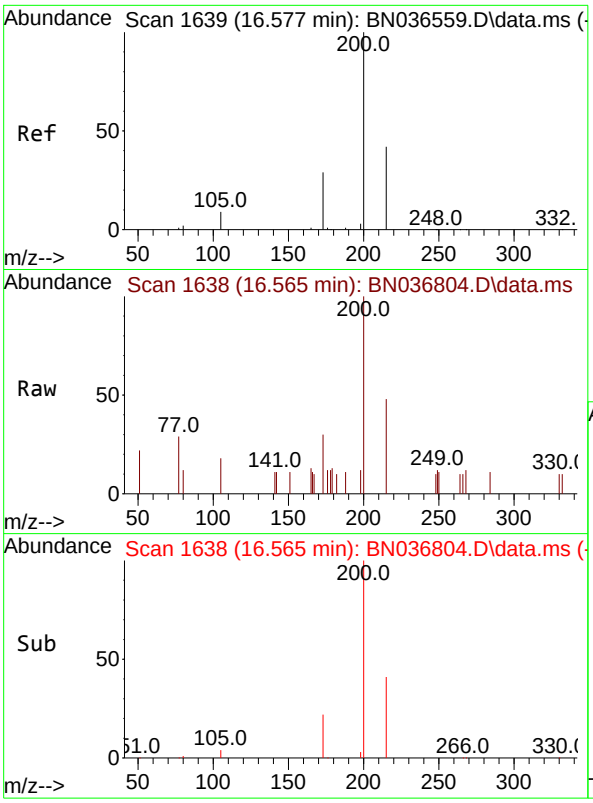



#22
Hexachlorobenzene
Concen: 0.378 ng
RT: 16.391 min Scan# 1624
Delta R.T. -0.025 min
Lab File: BN036804.D
Acq: 29 Mar 2025 10:33

Tgt Ion:284 Resp: 1372

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 49.3 | 37.0 | 55.4 |
| 249 | 36.2 | 28.1 | 42.1 |

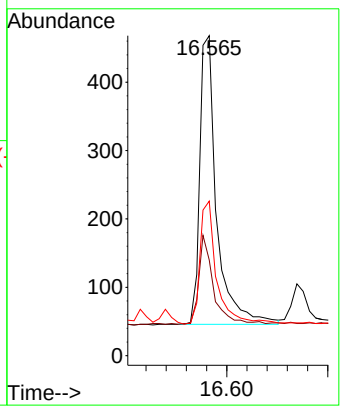





#23
Atrazine
Concen: 0.406 ng
RT: 16.565 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN036804.D
Acq: 29 Mar 2025 10:33

Tgt Ion:200 Resp: 98(

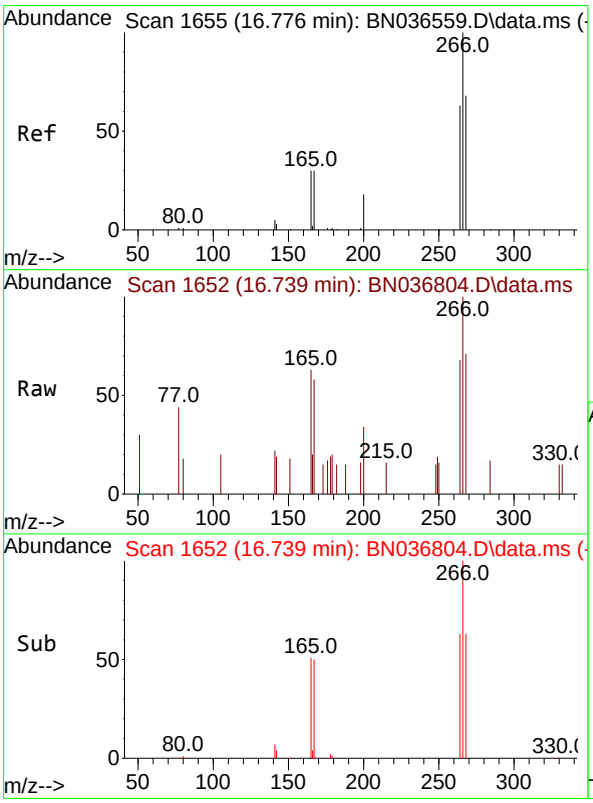
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 173 | 29.9 | 27.3 | 40.9 |
| 215 | 48.3 | 36.8 | 55.2 |




**Instrument :**
BNA_N
**ClientSampleId :**
PB167295BS

**Manual Integrations**
**APPROVED**

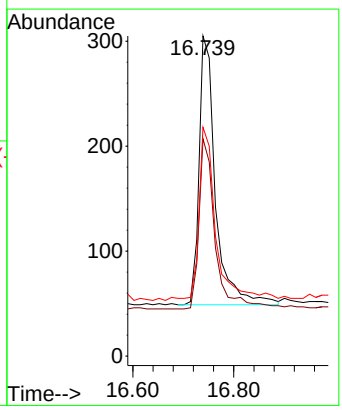
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

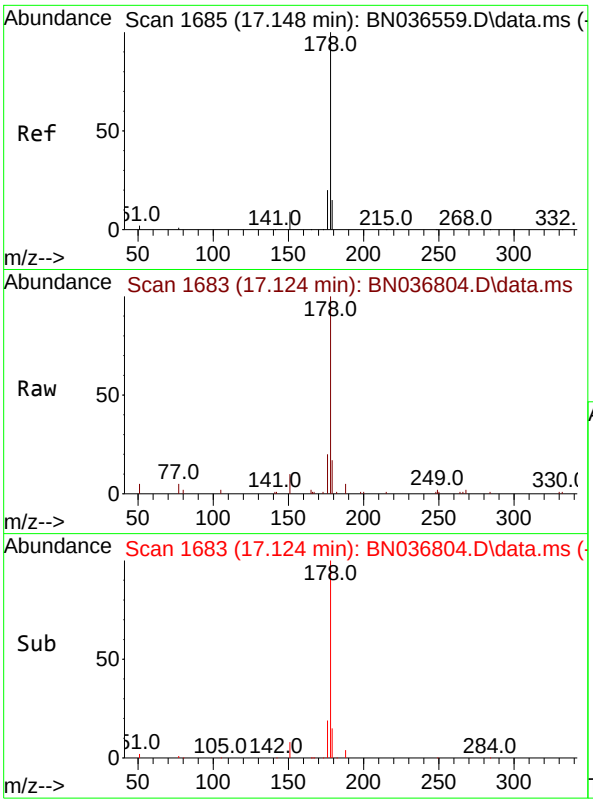



#24
Pentachlorophenol
Concen: 0.350 ng
RT: 16.739 min Scan# 1652
Delta R.T. -0.037 min
Lab File: BN036804.D
Acq: 29 Mar 2025 10:33

Tgt Ion:266 Resp: 579

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 264 | 62.7 | 49.6 | 74.4 |
| 268 | 67.4 | 50.9 | 76.3 |

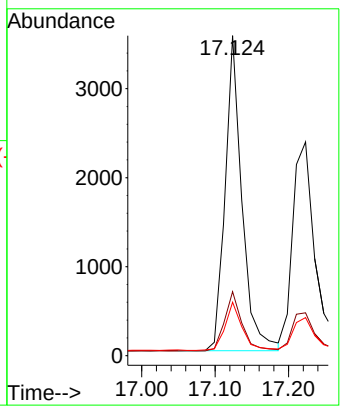





#25
Phenanthrene
Concen: 0.392 ng
RT: 17.124 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036804.D
Acq: 29 Mar 2025 10:33

Tgt Ion:178 Resp: 564

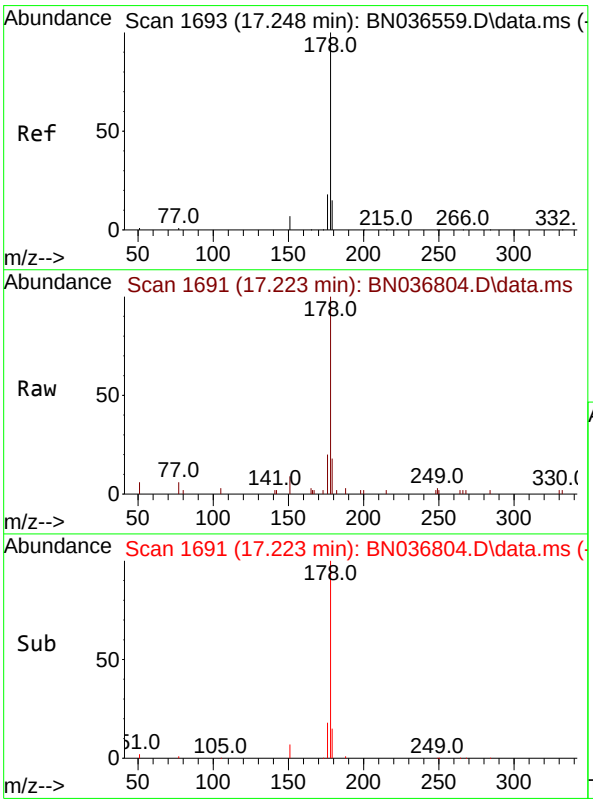
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.6 | 15.9 | 23.9 |
| 179 | 15.5 | 12.2 | 18.4 |




**Instrument :**
BNA_N
**ClientSampleId :**
PB167295BS

**Manual Integrations**
**APPROVED**

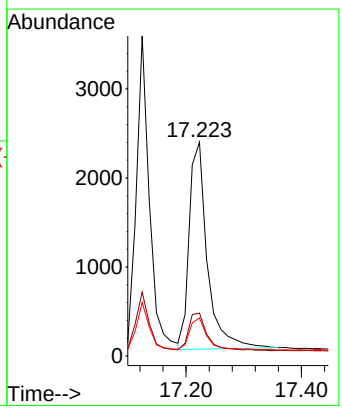
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

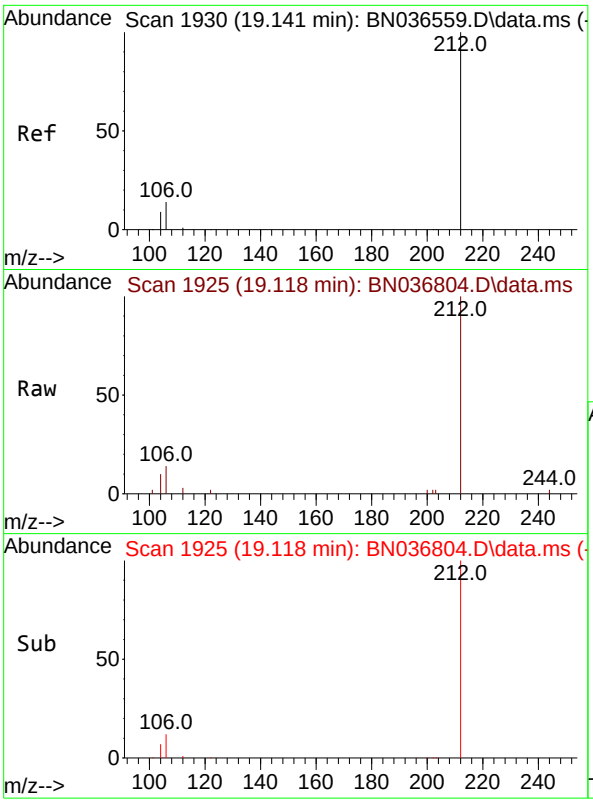



#26
Anthracene
Concen: 0.391 ng
RT: 17.223 min Scan# 1691
Delta R.T. -0.025 min
Lab File: BN036804.D
Acq: 29 Mar 2025 10:33

Tgt Ion:178 Resp: 5086

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.8 | 15.4 | 23.2 |
| 179 | 15.9 | 12.6 | 18.8 |

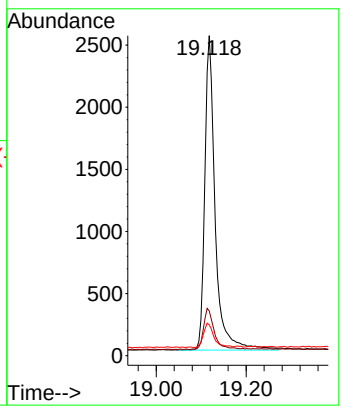





#27
Fluoranthene-d10
Concen: 0.330 ng
RT: 19.118 min Scan# 1
Delta R.T. -0.023 min
Lab File: BN036804.D
Acq: 29 Mar 2025 10:33

Tgt Ion:212 Resp: 405

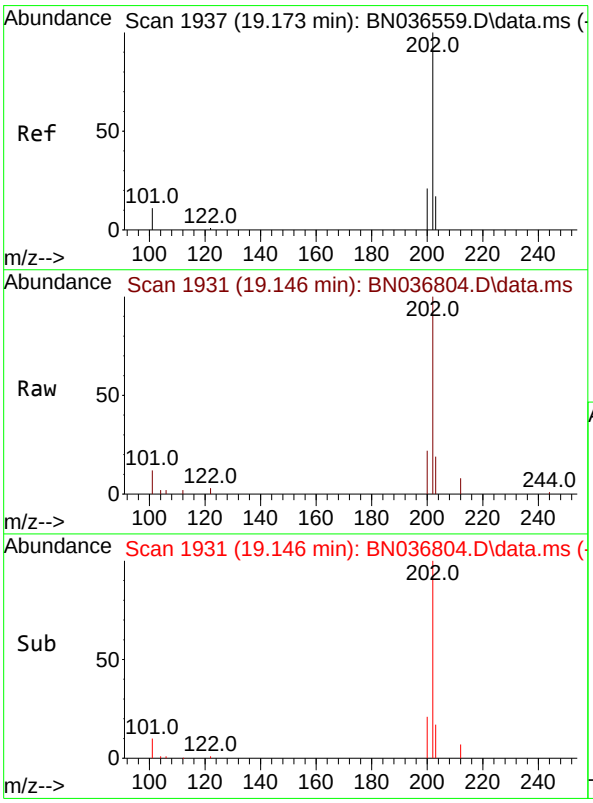
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 13.1 | 11.8 | 17.6 |
| 104 | 7.9 | 7.3 | 10.9 |




**Instrument :**
BNA_N
**ClientSampleId :**
PB167295BS

**Manual Integrations**
**APPROVED**

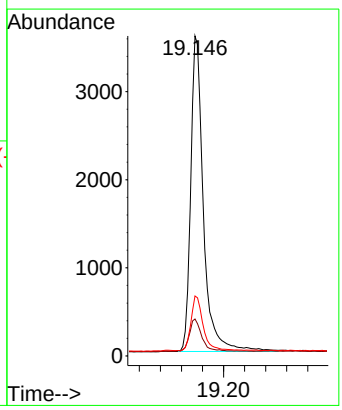
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

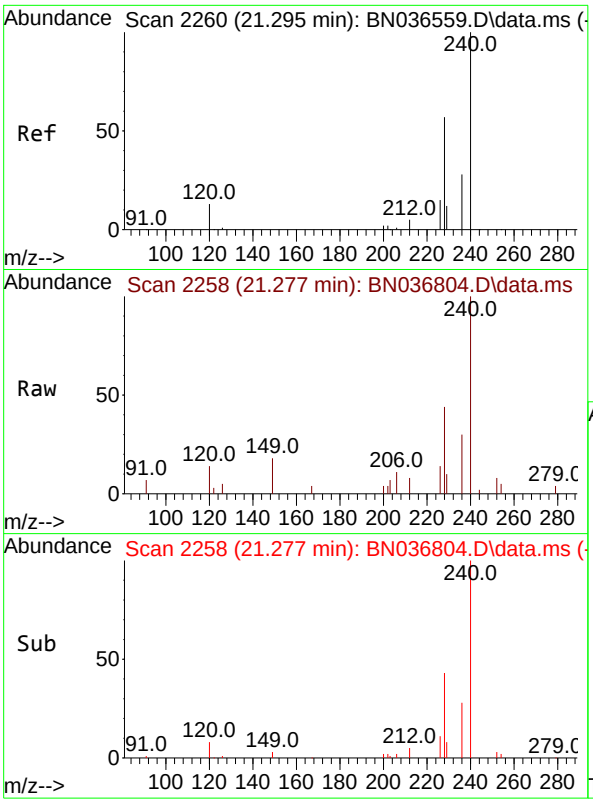



#28
Fluoranthene
Concen: 0.372 ng
RT: 19.146 min Scan# 1931
Delta R.T. -0.028 min
Lab File: BN036804.D
Acq: 29 Mar 2025 10:33

Tgt Ion:202 Resp: 6015

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 10.1 | 9.4 | 14.0 |
| 203 | 16.9 | 13.5 | 20.3 |

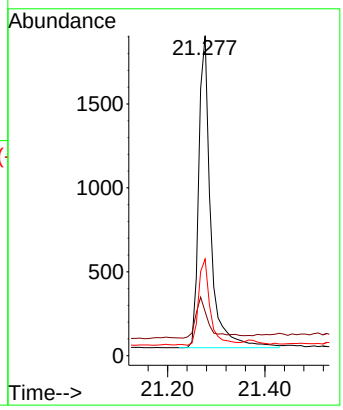





#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036804.D
Acq: 29 Mar 2025 10:33

Tgt Ion:240 Resp: 316

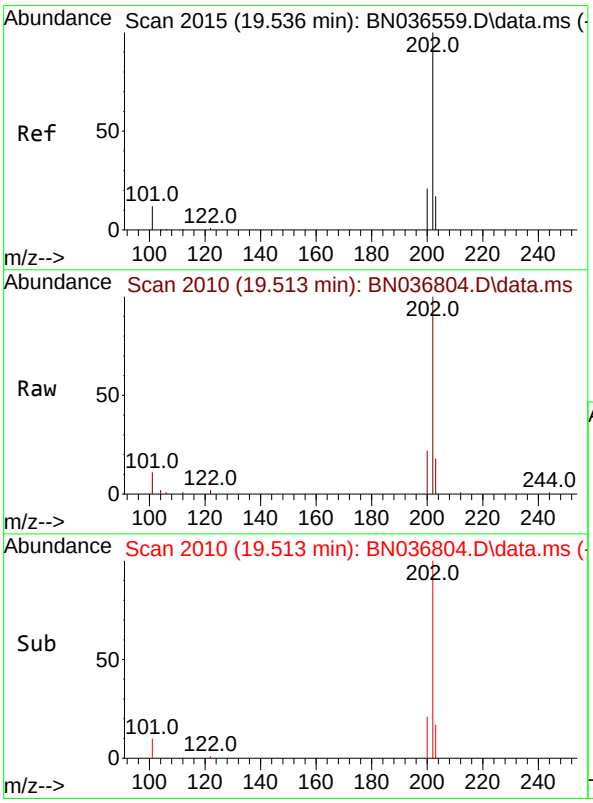
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 13.7 | 14.6 | 22.0# |
| 236 | 30.2 | 24.1 | 36.1 |




**Instrument :**
BNA_N
**ClientSampleId :**
PB167295BS

**Manual Integrations APPROVED**

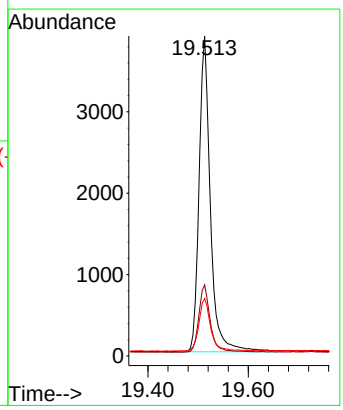
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

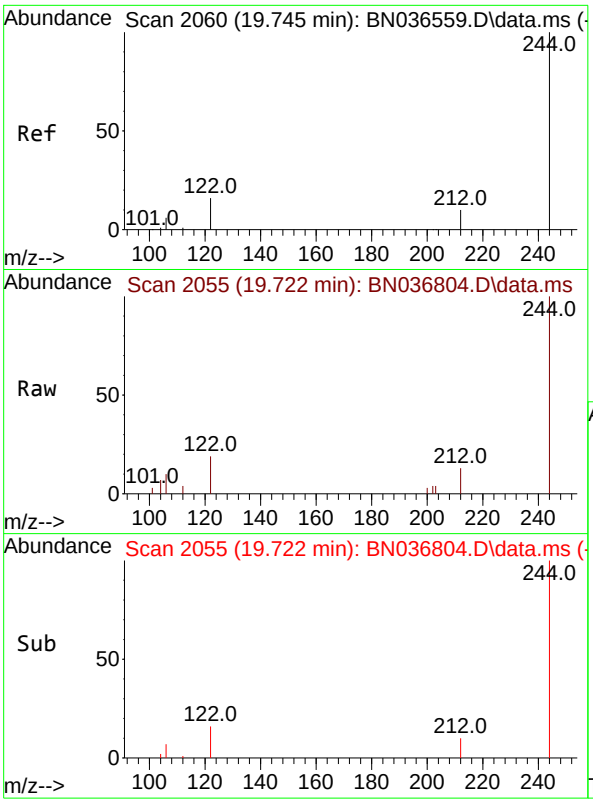



#30
Pyrene
Concen: 0.391 ng
RT: 19.513 min Scan# 2010
Delta R.T. -0.023 min
Lab File: BN036804.D
Acq: 29 Mar 2025 10:33

Tgt Ion:202 Resp: 6044

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.5 | 17.1 | 25.7 |
| 203 | 17.3 | 14.1 | 21.1 |

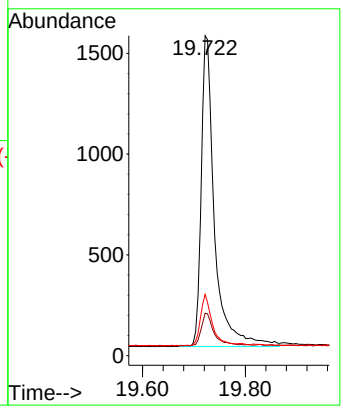





#31
Terphenyl-d14
Concen: 0.366 ng
RT: 19.722 min Scan# 2
Delta R.T. -0.023 min
Lab File: BN036804.D
Acq: 29 Mar 2025 10:33

Tgt Ion:244 Resp: 277

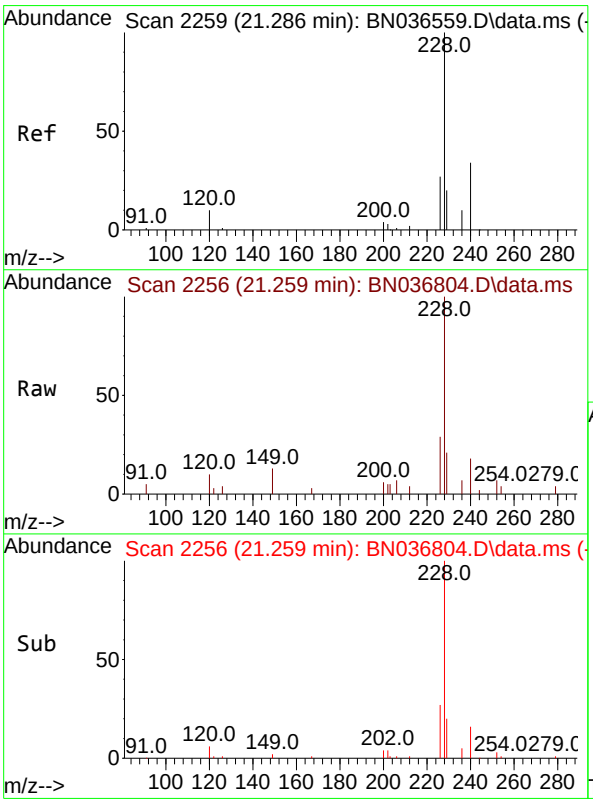
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 13.2 | 9.6 | 14.4 |
| 122 | 19.1 | 13.9 | 20.9 |




**Instrument :**
BNA_N
**ClientSampleId :**
PB167295BS

**Manual Integrations**
**APPROVED**

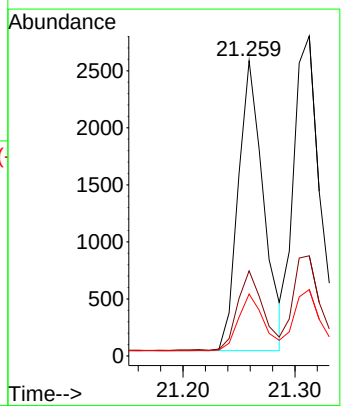
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

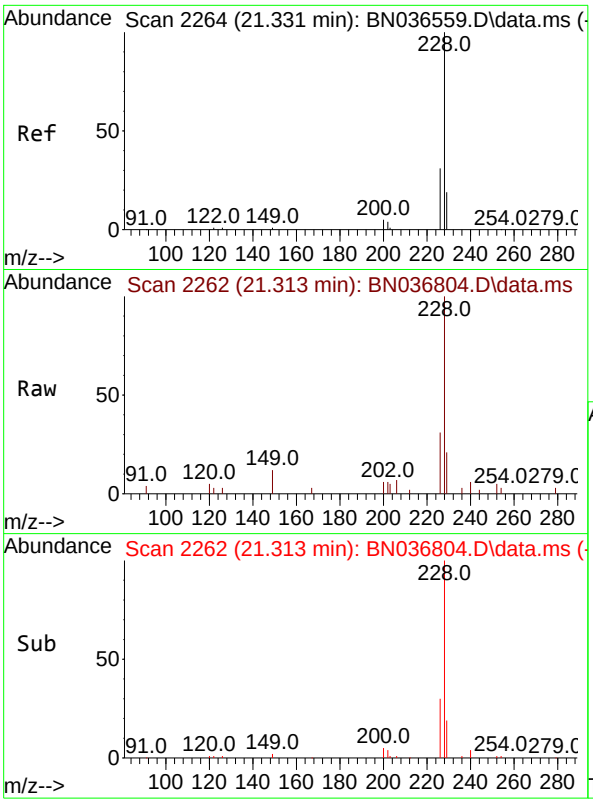



#32
Benzo(a)anthracene
Concen: 0.364 ng
RT: 21.259 min Scan# 2256
Delta R.T. -0.027 min
Lab File: BN036804.D
Acq: 29 Mar 2025 10:33

Tgt Ion:228 Resp: 3999

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 28.8 | 22.5 | 33.7 |
| 229 | 21.0 | 16.6 | 25.0 |

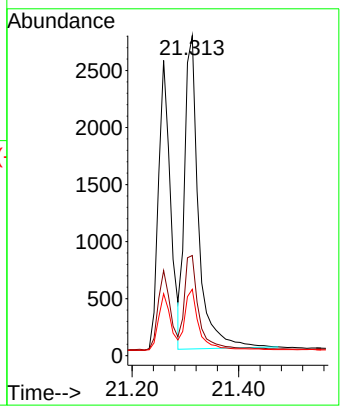





#33
Chrysene
Concen: 0.414 ng
RT: 21.313 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036804.D
Acq: 29 Mar 2025 10:33

Tgt Ion:228 Resp: 497

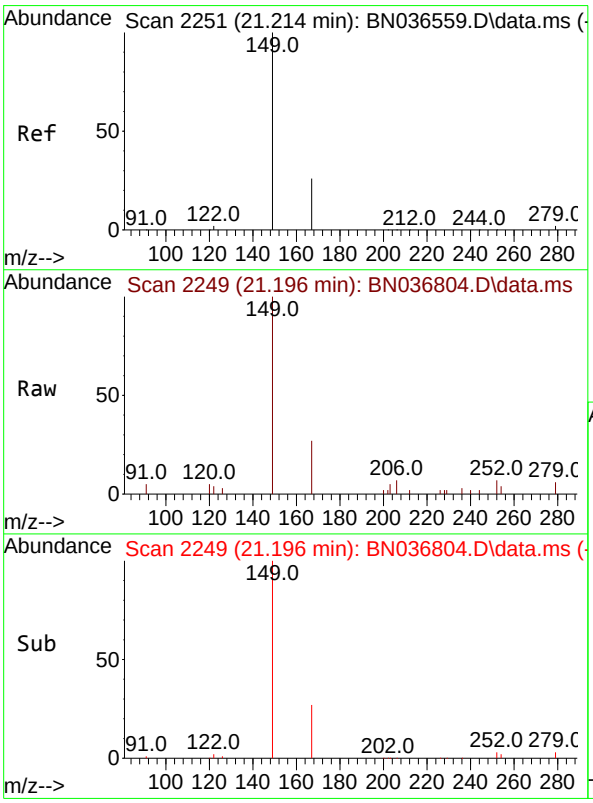
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 31.3 | 25.3 | 37.9 |
| 229 | 20.7 | 15.8 | 23.8 |




**Instrument :**
BNA_N
**ClientSampleId :**
PB167295BS

**Manual Integrations**
**APPROVED**

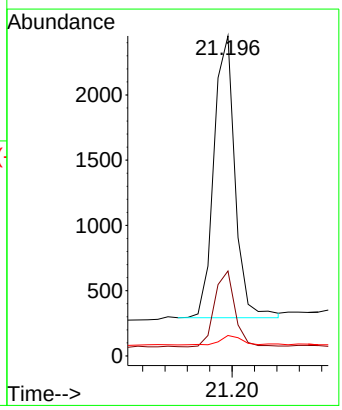
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

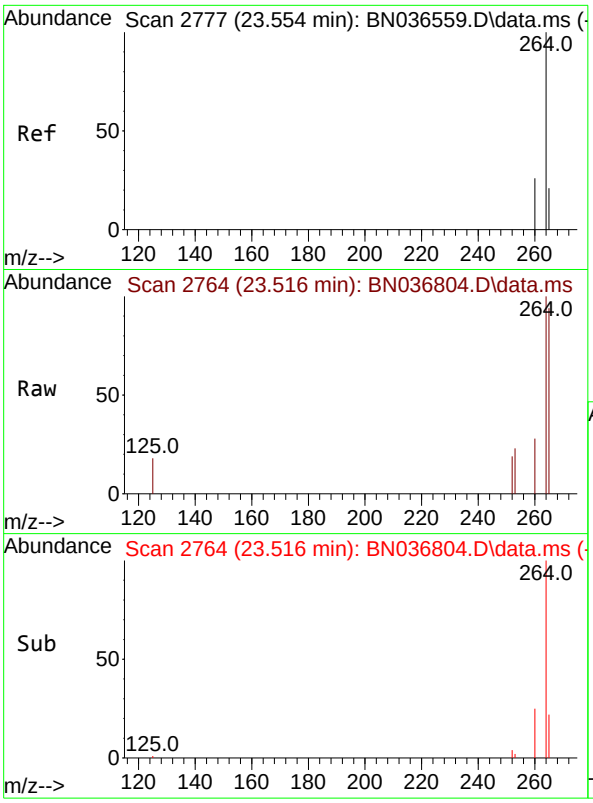



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.362 ng
RT: 21.196 min Scan# 2249
Delta R.T. -0.018 min
Lab File: BN036804.D
Acq: 29 Mar 2025 10:33

Tgt Ion:149 Resp: 2833

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 26.1 | 20.7 | 31.1 |
| 279 | 3.7 | 3.6 | 5.4 |

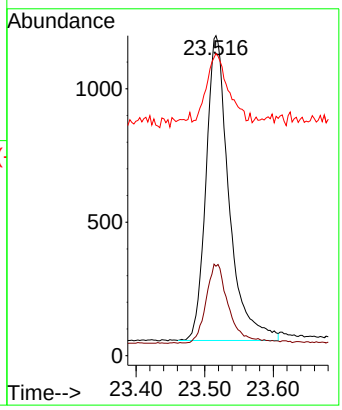





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.516 min Scan# 2
Delta R.T. -0.038 min
Lab File: BN036804.D
Acq: 29 Mar 2025 10:33

Tgt Ion:264 Resp: 266

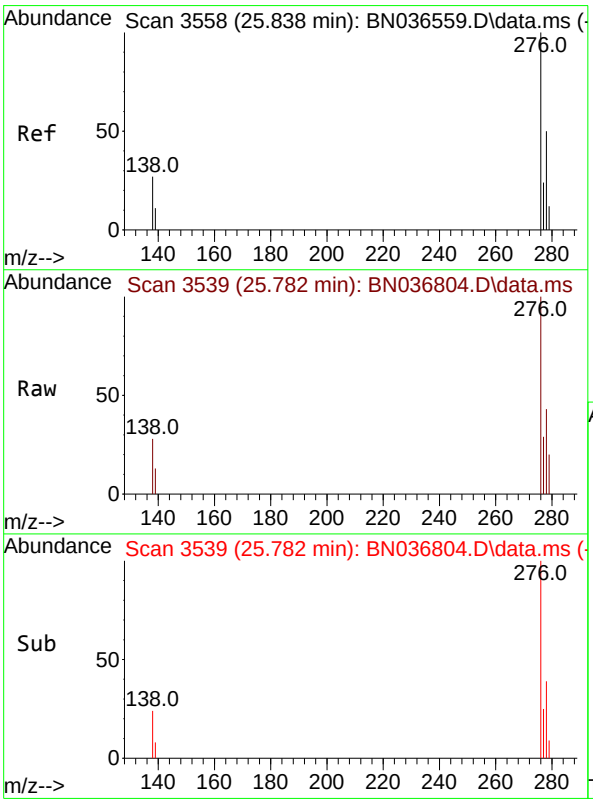
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 27.9 | 22.6 | 33.8 |
| 265 | 94.4 | 88.1 | 132.1 |




**Instrument :**
BNA_N
**ClientSampleId :**
PB167295BS

**Manual Integrations**
**APPROVED**

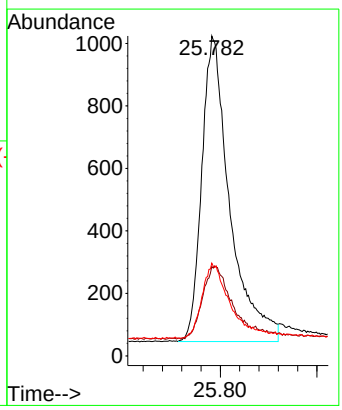
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

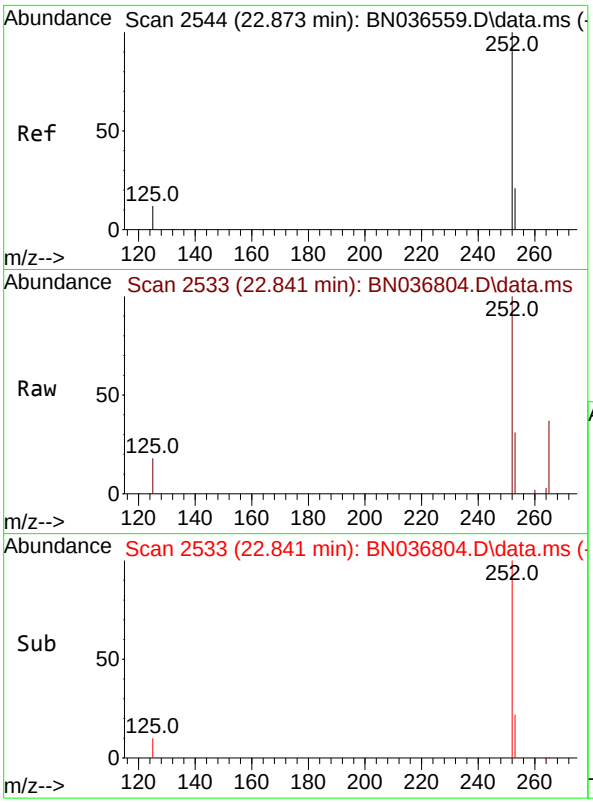



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.410 ng
RT: 25.782 min Scan# 3539
Delta R.T. -0.055 min
Lab File: BN036804.D
Acq: 29 Mar 2025 10:33

Tgt Ion:276 Resp: 3938

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 24.2 | 23.4 | 35.2 |
| 277 | 24.6 | 20.0 | 30.0 |

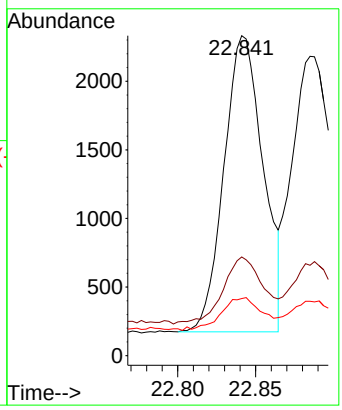





#37
Benzo(b)fluoranthene
Concen: 0.390 ng
RT: 22.841 min Scan# 2
Delta R.T. -0.032 min
Lab File: BN036804.D
Acq: 29 Mar 2025 10:33

Tgt Ion:252 Resp: 378

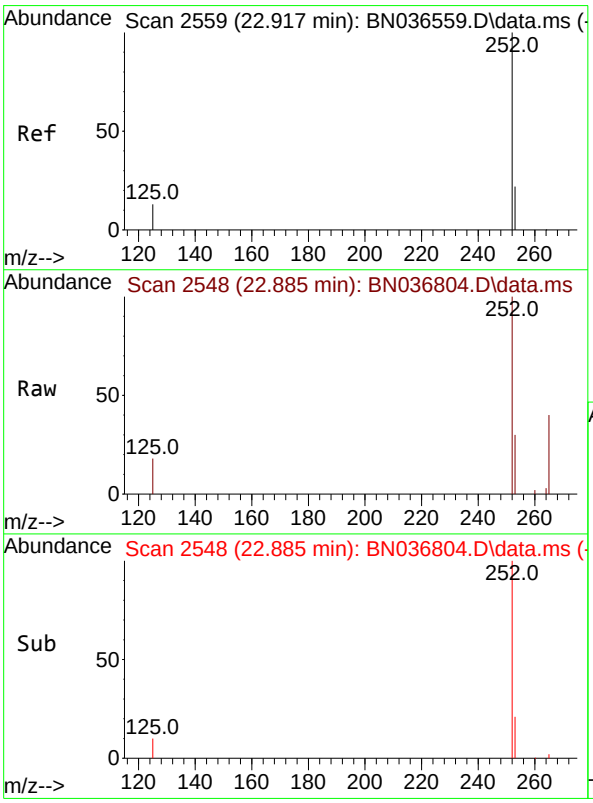
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 30.8 | 23.9 | 35.9 |
| 125 | 17.8 | 17.4 | 26.2 |




**Instrument :**
BNA_N
**ClientSampleId :**
PB167295BS

**Manual Integrations**
**APPROVED**

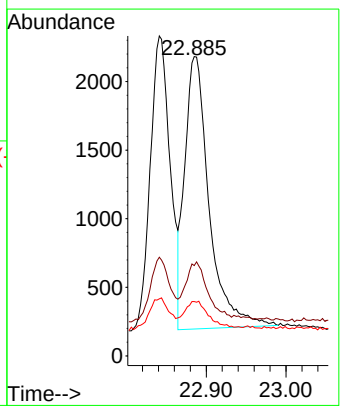
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

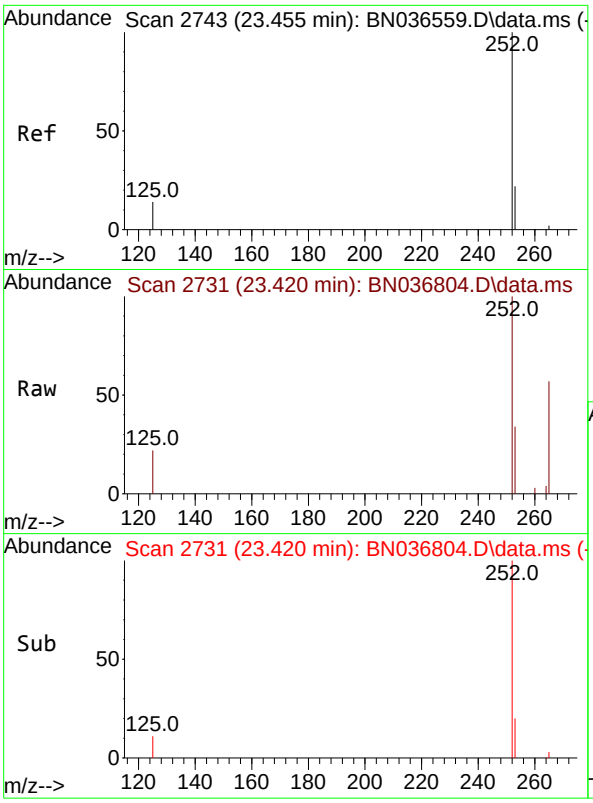



#38
Benzo(k)fluoranthene
Concen: 0.415 ng
RT: 22.885 min Scan# 2548
Delta R.T. -0.032 min
Lab File: BN036804.D
Acq: 29 Mar 2025 10:33

Tgt Ion:252 Resp: 4216

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 30.2 | 24.6 | 36.8 |
| 125 | 18.2 | 17.8 | 26.8 |

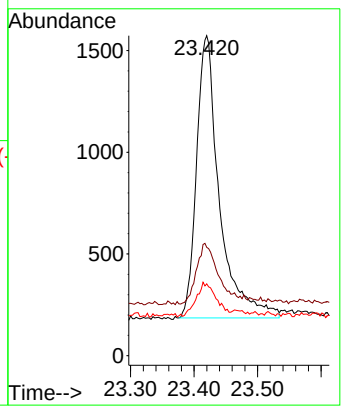





#39
Benzo(a)pyrene
Concen: 0.425 ng
RT: 23.420 min Scan# 2
Delta R.T. -0.035 min
Lab File: BN036804.D
Acq: 29 Mar 2025 10:33

Tgt Ion:252 Resp: 346

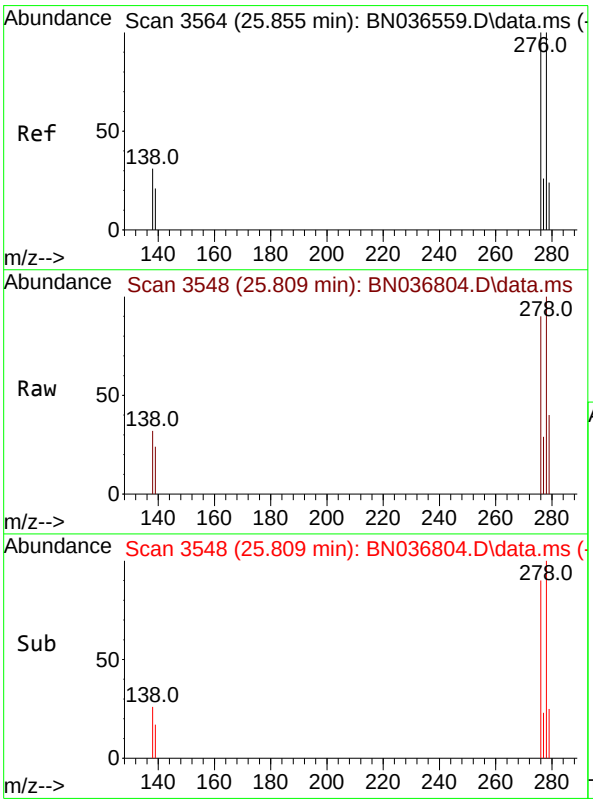
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 33.9 | 27.8 | 41.8 |
| 125 | 22.4 | 22.7 | 34.1# |




**Instrument :**
BNA_N
**ClientSampleId :**
PB167295BS

**Manual Integrations**
**APPROVED**

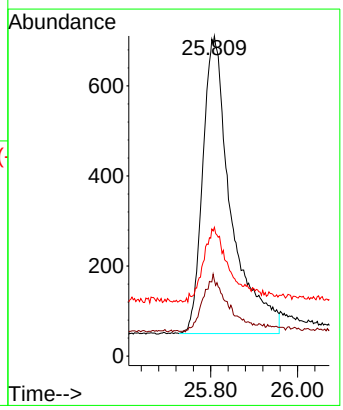
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

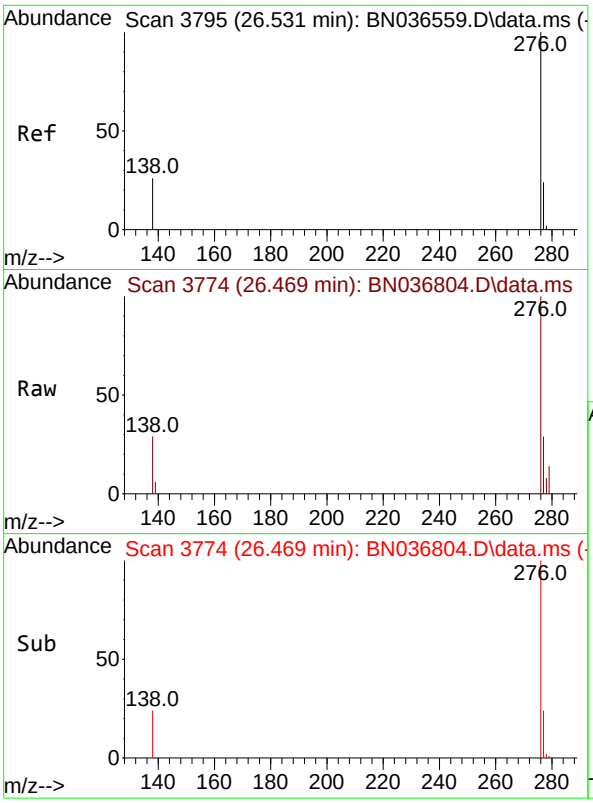



#40
Dibenzo(a,h)anthracene
Concen: 0.399 ng
RT: 25.809 min Scan# 3548
Delta R.T. -0.047 min
Lab File: BN036804.D
Acq: 29 Mar 2025 10:33

Tgt Ion:278 Resp: 2985

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 23.6 | 20.8 | 31.2 |
| 279 | 40.2 | 28.8 | 43.2 |

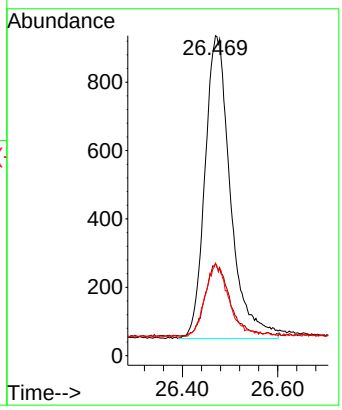





#41
Benzo(g,h,i)perylene
Concen: 0.386 ng
RT: 26.469 min Scan# 3
Delta R.T. -0.061 min
Lab File: BN036804.D
Acq: 29 Mar 2025 10:33

Tgt Ion:276 Resp: 329

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 28.8 | 22.2 | 33.4 |
| 138 | 28.8 | 24.1 | 36.1 |




**Instrument :**
BNA_N
**ClientSampleId :**
PB167295BS

**Manual Integrations**
**APPROVED**

Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

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: | 03/20/25 |
| Project: | NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258 | Date Received: | 03/21/25 |
| Client Sample ID: | TT188S1-20250320MS | SDG No.: | Q1629 |
| Lab Sample ID: | Q1629-04MS | 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 |
|---|---|---|---|---|
| BN036769.D | 1 | 03/25/25 08:41 | 03/28/25 12:47 | PB167295 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 123-91-1 | 1,4-Dioxane | 0.63 | | 0.070 | 0.20 | 0.20 | ug/L |
| **SURROGATES** | | | | | | | |
| 7297-45-2 | 2-Methylnaphthalene-d10 | 0.38 | | 30 - 150 | | 95% | SPK: 0.4 |
| 93951-69-0 | Fluoranthene-d10 | 0.42 | | 30 - 150 | | 105% | SPK: 0.4 |
| 4165-60-0 | Nitrobenzene-d5 | 0.31 | | 55 - 111 | | 77% | SPK: 0.4 |
| 321-60-8 | 2-Fluorobiphenyl | 0.35 | | 53 - 106 | | 87% | SPK: 0.4 |
| 1718-51-0 | Terphenyl-d14 | 0.40 | | 58 - 132 | | 99% | SPK: 0.4 |
| **INTERNAL STANDARDS** | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 1550 | 7.696 | | | | |
| 1146-65-2 | Naphthalene-d8 | 3800 | 10.488 | | | | |
| 15067-26-2 | Acenaphthene-d10 | 2500 | 14.334 | | | | |
| 1517-22-2 | Phenanthrene-d10 | 5520 | 17.087 | | | | |
| 1719-03-5 | Chrysene-d12 | 4770 | 21.277 | | | | |
| 1520-96-3 | Perylene-d12 | 4210 | 23.519 | | | | |

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\BN032725\
Data File : BN036769.D
Acq On : 28 Mar 2025 12:47
Operator : RC/JU
Sample : Q1629-04MS
Misc :
ALS Vial : 34 Sample Multiplier: 1

Quant Time: Mar 28 13:09:57 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

**Instrument :**
BNA_N
**ClientSampleId :**
TT188S1-20250320MS

**Manual Integrations APPROVED**
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.696 | 152 | 1547 | 0.400 | ng | -0.03 |
| 7) Naphthalene-d8 | 10.488 | 136 | 3800 | 0.400 | ng | #-0.02 |
| 13) Acenaphthene-d10 | 14.334 | 164 | 2504 | 0.400 | ng | -0.03 |
| 19) Phenanthrene-d10 | 17.087 | 188 | 5519 | 0.400 | ng | -0.02 |
| 29) Chrysene-d12 | 21.277 | 240 | 4772 | 0.400 | ng | #-0.02 |
| 35) Perylene-d12 | 23.519 | 264 | 4206 | 0.400 | ng | #-0.03 |
| **System Monitoring Compounds** | | | | | | |
| 4) 2-Fluorophenol | 5.291 | 112 | 621 | 0.172 | ng | -0.02 |
| 5) Phenol-d6 | 6.872 | 99 | 461 | 0.104 | ng | -0.03 |
| 8) Nitrobenzene-d5 | 8.843 | 82 | 1270 | 0.307 | ng | -0.03 |
| 11) 2-Methylnaphthalene-d10 | 12.075 | 152 | 2142m | 0.379 | ng | -0.04 |
| 14) 2,4,6-Tribromophenol | 15.833 | 330 | 500 | 0.440 | ng | -0.02 |
| 15) 2-Fluorobiphenyl | 12.963 | 172 | 5081 | 0.349 | ng | -0.03 |
| 27) Fluoranthene-d10 | 19.118 | 212 | 5936 | 0.420 | ng | -0.02 |
| 31) Terphenyl-d14 | 19.722 | 244 | 4521 | 0.395 | ng | -0.02 |
| **Target Compounds** | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.225 | 88 | 1076 | 0.627 | ng | # 70 |
| 3) n-Nitrosodimethylamine | 3.536 | 42 | 692 | 0.199 | ng | # 97 |
| 6) bis(2-Chloroethyl)ether | 7.125 | 93 | 1606 | 0.349 | ng | 96 |
| 9) Naphthalene | 10.530 | 128 | 4212 | 0.377 | ng | 98 |
| 10) Hexachlorobutadiene | 10.818 | 225 | 873 | 0.332 | ng | # 100 |
| 12) 2-Methylnaphthalene | 12.151 | 142 | 2787 | 0.392 | ng | 98 |
| 16) Acenaphthylene | 14.056 | 152 | 4729 | 0.400 | ng | 99 |
| 17) Acenaphthene | 14.398 | 154 | 3057 | 0.395 | ng | 98 |
| 18) Fluorene | 15.393 | 166 | 4486 | 0.429 | ng | 99 |
| 20) 4,6-Dinitro-2-methylph... | 15.478 | 198 | 460 | 0.472 | ng | # 77 |
| 21) 4-Bromophenyl-phenylether | 16.280 | 248 | 1436 | 0.415 | ng | 94 |
| 22) Hexachlorobenzene | 16.391 | 284 | 1647 | 0.395 | ng | 97 |
| 23) Atrazine | 16.553 | 200 | 1296 | 0.467 | ng | 99 |
| 24) Pentachlorophenol | 16.739 | 266 | 1338 | 0.703 | ng | 98 |
| 25) Phenanthrene | 17.124 | 178 | 7316 | 0.442 | ng | 99 |
| 26) Anthracene | 17.223 | 178 | 6668 | 0.446 | ng | 99 |
| 28) Fluoranthene | 19.150 | 202 | 8988 | 0.483 | ng | 99 |
| 30) Pyrene | 19.513 | 202 | 9497 | 0.407 | ng | 100 |
| 32) Benzo(a)anthracene | 21.259 | 228 | 7243 | 0.437 | ng | 99 |
| 33) Chrysene | 21.313 | 228 | 8271 | 0.456 | ng | 98 |
| 34) Bis(2-ethylhexyl)phtha... | 21.196 | 149 | 4790 | 0.405 | ng | # 99 |
| 36) Indeno(1,2,3-cd)pyrene | 25.785 | 276 | 6488 | 0.427 | ng | 98 |
| 37) Benzo(b)fluoranthene | 22.844 | 252 | 7114 | 0.465 | ng | 93 |
| 38) Benzo(k)fluoranthene | 22.888 | 252 | 7550 | 0.470 | ng | 93 |
| 39) Benzo(a)pyrene | 23.420 | 252 | 6131 | 0.476 | ng | # 91 |
| 40) Dibenzo(a,h)anthracene | 25.800 | 278 | 4935 | 0.418 | ng | 92 |
| 41) Benzo(g,h,i)perylene | 26.475 | 276 | 5010 | 0.371 | ng | 98 |

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

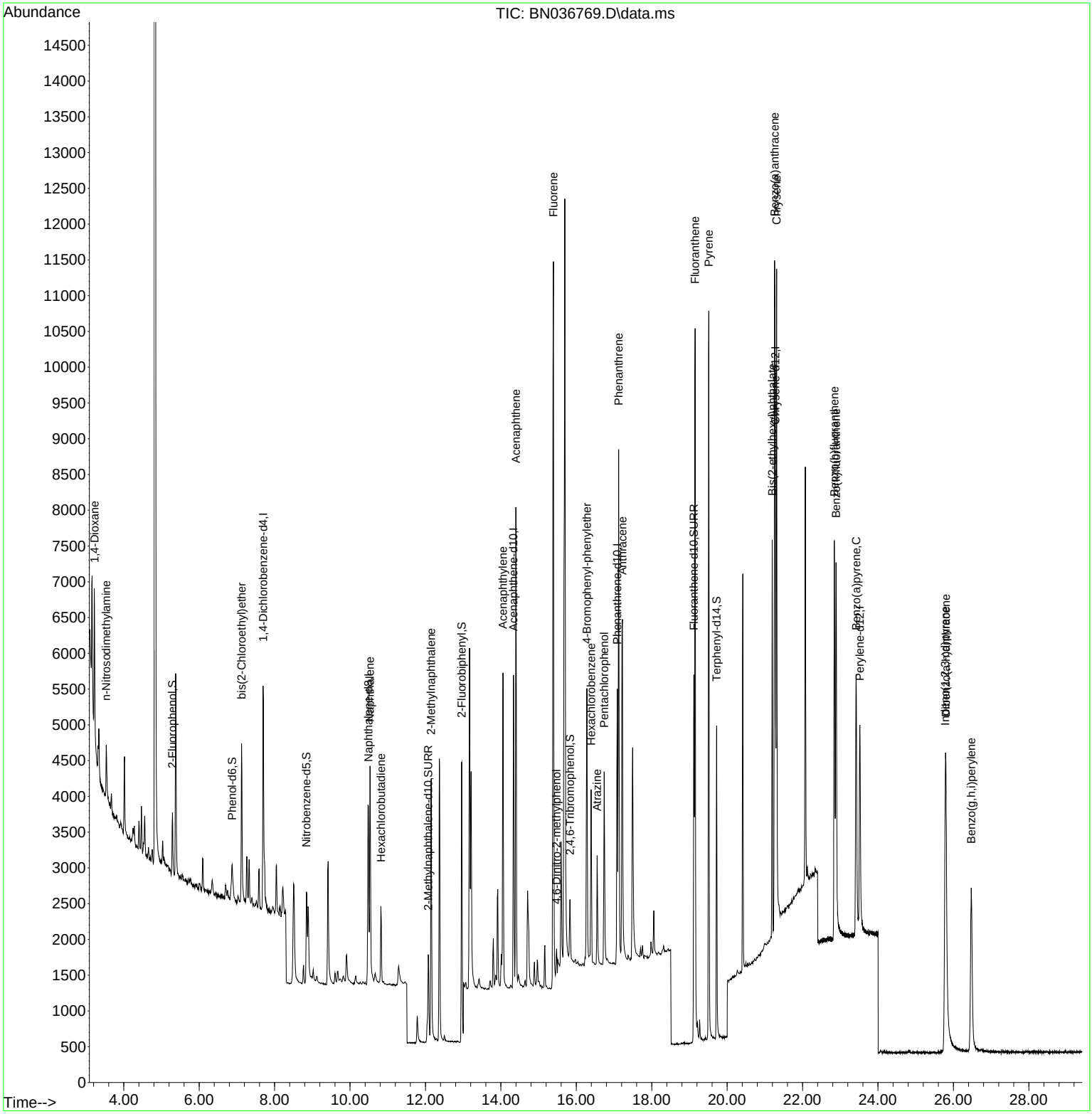
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036769.D
Acq On : 28 Mar 2025 12:47
Operator : RC/JU
Sample : Q1629-04MS
Misc :
ALS Vial : 34 Sample Multiplier: 1

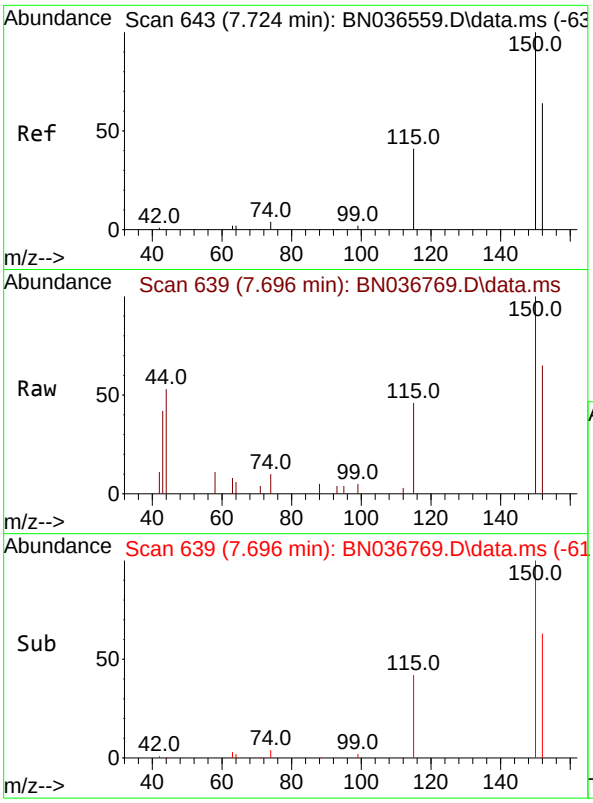
Quant Time: Mar 28 13:09:57 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

**Instrument :**
BNA_N
**ClientSampleId :**
TT188S1-20250320MS

**Manual Integrations APPROVED**

Reviewed By :Anahy Claudio 03/31/2025
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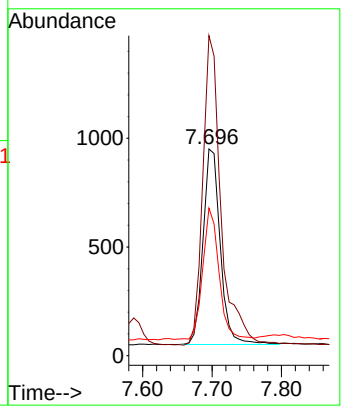





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.696 min Scan# 6
Delta R.T. -0.028 min
Lab File: BN036769.D
Acq: 28 Mar 2025 12:47

Tgt Ion:152 Resp: 154

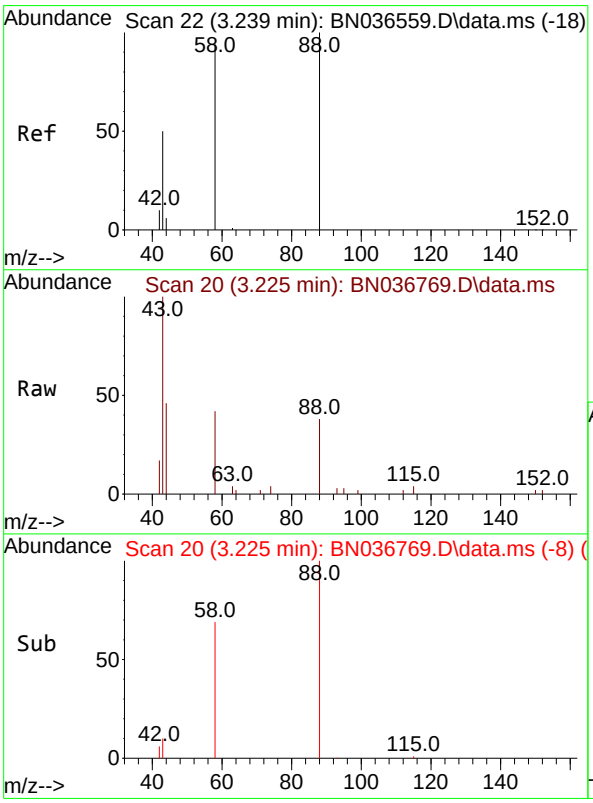
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 154.8 | 123.7 | 185.5 |
| 115 | 71.4 | 54.3 | 81.5 |




**Instrument :**
BNA_N
**ClientSampleId :**
TT188S1-20250320MS

**Manual Integrations**
**APPROVED**

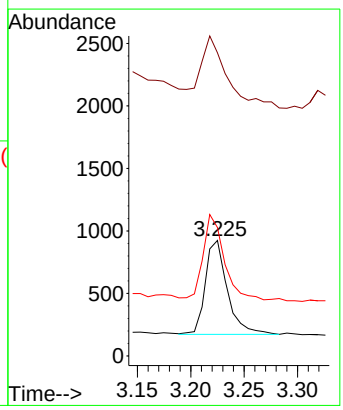
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

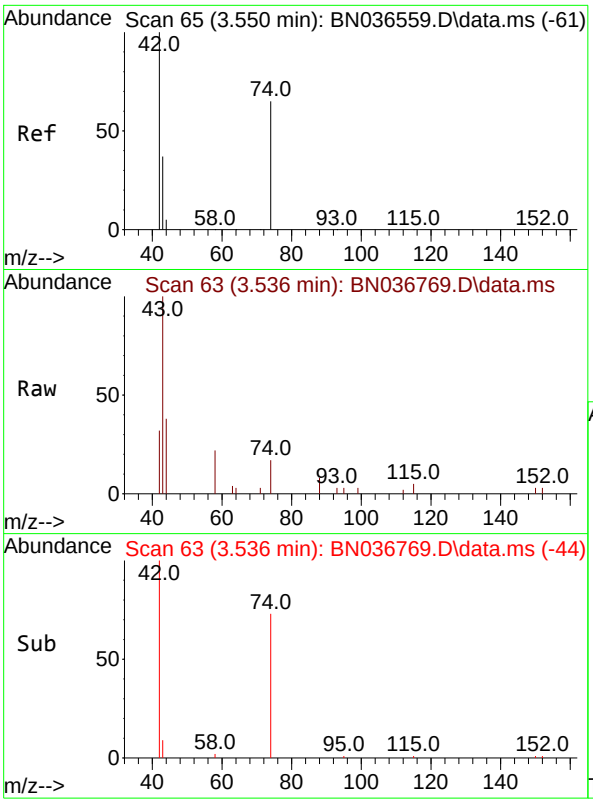



#2
1,4-Dioxane
Concen: 0.627 ng
RT: 3.225 min Scan# 20
Delta R.T. -0.014 min
Lab File: BN036769.D
Acq: 28 Mar 2025 12:47

Tgt Ion: 88 Resp: 1076

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 94.3 | 37.8 | 56.8# |
| 58 | 91.4 | 67.4 | 101.2 |

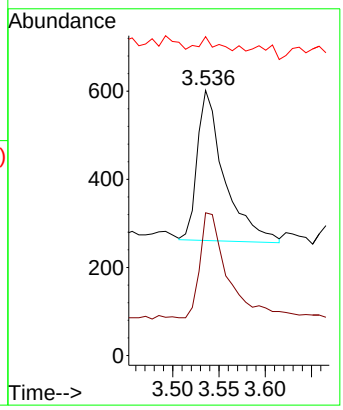





#3
n-Nitrosodimethylamine
Concen: 0.199 ng
RT: 3.536 min Scan# 6
Delta R.T. -0.014 min
Lab File: BN036769.D
Acq: 28 Mar 2025 12:47

Tgt Ion: 42 Resp: 69

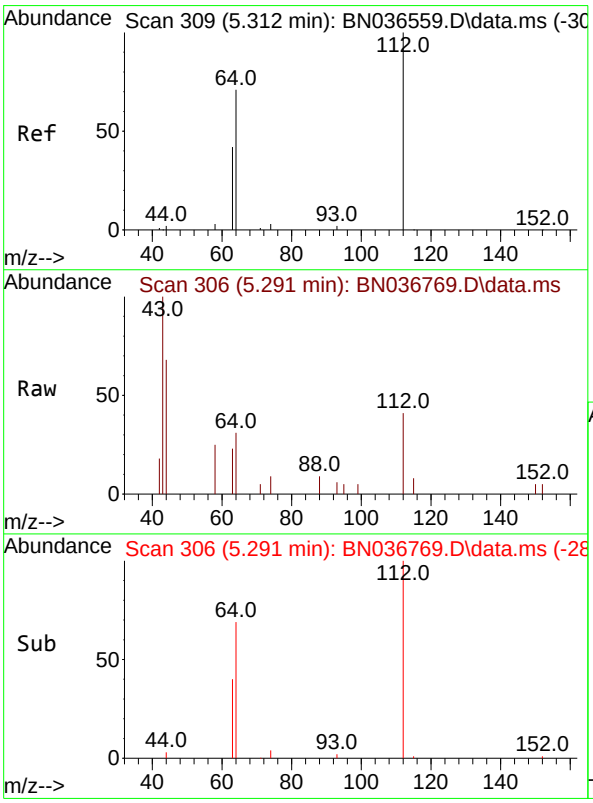
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 73.3 | 60.6 | 90.8 |
| 44 | 5.2 | 6.3 | 9.5 |




**Instrument :**
BNA_N
**ClientSampleId :**
TT188S1-20250320MS

**Manual Integrations**
**APPROVED**

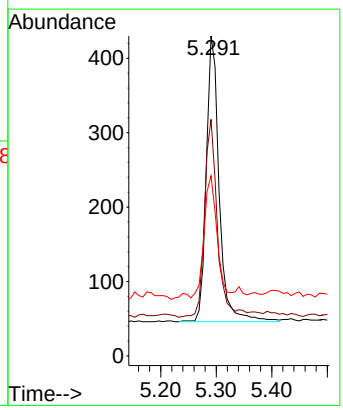
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

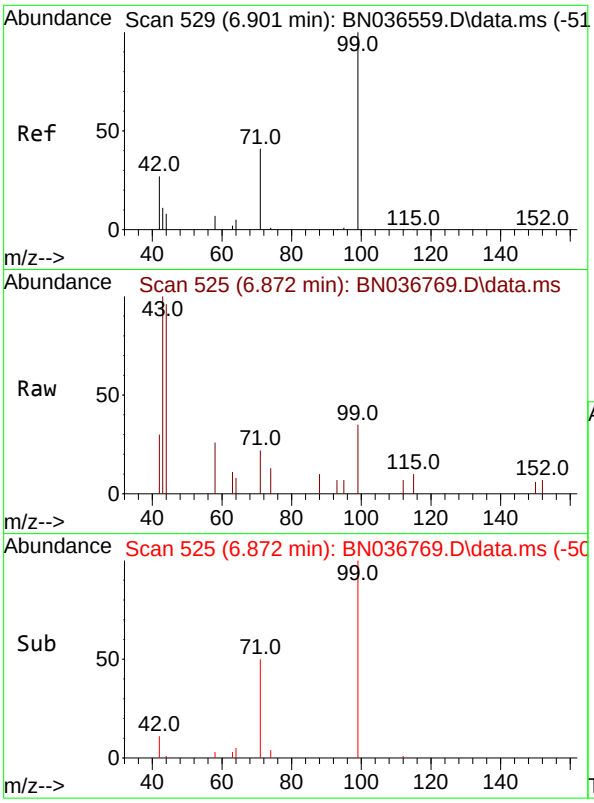



#4
2-Fluorophenol
Concen: 0.172 ng
RT: 5.291 min Scan# 306
Delta R.T. -0.022 min
Lab File: BN036769.D
Acq: 28 Mar 2025 12:47

Tgt Ion:112 Resp: 621

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 70.4 | 53.1 | 79.7 |
| 63 | 42.4 | 31.8 | 47.8 |

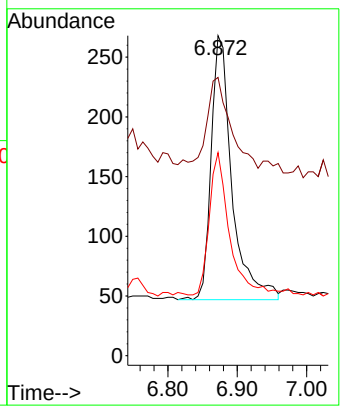





#5
Phenol-d6
Concen: 0.104 ng
RT: 6.872 min Scan# 5
Delta R.T. -0.029 min
Lab File: BN036769.D
Acq: 28 Mar 2025 12:47

Tgt Ion: 99 Resp: 46

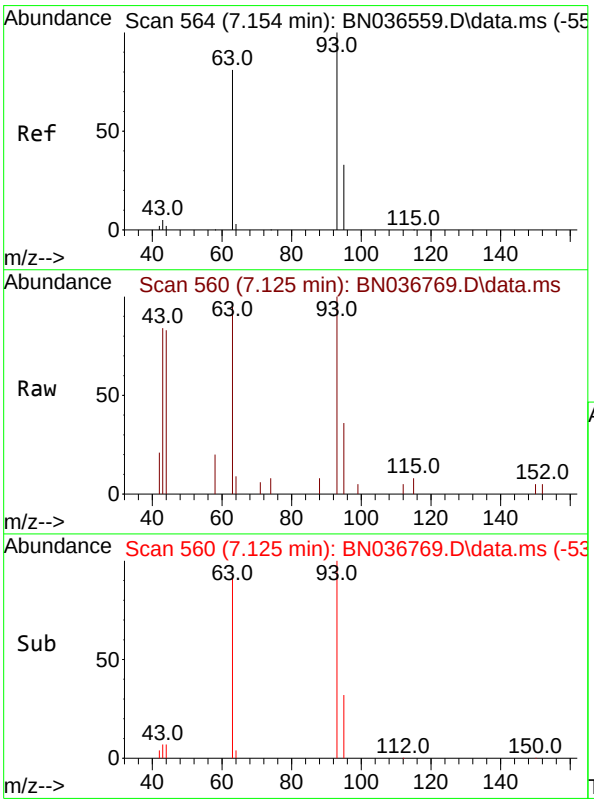
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 38.0 | 26.5 | 39.7 |
| 71 | 52.7 | 34.1 | 51.1 |




**Instrument :**
BNA_N
**ClientSampleId :**
TT188S1-20250320MS

**Manual Integrations**
**APPROVED**

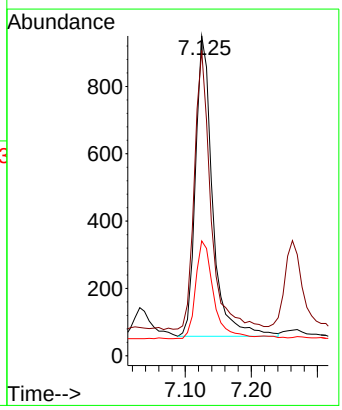
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

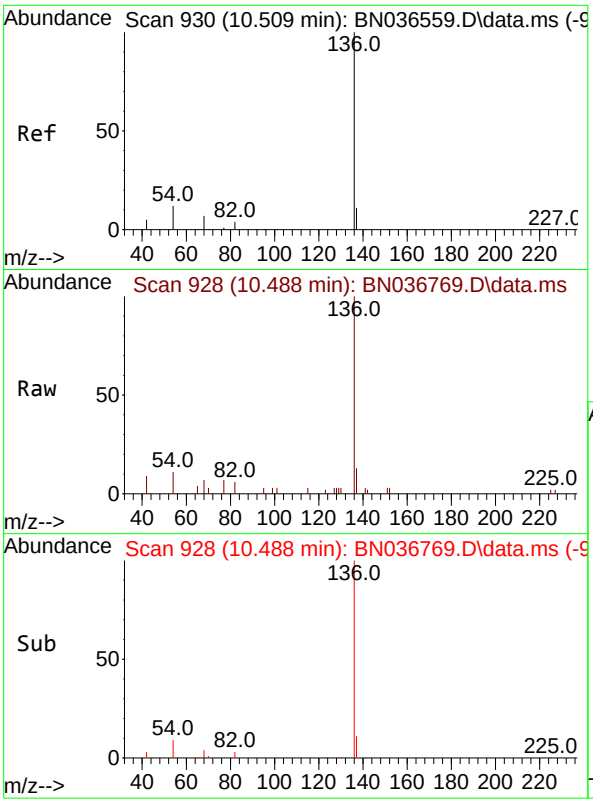



#6
bis(2-Chloroethyl)ether
Concen: 0.349 ng
RT: 7.125 min Scan# 560
Delta R.T. -0.029 min
Lab File: BN036769.D
Acq: 28 Mar 2025 12:47

Tgt Ion: 93 Resp: 1606

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 88.9 | 67.7 | 101.5 |
| 95 | 34.0 | 25.6 | 38.4 |

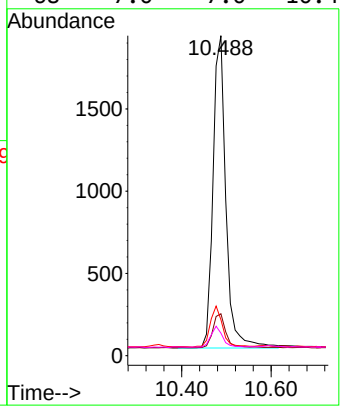





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.488 min Scan# 9
Delta R.T. -0.021 min
Lab File: BN036769.D
Acq: 28 Mar 2025 12:47

Tgt Ion:136 Resp: 380

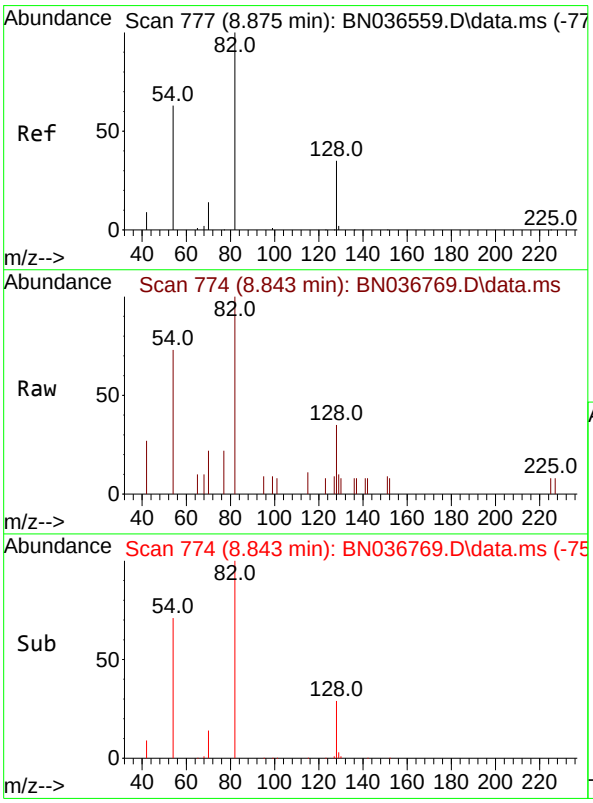
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 13.1 | 10.3 | 15.5 |
| 54 | 11.3 | 11.5 | 17.3# |
| 68 | 7.0 | 7.0 | 10.4 |




**Instrument :**
BNA_N
**ClientSampleId :**
TT188S1-20250320MS

**Manual Integrations**
**APPROVED**

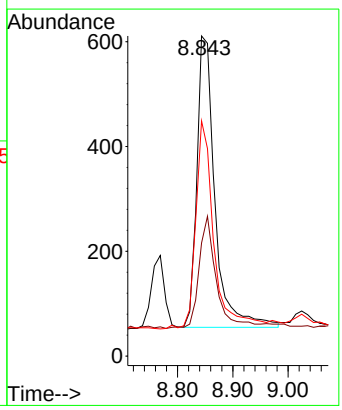
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

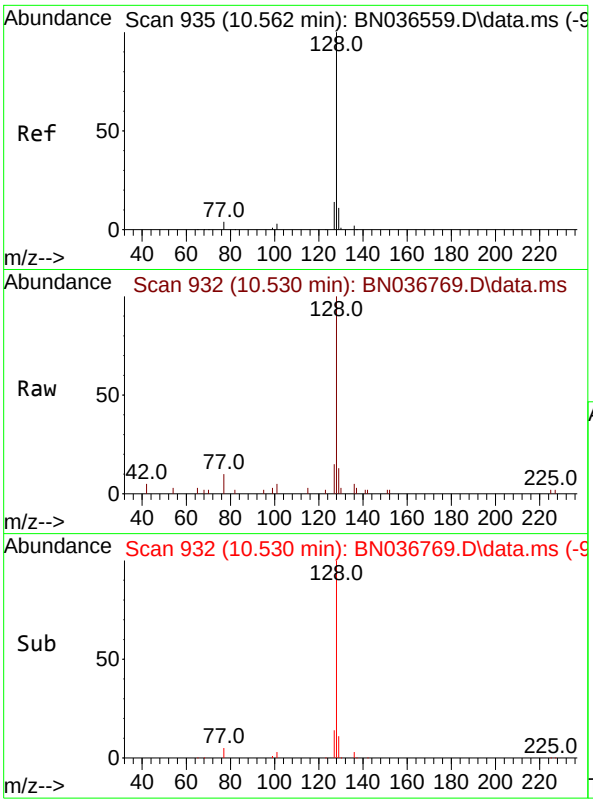



#8
Nitrobenzene-d5
Concen: 0.307 ng
RT: 8.843 min Scan# 774
Delta R.T. -0.032 min
Lab File: BN036769.D
Acq: 28 Mar 2025 12:47

Tgt Ion: 82 Resp: 1270

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 35.4 | 30.6 | 45.8 |
| 54 | 73.5 | 52.2 | 78.4 |

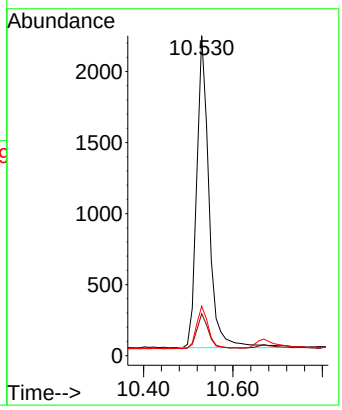





#9
Naphthalene
Concen: 0.377 ng
RT: 10.530 min Scan# 9
Delta R.T. -0.032 min
Lab File: BN036769.D
Acq: 28 Mar 2025 12:47

Tgt Ion:128 Resp: 421

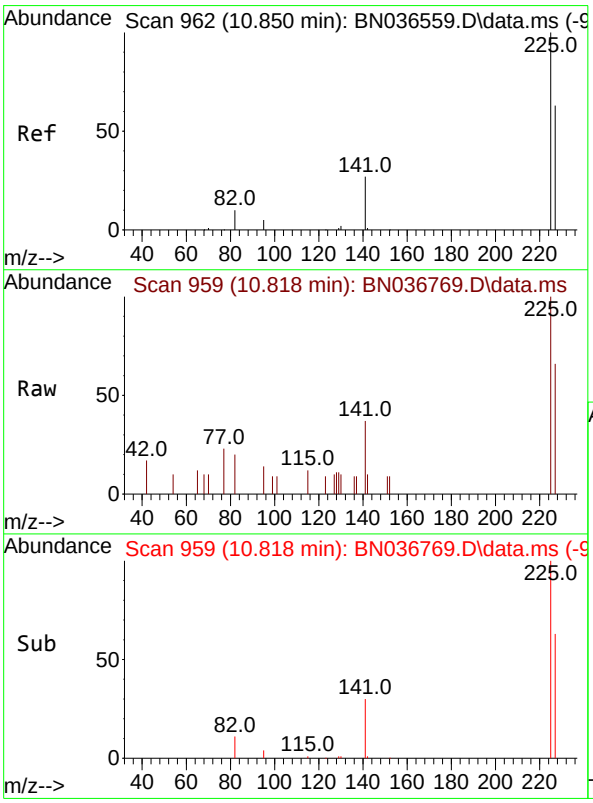
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 13.1 | 9.8 | 14.6 |
| 127 | 15.5 | 11.8 | 17.8 |




**Instrument :**
BNA_N
**ClientSampleId :**
TT188S1-20250320MS

**Manual Integrations**
**APPROVED**

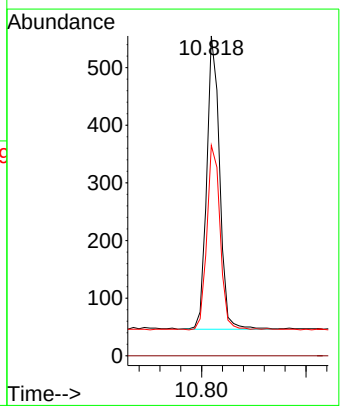
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

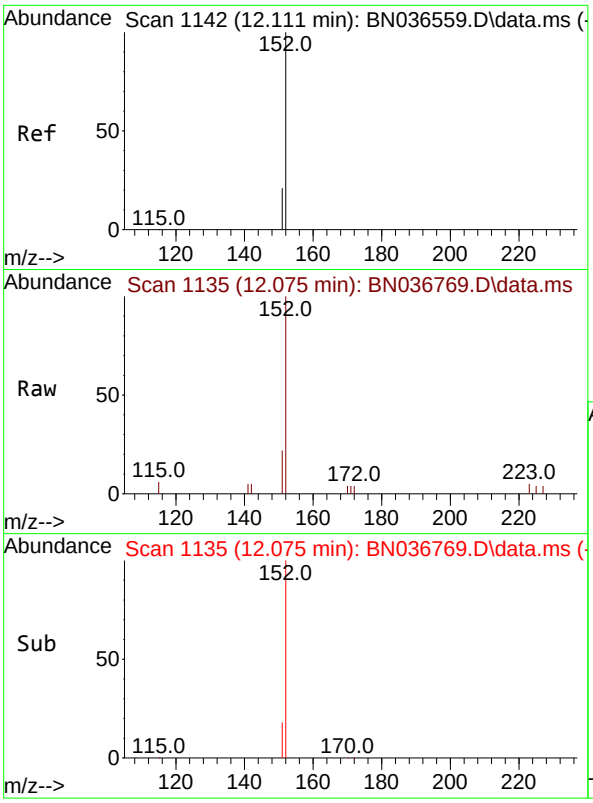



#10
Hexachlorobutadiene
Concen: 0.332 ng
RT: 10.818 min Scan# 959
Delta R.T. -0.032 min
Lab File: BN036769.D
Acq: 28 Mar 2025 12:47

Tgt Ion:225 Resp: 873

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 0.0 | 0.0 | 0.0 |
| 227 | 65.2 | 51.8 | 77.8 |

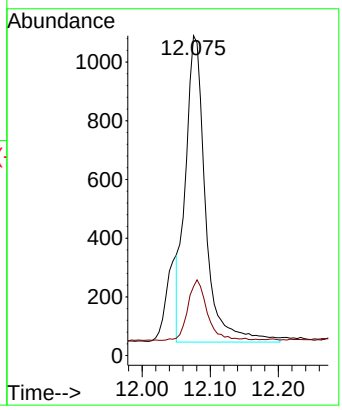





#11
2-Methylnaphthalene-d10
Concen: 0.379 ng m
RT: 12.075 min Scan# 11
Delta R.T. -0.035 min
Lab File: BN036769.D
Acq: 28 Mar 2025 12:47

Tgt Ion:152 Resp: 214

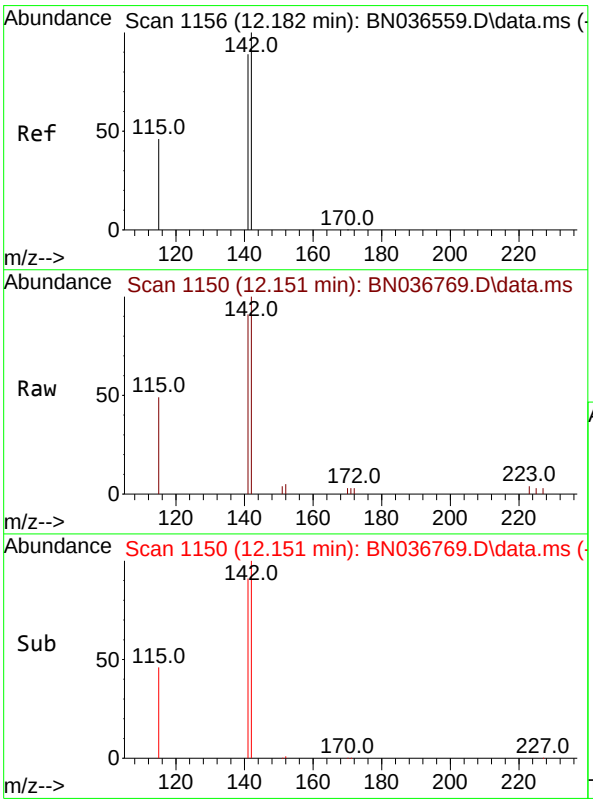
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 19.0 | 17.0 | 25.6 |




**Instrument :**
BNA_N
**ClientSampleId :**
TT188S1-20250320MS

**Manual Integrations**
**APPROVED**

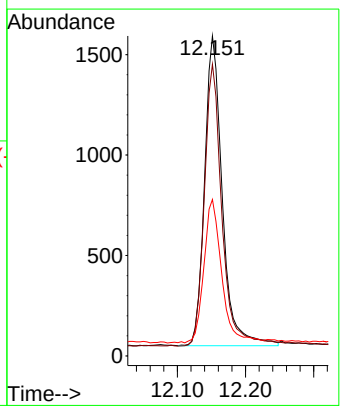
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

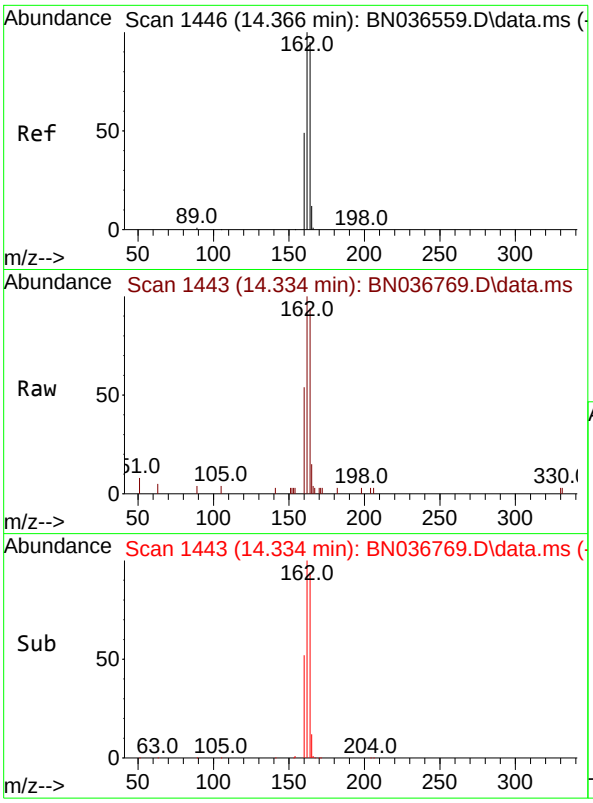



#12
2-Methylnaphthalene
Concen: 0.392 ng
RT: 12.151 min Scan# 1150
Delta R.T. -0.030 min
Lab File: BN036769.D
Acq: 28 Mar 2025 12:47

Tgt Ion:142 Resp: 2787

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 91.1 | 71.7 | 107.5 |
| 115 | 48.9 | 38.3 | 57.5 |

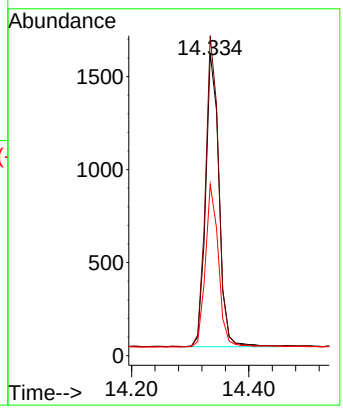





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.334 min Scan# 14
Delta R.T. -0.032 min
Lab File: BN036769.D
Acq: 28 Mar 2025 12:47

Tgt Ion:164 Resp: 250

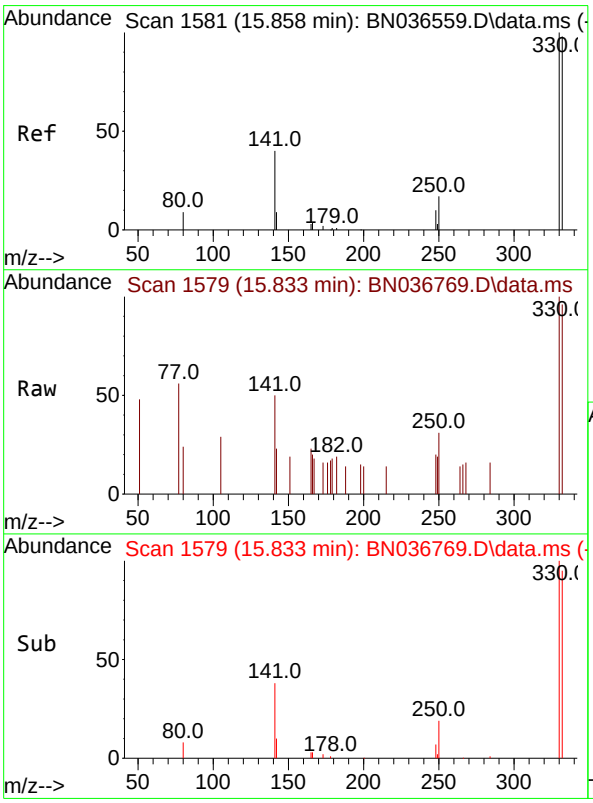
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 105.8 | 84.2 | 126.2 |
| 160 | 56.7 | 42.2 | 63.2 |




**Instrument :**
BNA_N
**ClientSampleId :**
TT188S1-20250320MS

**Manual Integrations**
**APPROVED**

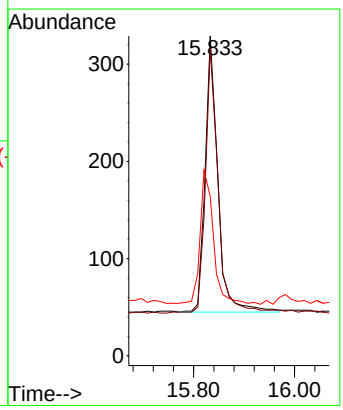
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

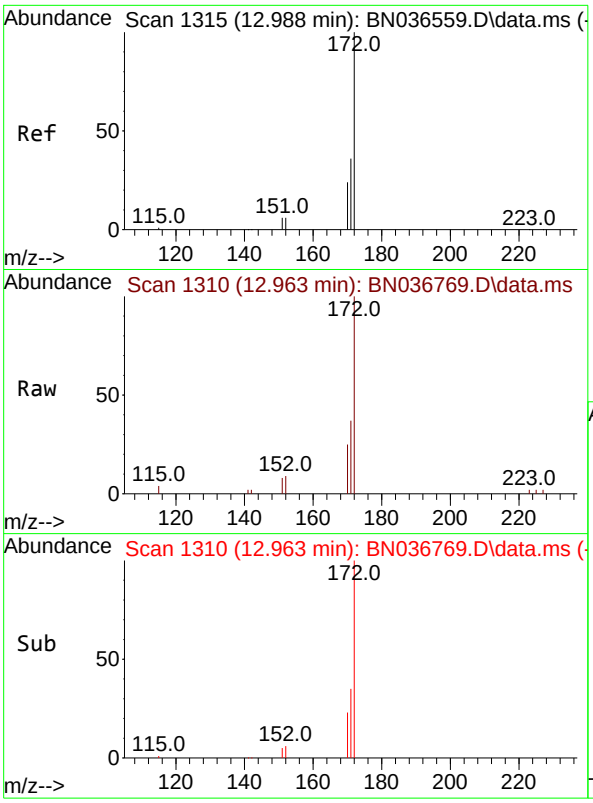



#14
2,4,6-Tribromophenol
Concen: 0.440 ng
RT: 15.833 min Scan# 1579
Delta R.T. -0.025 min
Lab File: BN036769.D
Acq: 28 Mar 2025 12:47

Tgt Ion:330 Resp: 500

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 95.4 | 75.2 | 112.8 |
| 141 | 51.0 | 43.4 | 65.2 |

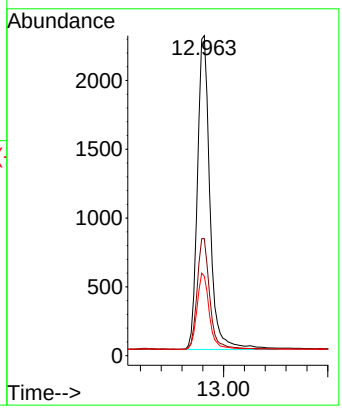





#15
2-Fluorobiphenyl
Concen: 0.349 ng
RT: 12.963 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036769.D
Acq: 28 Mar 2025 12:47

Tgt Ion:172 Resp: 508

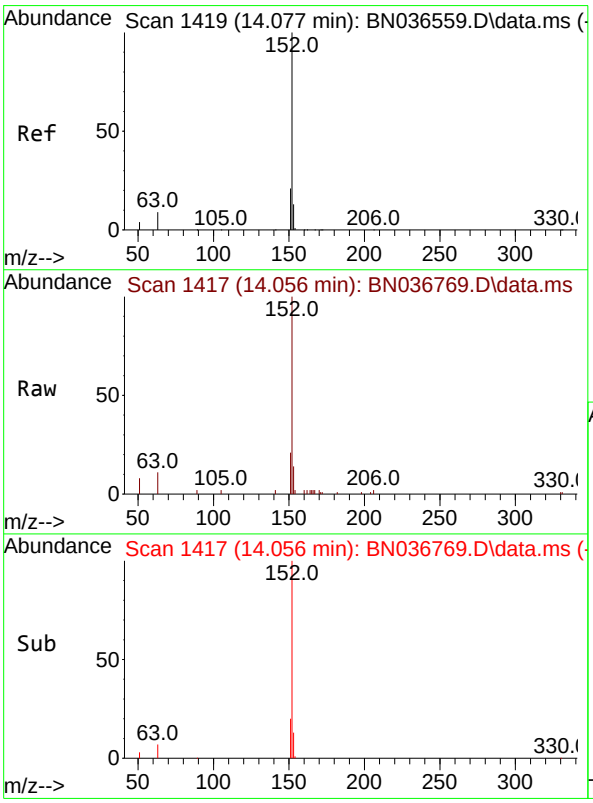
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 36.6 | 29.5 | 44.3 |
| 170 | 24.8 | 20.2 | 30.4 |




**Instrument :**
BNA_N
**ClientSampleId :**
TT188S1-20250320MS

**Manual Integrations**
**APPROVED**

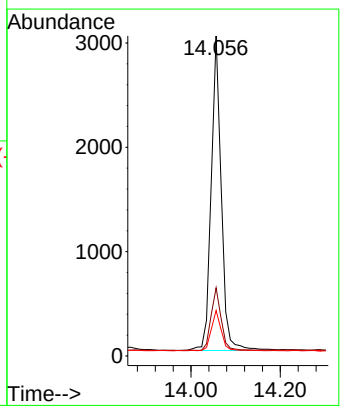
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

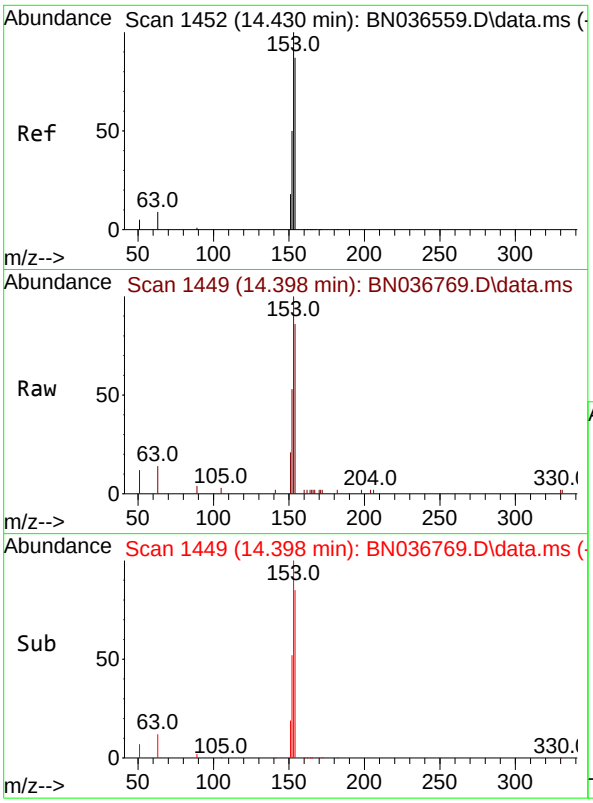



#16
Acenaphthylene
Concen: 0.400 ng
RT: 14.056 min Scan# 1417
Delta R.T. -0.021 min
Lab File: BN036769.D
Acq: 28 Mar 2025 12:47

Tgt Ion:152 Resp: 4729

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 19.8 | 16.2 | 24.4 |
| 153 | 13.0 | 10.6 | 15.8 |

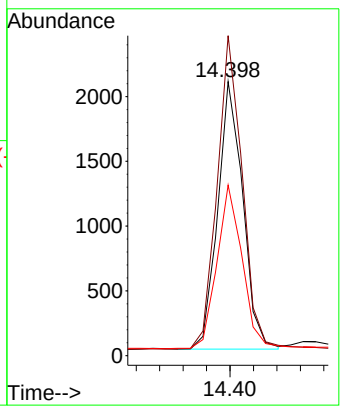





#17
Acenaphthene
Concen: 0.395 ng
RT: 14.398 min Scan# 14
Delta R.T. -0.032 min
Lab File: BN036769.D
Acq: 28 Mar 2025 12:47

Tgt Ion:154 Resp: 305

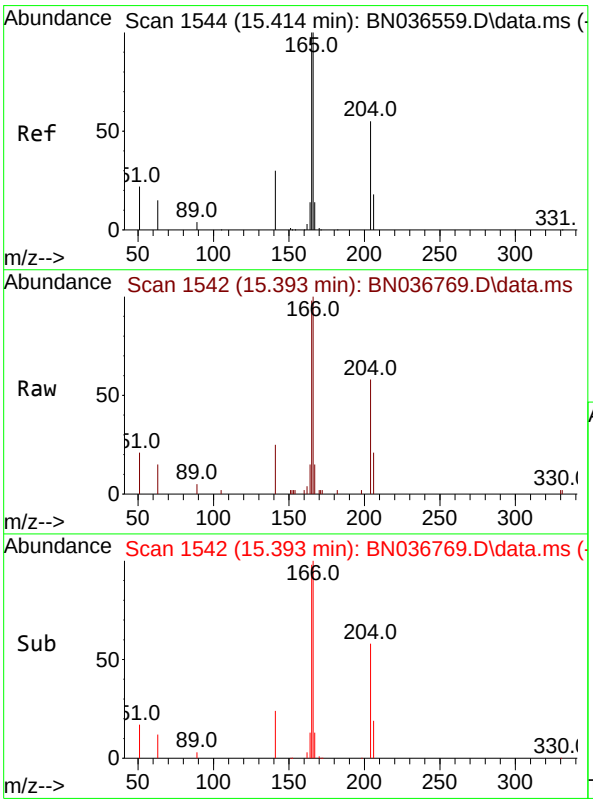
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 120.2 | 94.1 | 141.1 |
| 152 | 62.7 | 49.8 | 74.6 |




**Instrument :**
BNA_N
**ClientSampleId :**
TT188S1-20250320MS

**Manual Integrations**
**APPROVED**

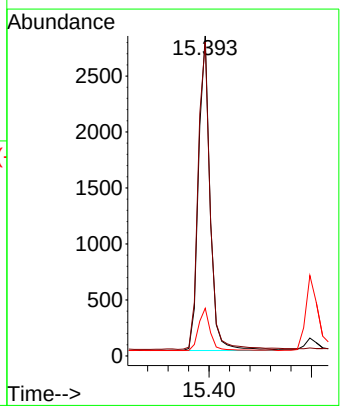
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

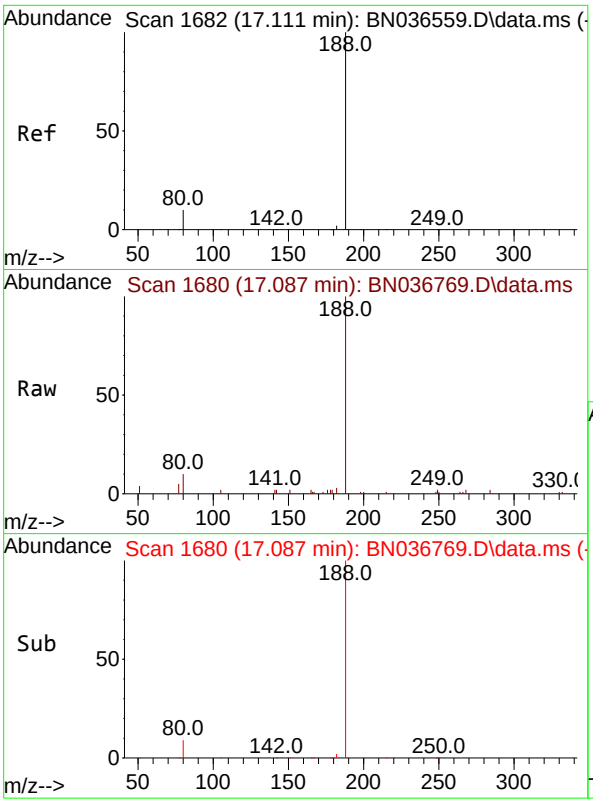



#18
Fluorene
Concen: 0.429 ng
RT: 15.393 min Scan# 1542
Delta R.T. -0.021 min
Lab File: BN036769.D
Acq: 28 Mar 2025 12:47

Tgt Ion:166 Resp: 4486

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 101.2 | 79.8 | 119.8 |
| 167 | 13.8 | 10.6 | 15.8 |






#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.087 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036769.D
Acq: 28 Mar 2025 12:47

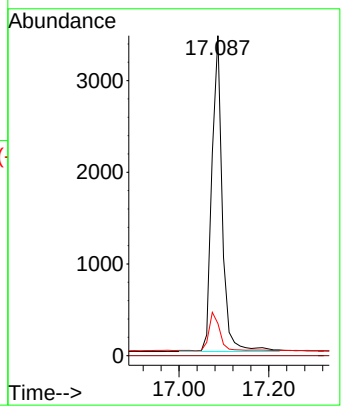
Tgt Ion:188 Resp: 551(

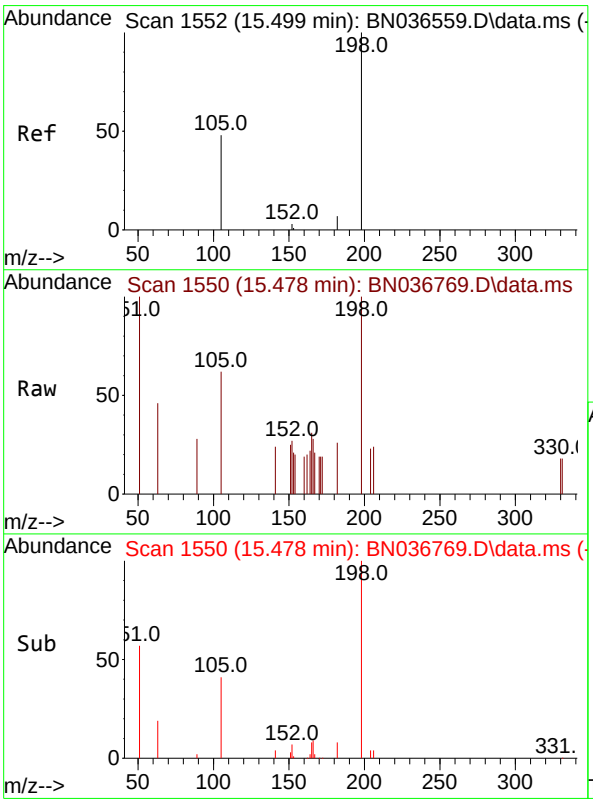
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 10.1 | 8.8 | 13.2 |

**Instrument :**
BNA_N
**ClientSampleId :**
TT188S1-20250320MS

**Manual Integrations**
**APPROVED**

Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

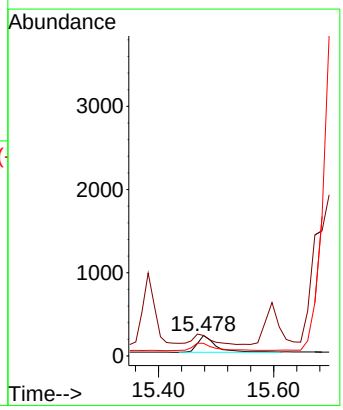


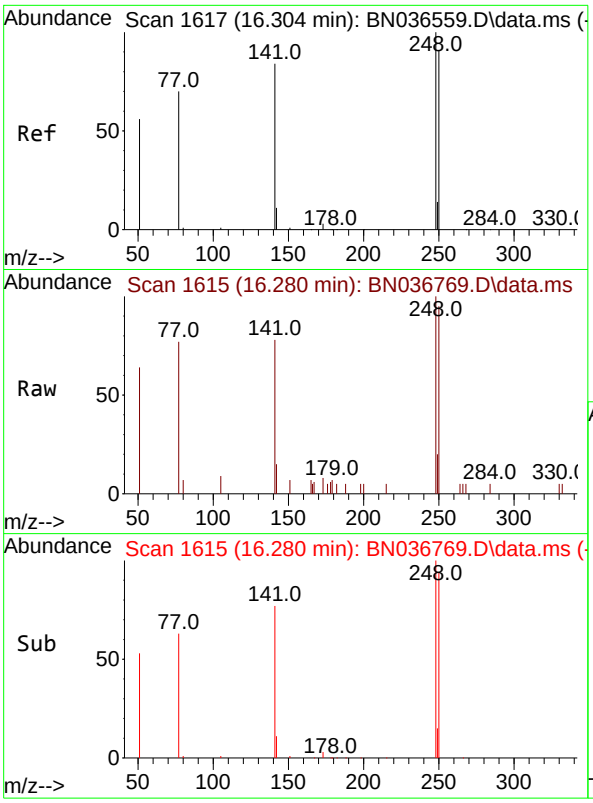




#20
4,6-Dinitro-2-methylphenol
Concen: 0.472 ng
RT: 15.478 min Scan# 1550
Delta R.T. -0.021 min
Lab File: BN036769.D
Acq: 28 Mar 2025 12:47

Tgt Ion:198 Resp: 460

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 198 | 100 | | |
| 51 | 100.0 | 107.9 | 161.9# |
| 105 | 61.5 | 56.2 | 84.2 |

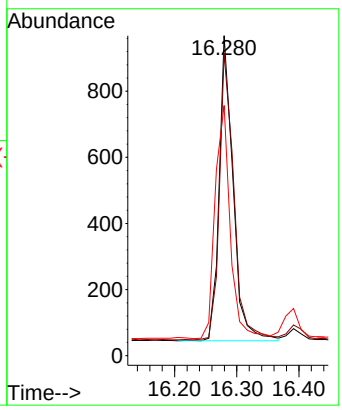





#21
4-Bromophenyl-phenylether
Concen: 0.415 ng
RT: 16.280 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036769.D
Acq: 28 Mar 2025 12:47

Tgt Ion:248 Resp: 143(

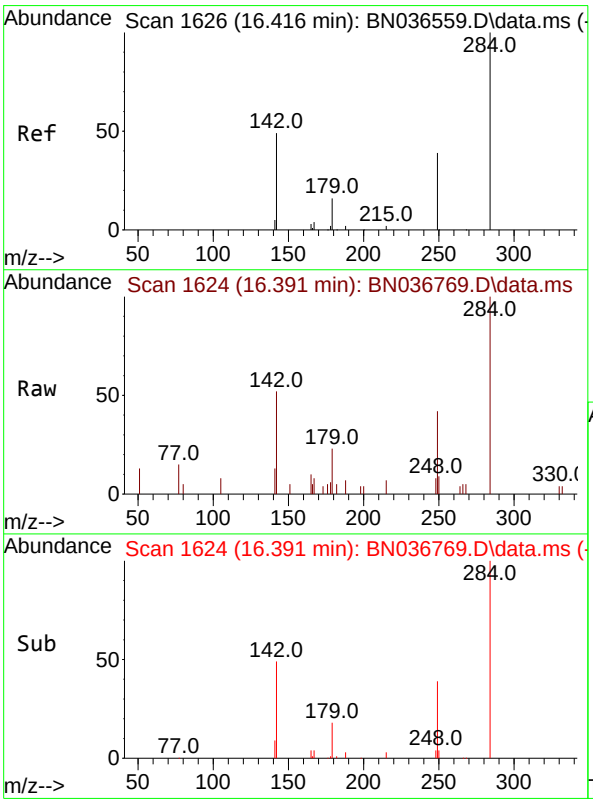
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 94.5 | 73.0 | 109.6 |
| 141 | 78.2 | 68.6 | 103.0 |




**Instrument :**
BNA_N
**ClientSampleId :**
TT188S1-20250320MS

**Manual Integrations**
**APPROVED**

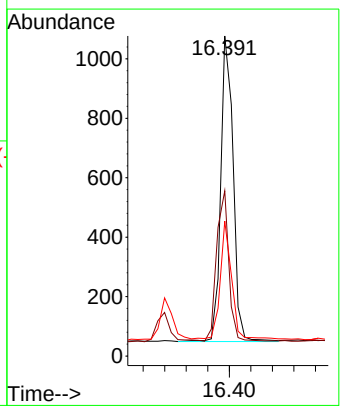
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

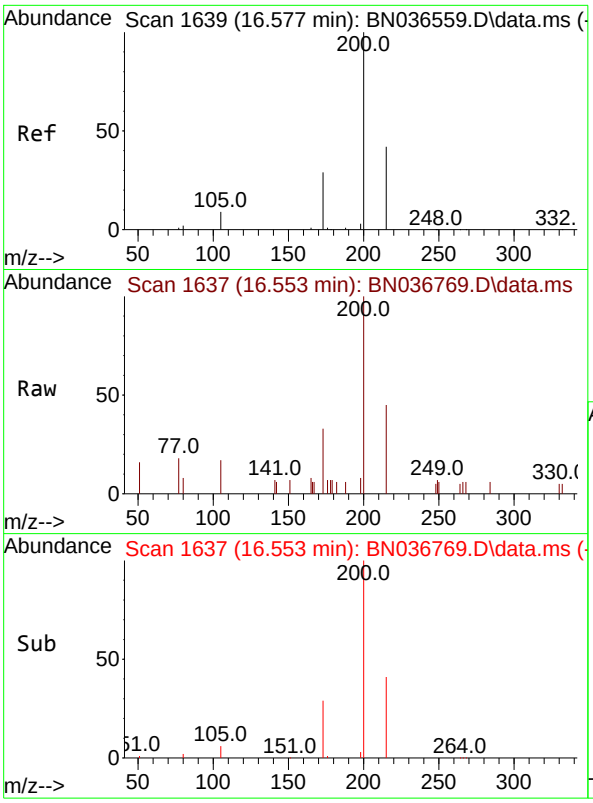



#22
Hexachlorobenzene
Concen: 0.395 ng
RT: 16.391 min Scan# 1624
Delta R.T. -0.025 min
Lab File: BN036769.D
Acq: 28 Mar 2025 12:47

Tgt Ion:284 Resp: 1647

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 48.1 | 37.0 | 55.4 |
| 249 | 36.3 | 28.1 | 42.1 |

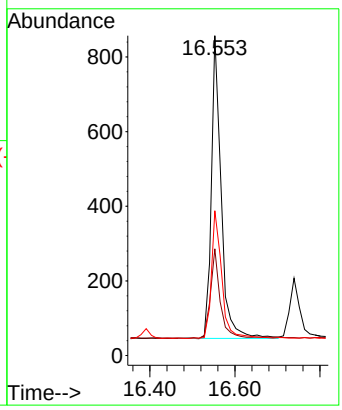





#23
Atrazine
Concen: 0.467 ng
RT: 16.553 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036769.D
Acq: 28 Mar 2025 12:47

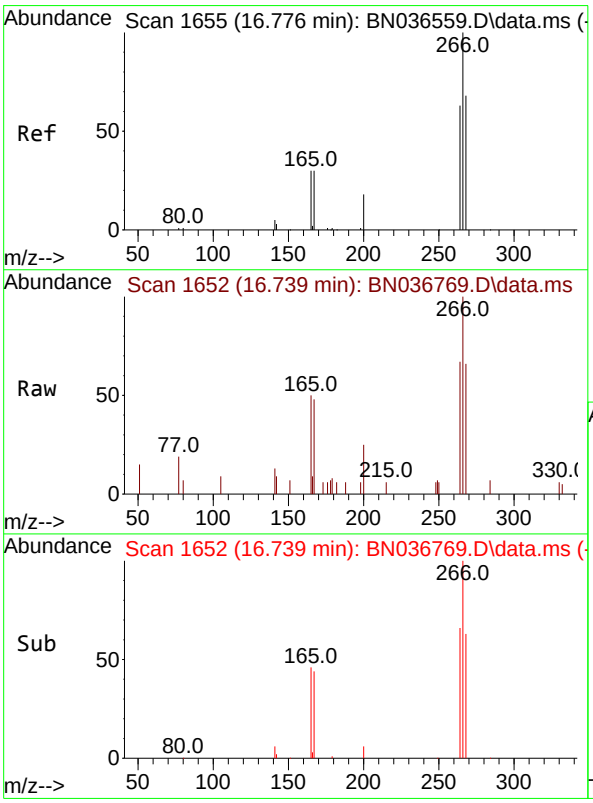
Tgt Ion:200 Resp: 129(

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 173 | 33.4 | 27.3 | 40.9 |
| 215 | 45.3 | 36.8 | 55.2 |




**Instrument :**
BNA_N
**ClientSampleId :**
TT188S1-20250320MS

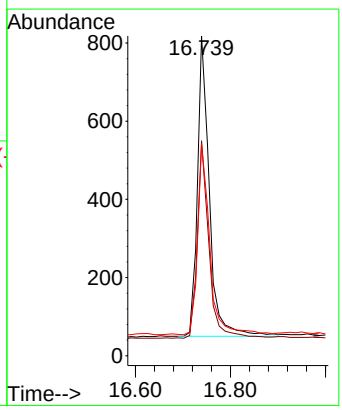
**Manual Integrations**
**APPROVED**
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

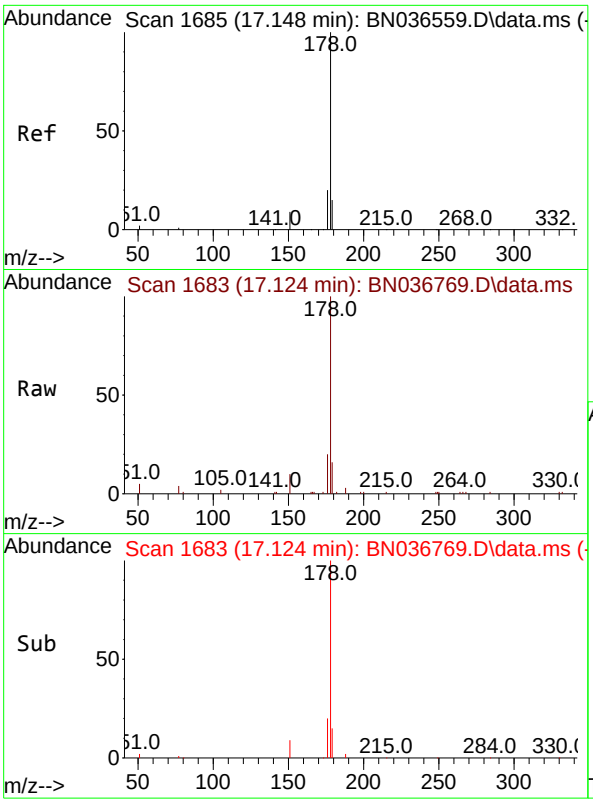



#24
Pentachlorophenol
Concen: 0.703 ng
RT: 16.739 min Scan# 1652
Delta R.T. -0.037 min
Lab File: BN036769.D
Acq: 28 Mar 2025 12:47

Tgt Ion:266 Resp: 1338

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 264 | 63.8 | 49.6 | 74.4 |
| 268 | 65.2 | 50.9 | 76.3 |

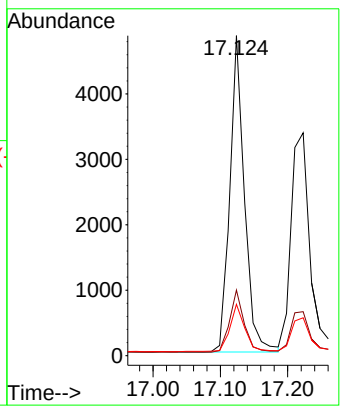





#25
Phenanthrene
Concen: 0.442 ng
RT: 17.124 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036769.D
Acq: 28 Mar 2025 12:47

Tgt Ion:178 Resp: 731(

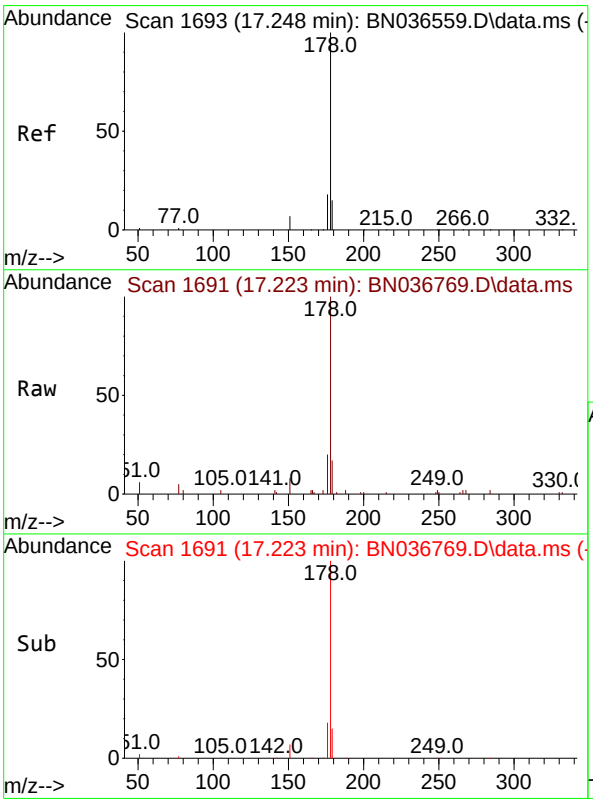
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.4 | 15.9 | 23.9 |
| 179 | 15.6 | 12.2 | 18.4 |




**Instrument :**
BNA_N
**ClientSampleId :**
TT188S1-20250320MS

**Manual Integrations**
**APPROVED**

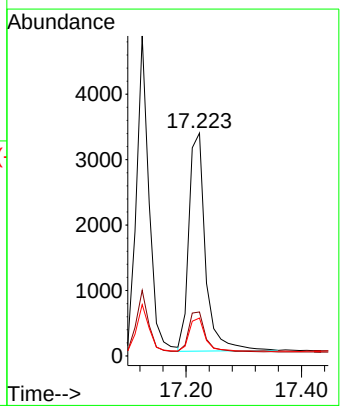
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

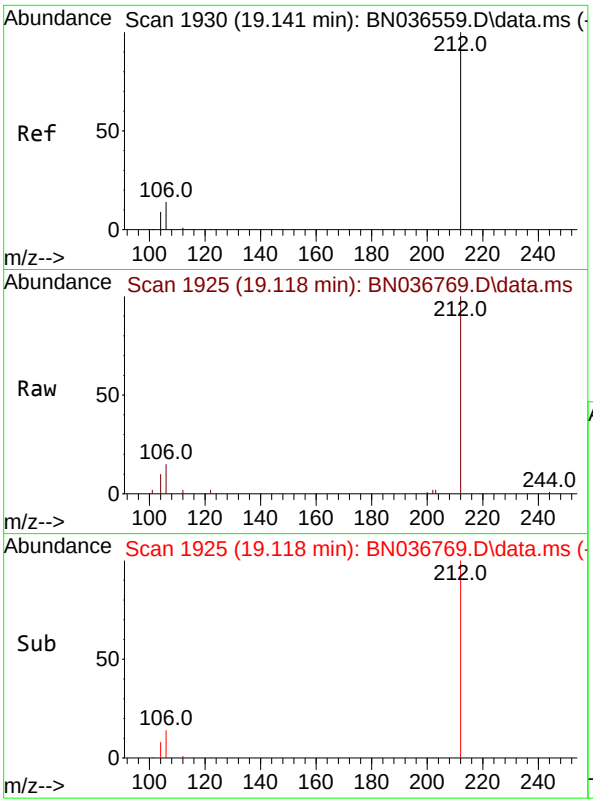



#26
Anthracene
Concen: 0.446 ng
RT: 17.223 min Scan# 1691
Delta R.T. -0.025 min
Lab File: BN036769.D
Acq: 28 Mar 2025 12:47

Tgt Ion:178 Resp: 6668

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.8 | 15.4 | 23.2 |
| 179 | 15.1 | 12.6 | 18.8 |

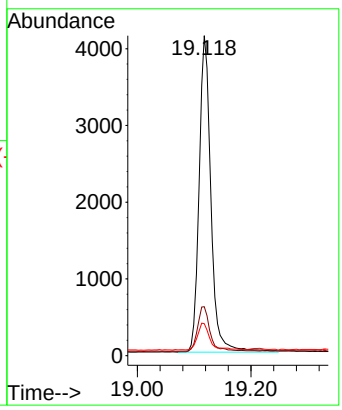





#27
Fluoranthene-d10
Concen: 0.420 ng
RT: 19.118 min Scan# 1
Delta R.T. -0.023 min
Lab File: BN036769.D
Acq: 28 Mar 2025 12:47

Tgt Ion:212 Resp: 593

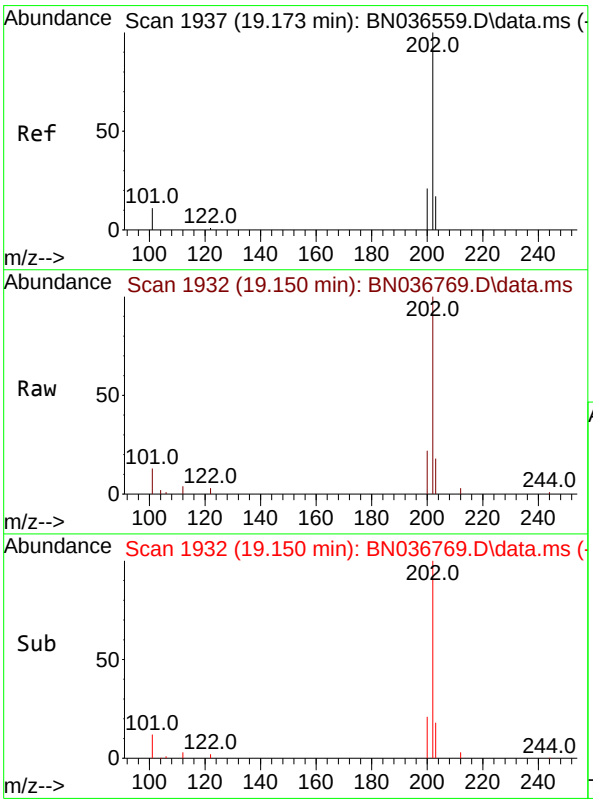
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 14.7 | 11.8 | 17.6 |
| 104 | 8.7 | 7.3 | 10.9 |




**Instrument :**
BNA_N
**ClientSampleId :**
TT188S1-20250320MS

**Manual Integrations**
**APPROVED**

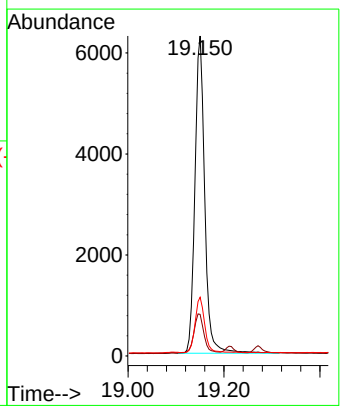
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

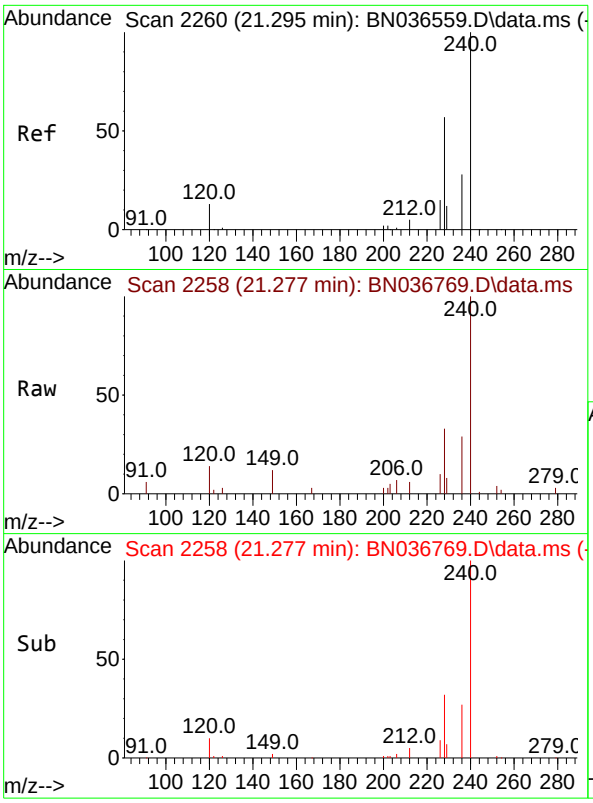



#28
Fluoranthene
Concen: 0.483 ng
RT: 19.150 min Scan# 1932
Delta R.T. -0.023 min
Lab File: BN036769.D
Acq: 28 Mar 2025 12:47

Tgt Ion:202 Resp: 8988

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 12.7 | 9.4 | 14.0 |
| 203 | 17.2 | 13.5 | 20.3 |

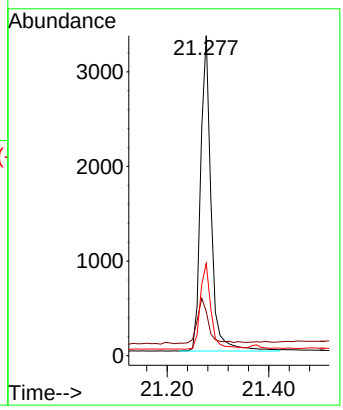





#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036769.D
Acq: 28 Mar 2025 12:47

Tgt Ion:240 Resp: 477

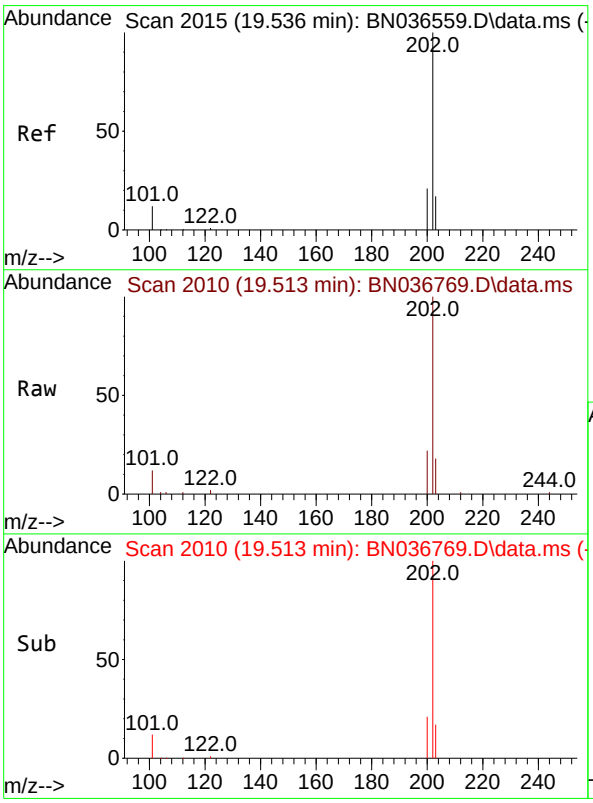
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 13.8 | 14.6 | 22.0 |
| 236 | 28.8 | 24.1 | 36.1 |




**Instrument :**
BNA_N
**ClientSampleId :**
TT188S1-20250320MS

**Manual Integrations**
**APPROVED**

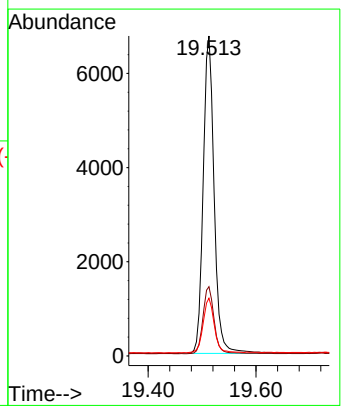
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

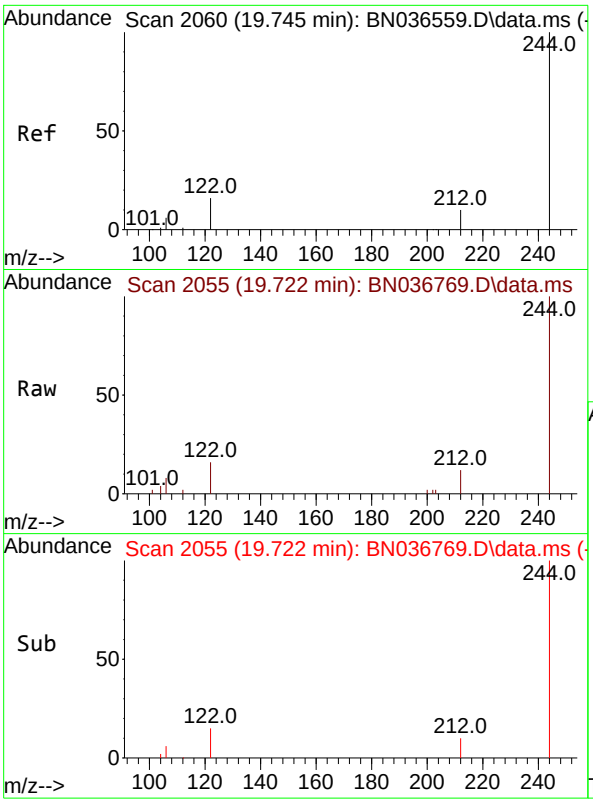



#30
Pyrene
Concen: 0.407 ng
RT: 19.513 min Scan# 2010
Delta R.T. -0.023 min
Lab File: BN036769.D
Acq: 28 Mar 2025 12:47

Tgt Ion:202 Resp: 9497

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.4 | 17.1 | 25.7 |
| 203 | 17.4 | 14.1 | 21.1 |

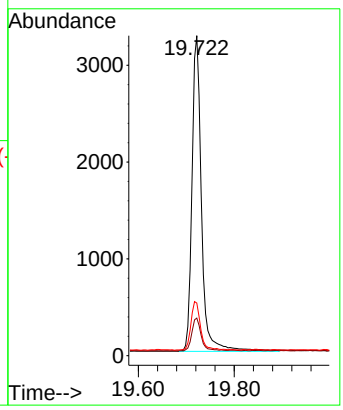





#31
Terphenyl-d14
Concen: 0.395 ng
RT: 19.722 min Scan# 2
Delta R.T. -0.023 min
Lab File: BN036769.D
Acq: 28 Mar 2025 12:47

Tgt Ion:244 Resp: 452

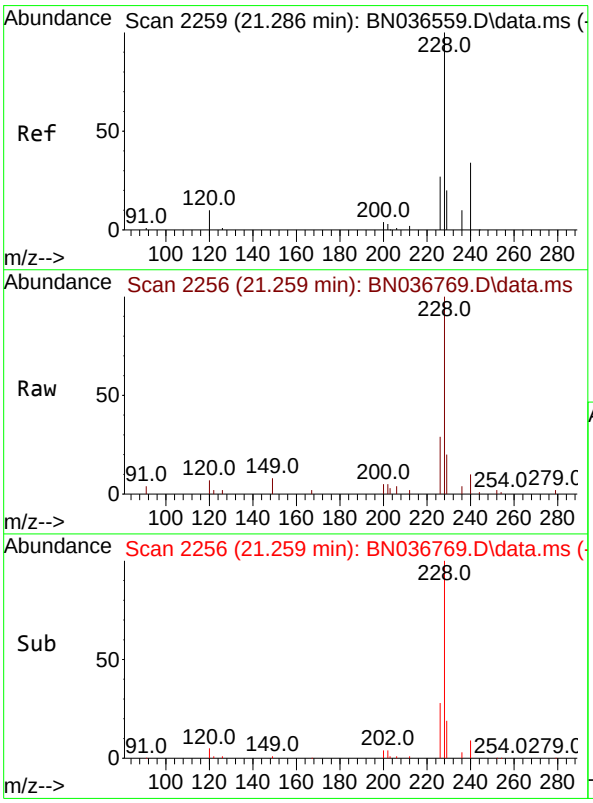
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 11.7 | 9.6 | 14.4 |
| 122 | 16.5 | 13.9 | 20.9 |




**Instrument :**
BNA_N
**ClientSampleId :**
TT188S1-20250320MS

**Manual Integrations**
**APPROVED**

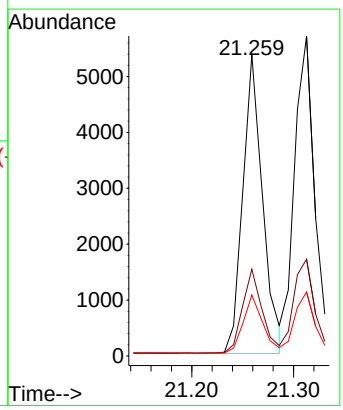
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

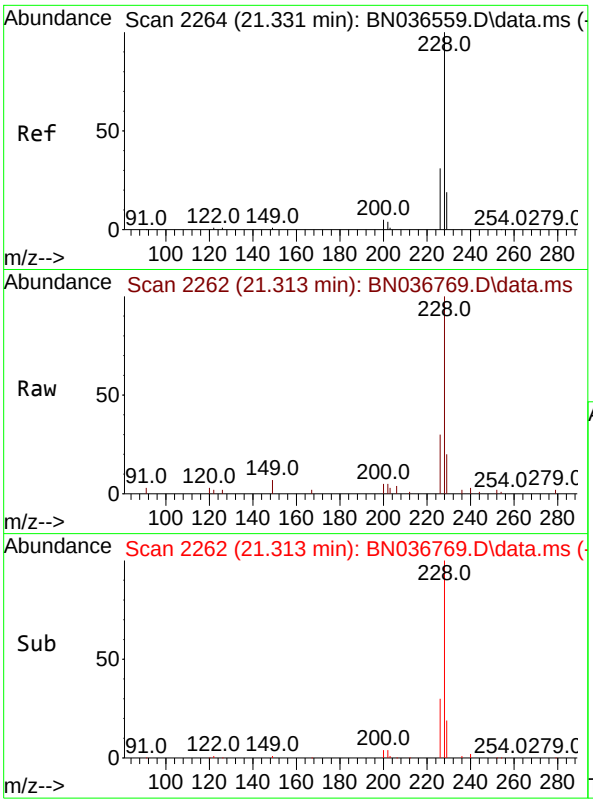



#32
Benzo(a)anthracene
Concen: 0.437 ng
RT: 21.259 min Scan# 2256
Delta R.T. -0.027 min
Lab File: BN036769.D
Acq: 28 Mar 2025 12:47

Tgt Ion:228 Resp: 7243

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 28.8 | 22.5 | 33.7 |
| 229 | 20.2 | 16.6 | 25.0 |

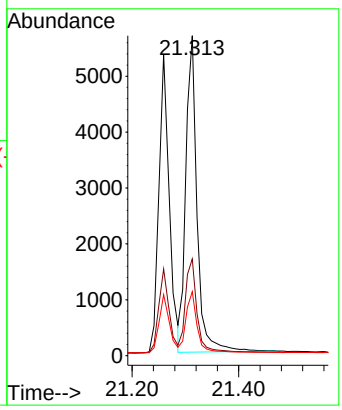





#33
Chrysene
Concen: 0.456 ng
RT: 21.313 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036769.D
Acq: 28 Mar 2025 12:47

Tgt Ion:228 Resp: 827

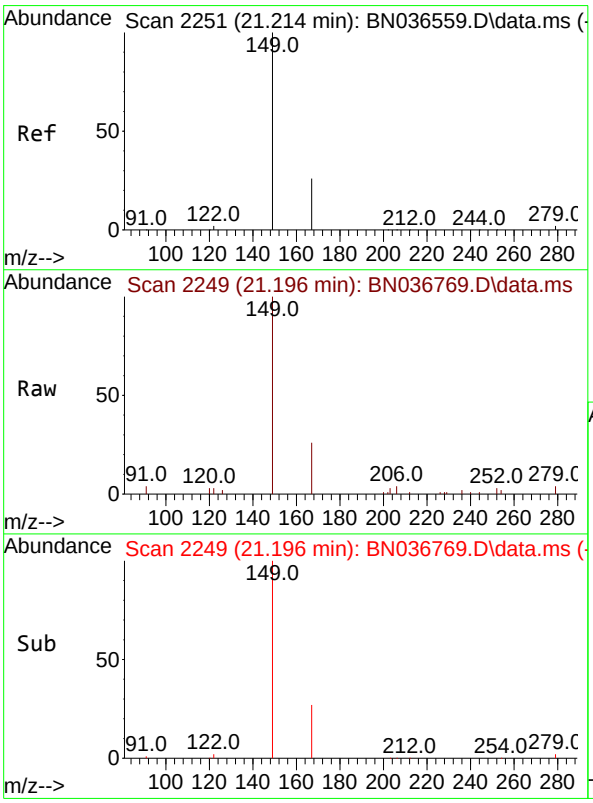
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 30.2 | 25.3 | 37.9 |
| 229 | 20.0 | 15.8 | 23.8 |




**Instrument :**
BNA_N
**ClientSampleId :**
TT188S1-20250320MS

**Manual Integrations**
**APPROVED**

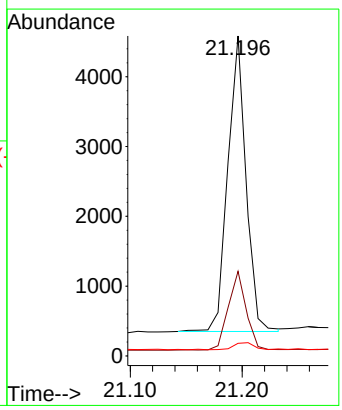
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

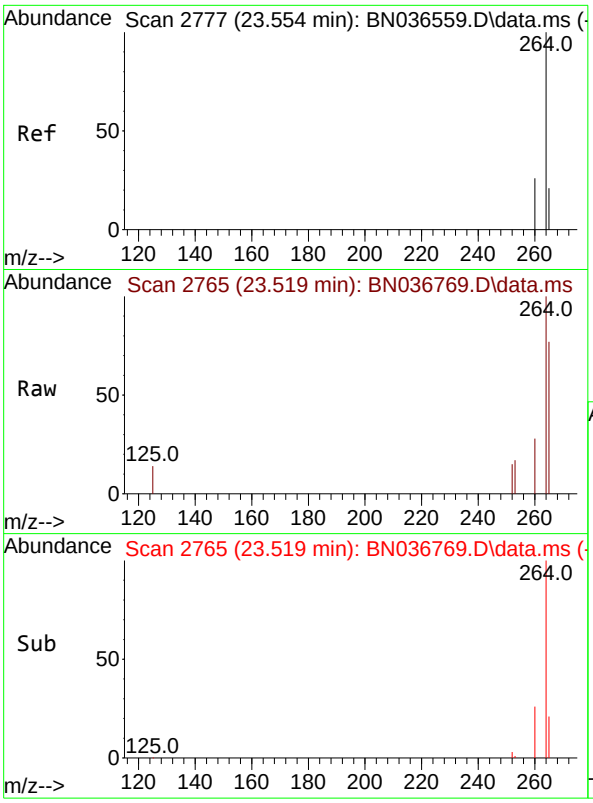



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.405 ng
RT: 21.196 min Scan# 2249
Delta R.T. -0.018 min
Lab File: BN036769.D
Acq: 28 Mar 2025 12:47

Tgt Ion:149 Resp: 4790

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 26.0 | 20.7 | 31.1 |
| 279 | 3.1 | 3.6 | 5.4# |

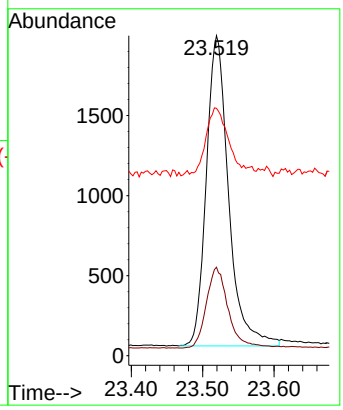





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.519 min Scan# 2
Delta R.T. -0.035 min
Lab File: BN036769.D
Acq: 28 Mar 2025 12:47

Tgt Ion:264 Resp: 420

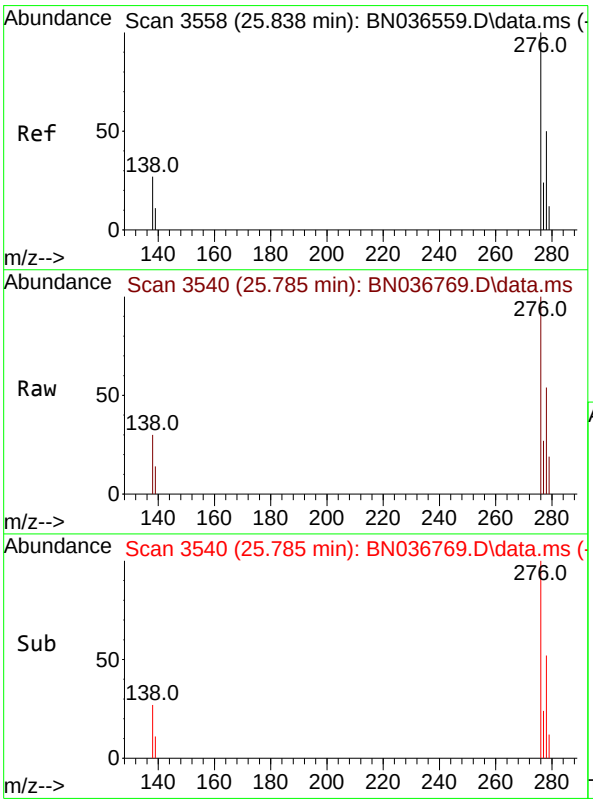
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 27.7 | 22.6 | 33.8 |
| 265 | 77.3 | 88.1 | 132.1# |




**Instrument :**
BNA_N
**ClientSampleId :**
TT188S1-20250320MS

**Manual Integrations**
**APPROVED**

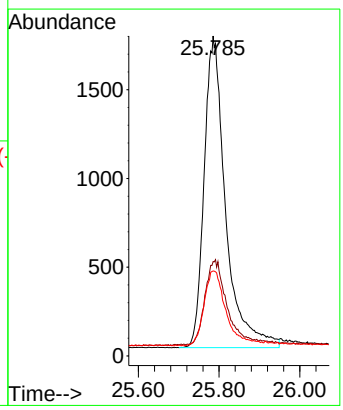
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

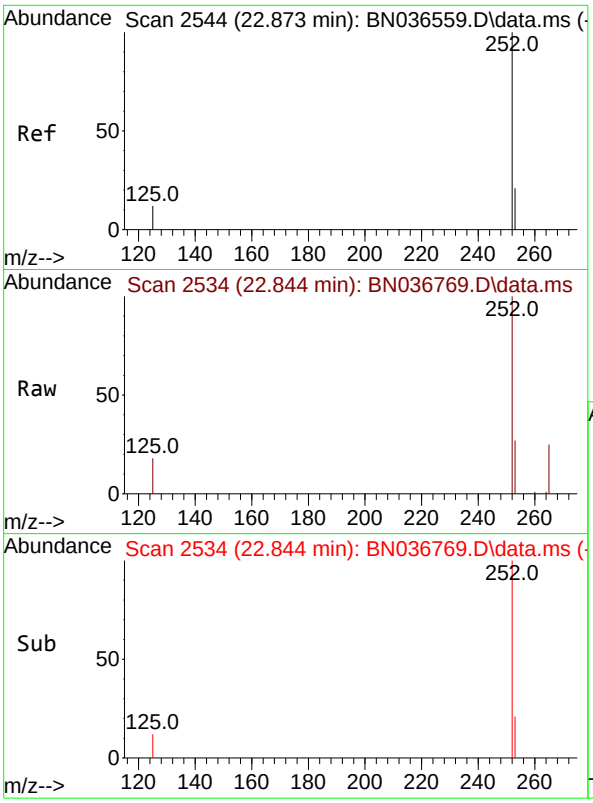



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.427 ng
RT: 25.785 min Scan# 3540
Delta R.T. -0.052 min
Lab File: BN036769.D
Acq: 28 Mar 2025 12:47

Tgt Ion:276 Resp: 6488

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 27.3 | 23.4 | 35.2 |
| 277 | 24.7 | 20.0 | 30.0 |

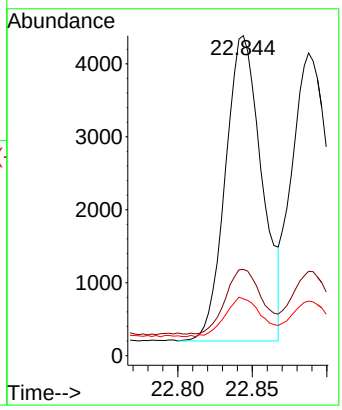





#37
Benzo(b)fluoranthene
Concen: 0.465 ng
RT: 22.844 min Scan# 2
Delta R.T. -0.029 min
Lab File: BN036769.D
Acq: 28 Mar 2025 12:47

Tgt Ion:252 Resp: 711

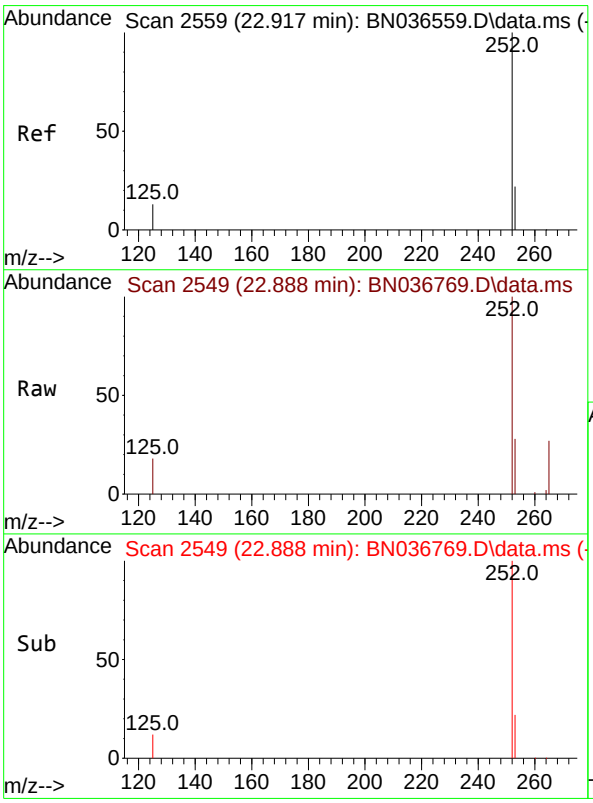
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 26.9 | 23.9 | 35.9 |
| 125 | 17.8 | 17.4 | 26.2 |




**Instrument :**
BNA_N
**ClientSampleId :**
TT188S1-20250320MS

**Manual Integrations**
**APPROVED**

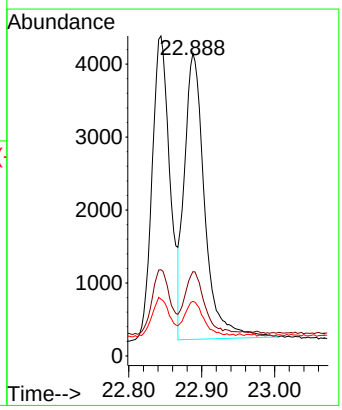
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

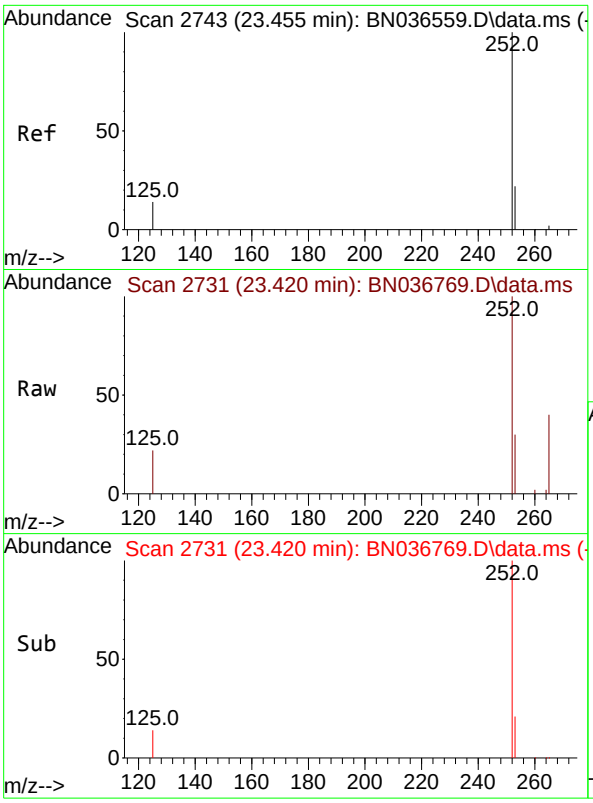



#38
Benzo(k)fluoranthene
Concen: 0.470 ng
RT: 22.888 min Scan# 2549
Delta R.T. -0.029 min
Lab File: BN036769.D
Acq: 28 Mar 2025 12:47

Tgt Ion:252 Resp: 7550

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 27.9 | 24.6 | 36.8 |
| 125 | 18.0 | 17.8 | 26.8 |

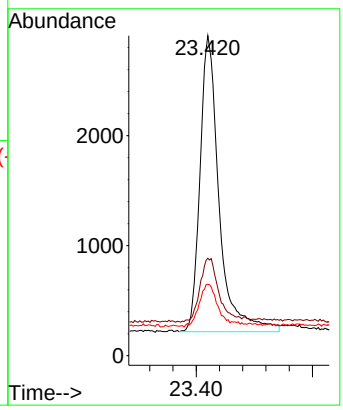





#39
Benzo(a)pyrene
Concen: 0.476 ng
RT: 23.420 min Scan# 2
Delta R.T. -0.035 min
Lab File: BN036769.D
Acq: 28 Mar 2025 12:47

Tgt Ion:252 Resp: 613

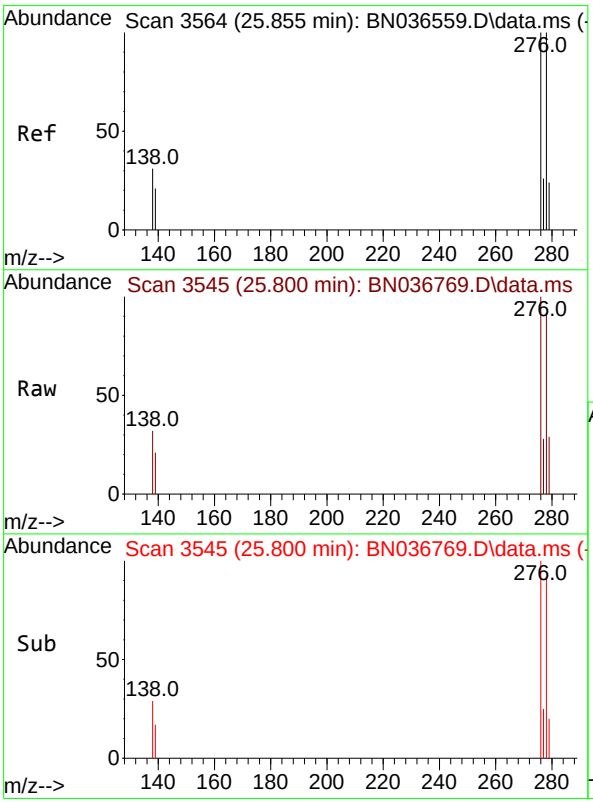
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 30.5 | 27.8 | 41.8 |
| 125 | 22.3 | 22.7 | 34.1# |




**Instrument :**
BNA_N
**ClientSampleId :**
TT188S1-20250320MS

**Manual Integrations**
**APPROVED**

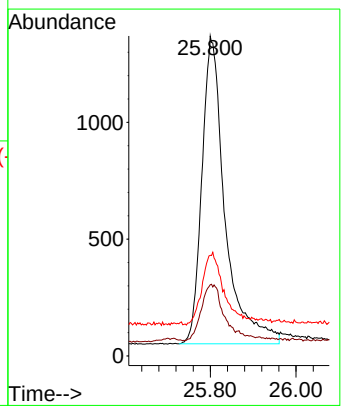
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

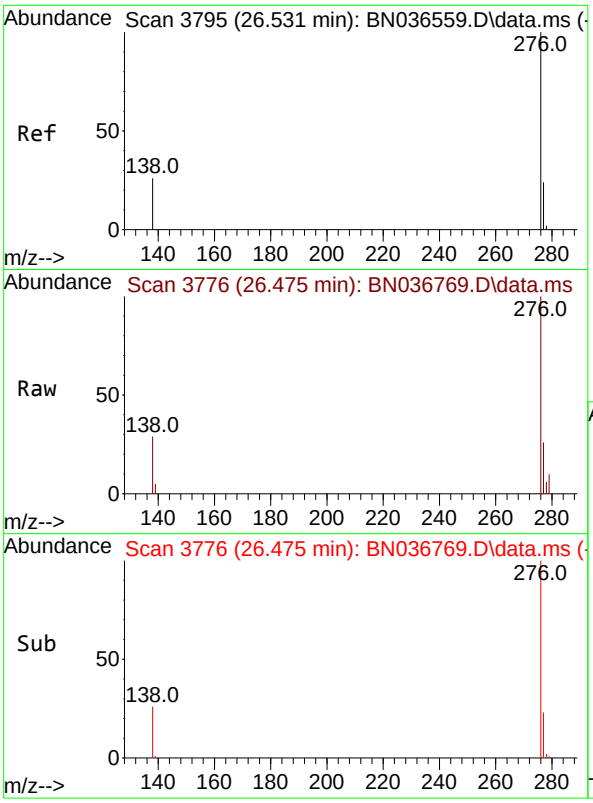



#40
Dibenzo(a,h)anthracene
Concen: 0.418 ng
RT: 25.800 min Scan# 3545
Delta R.T. -0.055 min
Lab File: BN036769.D
Acq: 28 Mar 2025 12:47

Tgt Ion:278 Resp: 4935

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 22.3 | 20.8 | 31.2 |
| 279 | 31.5 | 28.8 | 43.2 |

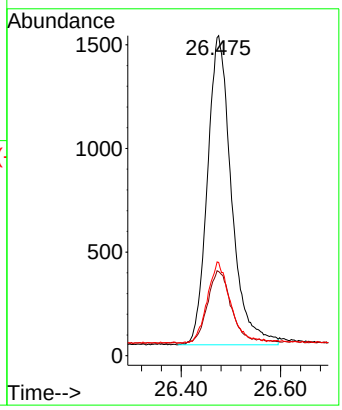





#41
Benzo(g,h,i)perylene
Concen: 0.371 ng
RT: 26.475 min Scan# 3
Delta R.T. -0.055 min
Lab File: BN036769.D
Acq: 28 Mar 2025 12:47

Tgt Ion:276 Resp: 501

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 26.3 | 22.2 | 33.4 |
| 138 | 29.1 | 24.1 | 36.1 |




**Instrument :**
BNA_N
**ClientSampleId :**
TT188S1-20250320MS

**Manual Integrations**
**APPROVED**

Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

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: | 03/20/25 |
| Project: | NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258 | Date Received: | 03/21/25 |
| Client Sample ID: | RW09-MW01S-20250320MS | SDG No.: | Q1629 |
| Lab Sample ID: | Q1629-15MS | 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 |
|---|---|---|---|---|
| BN036812.D | 1 | 03/25/25 08:41 | 03/31/25 13:04 | PB167295 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 123-91-1 | 1,4-Dioxane | 0.82 | | 0.070 | 0.20 | 0.20 | ug/L |
| **SURROGATES** | | | | | | | |
| 7297-45-2 | 2-Methylnaphthalene-d10 | 0.30 | | 30 - 150 | | 75% | SPK: 0.4 |
| 93951-69-0 | Fluoranthene-d10 | 0.38 | | 30 - 150 | | 95% | SPK: 0.4 |
| 4165-60-0 | Nitrobenzene-d5 | 0.26 | | 55 - 111 | | 64% | SPK: 0.4 |
| 321-60-8 | 2-Fluorobiphenyl | 0.30 | | 53 - 106 | | 75% | SPK: 0.4 |
| 1718-51-0 | Terphenyl-d14 | 0.35 | | 58 - 132 | | 86% | SPK: 0.4 |
| **INTERNAL STANDARDS** | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 1330 | 7.696 | | | | |
| 1146-65-2 | Naphthalene-d8 | 3450 | 10.477 | | | | |
| 15067-26-2 | Acenaphthene-d10 | 2070 | 14.334 | | | | |
| 1517-22-2 | Phenanthrene-d10 | 4570 | 17.087 | | | | |
| 1719-03-5 | Chrysene-d12 | 3720 | 21.277 | | | | |
| 1520-96-3 | Perylene-d12 | 3240 | 23.514 | | | | |

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\BN033125\
Data File : BN036812.D
Acq On : 31 Mar 2025 13:04
Operator : RC/JU
Sample : Q1629-15MS
Misc :
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01S-20250320MS

**Manual Integrations APPROVED**
Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

Quant Time: Mar 31 13:51:32 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.696 | 152 | 1333 | 0.400 | ng | -0.03 |
| 7) Naphthalene-d8 | 10.477 | 136 | 3452 | 0.400 | ng | -0.03 |
| 13) Acenaphthene-d10 | 14.334 | 164 | 2071 | 0.400 | ng | -0.03 |
| 19) Phenanthrene-d10 | 17.087 | 188 | 4565 | 0.400 | ng | -0.02 |
| 29) Chrysene-d12 | 21.277 | 240 | 3721 | 0.400 | ng | #-0.02 |
| 35) Perylene-d12 | 23.514 | 264 | 3243 | 0.400 | ng | #-0.04 |
| System Monitoring Compounds | | | | | | |
| 4) 2-Fluorophenol | 5.291 | 112 | 343 | 0.110 | ng | -0.02 |
| 5) Phenol-d6 | 6.872 | 99 | 244 | 0.064 | ng | -0.03 |
| 8) Nitrobenzene-d5 | 8.843 | 82 | 968 | 0.258 | ng | -0.03 |
| 11) 2-Methylnaphthalene-d10 | 12.075 | 152 | 1542m | 0.300 | ng | -0.04 |
| 14) 2,4,6-Tribromophenol | 15.833 | 330 | 298 | 0.317 | ng | -0.02 |
| 15) 2-Fluorobiphenyl | 12.958 | 172 | 3585 | 0.298 | ng | -0.03 |
| 27) Fluoranthene-d10 | 19.113 | 212 | 4467 | 0.382 | ng | -0.03 |
| 31) Terphenyl-d14 | 19.717 | 244 | 3076 | 0.345 | ng | -0.03 |
| Target Compounds | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.218 | 88 | 1205 | 0.815 | ng | # 74 |
| 3) n-Nitrosodimethylamine | 3.536 | 42 | 424 | 0.142 | ng | # 97 |
| 6) bis(2-Chloroethyl)ether | 7.125 | 93 | 1162 | 0.293 | ng | 95 |
| 9) Naphthalene | 10.530 | 128 | 3143 | 0.310 | ng | 97 |
| 10) Hexachlorobutadiene | 10.819 | 225 | 645 | 0.270 | ng | # 99 |
| 12) 2-Methylnaphthalene | 12.146 | 142 | 2086 | 0.323 | ng | 97 |
| 16) Acenaphthylene | 14.056 | 152 | 3407 | 0.349 | ng | 99 |
| 17) Acenaphthene | 14.398 | 154 | 2173 | 0.340 | ng | 100 |
| 18) Fluorene | 15.382 | 166 | 3010 | 0.348 | ng | 100 |
| 20) 4,6-Dinitro-2-methylph... | 15.478 | 198 | 276 | 0.383 | ng | 90 |
| 21) 4-Bromophenyl-phenylether | 16.280 | 248 | 972 | 0.340 | ng | 92 |
| 22) Hexachlorobenzene | 16.392 | 284 | 1104 | 0.320 | ng | 94 |
| 23) Atrazine | 16.553 | 200 | 961 | 0.419 | ng | 96 |
| 24) Pentachlorophenol | 16.739 | 266 | 749 | 0.476 | ng | 97 |
| 25) Phenanthrene | 17.124 | 178 | 5123 | 0.374 | ng | 100 |
| 26) Anthracene | 17.211 | 178 | 4690 | 0.380 | ng | 99 |
| 28) Fluoranthene | 19.146 | 202 | 6331 | 0.412 | ng | 98 |
| 30) Pyrene | 19.508 | 202 | 6526 | 0.359 | ng | 99 |
| 32) Benzo(a)anthracene | 21.259 | 228 | 4950 | 0.383 | ng | 98 |
| 33) Chrysene | 21.313 | 228 | 5624 | 0.398 | ng | 98 |
| 34) Bis(2-ethylhexyl)phtha... | 21.196 | 149 | 3839 | 0.417 | ng | 98 |
| 36) Indeno(1,2,3-cd)pyrene | 25.779 | 276 | 4261 | 0.364 | ng | 95 |
| 37) Benzo(b)fluoranthene | 22.841 | 252 | 4590 | 0.389 | ng | 96 |
| 38) Benzo(k)fluoranthene | 22.888 | 252 | 4906 | 0.396 | ng | 95 |
| 39) Benzo(a)pyrene | 23.420 | 252 | 4050 | 0.408 | ng | 95 |
| 40) Dibenzo(a,h)anthracene | 25.797 | 278 | 3226 | 0.354 | ng | 98 |
| 41) Benzo(g,h,i)perylene | 26.472 | 276 | 3674 | 0.352 | ng | 96 |

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

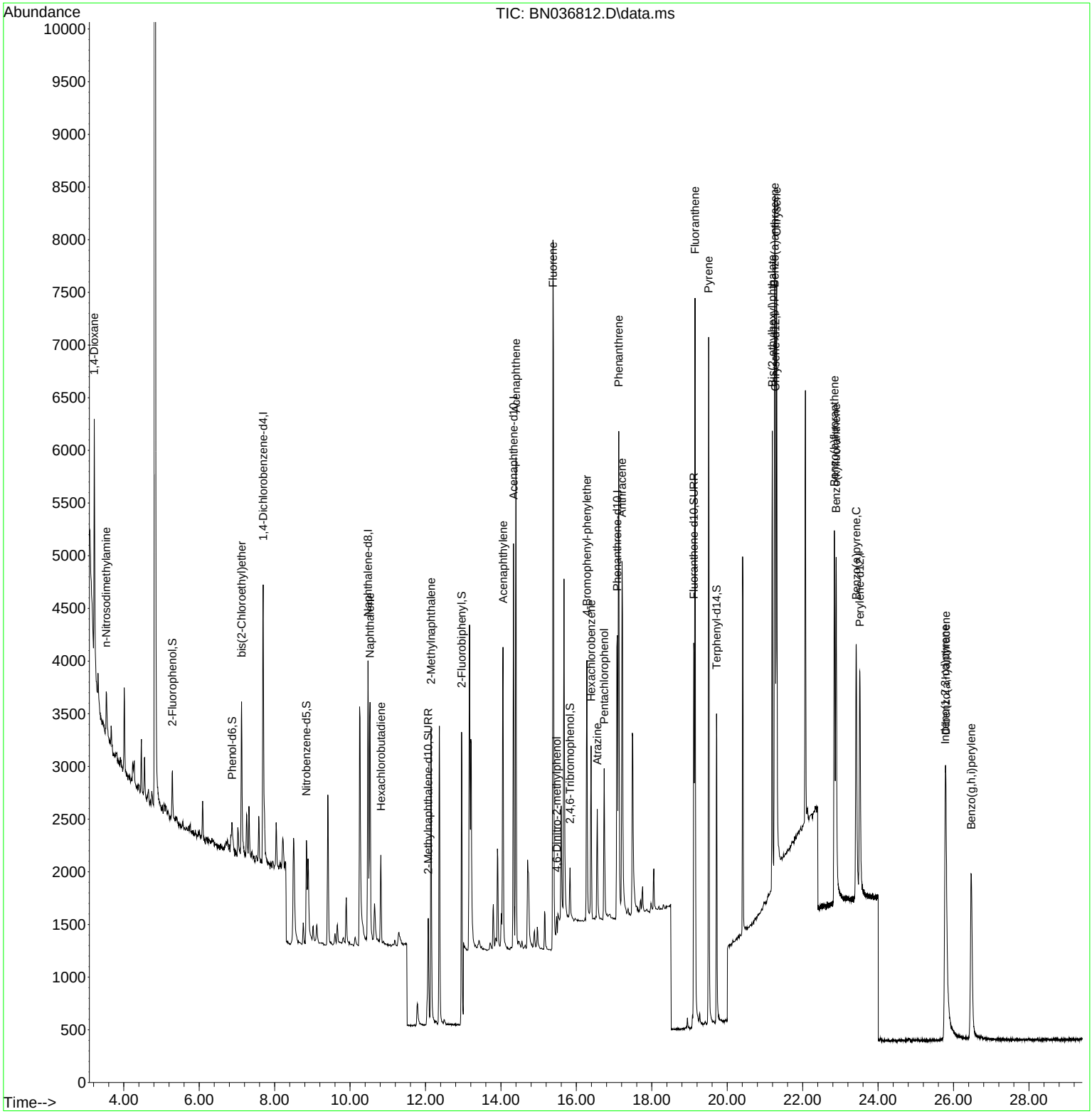
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN033125\
Data File : BN036812.D
Acq On : 31 Mar 2025 13:04
Operator : RC/JU
Sample : Q1629-15MS
Misc :
ALS Vial : 5 Sample Multiplier: 1

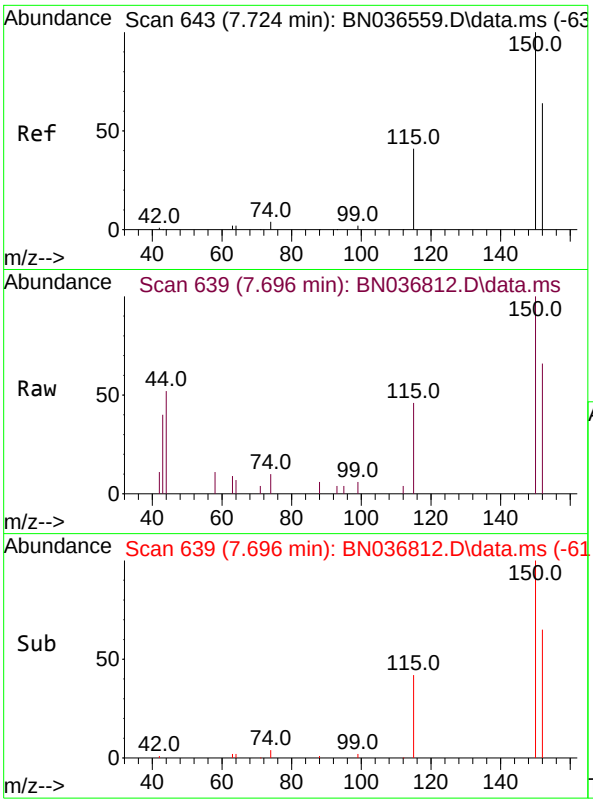
Quant Time: Mar 31 13:51:32 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01S-20250320MS

**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

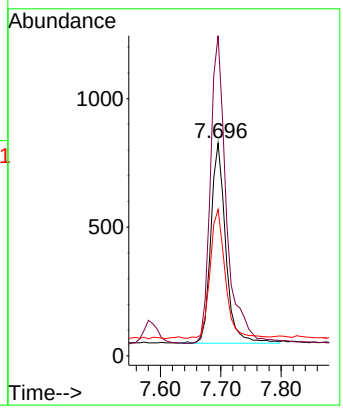





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.696 min Scan# 6
Delta R.T. -0.028 min
Lab File: BN036812.D
Acq: 31 Mar 2025 13:04

Tgt Ion:152 Resp: 133

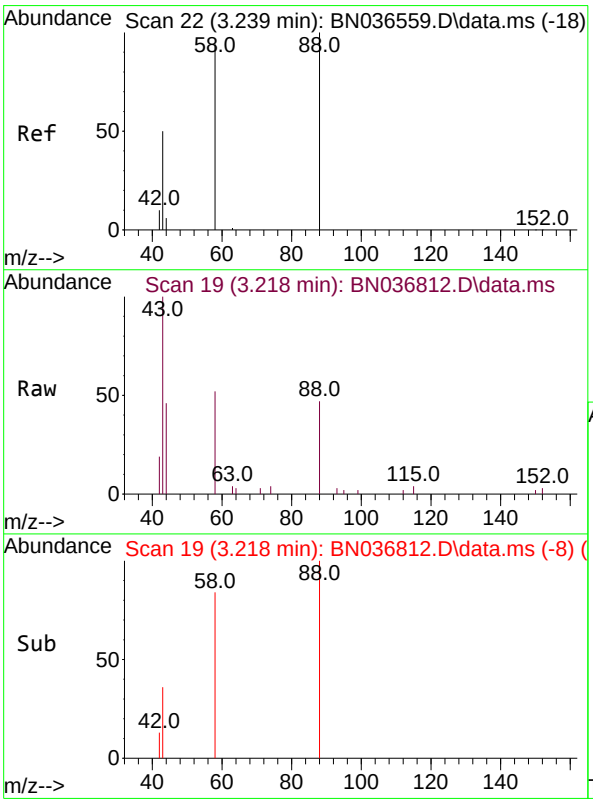
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 150.5 | 123.7 | 185.5 |
| 115 | 68.8 | 54.3 | 81.5 |




**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01S-20250320MS

**Manual Integrations**
**APPROVED**

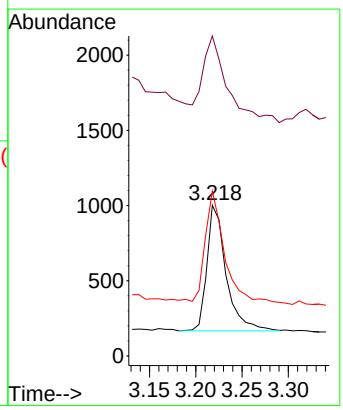
Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

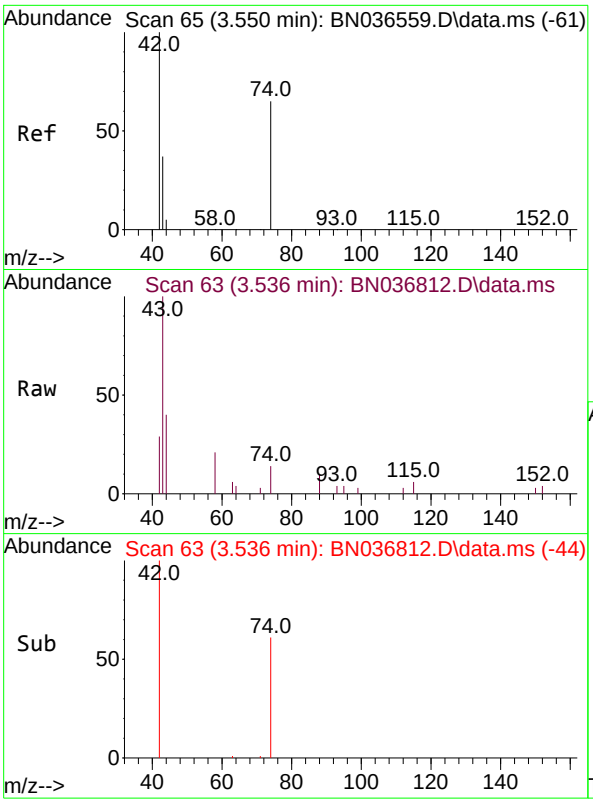



#2
1,4-Dioxane
Concen: 0.815 ng
RT: 3.218 min Scan# 19
Delta R.T. -0.021 min
Lab File: BN036812.D
Acq: 31 Mar 2025 13:04

Tgt Ion: 88 Resp: 1205

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 88.2 | 37.8 | 56.8# |
| 58 | 90.6 | 67.4 | 101.2 |

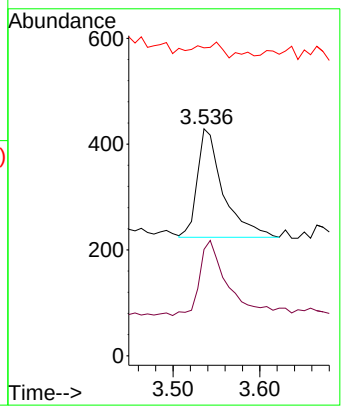





#3
n-Nitrosodimethylamine
Concen: 0.142 ng
RT: 3.536 min Scan# 6
Delta R.T. -0.014 min
Lab File: BN036812.D
Acq: 31 Mar 2025 13:04

Tgt Ion: 42 Resp: 42

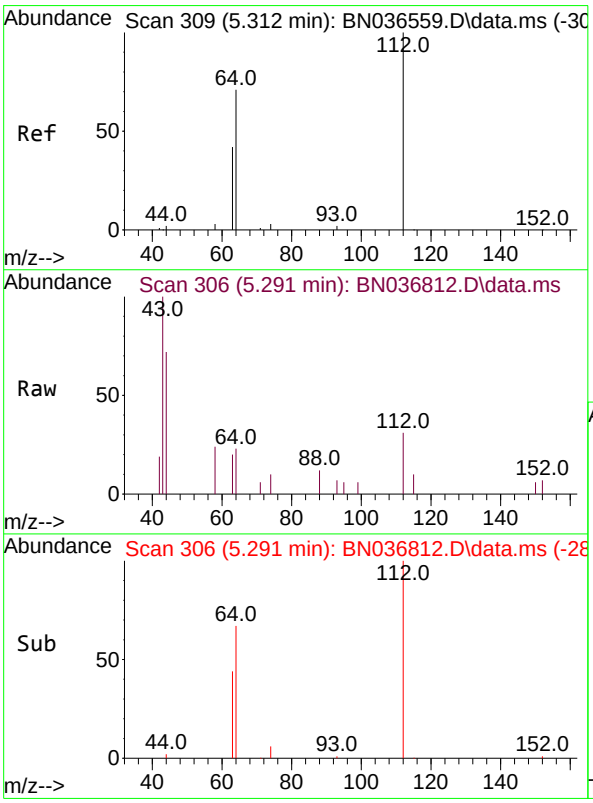
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 77.1 | 60.6 | 90.8 |
| 44 | 12.7 | 6.3 | 9.5# |




**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01S-20250320MS

**Manual Integrations**
**APPROVED**

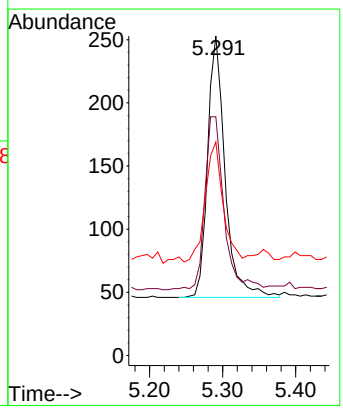
Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

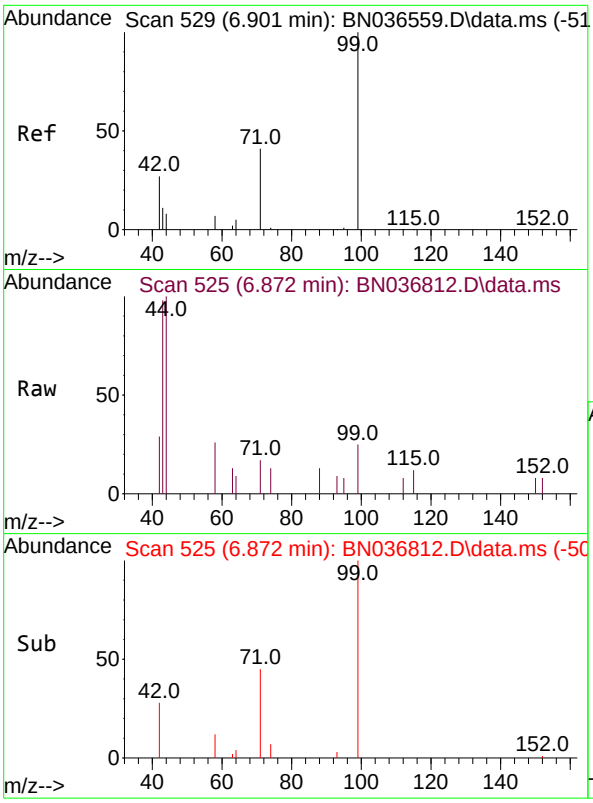



#4
2-Fluorophenol
Concen: 0.110 ng
RT: 5.291 min Scan# 306
Delta R.T. -0.021 min
Lab File: BN036812.D
Acq: 31 Mar 2025 13:04

Tgt Ion:112 Resp: 343

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 72.6 | 53.1 | 79.7 |
| 63 | 48.7 | 31.8 | 47.8# |

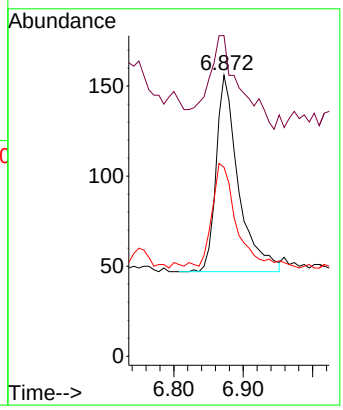





#5
Phenol-d6
Concen: 0.064 ng
RT: 6.872 min Scan# 5
Delta R.T. -0.029 min
Lab File: BN036812.D
Acq: 31 Mar 2025 13:04

Tgt Ion: 99 Resp: 24

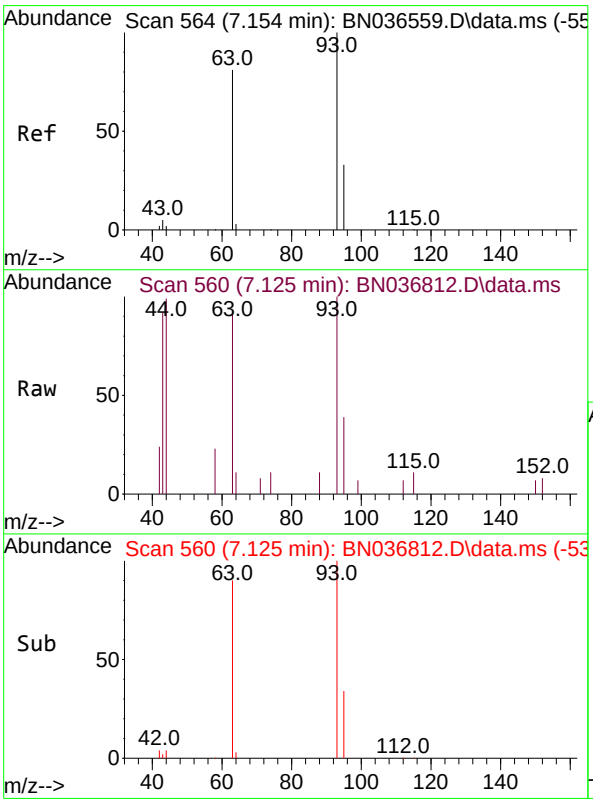
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 67.2 | 26.5 | 39.7# |
| 71 | 59.8 | 34.1 | 51.1# |




**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01S-20250320MS

**Manual Integrations**
**APPROVED**

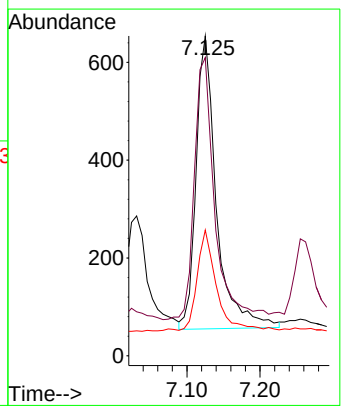
Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

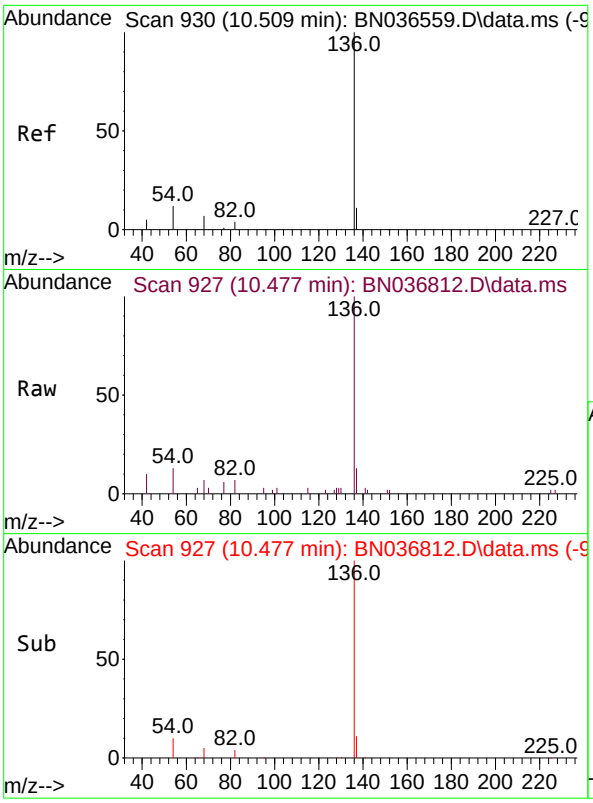



#6
bis(2-Chloroethyl)ether
Concen: 0.293 ng
RT: 7.125 min Scan# 560
Delta R.T. -0.029 min
Lab File: BN036812.D
Acq: 31 Mar 2025 13:04

Tgt Ion: 93 Resp: 1162

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 89.7 | 67.7 | 101.5 |
| 95 | 33.8 | 25.6 | 38.4 |

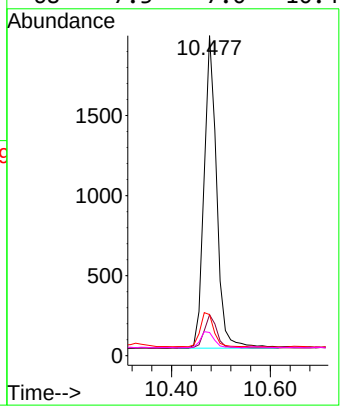





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.477 min Scan# 9
Delta R.T. -0.032 min
Lab File: BN036812.D
Acq: 31 Mar 2025 13:04

Tgt Ion:136 Resp: 345

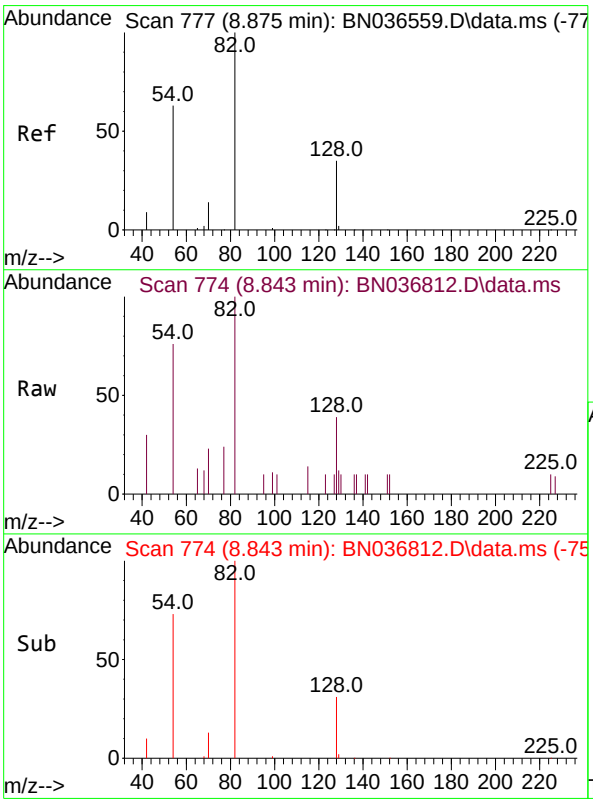
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 12.8 | 10.3 | 15.5 |
| 54 | 12.9 | 11.5 | 17.3 |
| 68 | 7.3 | 7.0 | 10.4 |




**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01S-20250320MS

**Manual Integrations**
**APPROVED**

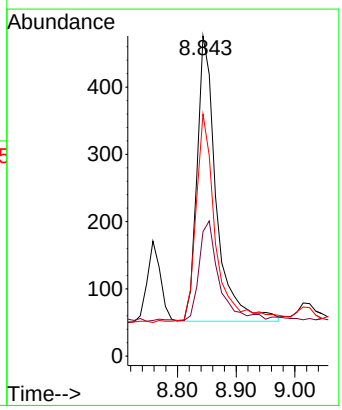
Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

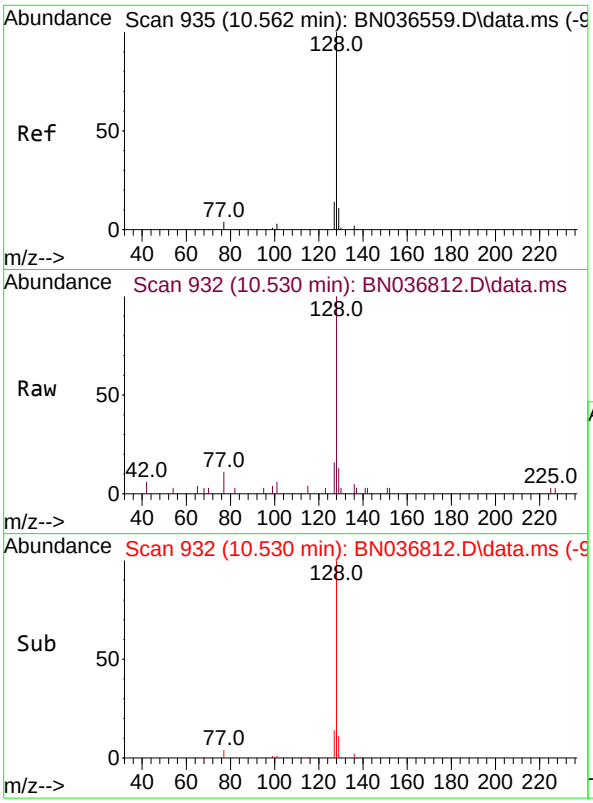



#8
Nitrobenzene-d5
Concen: 0.258 ng
RT: 8.843 min Scan# 774
Delta R.T. -0.032 min
Lab File: BN036812.D
Acq: 31 Mar 2025 13:04

Tgt Ion: 82 Resp: 968

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 38.9 | 30.6 | 45.8 |
| 54 | 75.6 | 52.2 | 78.4 |






#9
Naphthalene
Concen: 0.310 ng
RT: 10.530 min Scan# 9
Delta R.T. -0.032 min
Lab File: BN036812.D
Acq: 31 Mar 2025 13:04

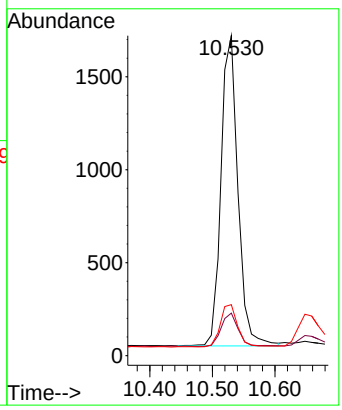
Tgt Ion:128 Resp: 314

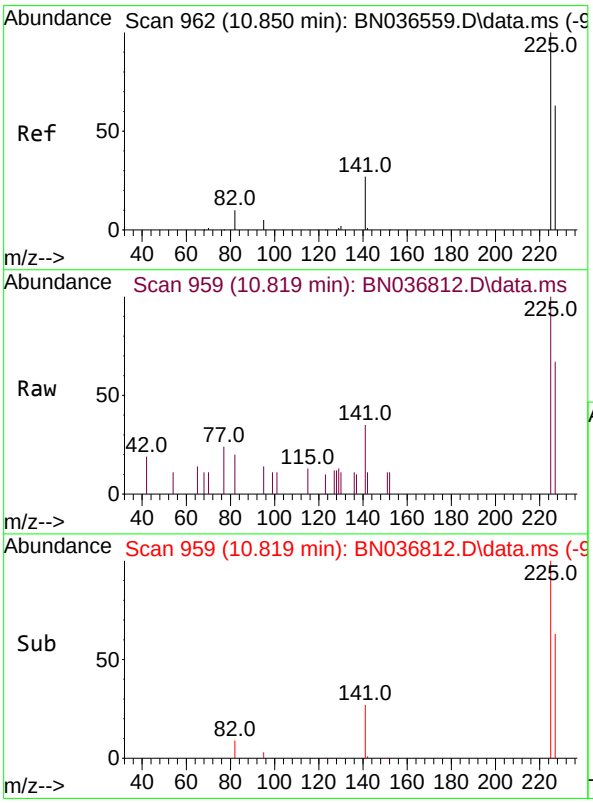
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 13.3 | 9.8 | 14.6 |
| 127 | 15.9 | 11.8 | 17.8 |

**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01S-20250320MS

**Manual Integrations**
**APPROVED**

Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

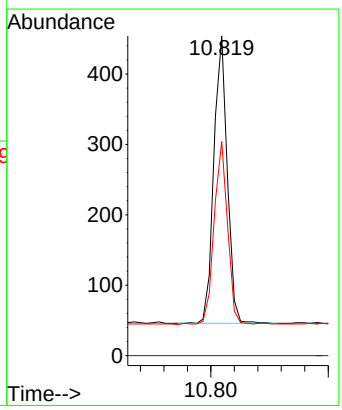


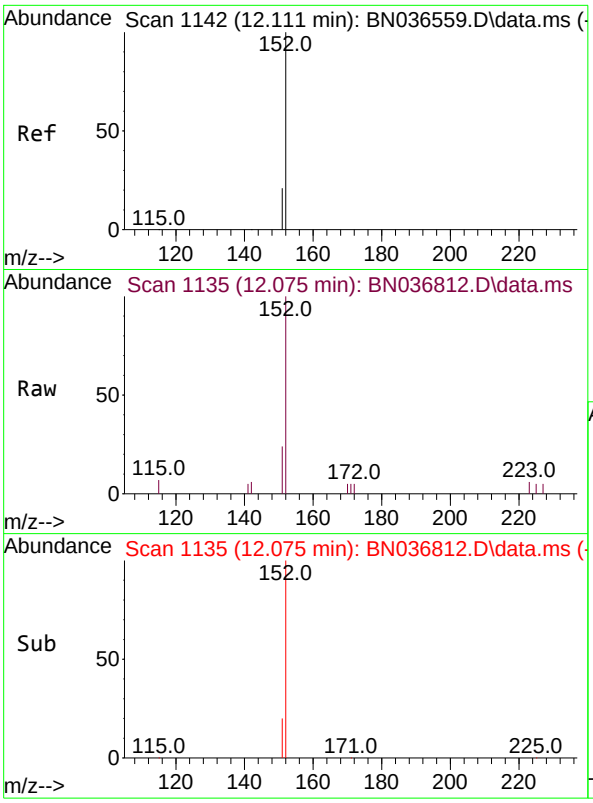




#10
Hexachlorobutadiene
Concen: 0.270 ng
RT: 10.819 min Scan# 959
Delta R.T. -0.032 min
Lab File: BN036812.D
Acq: 31 Mar 2025 13:04

Tgt Ion:225 Resp: 645

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 0.0 | 0.0 | 0.0 |
| 227 | 64.2 | 51.8 | 77.8 |






#11
2-Methylnaphthalene-d10
Concen: 0.300 ng m
RT: 12.075 min Scan# 11
Delta R.T. -0.035 min
Lab File: BN036812.D
Acq: 31 Mar 2025 13:04

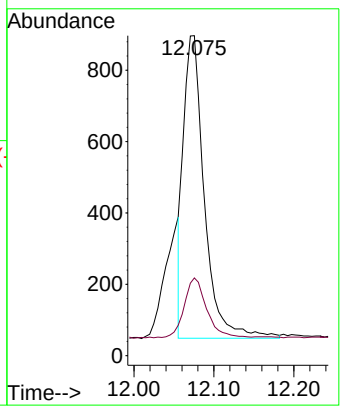
Tgt Ion:152 Resp: 154

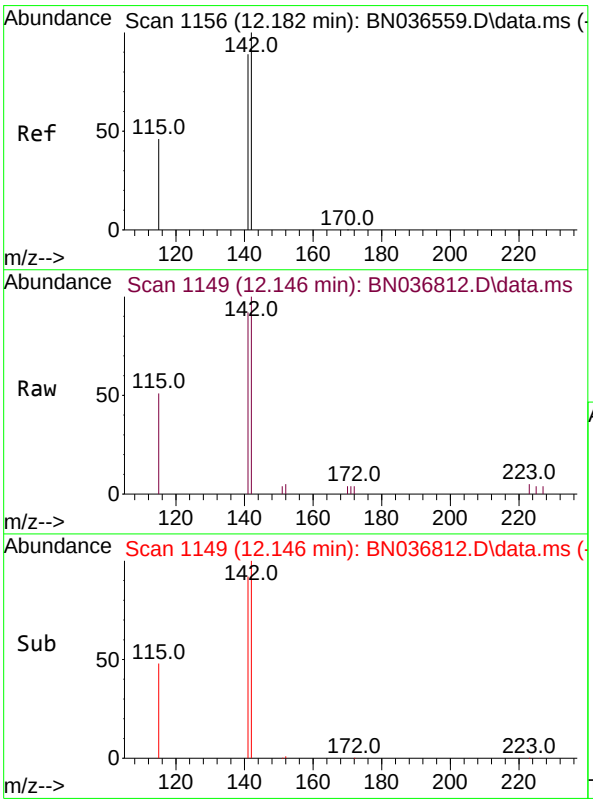
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 21.3 | 17.0 | 25.6 |

**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01S-20250320MS

**Manual Integrations**
**APPROVED**

Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

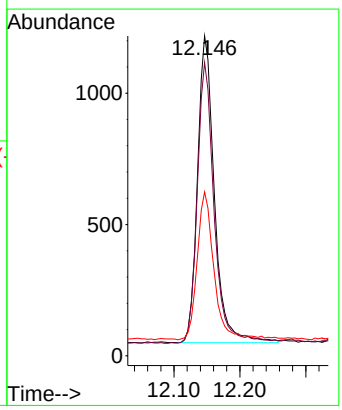


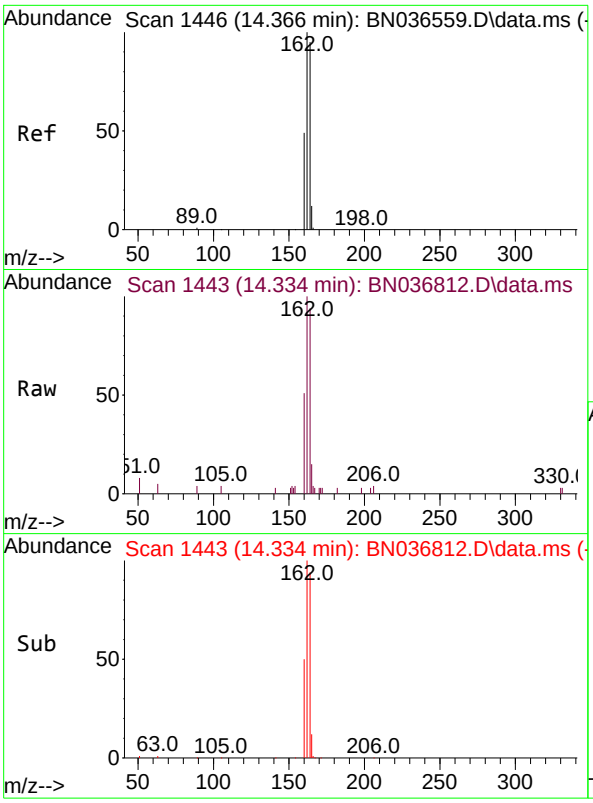




#12
2-Methylnaphthalene
Concen: 0.323 ng
RT: 12.146 min Scan# 1149
Delta R.T. -0.035 min
Lab File: BN036812.D
Acq: 31 Mar 2025 13:04

Tgt Ion:142 Resp: 2086

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 91.7 | 71.7 | 107.5 |
| 115 | 51.2 | 38.3 | 57.5 |

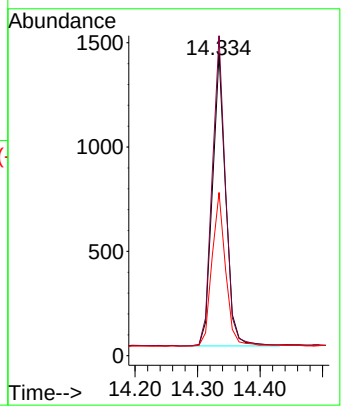





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.334 min Scan# 14
Delta R.T. -0.032 min
Lab File: BN036812.D
Acq: 31 Mar 2025 13:04

Tgt Ion:164 Resp: 207

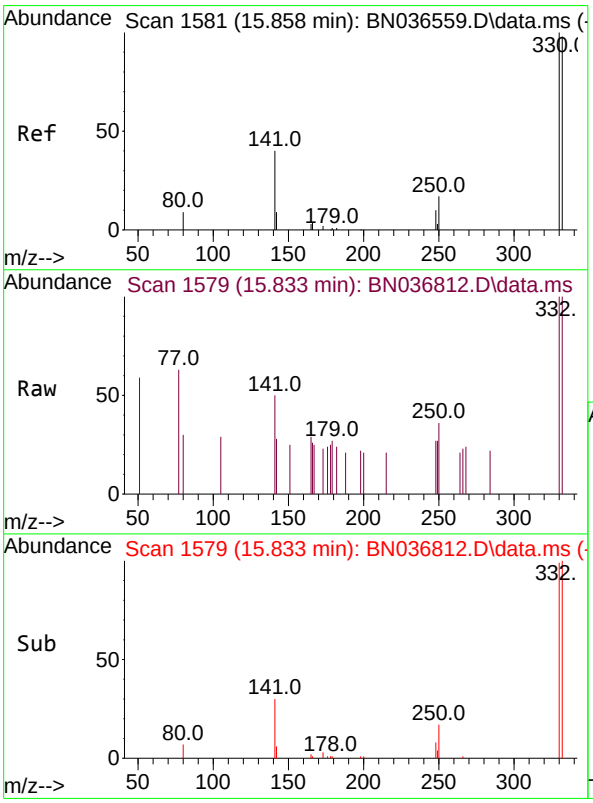
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 106.2 | 84.2 | 126.2 |
| 160 | 54.1 | 42.2 | 63.2 |




**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01S-20250320MS

**Manual Integrations**
**APPROVED**

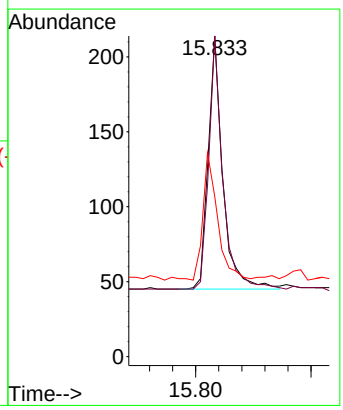
Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

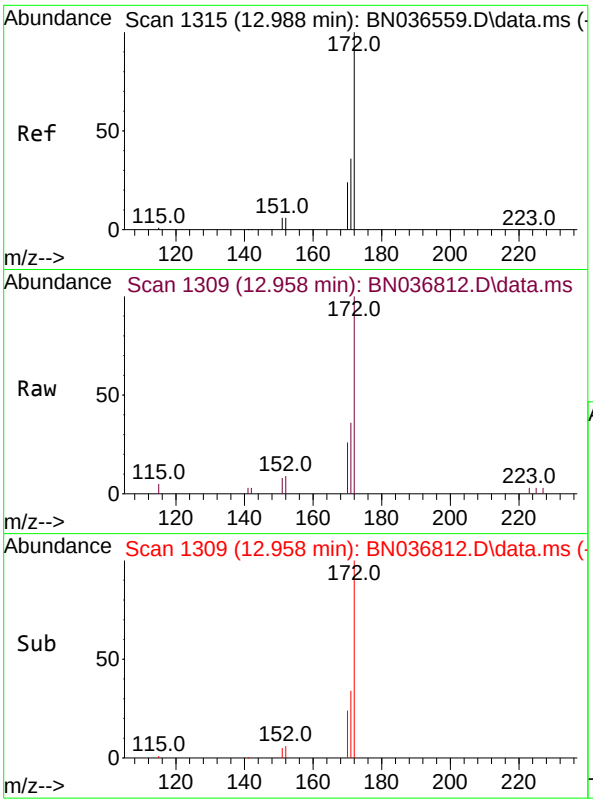



#14
2,4,6-Tribromophenol
Concen: 0.317 ng
RT: 15.833 min Scan# 1579
Delta R.T. -0.025 min
Lab File: BN036812.D
Acq: 31 Mar 2025 13:04

Tgt Ion:330 Resp: 298

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 95.3 | 75.2 | 112.8 |
| 141 | 48.0 | 43.4 | 65.2 |

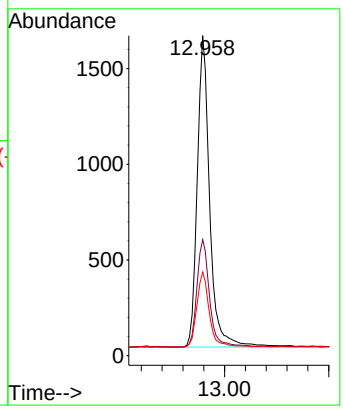





#15
2-Fluorobiphenyl
Concen: 0.298 ng
RT: 12.958 min Scan# 1
Delta R.T. -0.030 min
Lab File: BN036812.D
Acq: 31 Mar 2025 13:04

Tgt Ion:172 Resp: 358

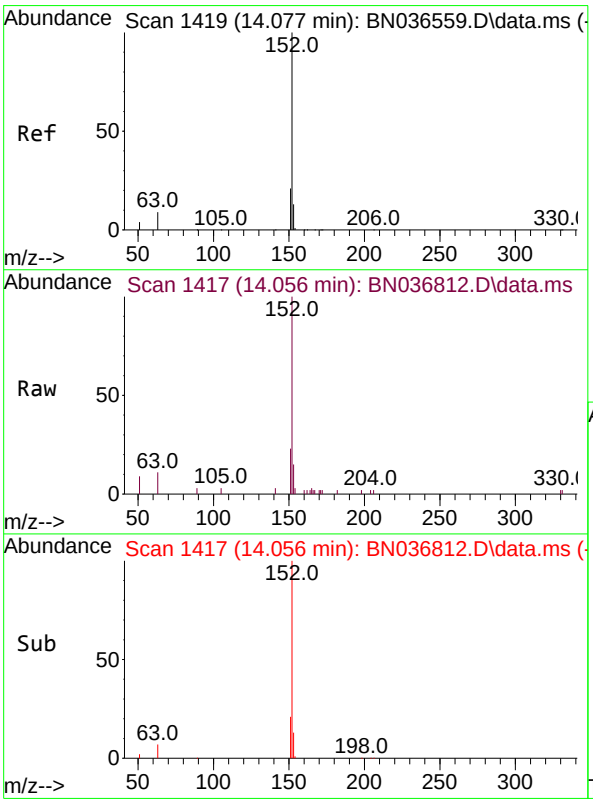
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 36.2 | 29.5 | 44.3 |
| 170 | 26.1 | 20.2 | 30.4 |




**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01S-20250320MS

**Manual Integrations**
**APPROVED**

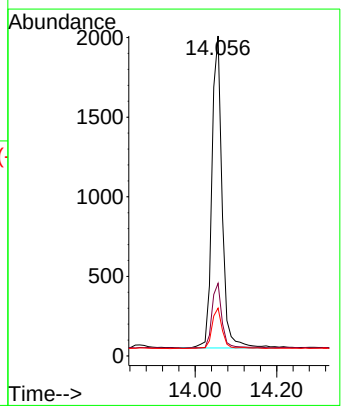
Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

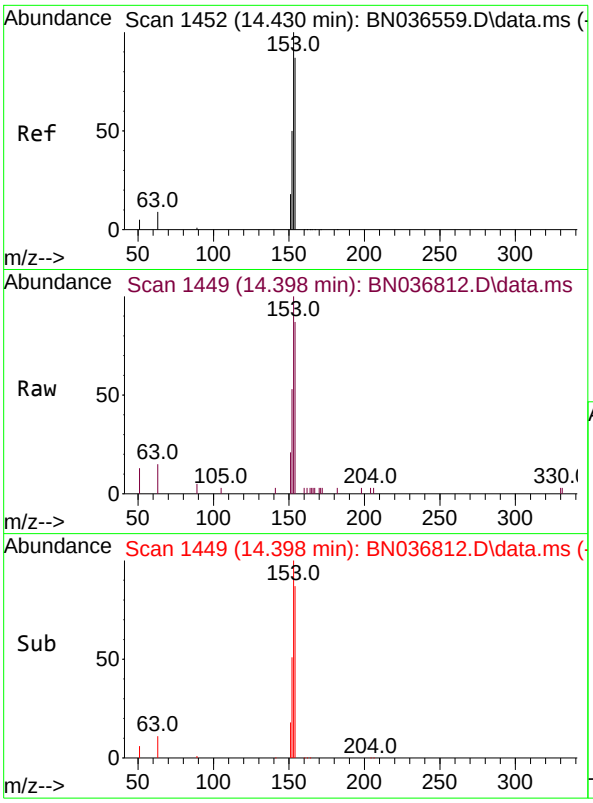



#16
Acenaphthylene
Concen: 0.349 ng
RT: 14.056 min Scan# 1417
Delta R.T. -0.021 min
Lab File: BN036812.D
Acq: 31 Mar 2025 13:04

Tgt Ion:152 Resp: 3407

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.9 | 16.2 | 24.4 |
| 153 | 12.9 | 10.6 | 15.8 |

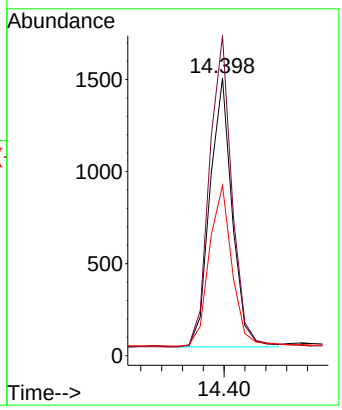





#17
Acenaphthene
Concen: 0.340 ng
RT: 14.398 min Scan# 14
Delta R.T. -0.032 min
Lab File: BN036812.D
Acq: 31 Mar 2025 13:04

Tgt Ion:154 Resp: 217

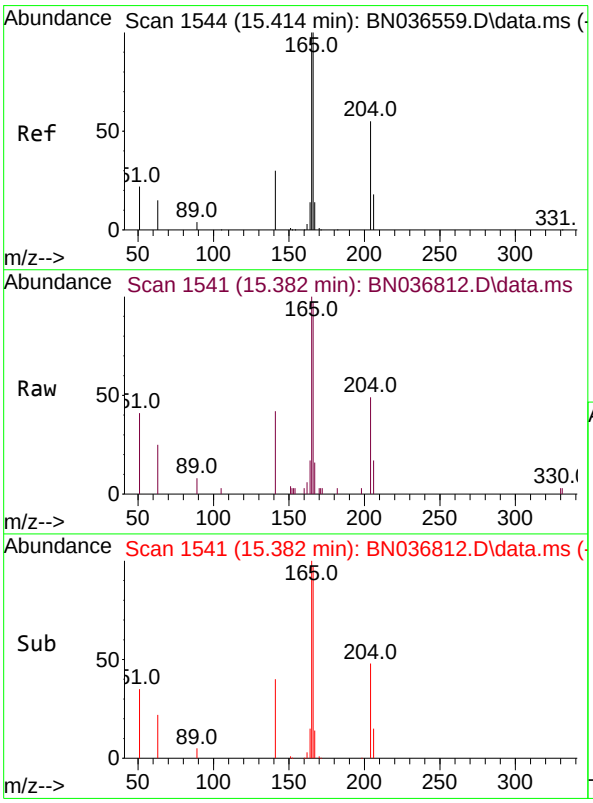
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 117.7 | 94.1 | 141.1 |
| 152 | 61.9 | 49.8 | 74.6 |




**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01S-20250320MS

**Manual Integrations**
**APPROVED**

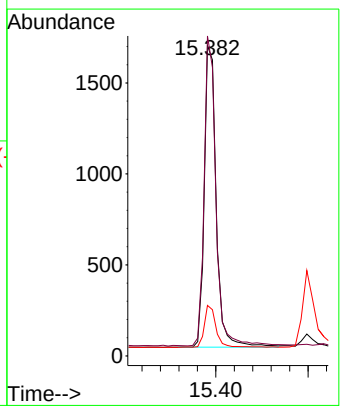
Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

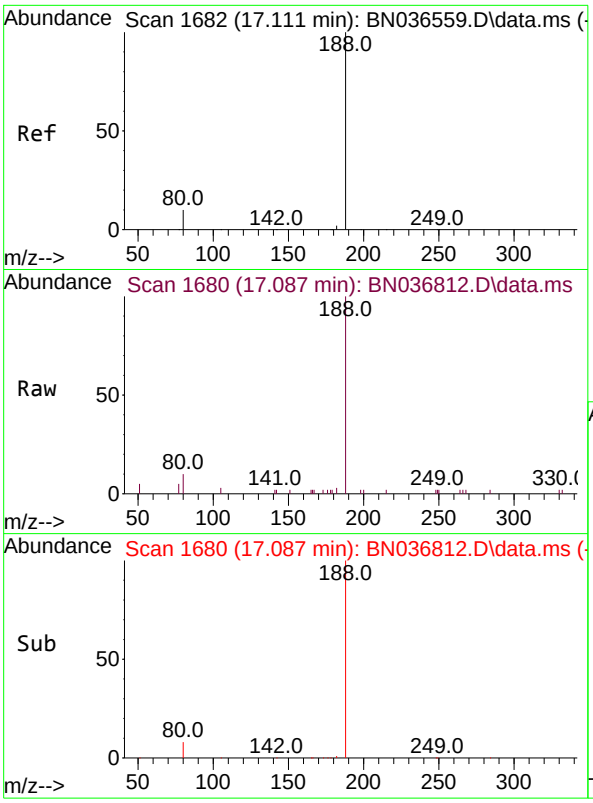



#18
Fluorene
Concen: 0.348 ng
RT: 15.382 min Scan# 1541
Delta R.T. -0.032 min
Lab File: BN036812.D
Acq: 31 Mar 2025 13:04

Tgt Ion:166 Resp: 3010

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 100.1 | 79.8 | 119.8 |
| 167 | 13.9 | 10.6 | 15.8 |

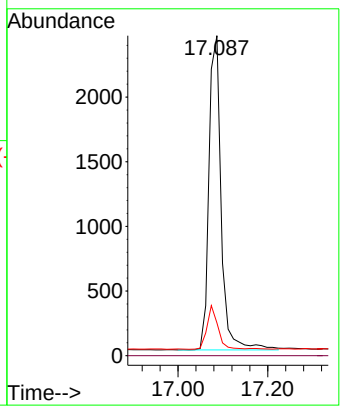





#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.087 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036812.D
Acq: 31 Mar 2025 13:04

Tgt Ion:188 Resp: 456

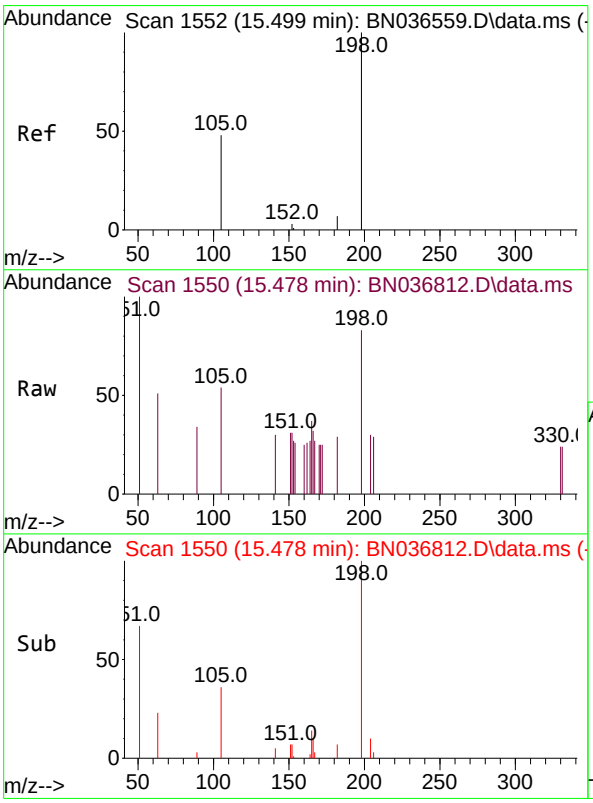
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 10.3 | 8.8 | 13.2 |




**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01S-20250320MS

**Manual Integrations**
**APPROVED**

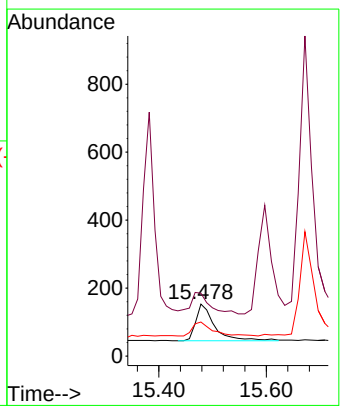
Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

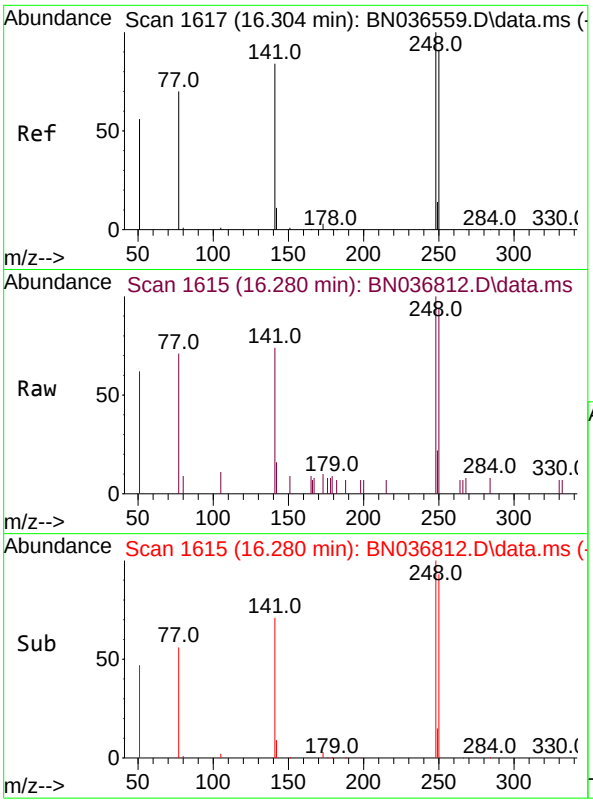



#20
4,6-Dinitro-2-methylphenol
Concen: 0.383 ng
RT: 15.478 min Scan# 1550
Delta R.T. -0.021 min
Lab File: BN036812.D
Acq: 31 Mar 2025 13:04

Tgt Ion:198 Resp: 276

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 198 | 100 | | |
| 51 | 120.9 | 107.9 | 161.9 |
| 105 | 65.4 | 56.2 | 84.2 |

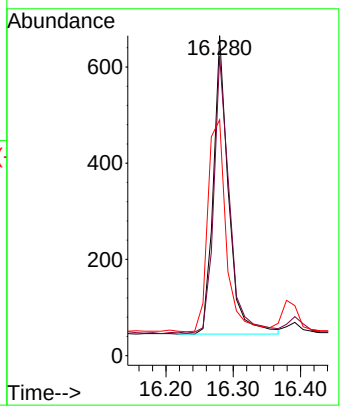





#21
4-Bromophenyl-phenylether
Concen: 0.340 ng
RT: 16.280 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036812.D
Acq: 31 Mar 2025 13:04

Tgt Ion:248 Resp: 97

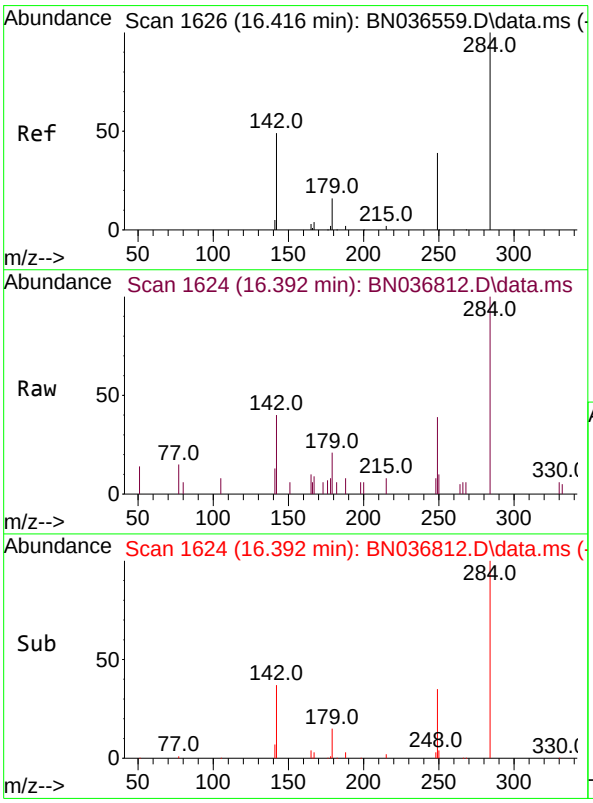
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 93.7 | 73.0 | 109.6 |
| 141 | 73.7 | 68.6 | 103.0 |




**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01S-20250320MS

**Manual Integrations**
**APPROVED**

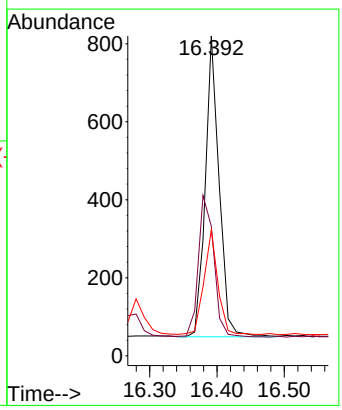
Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

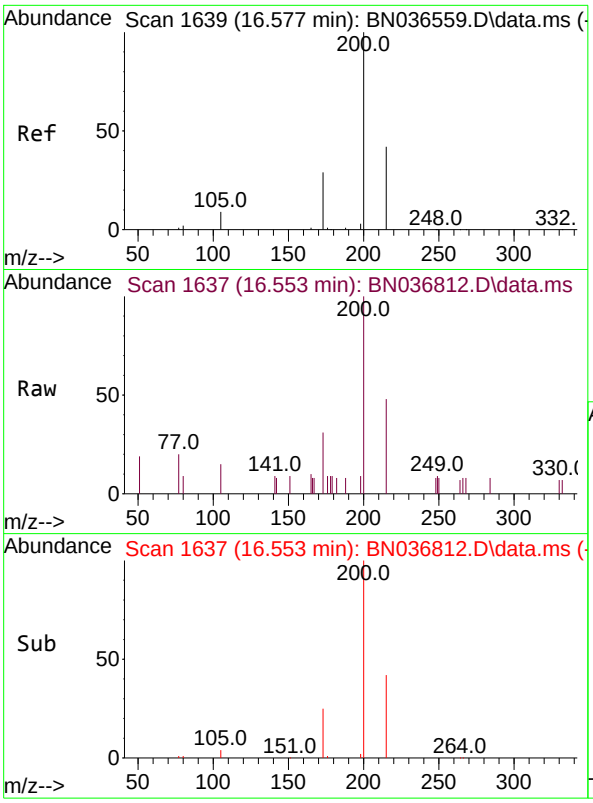



#22
Hexachlorobenzene
Concen: 0.320 ng
RT: 16.392 min Scan# 1624
Delta R.T. -0.025 min
Lab File: BN036812.D
Acq: 31 Mar 2025 13:04

Tgt Ion:284 Resp: 1104

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 52.6 | 37.0 | 55.4 |
| 249 | 34.8 | 28.1 | 42.1 |






#23
Atrazine
Concen: 0.419 ng
RT: 16.553 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036812.D
Acq: 31 Mar 2025 13:04

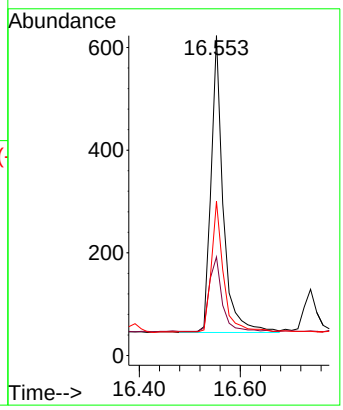
Tgt Ion:200 Resp: 96

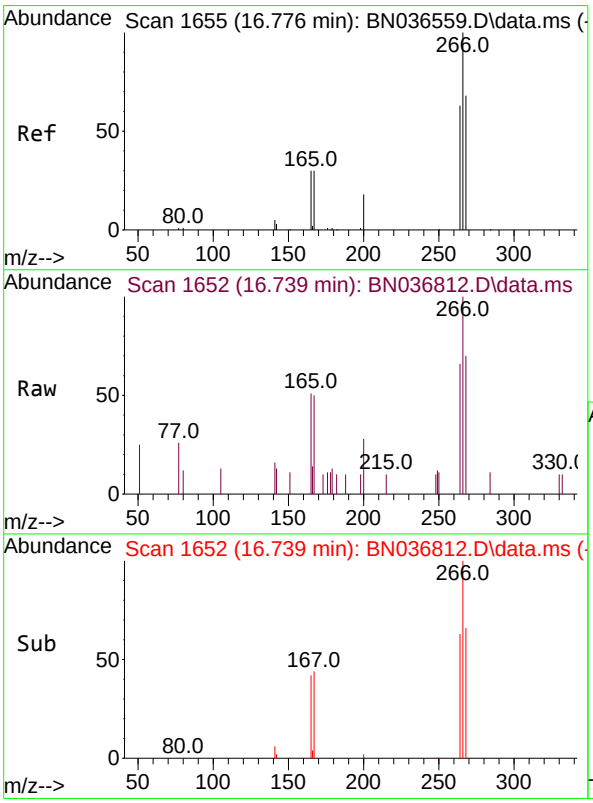
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 173 | 30.8 | 27.3 | 40.9 |
| 215 | 48.2 | 36.8 | 55.2 |

**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01S-20250320MS

**Manual Integrations**
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Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

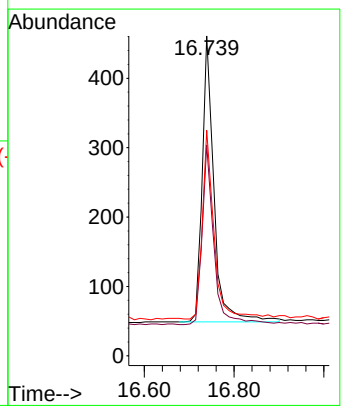


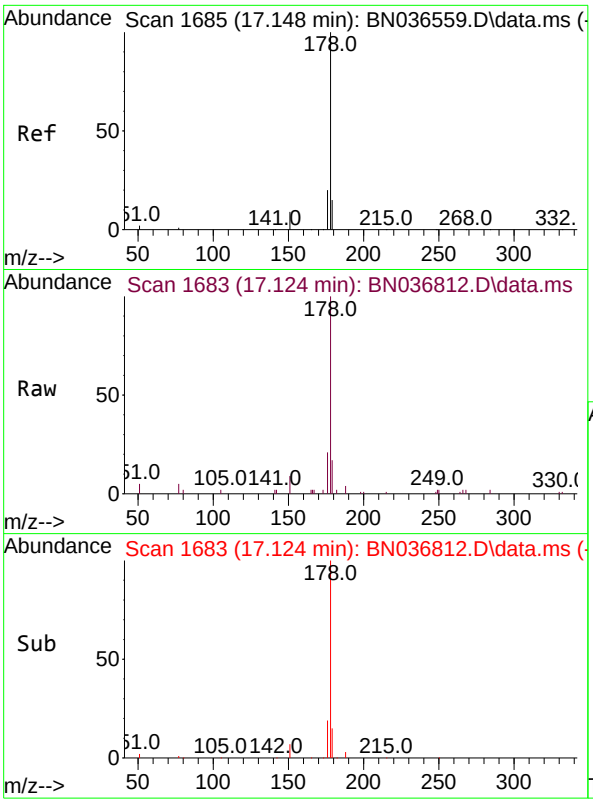




#24
Pentachlorophenol
Concen: 0.476 ng
RT: 16.739 min Scan# 1652
Delta R.T. -0.037 min
Lab File: BN036812.D
Acq: 31 Mar 2025 13:04

Tgt Ion:266 Resp: 749

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 264 | 62.9 | 49.6 | 74.4 |
| 268 | 66.6 | 50.9 | 76.3 |

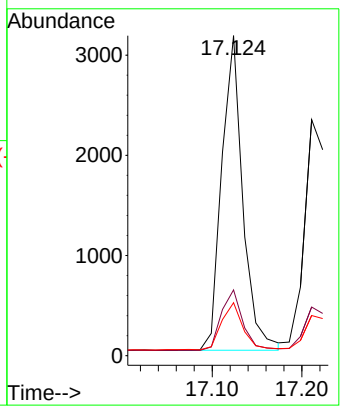





#25
Phenanthrene
Concen: 0.374 ng
RT: 17.124 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036812.D
Acq: 31 Mar 2025 13:04

Tgt Ion:178 Resp: 512

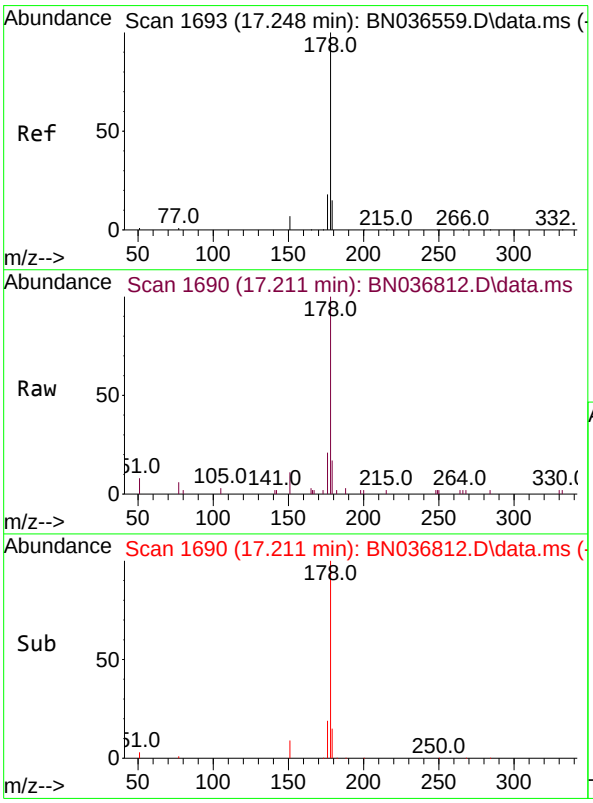
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.9 | 15.9 | 23.9 |
| 179 | 15.7 | 12.2 | 18.4 |




**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01S-20250320MS

**Manual Integrations**
**APPROVED**

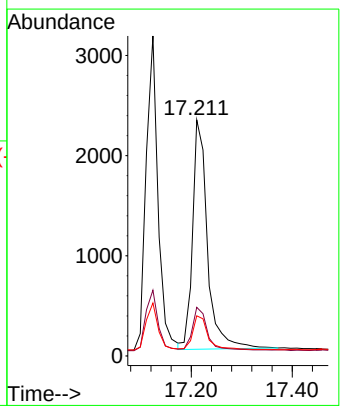
Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

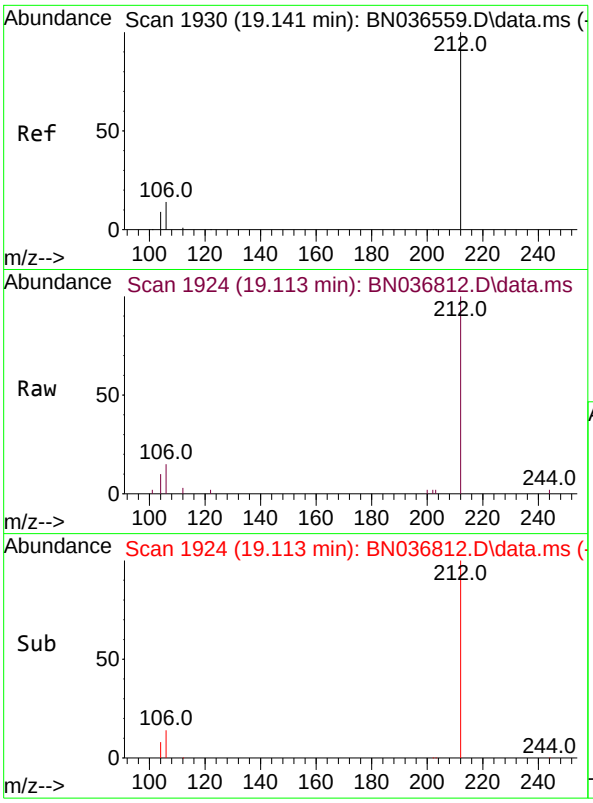



#26
Anthracene
Concen: 0.380 ng
RT: 17.211 min Scan# 1690
Delta R.T. -0.037 min
Lab File: BN036812.D
Acq: 31 Mar 2025 13:04

Tgt Ion:178 Resp: 4690

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.7 | 15.4 | 23.2 |
| 179 | 15.4 | 12.6 | 18.8 |

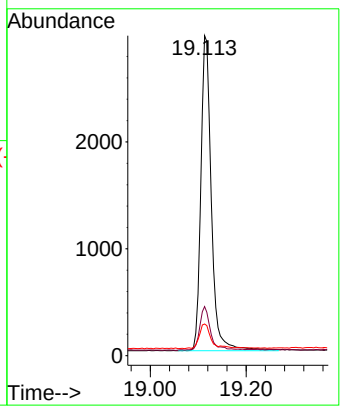





#27
Fluoranthene-d10
Concen: 0.382 ng
RT: 19.113 min Scan# 1
Delta R.T. -0.028 min
Lab File: BN036812.D
Acq: 31 Mar 2025 13:04

Tgt Ion:212 Resp: 446

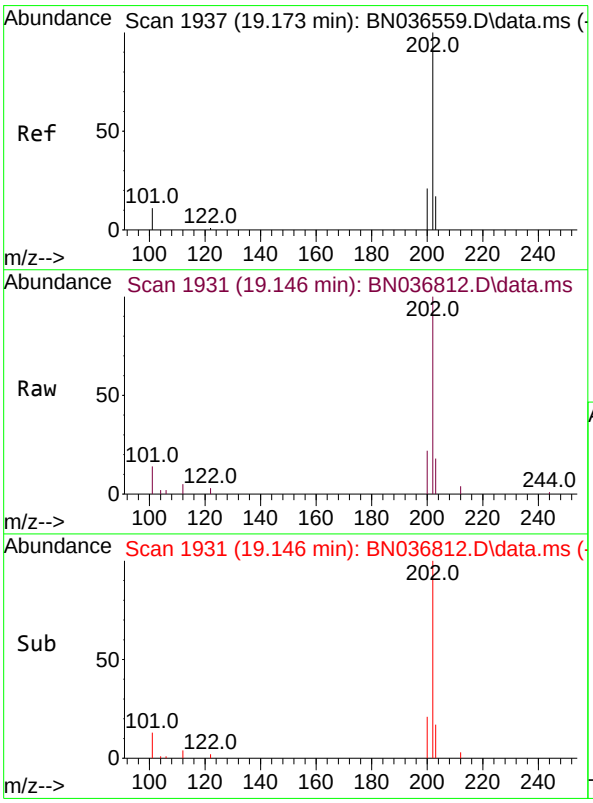
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 14.0 | 11.8 | 17.6 |
| 104 | 8.5 | 7.3 | 10.9 |




**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01S-20250320MS

**Manual Integrations**
**APPROVED**

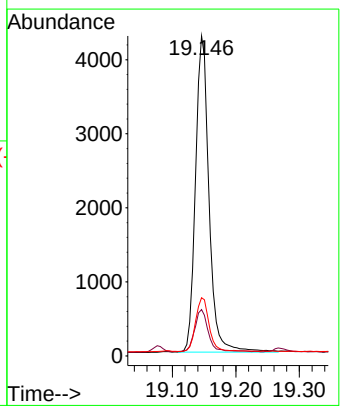
Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

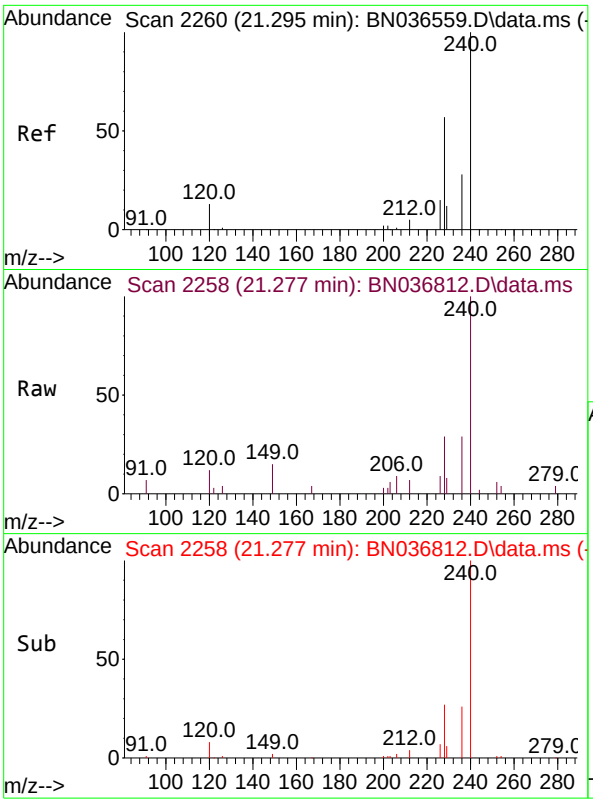



#28
Fluoranthene
Concen: 0.412 ng
RT: 19.146 min Scan# 1931
Delta R.T. -0.028 min
Lab File: BN036812.D
Acq: 31 Mar 2025 13:04

Tgt Ion:202 Resp: 6331

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 13.1 | 9.4 | 14.0 |
| 203 | 17.0 | 13.5 | 20.3 |

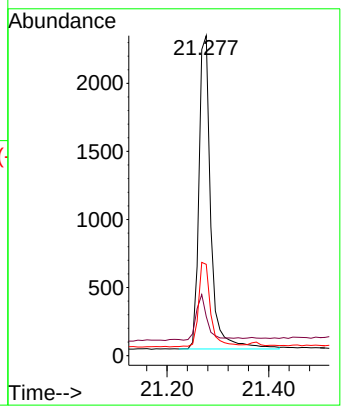





#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036812.D
Acq: 31 Mar 2025 13:04

Tgt Ion:240 Resp: 372

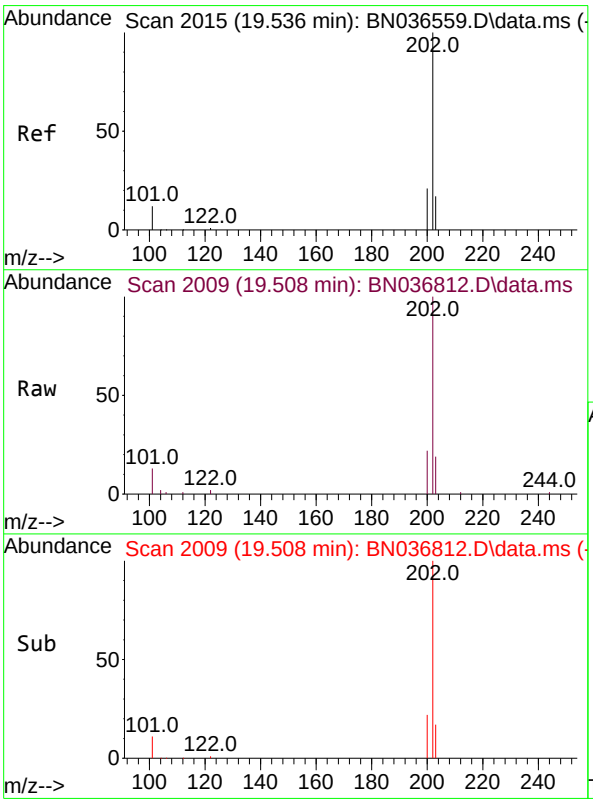
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 12.3 | 14.6 | 22.0 |
| 236 | 28.6 | 24.1 | 36.1 |




**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01S-20250320MS

**Manual Integrations**
**APPROVED**

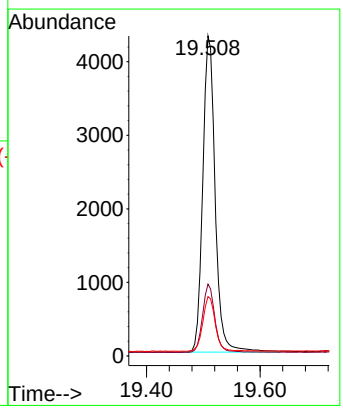
Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

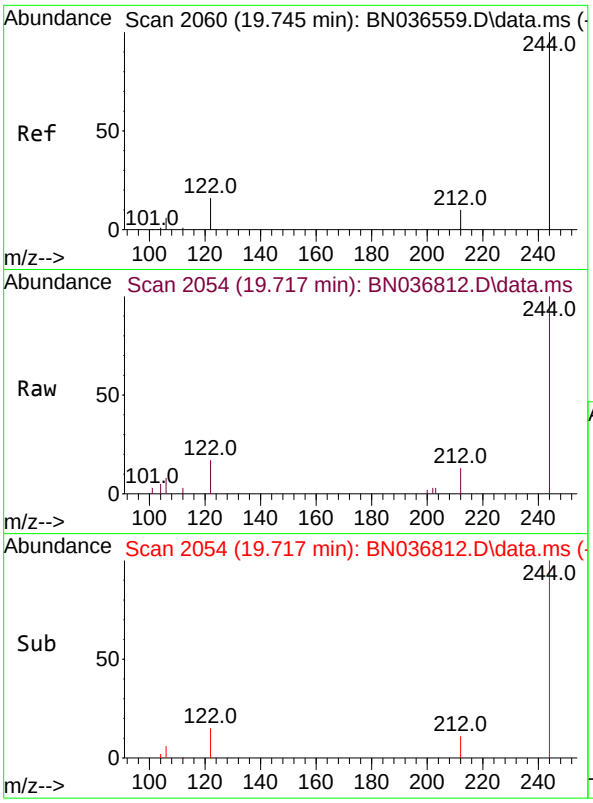



#30
Pyrene
Concen: 0.359 ng
RT: 19.508 min Scan# 2009
Delta R.T. -0.028 min
Lab File: BN036812.D
Acq: 31 Mar 2025 13:04

Tgt Ion:202 Resp: 6526

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.2 | 17.1 | 25.7 |
| 203 | 17.0 | 14.1 | 21.1 |

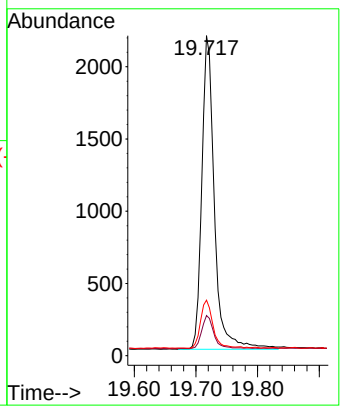





#31
Terphenyl-d14
Concen: 0.345 ng
RT: 19.717 min Scan# 2
Delta R.T. -0.028 min
Lab File: BN036812.D
Acq: 31 Mar 2025 13:04

Tgt Ion:244 Resp: 307

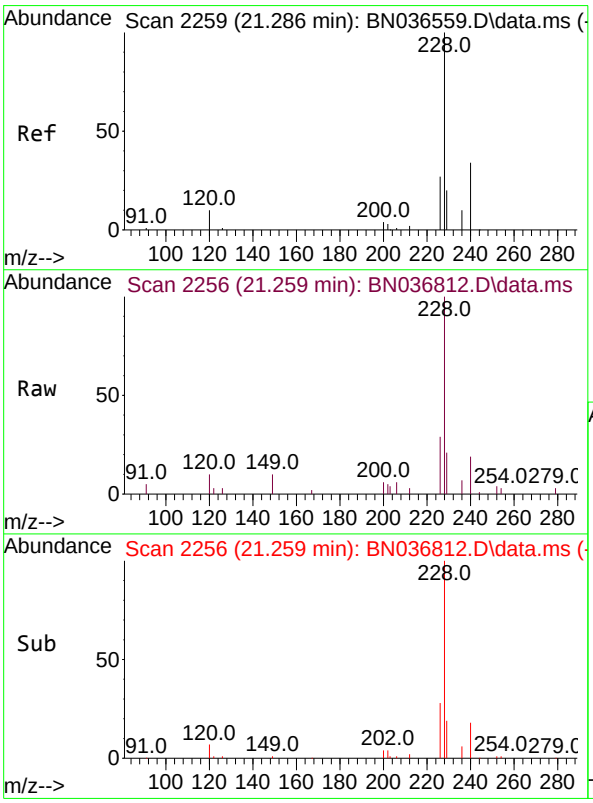
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 12.6 | 9.6 | 14.4 |
| 122 | 17.4 | 13.9 | 20.9 |




**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01S-20250320MS

**Manual Integrations**
**APPROVED**

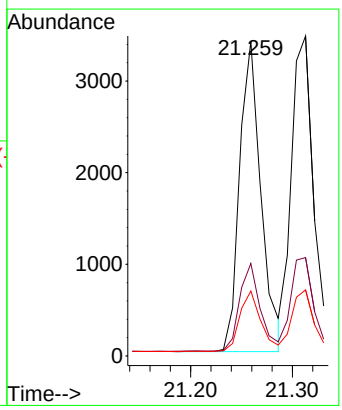
Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

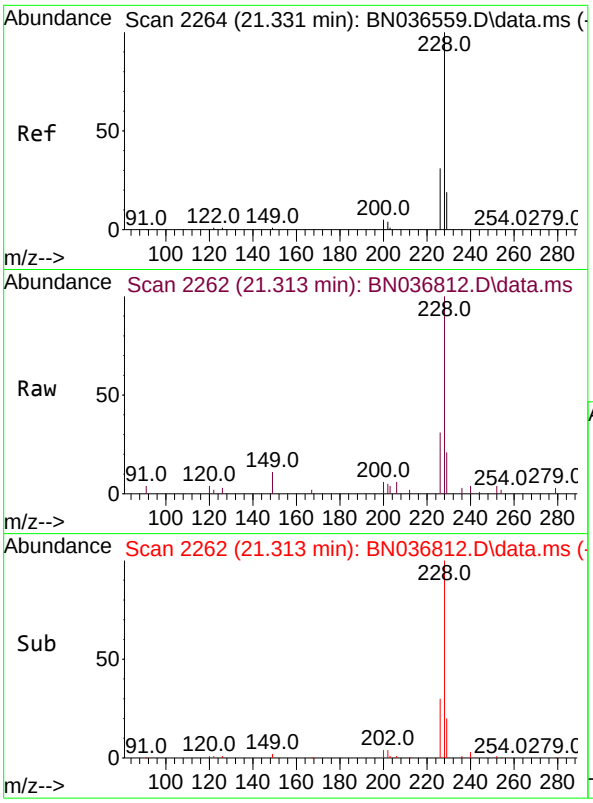



#32
Benzo(a)anthracene
Concen: 0.383 ng
RT: 21.259 min Scan# 2256
Delta R.T. -0.027 min
Lab File: BN036812.D
Acq: 31 Mar 2025 13:04

Tgt Ion:228 Resp: 4950

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 29.4 | 22.5 | 33.7 |
| 229 | 20.6 | 16.6 | 25.0 |

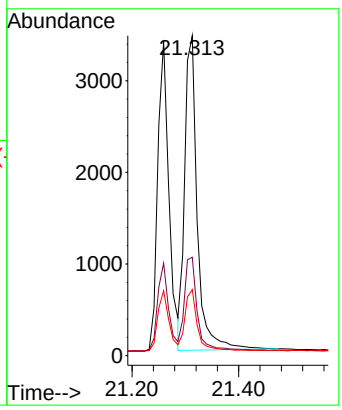





#33
Chrysene
Concen: 0.398 ng
RT: 21.313 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036812.D
Acq: 31 Mar 2025 13:04

Tgt Ion:228 Resp: 562

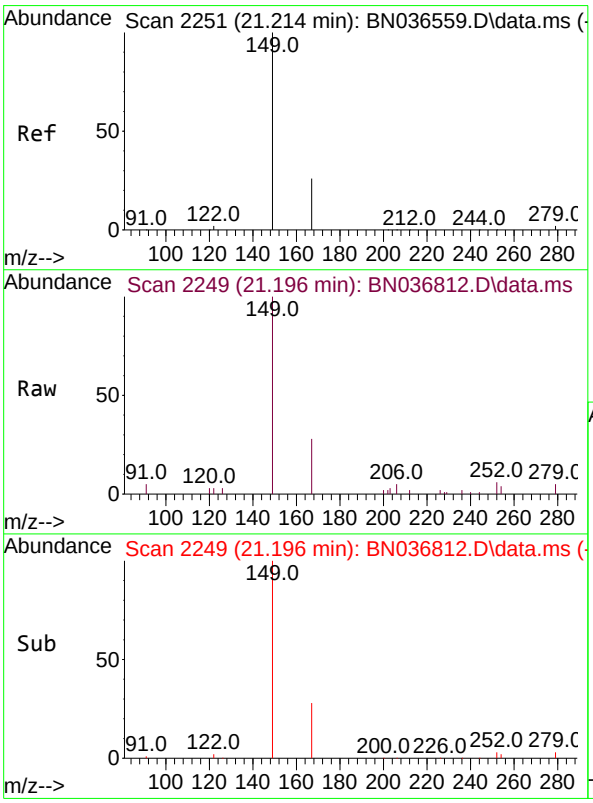
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 30.8 | 25.3 | 37.9 |
| 229 | 20.6 | 15.8 | 23.8 |




**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01S-20250320MS

**Manual Integrations**
**APPROVED**

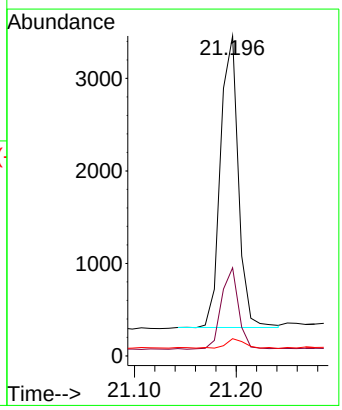
Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

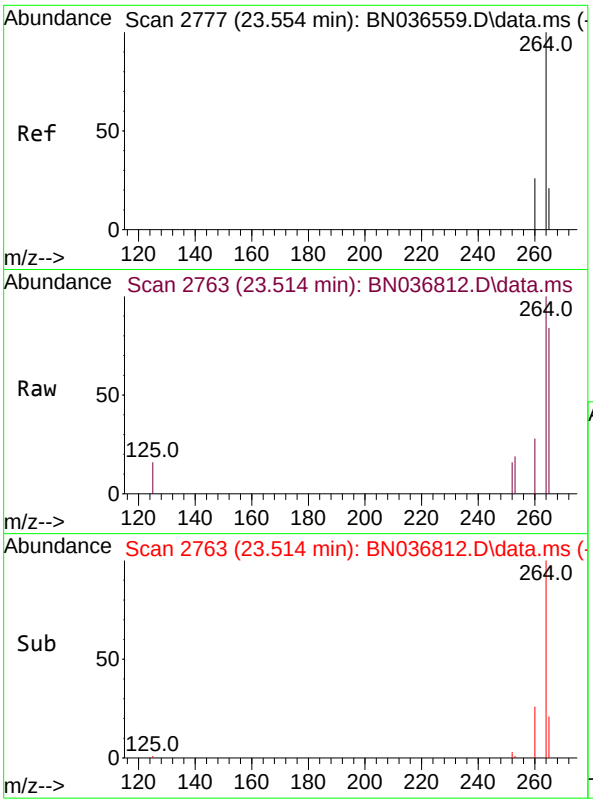



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.417 ng
RT: 21.196 min Scan# 2249
Delta R.T. -0.018 min
Lab File: BN036812.D
Acq: 31 Mar 2025 13:04

Tgt Ion:149 Resp: 3839

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 26.9 | 20.7 | 31.1 |
| 279 | 3.6 | 3.6 | 5.4 |

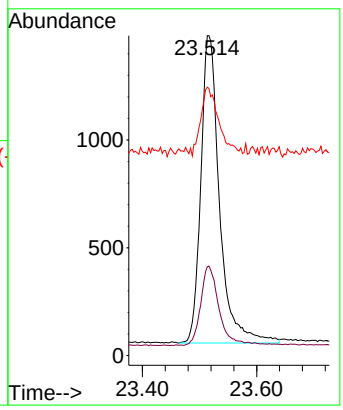





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.514 min Scan# 2
Delta R.T. -0.041 min
Lab File: BN036812.D
Acq: 31 Mar 2025 13:04

Tgt Ion:264 Resp: 324

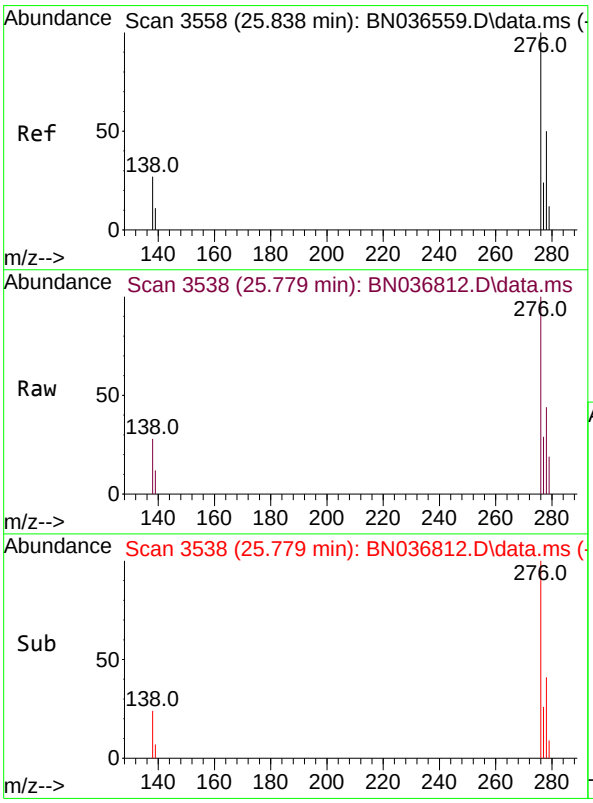
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 27.8 | 22.6 | 33.8 |
| 265 | 83.9 | 88.1 | 132.1# |




**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01S-20250320MS

**Manual Integrations**
**APPROVED**

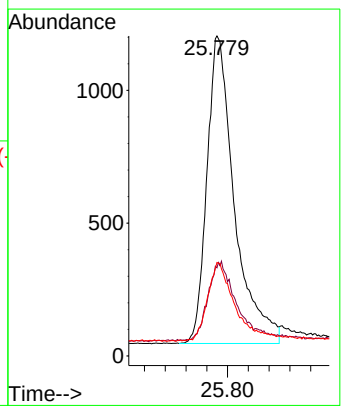
Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

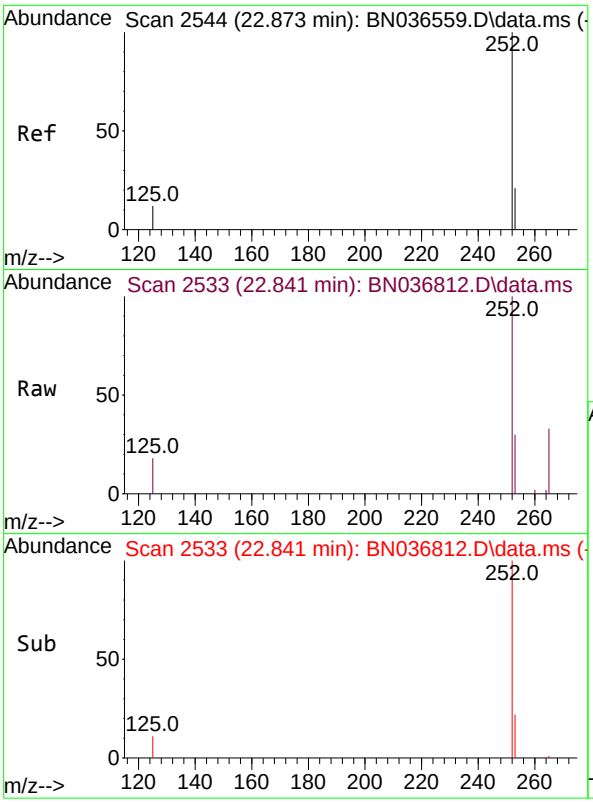



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.364 ng
RT: 25.779 min Scan# 3538
Delta R.T. -0.058 min
Lab File: BN036812.D
Acq: 31 Mar 2025 13:04

Tgt Ion:276 Resp: 4261

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 24.6 | 23.4 | 35.2 |
| 277 | 25.0 | 20.0 | 30.0 |

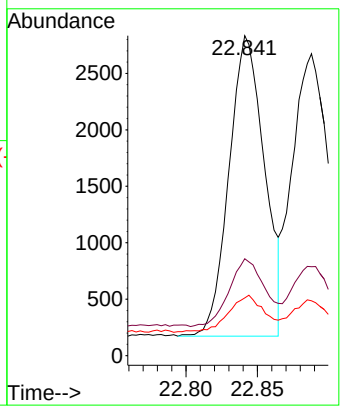





#37
Benzo(b)fluoranthene
Concen: 0.389 ng
RT: 22.841 min Scan# 2
Delta R.T. -0.032 min
Lab File: BN036812.D
Acq: 31 Mar 2025 13:04

Tgt Ion:252 Resp: 459

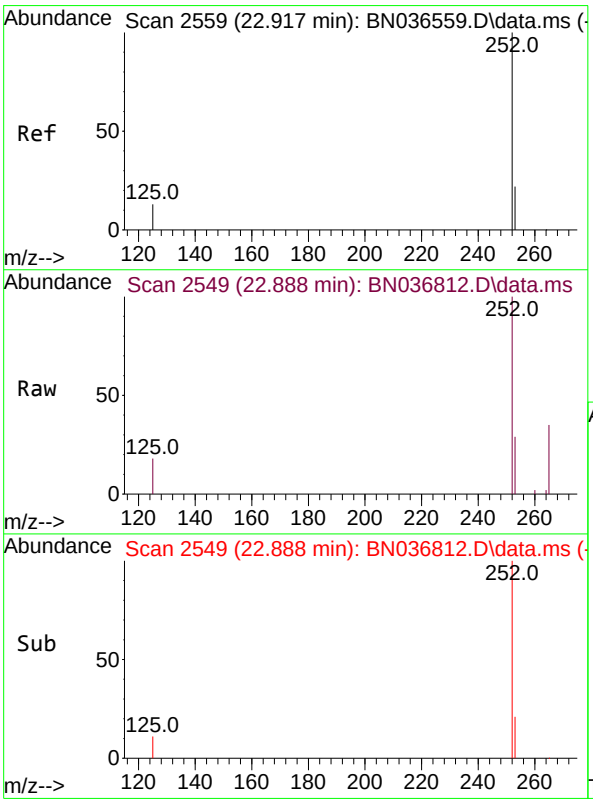
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 30.3 | 23.9 | 35.9 |
| 125 | 18.0 | 17.4 | 26.2 |




**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01S-20250320MS

**Manual Integrations**
**APPROVED**

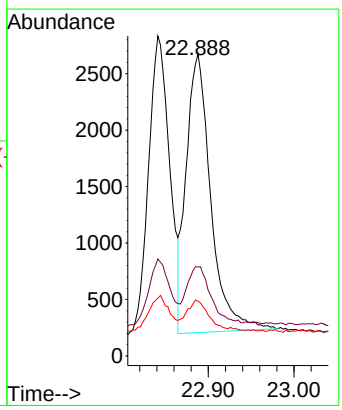
Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

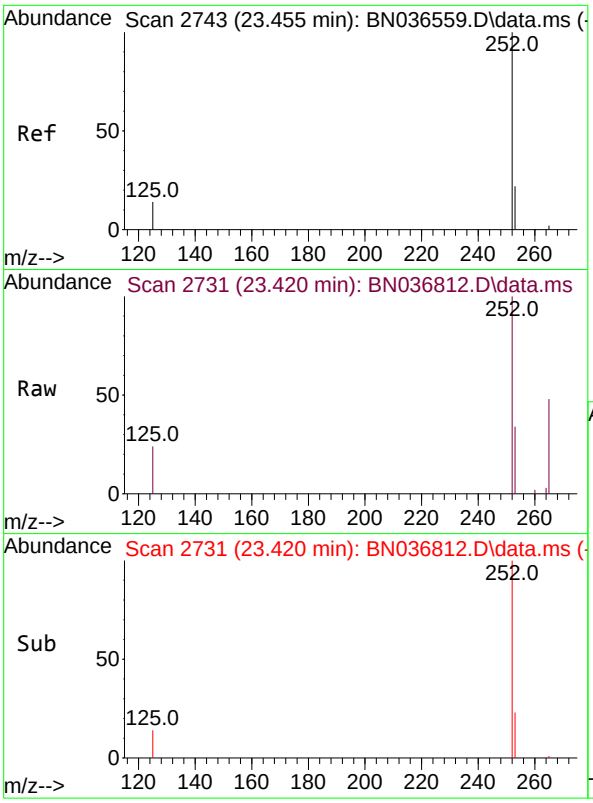



#38
Benzo(k)fluoranthene
Concen: 0.396 ng
RT: 22.888 min Scan# 2549
Delta R.T. -0.029 min
Lab File: BN036812.D
Acq: 31 Mar 2025 13:04

Tgt Ion:252 Resp: 4906

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 29.5 | 24.6 | 36.8 |
| 125 | 18.2 | 17.8 | 26.8 |

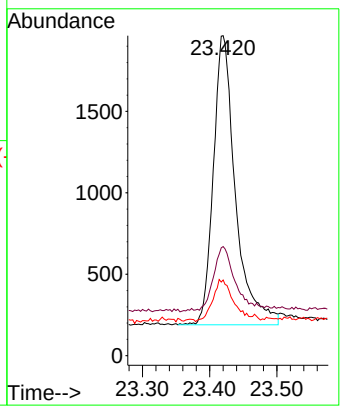





#39
Benzo(a)pyrene
Concen: 0.408 ng
RT: 23.420 min Scan# 2
Delta R.T. -0.035 min
Lab File: BN036812.D
Acq: 31 Mar 2025 13:04

Tgt Ion:252 Resp: 405

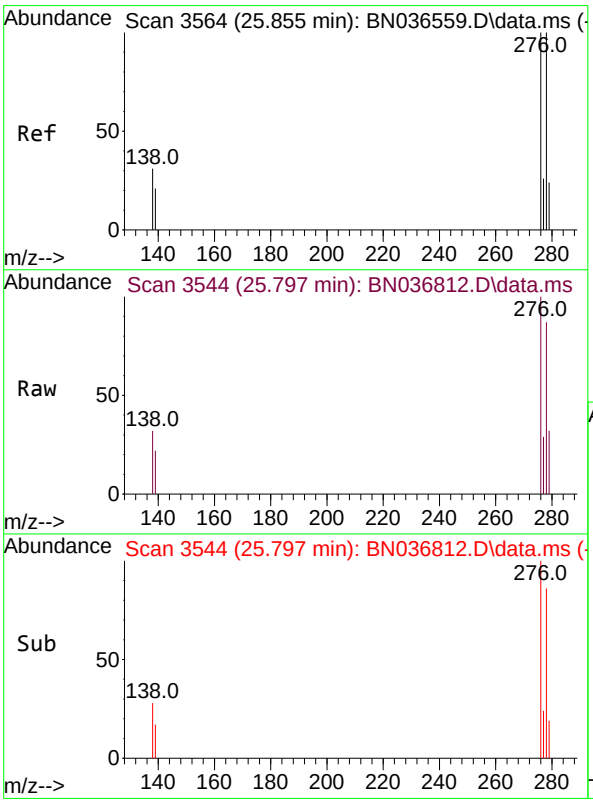
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 34.1 | 27.8 | 41.8 |
| 125 | 23.7 | 22.7 | 34.1 |




**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01S-20250320MS

**Manual Integrations**
**APPROVED**

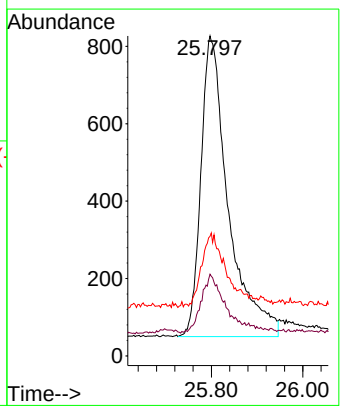
Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

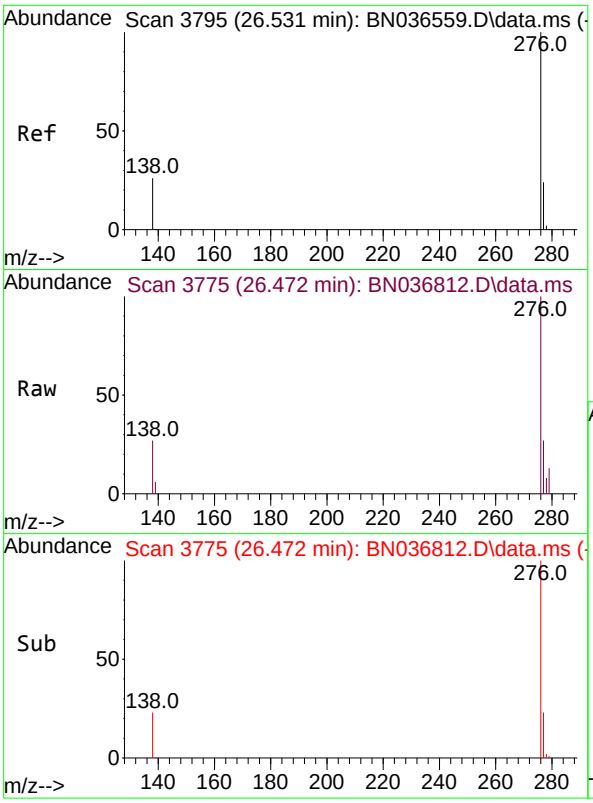



#40
Dibenzo(a,h)anthracene
Concen: 0.354 ng
RT: 25.797 min Scan# 3544
Delta R.T. -0.058 min
Lab File: BN036812.D
Acq: 31 Mar 2025 13:04

Tgt Ion:278 Resp: 3226

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 25.5 | 20.8 | 31.2 |
| 279 | 37.4 | 28.8 | 43.2 |

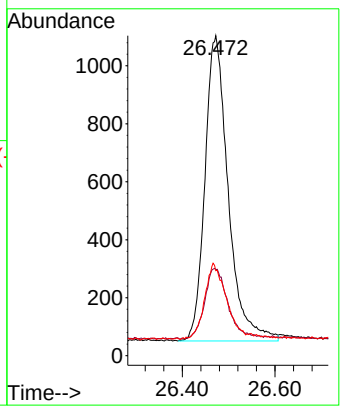





#41
Benzo(g,h,i)perylene
Concen: 0.352 ng
RT: 26.472 min Scan# 3
Delta R.T. -0.058 min
Lab File: BN036812.D
Acq: 31 Mar 2025 13:04

Tgt Ion:276 Resp: 367

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 26.9 | 22.2 | 33.4 |
| 138 | 26.5 | 24.1 | 36.1 |




**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01S-20250320MS

**Manual Integrations**
**APPROVED**

Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

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: | 03/20/25 |
| Project: | NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258 | Date Received: | 03/21/25 |
| Client Sample ID: | TT188S1-20250320MSD | SDG No.: | Q1629 |
| Lab Sample ID: | Q1629-05MSD | 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 |
|---|---|---|---|---|
| BN036770.D | 1 | 03/25/25 08:41 | 03/28/25 13:22 | PB167295 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 123-91-1 | 1,4-Dioxane | 0.56 | | 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 | 0.43 | | 30 - 150 | | 107% | SPK: 0.4 |
| 4165-60-0 | Nitrobenzene-d5 | 0.31 | | 55 - 111 | | 77% | SPK: 0.4 |
| 321-60-8 | 2-Fluorobiphenyl | 0.36 | | 53 - 106 | | 91% | SPK: 0.4 |
| 1718-51-0 | Terphenyl-d14 | 0.37 | | 58 - 132 | | 93% | SPK: 0.4 |
| **INTERNAL STANDARDS** | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 1420 | 7.696 | | | | |
| 1146-65-2 | Naphthalene-d8 | 3430 | 10.488 | | | | |
| 15067-26-2 | Acenaphthene-d10 | 2160 | 14.334 | | | | |
| 1517-22-2 | Phenanthrene-d10 | 4890 | 17.087 | | | | |
| 1719-03-5 | Chrysene-d12 | 4380 | 21.277 | | | | |
| 1520-96-3 | Perylene-d12 | 3880 | 23.516 | | | | |

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\BN032725\
Data File : BN036770.D
Acq On : 28 Mar 2025 13:22
Operator : RC/JU
Sample : Q1629-05MSD
Misc :
ALS Vial : 35 Sample Multiplier: 1

Quant Time: Mar 28 14:17:33 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

**Instrument :**
BNA_N
**ClientSampleId :**
TT188S1-20250320MSD

**Manual Integrations APPROVED**
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.696 | 152 | 1415 | 0.400 | ng | -0.03 |
| 7) Naphthalene-d8 | 10.488 | 136 | 3434 | 0.400 | ng | #-0.02 |
| 13) Acenaphthene-d10 | 14.334 | 164 | 2160 | 0.400 | ng | -0.03 |
| 19) Phenanthrene-d10 | 17.087 | 188 | 4889 | 0.400 | ng | -0.02 |
| 29) Chrysene-d12 | 21.277 | 240 | 4383 | 0.400 | ng | #-0.02 |
| 35) Perylene-d12 | 23.516 | 264 | 3881 | 0.400 | ng | #-0.04 |
| **System Monitoring Compounds** | | | | | | |
| 4) 2-Fluorophenol | 5.291 | 112 | 530 | 0.161 | ng | -0.02 |
| 5) Phenol-d6 | 6.872 | 99 | 415 | 0.102 | ng | -0.03 |
| 8) Nitrobenzene-d5 | 8.854 | 82 | 1156 | 0.309 | ng | -0.02 |
| 11) 2-Methylnaphthalene-d10 | 12.075 | 152 | 1798m | 0.352 | ng | -0.04 |
| 14) 2,4,6-Tribromophenol | 15.833 | 330 | 421 | 0.430 | ng | -0.02 |
| 15) 2-Fluorobiphenyl | 12.963 | 172 | 4557 | 0.363 | ng | -0.03 |
| 27) Fluoranthene-d10 | 19.118 | 212 | 5348 | 0.427 | ng | -0.02 |
| 31) Terphenyl-d14 | 19.722 | 244 | 3904 | 0.372 | ng | -0.02 |
| **Target Compounds** | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.225 | 88 | 887 | 0.565 | ng | # 59 |
| 3) n-Nitrosodimethylamine | 3.536 | 42 | 534 | 0.168 | ng | # 96 |
| 6) bis(2-Chloroethyl)ether | 7.125 | 93 | 1239 | 0.294 | ng | 94 |
| 9) Naphthalene | 10.530 | 128 | 3214 | 0.318 | ng | 97 |
| 10) Hexachlorobutadiene | 10.819 | 225 | 699 | 0.294 | ng | # 98 |
| 12) 2-Methylnaphthalene | 12.152 | 142 | 2096 | 0.326 | ng | 98 |
| 16) Acenaphthylene | 14.056 | 152 | 3550 | 0.348 | ng | 99 |
| 17) Acenaphthene | 14.398 | 154 | 2270 | 0.340 | ng | 99 |
| 18) Fluorene | 15.393 | 166 | 3209 | 0.356 | ng | 99 |
| 20) 4,6-Dinitro-2-methylph... | 15.478 | 198 | 349 | 0.425 | ng | 83 |
| 21) 4-Bromophenyl-phenylether | 16.280 | 248 | 1077 | 0.352 | ng | 96 |
| 22) Hexachlorobenzene | 16.391 | 284 | 1179 | 0.319 | ng | 94 |
| 23) Atrazine | 16.553 | 200 | 1002 | 0.408 | ng | 100 |
| 24) Pentachlorophenol | 16.739 | 266 | 1036 | 0.614 | ng | 98 |
| 25) Phenanthrene | 17.124 | 178 | 5668 | 0.386 | ng | 100 |
| 26) Anthracene | 17.223 | 178 | 5004 | 0.378 | ng | 99 |
| 28) Fluoranthene | 19.150 | 202 | 6870 | 0.417 | ng | 99 |
| 30) Pyrene | 19.513 | 202 | 7205 | 0.336 | ng | 100 |
| 32) Benzo(a)anthracene | 21.259 | 228 | 5677 | 0.372 | ng | 99 |
| 33) Chrysene | 21.313 | 228 | 6461 | 0.388 | ng | 98 |
| 34) Bis(2-ethylhexyl)phtha... | 21.196 | 149 | 3896 | 0.359 | ng | # 99 |
| 36) Indeno(1,2,3-cd)pyrene | 25.785 | 276 | 5098 | 0.364 | ng | 96 |
| 37) Benzo(b)fluoranthene | 22.844 | 252 | 5361 | 0.380 | ng | 97 |
| 38) Benzo(k)fluoranthene | 22.888 | 252 | 5659 | 0.382 | ng | 95 |
| 39) Benzo(a)pyrene | 23.420 | 252 | 4598 | 0.387 | ng | 95 |
| 40) Dibenzo(a,h)anthracene | 25.803 | 278 | 3921 | 0.360 | ng | 95 |
| 41) Benzo(g,h,i)perylene | 26.469 | 276 | 3995 | 0.320 | ng | 96 |

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

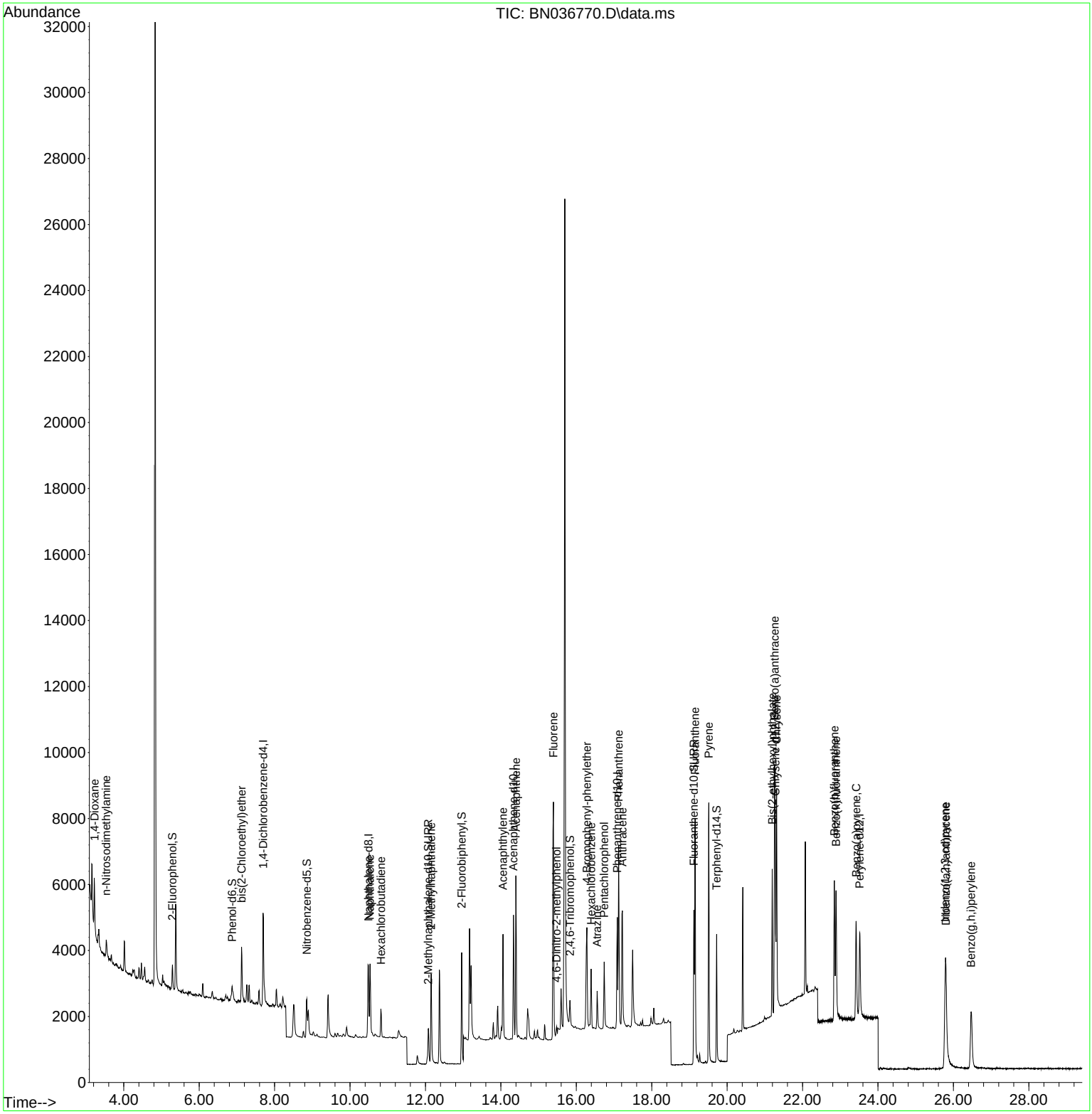
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036770.D
Acq On : 28 Mar 2025 13:22
Operator : RC/JU
Sample : Q1629-05MSD
Misc :
ALS Vial : 35 Sample Multiplier: 1

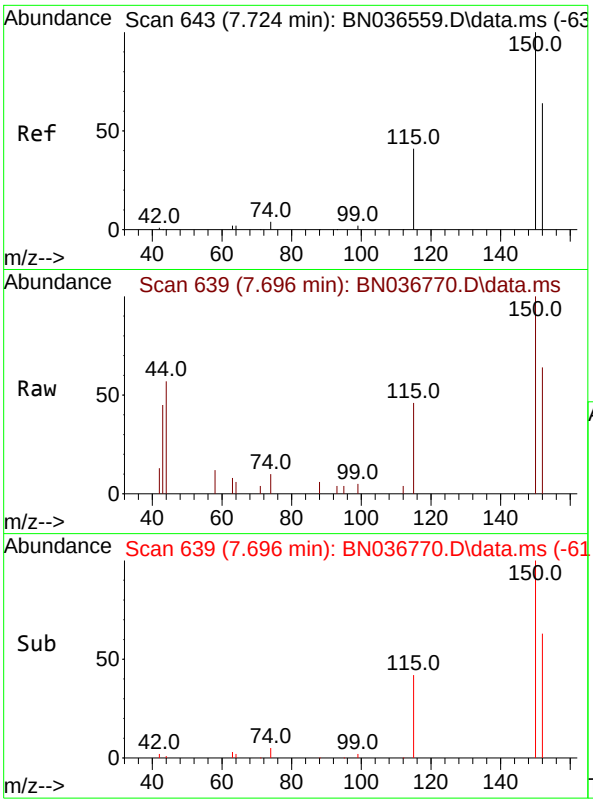
Quant Time: Mar 28 14:17:33 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

**Instrument :**
BNA_N
**ClientSampleId :**
TT188S1-20250320MSD

**Manual Integrations APPROVED**

Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

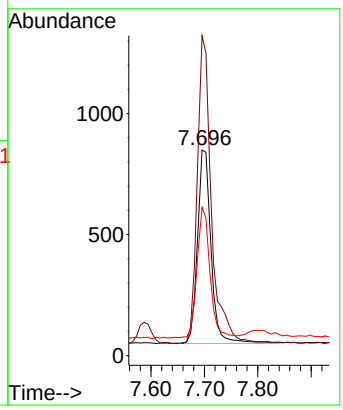





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.696 min Scan# 6
Delta R.T. -0.028 min
Lab File: BN036770.D
Acq: 28 Mar 2025 13:22

Tgt Ion:152 Resp: 141

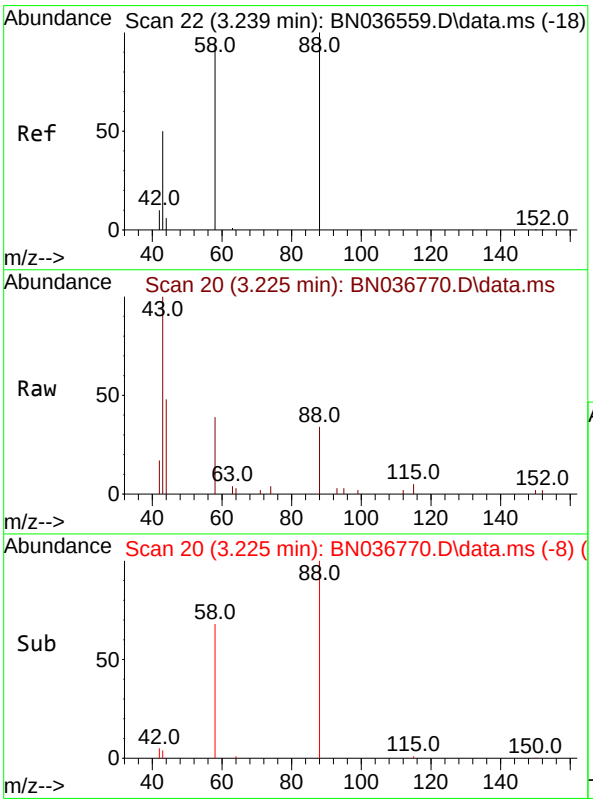
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 155.7 | 123.7 | 185.5 |
| 115 | 72.1 | 54.3 | 81.5 |




**Instrument :**
BNA_N
**ClientSampleId :**
TT188S1-20250320MSD

**Manual Integrations**
**APPROVED**

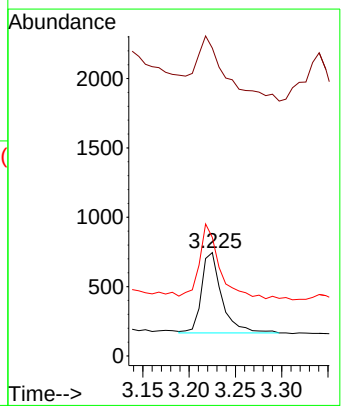
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

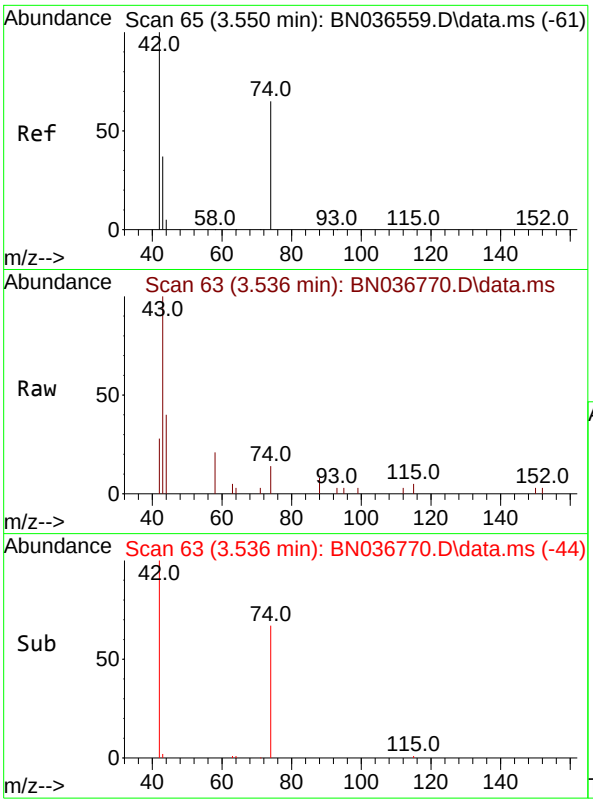



#2
1,4-Dioxane
Concen: 0.565 ng
RT: 3.225 min Scan# 20
Delta R.T. -0.014 min
Lab File: BN036770.D
Acq: 28 Mar 2025 13:22

Tgt Ion: 88 Resp: 887

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 114.2 | 37.8 | 56.8# |
| 58 | 91.4 | 67.4 | 101.2 |

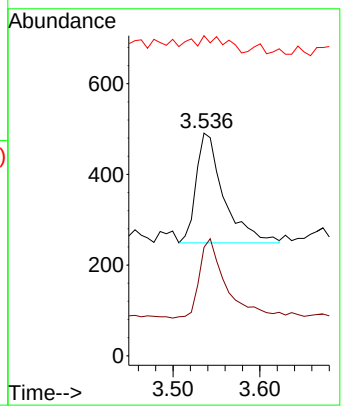





#3
n-Nitrosodimethylamine
Concen: 0.168 ng
RT: 3.536 min Scan# 6
Delta R.T. -0.014 min
Lab File: BN036770.D
Acq: 28 Mar 2025 13:22

Tgt Ion: 42 Resp: 53

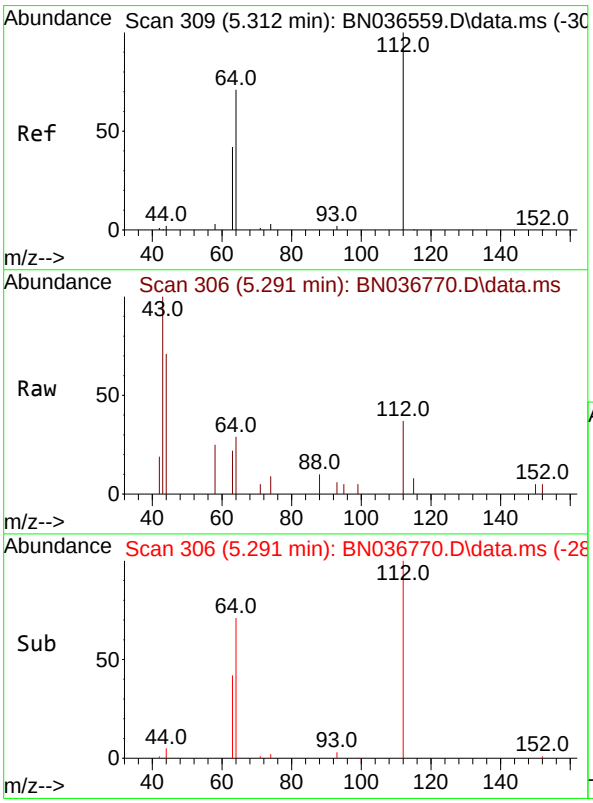
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 73.0 | 60.6 | 90.8 |
| 44 | 12.9 | 6.3 | 9.5 |




**Instrument :**
BNA_N
**ClientSampleId :**
TT188S1-20250320MSD

**Manual Integrations**
**APPROVED**

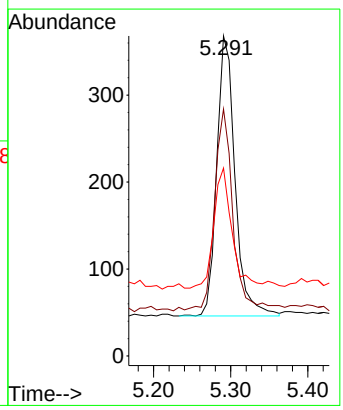
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

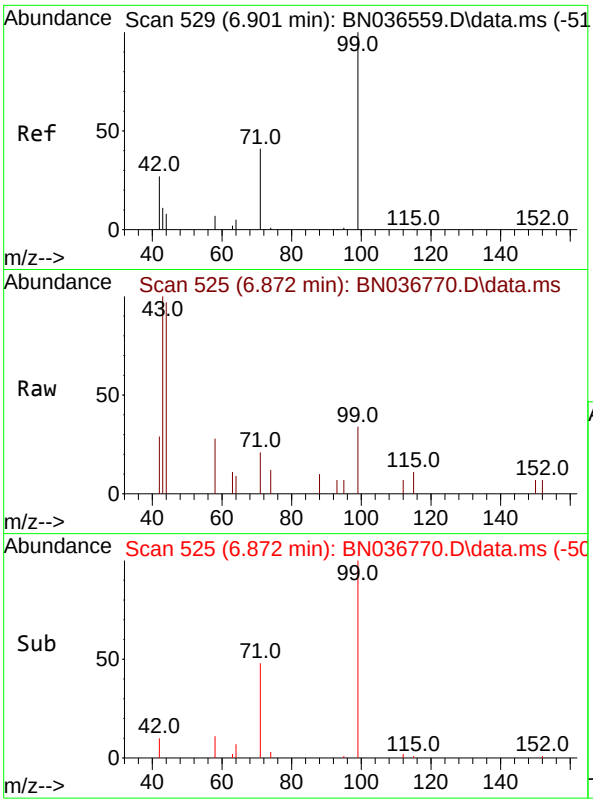



#4
2-Fluorophenol
Concen: 0.161 ng
RT: 5.291 min Scan# 306
Delta R.T. -0.021 min
Lab File: BN036770.D
Acq: 28 Mar 2025 13:22

Tgt Ion:112 Resp: 530

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 73.4 | 53.1 | 79.7 |
| 63 | 42.3 | 31.8 | 47.8 |

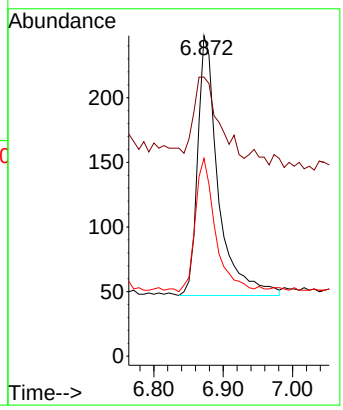





#5
Phenol-d6
Concen: 0.102 ng
RT: 6.872 min Scan# 5
Delta R.T. -0.029 min
Lab File: BN036770.D
Acq: 28 Mar 2025 13:22

Tgt Ion: 99 Resp: 41

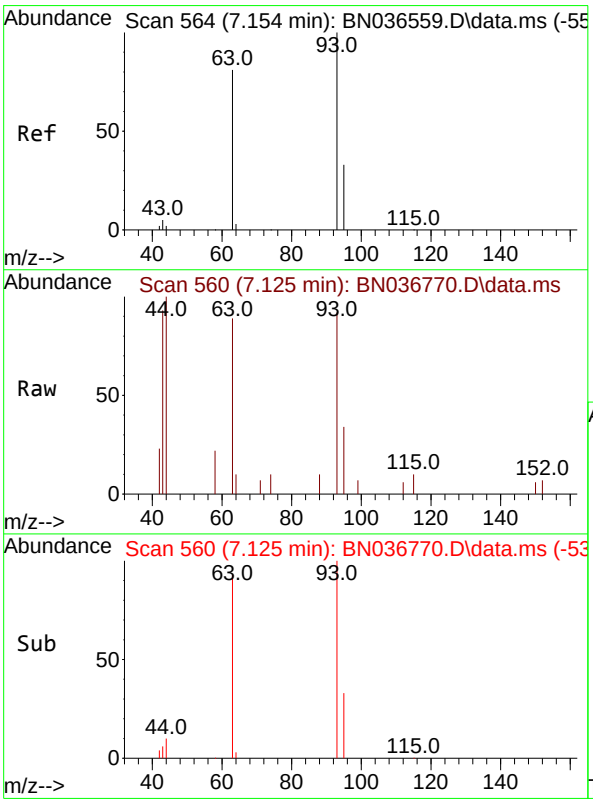
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 37.6 | 26.5 | 39.7 |
| 71 | 47.5 | 34.1 | 51.1 |




**Instrument :**
BNA_N
**ClientSampleId :**
TT188S1-20250320MSD

**Manual Integrations**
**APPROVED**

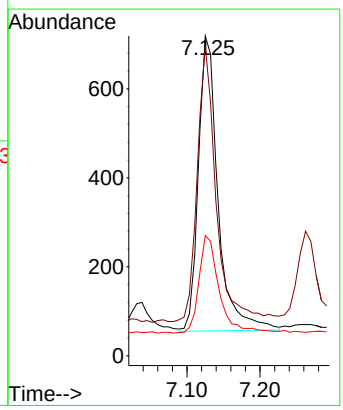
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

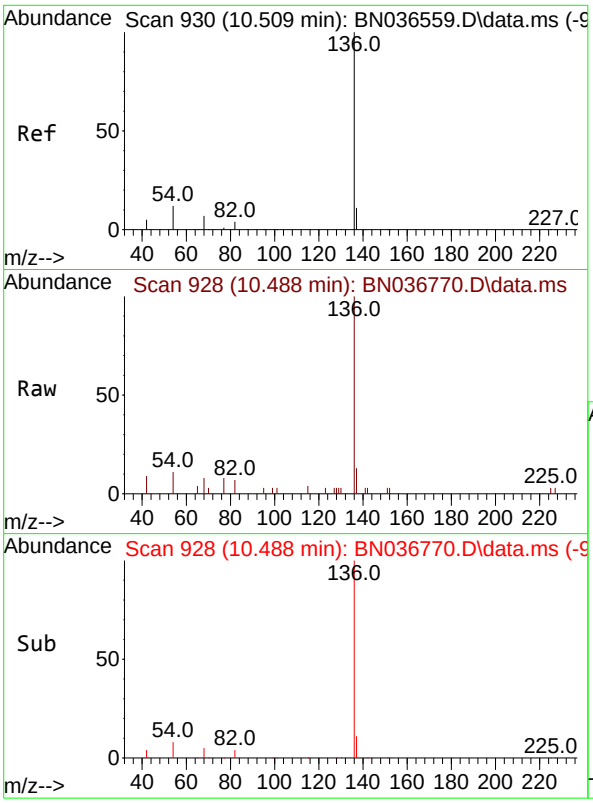



#6
bis(2-Chloroethyl)ether
Concen: 0.294 ng
RT: 7.125 min Scan# 560
Delta R.T. -0.029 min
Lab File: BN036770.D
Acq: 28 Mar 2025 13:22

Tgt Ion: 93 Resp: 1239

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 90.4 | 67.7 | 101.5 |
| 95 | 34.1 | 25.6 | 38.4 |

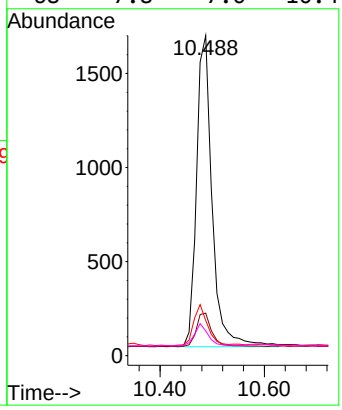





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.488 min Scan# 9
Delta R.T. -0.021 min
Lab File: BN036770.D
Acq: 28 Mar 2025 13:22

Tgt Ion:136 Resp: 3434

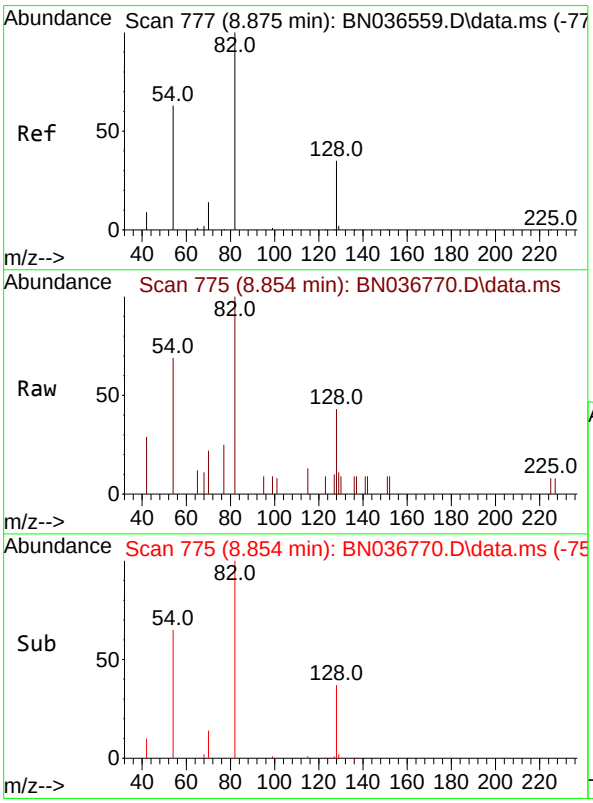
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 13.3 | 10.3 | 15.5 |
| 54 | 11.0 | 11.5 | 17.3# |
| 68 | 7.8 | 7.0 | 10.4 |




**Instrument :**
BNA_N
**ClientSampleId :**
TT188S1-20250320MSD

**Manual Integrations**
**APPROVED**

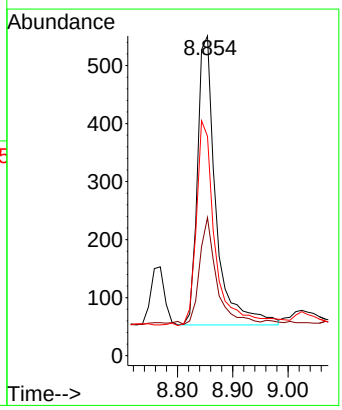
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

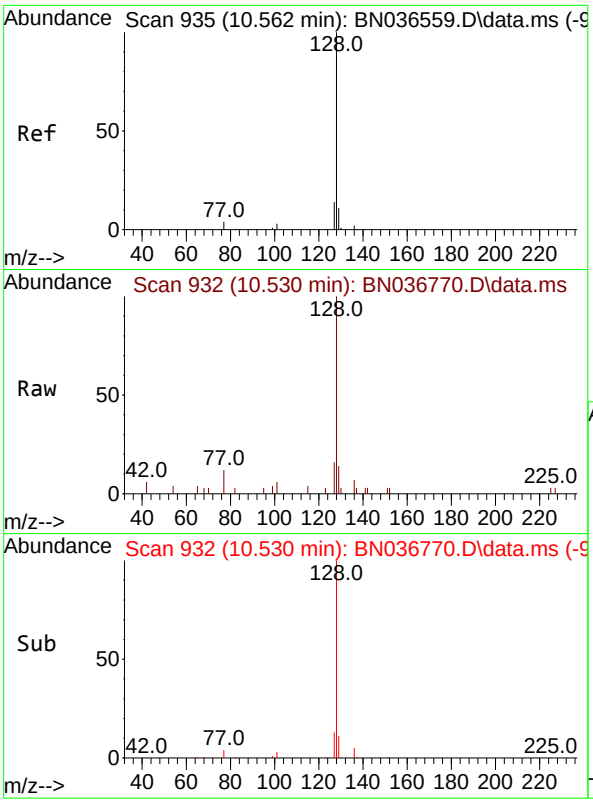



#8
Nitrobenzene-d5
Concen: 0.309 ng
RT: 8.854 min Scan# 775
Delta R.T. -0.021 min
Lab File: BN036770.D
Acq: 28 Mar 2025 13:22

Tgt Ion: 82 Resp: 1156

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 43.2 | 30.6 | 45.8 |
| 54 | 68.6 | 52.2 | 78.4 |

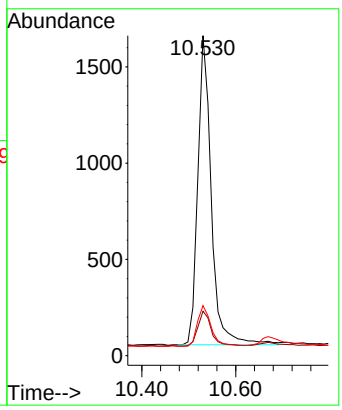





#9
Naphthalene
Concen: 0.318 ng
RT: 10.530 min Scan# 9
Delta R.T. -0.032 min
Lab File: BN036770.D
Acq: 28 Mar 2025 13:22

Tgt Ion:128 Resp: 321

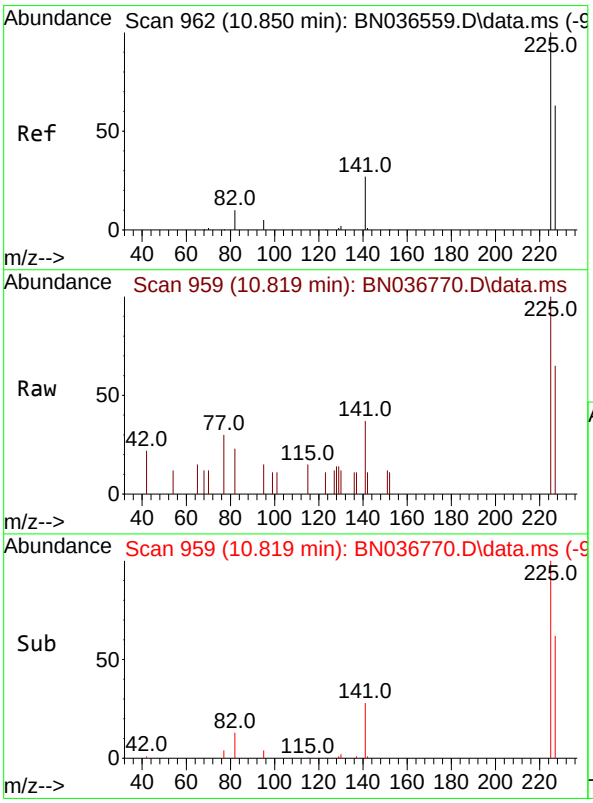
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 13.9 | 9.8 | 14.6 |
| 127 | 15.6 | 11.8 | 17.8 |




**Instrument :**
BNA_N
**ClientSampleId :**
TT188S1-20250320MSD

**Manual Integrations**
**APPROVED**

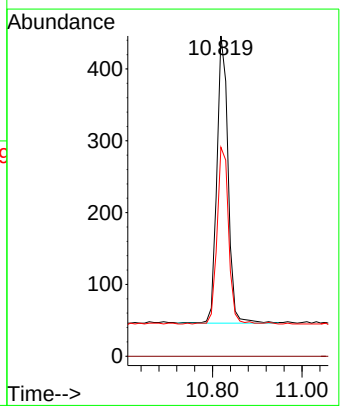
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

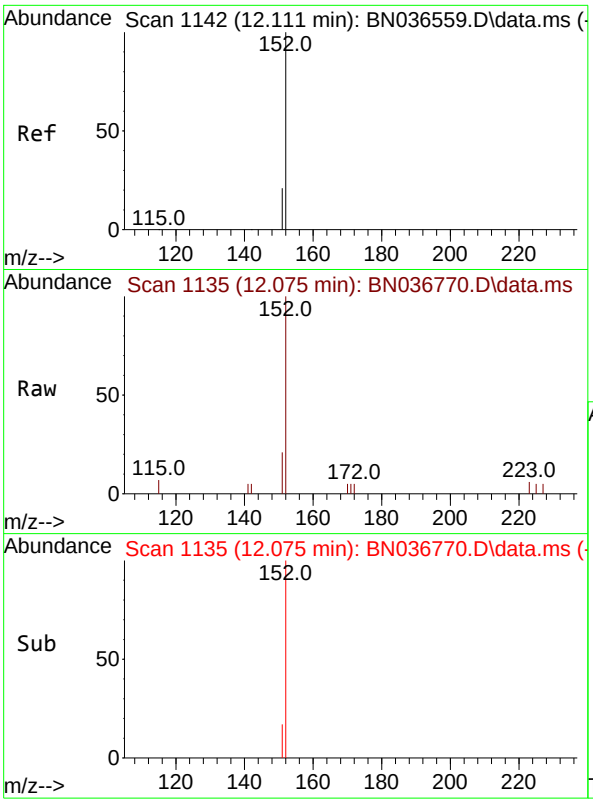



#10
Hexachlorobutadiene
Concen: 0.294 ng
RT: 10.819 min Scan# 959
Delta R.T. -0.032 min
Lab File: BN036770.D
Acq: 28 Mar 2025 13:22

Tgt Ion:225 Resp: 699

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 0.0 | 0.0 | 0.0 |
| 227 | 63.4 | 51.8 | 77.8 |

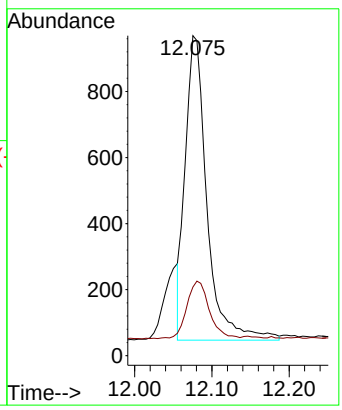





#11
2-Methylnaphthalene-d10
Concen: 0.352 ng m
RT: 12.075 min Scan# 1
Delta R.T. -0.035 min
Lab File: BN036770.D
Acq: 28 Mar 2025 13:22

Tgt Ion:152 Resp: 179

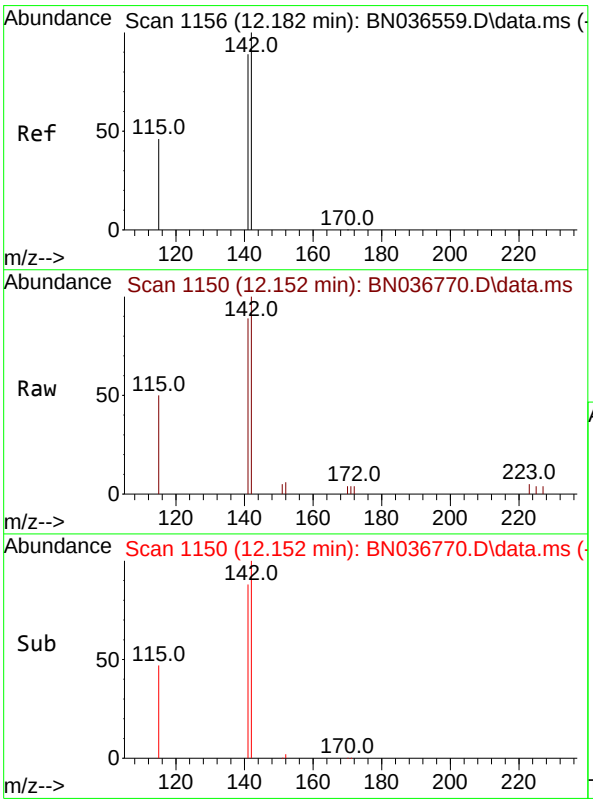
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.0 | 17.0 | 25.6 |




**Instrument :**
BNA_N
**ClientSampleId :**
TT188S1-20250320MSD

**Manual Integrations**
**APPROVED**

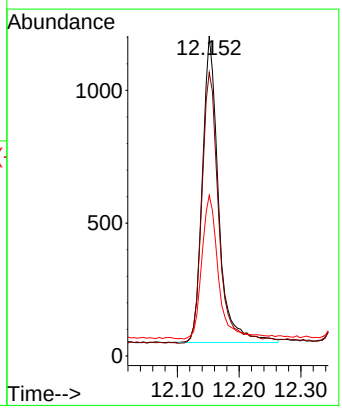
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

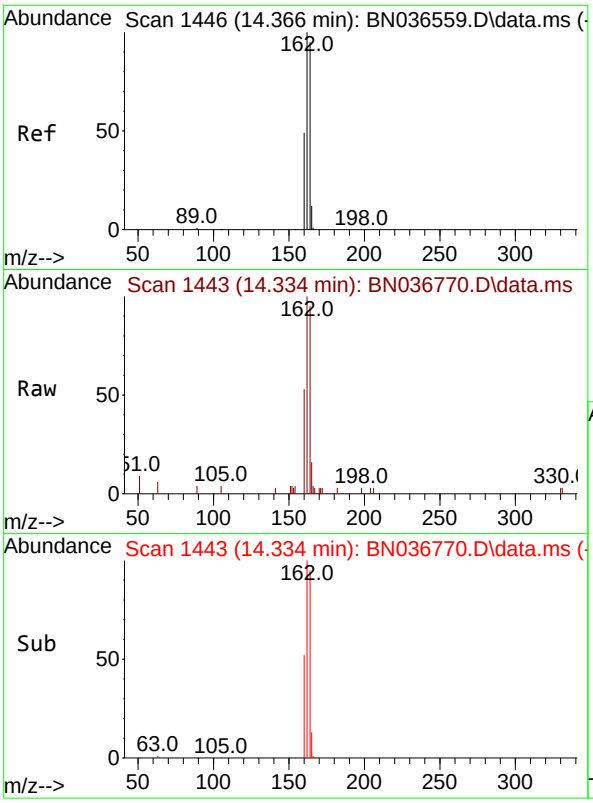



#12
2-Methylnaphthalene
Concen: 0.326 ng
RT: 12.152 min Scan# 1150
Delta R.T. -0.030 min
Lab File: BN036770.D
Acq: 28 Mar 2025 13:22

Tgt Ion:142 Resp: 2096

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 88.5 | 71.7 | 107.5 |
| 115 | 50.2 | 38.3 | 57.5 |

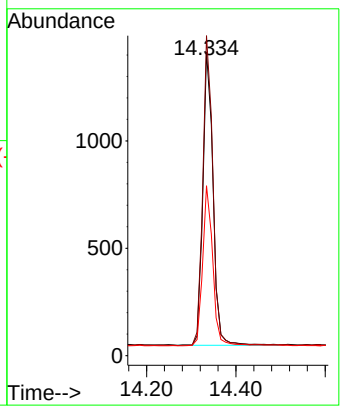





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.334 min Scan# 14
Delta R.T. -0.032 min
Lab File: BN036770.D
Acq: 28 Mar 2025 13:22

Tgt Ion:164 Resp: 216

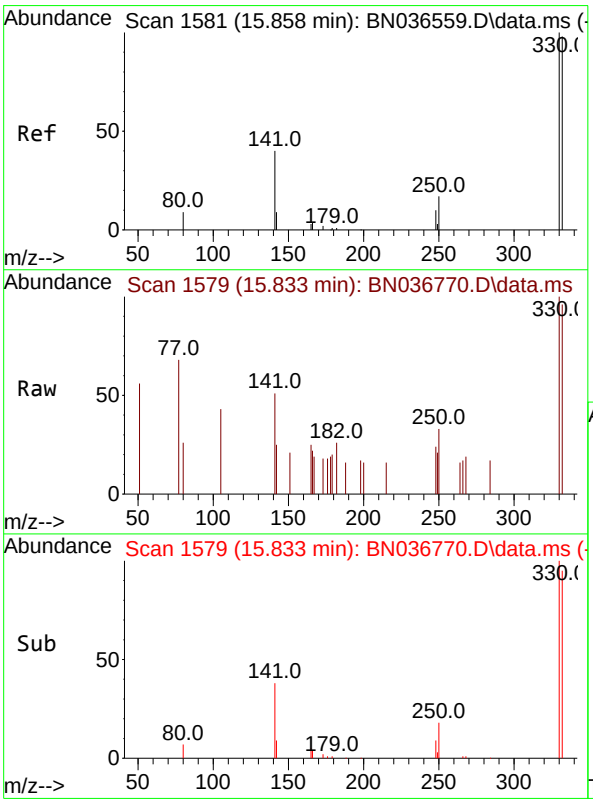
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 105.4 | 84.2 | 126.2 |
| 160 | 55.9 | 42.2 | 63.2 |




**Instrument :**
BNA_N
**ClientSampleId :**
TT188S1-20250320MSD

**Manual Integrations**
**APPROVED**

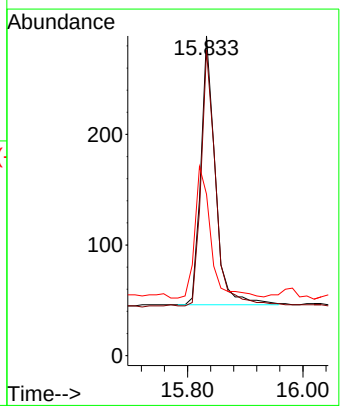
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

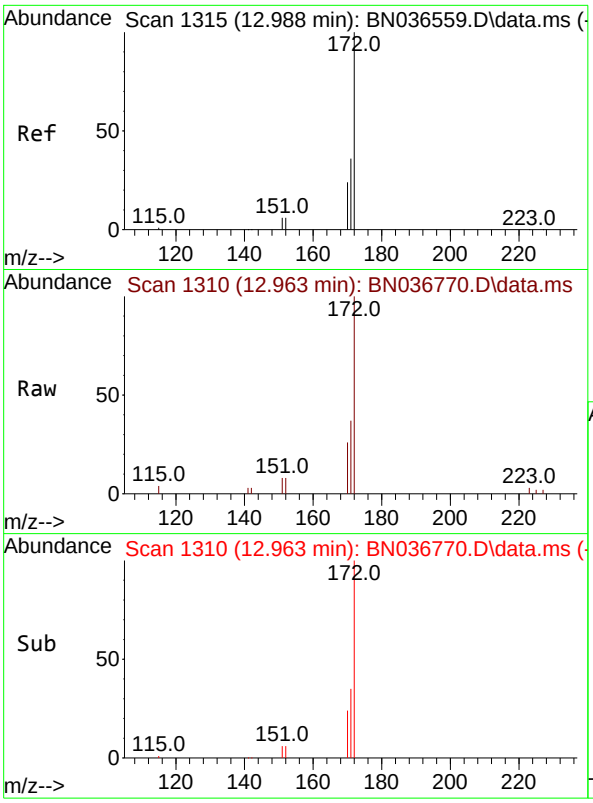



#14
2,4,6-Tribromophenol
Concen: 0.430 ng
RT: 15.833 min Scan# 1579
Delta R.T. -0.025 min
Lab File: BN036770.D
Acq: 28 Mar 2025 13:22

Tgt Ion:330 Resp: 421

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 100.2 | 75.2 | 112.8 |
| 141 | 54.4 | 43.4 | 65.2 |

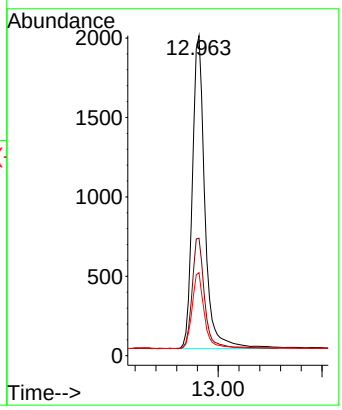





#15
2-Fluorobiphenyl
Concen: 0.363 ng
RT: 12.963 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036770.D
Acq: 28 Mar 2025 13:22

Tgt Ion:172 Resp: 455

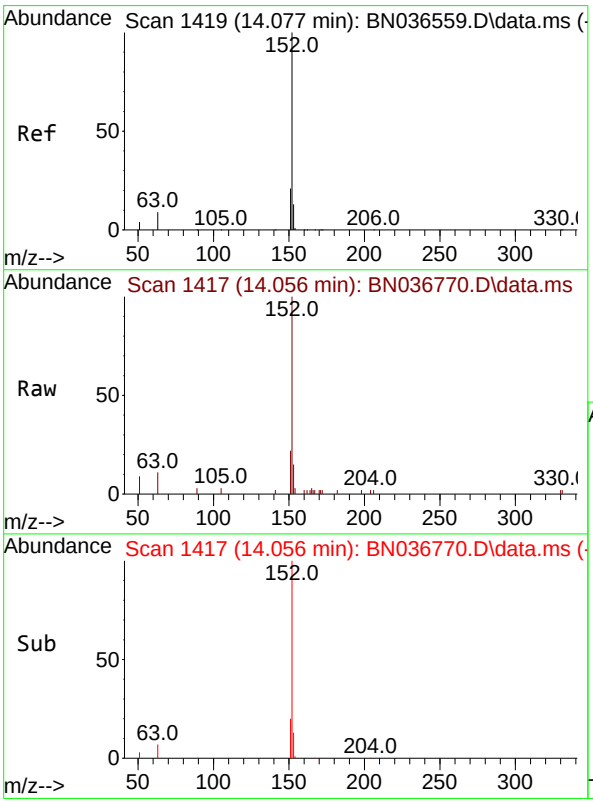
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 36.7 | 29.5 | 44.3 |
| 170 | 26.0 | 20.2 | 30.4 |




**Instrument :**
BNA_N
**ClientSampleId :**
TT188S1-20250320MSD

**Manual Integrations**
**APPROVED**

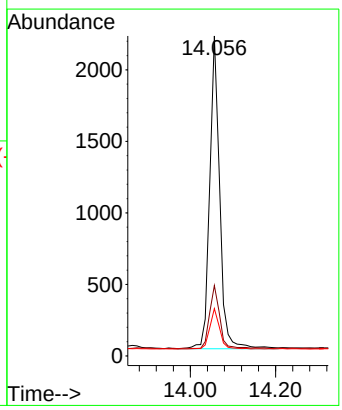
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

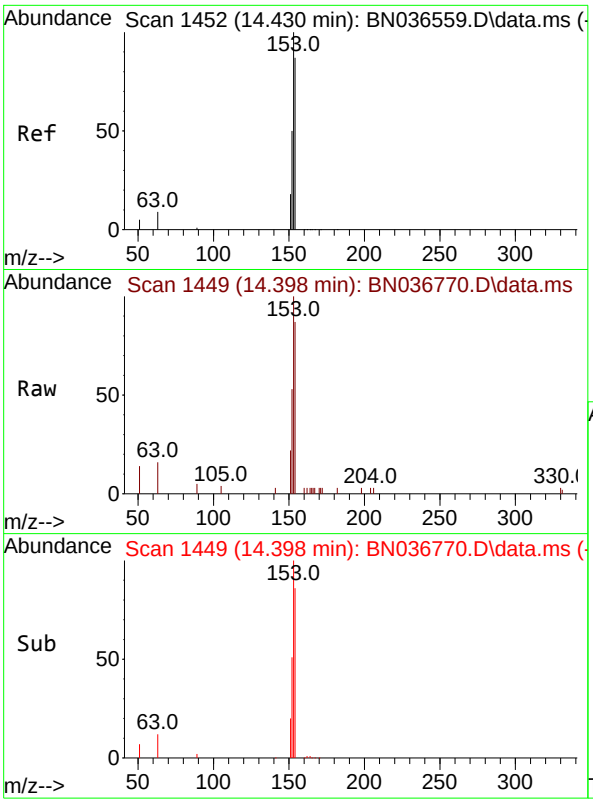



#16
Acenaphthylene
Concen: 0.348 ng
RT: 14.056 min Scan# 1417
Delta R.T. -0.021 min
Lab File: BN036770.D
Acq: 28 Mar 2025 13:22

Tgt Ion:152 Resp: 3550

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.1 | 16.2 | 24.4 |
| 153 | 12.8 | 10.6 | 15.8 |

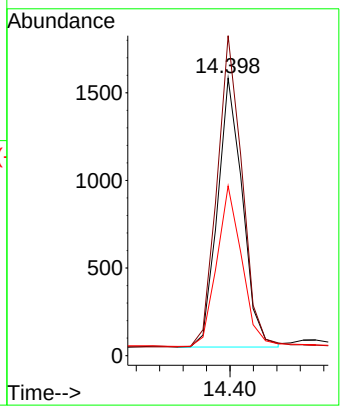





#17
Acenaphthene
Concen: 0.340 ng
RT: 14.398 min Scan# 14
Delta R.T. -0.032 min
Lab File: BN036770.D
Acq: 28 Mar 2025 13:22

Tgt Ion:154 Resp: 227

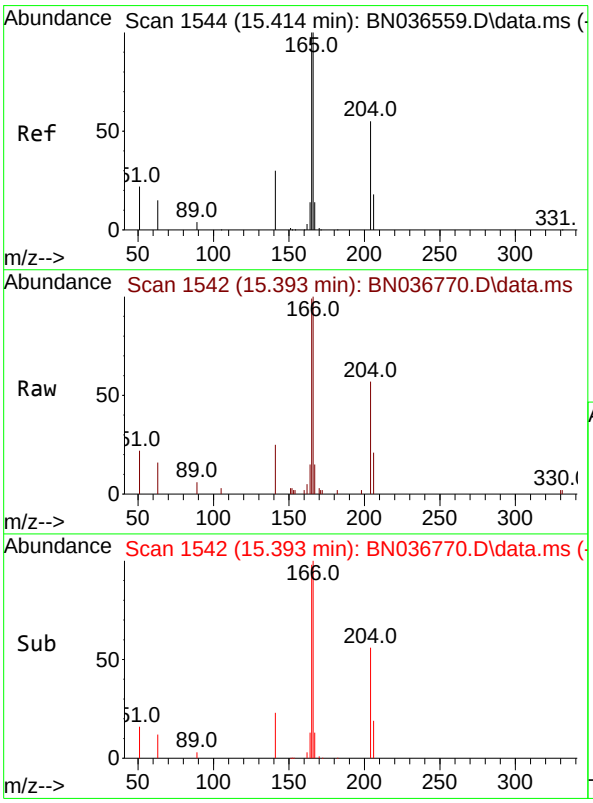
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 117.7 | 94.1 | 141.1 |
| 152 | 61.1 | 49.8 | 74.6 |




**Instrument :**
BNA_N
**ClientSampleId :**
TT188S1-20250320MSD

**Manual Integrations**
**APPROVED**

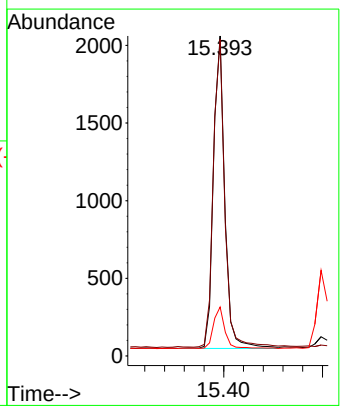
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

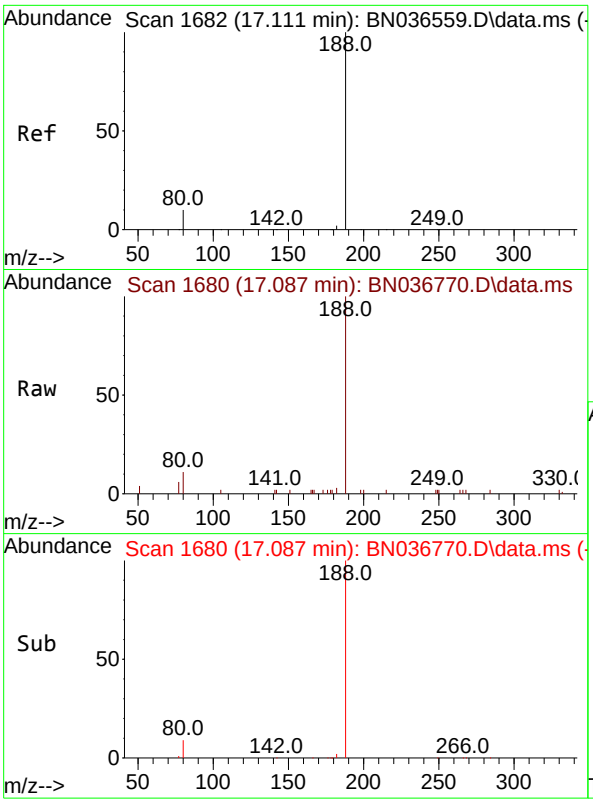



#18
Fluorene
Concen: 0.356 ng
RT: 15.393 min Scan# 1542
Delta R.T. -0.021 min
Lab File: BN036770.D
Acq: 28 Mar 2025 13:22

Tgt Ion:166 Resp: 3209

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 101.0 | 79.8 | 119.8 |
| 167 | 13.3 | 10.6 | 15.8 |

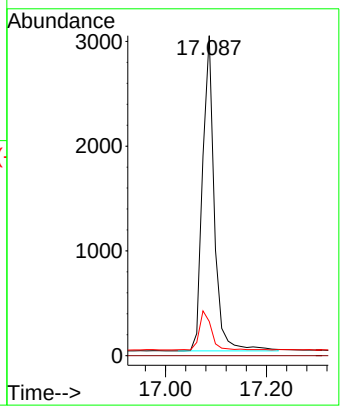





#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.087 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036770.D
Acq: 28 Mar 2025 13:22

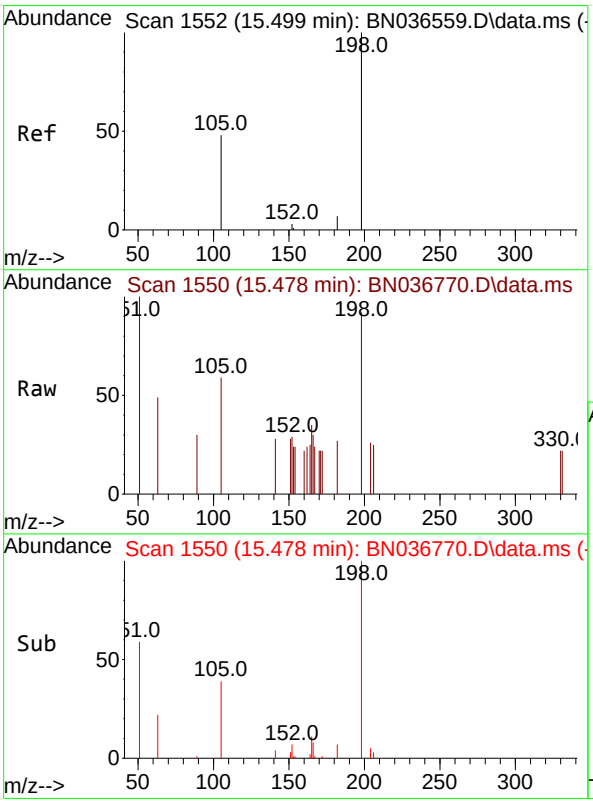
Tgt Ion:188 Resp: 488

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 10.7 | 8.8 | 13.2 |




**Instrument :**
BNA_N
**ClientSampleId :**
TT188S1-20250320MSD

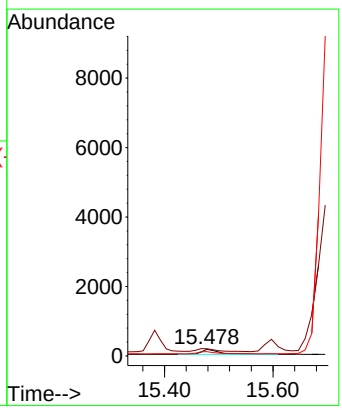
**Manual Integrations**
**APPROVED**
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

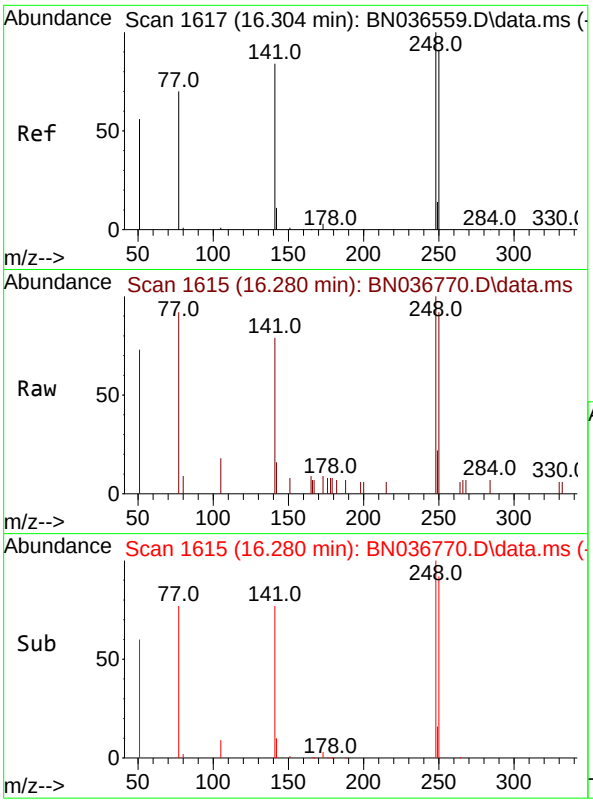



#20
4,6-Dinitro-2-methylphenol
Concen: 0.425 ng
RT: 15.478 min Scan# 1550
Delta R.T. -0.021 min
Lab File: BN036770.D
Acq: 28 Mar 2025 13:22

Tgt Ion:198 Resp: 349

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 198 | 100 | | |
| 51 | 108.3 | 107.9 | 161.9 |
| 105 | 64.2 | 56.2 | 84.2 |

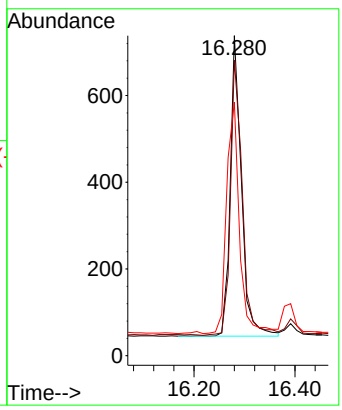





#21
4-Bromophenyl-phenylether
Concen: 0.352 ng
RT: 16.280 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036770.D
Acq: 28 Mar 2025 13:22

Tgt Ion:248 Resp: 107

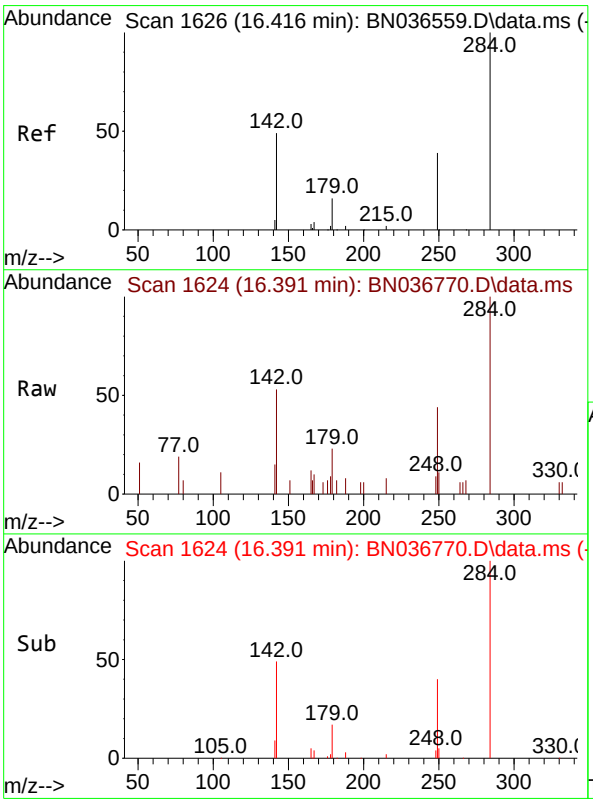
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 92.4 | 73.0 | 109.6 |
| 141 | 79.1 | 68.6 | 103.0 |




**Instrument :**
BNA_N
**ClientSampleId :**
TT188S1-20250320MSD

**Manual Integrations**
**APPROVED**

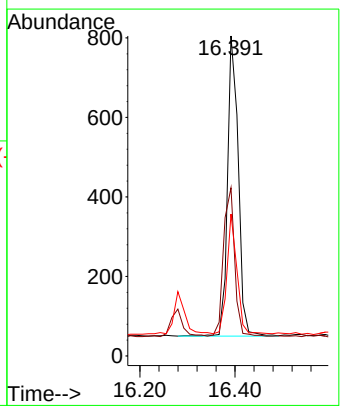
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

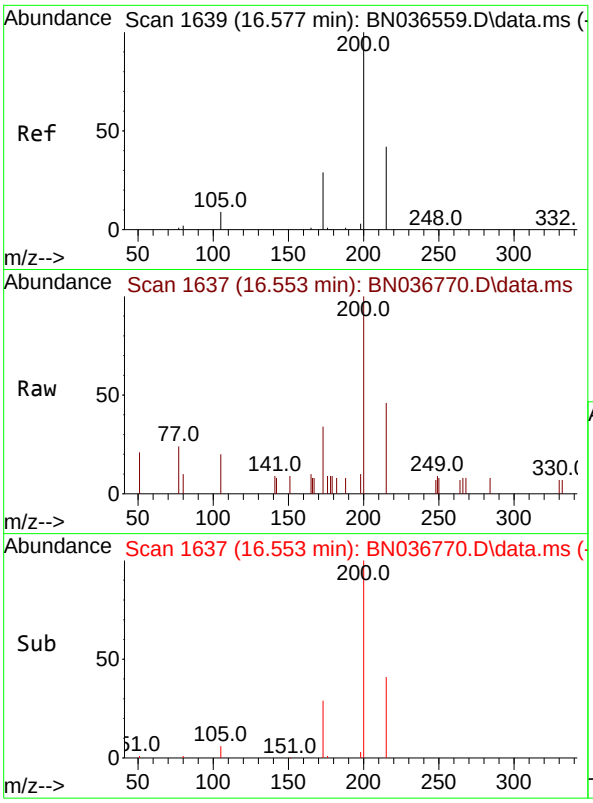



#22
Hexachlorobenzene
Concen: 0.319 ng
RT: 16.391 min Scan# 1624
Delta R.T. -0.025 min
Lab File: BN036770.D
Acq: 28 Mar 2025 13:22

Tgt Ion:284 Resp: 1179

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 51.3 | 37.0 | 55.4 |
| 249 | 37.1 | 28.1 | 42.1 |

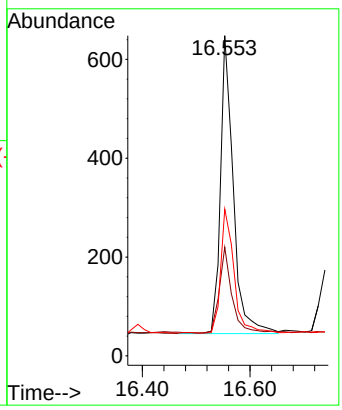





#23
Atrazine
Concen: 0.408 ng
RT: 16.553 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036770.D
Acq: 28 Mar 2025 13:22

Tgt Ion:200 Resp: 100

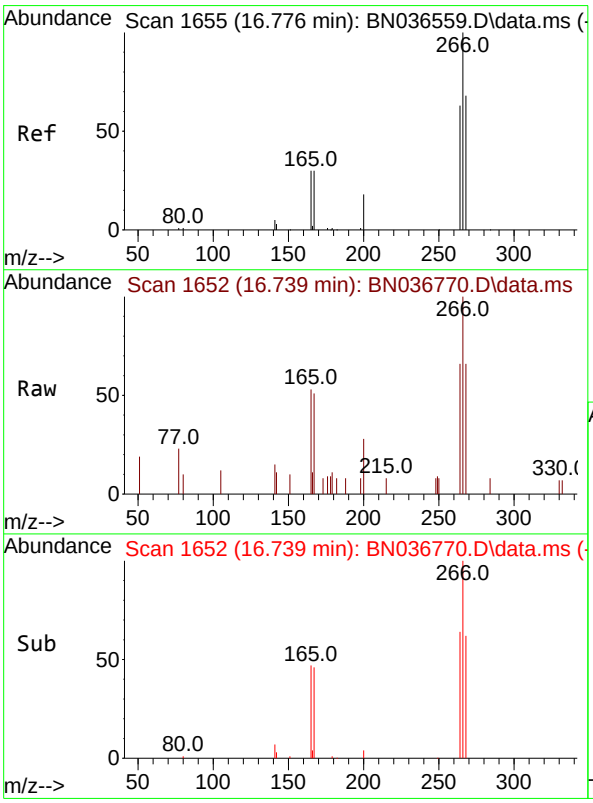
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 173 | 34.0 | 27.3 | 40.9 |
| 215 | 45.8 | 36.8 | 55.2 |




**Instrument :**
BNA_N
**ClientSampleId :**
TT188S1-20250320MSD

**Manual Integrations**
**APPROVED**

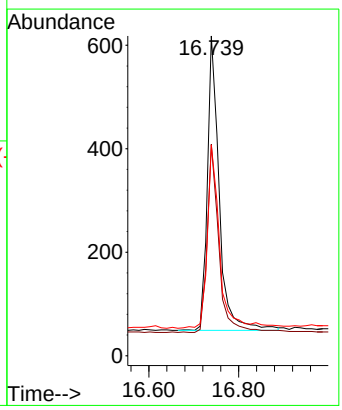
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

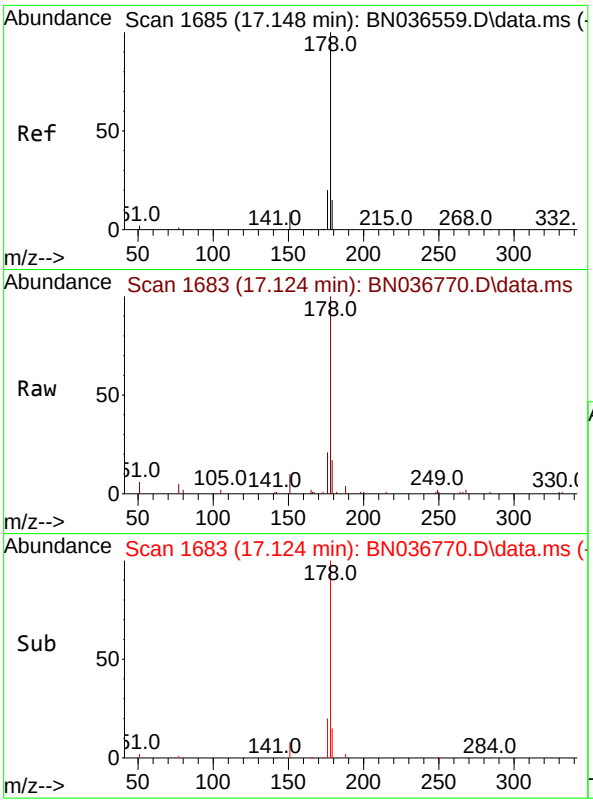



#24
Pentachlorophenol
Concen: 0.614 ng
RT: 16.739 min Scan# 1652
Delta R.T. -0.037 min
Lab File: BN036770.D
Acq: 28 Mar 2025 13:22

Tgt Ion:266 Resp: 1036

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 264 | 63.3 | 49.6 | 74.4 |
| 268 | 65.4 | 50.9 | 76.3 |

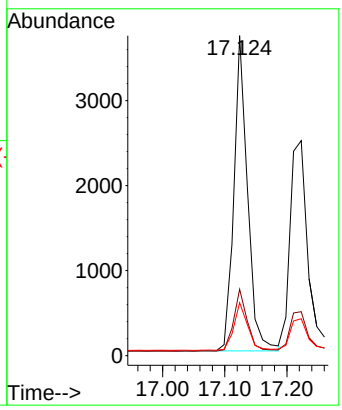





#25
Phenanthrene
Concen: 0.386 ng
RT: 17.124 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036770.D
Acq: 28 Mar 2025 13:22

Tgt Ion:178 Resp: 566

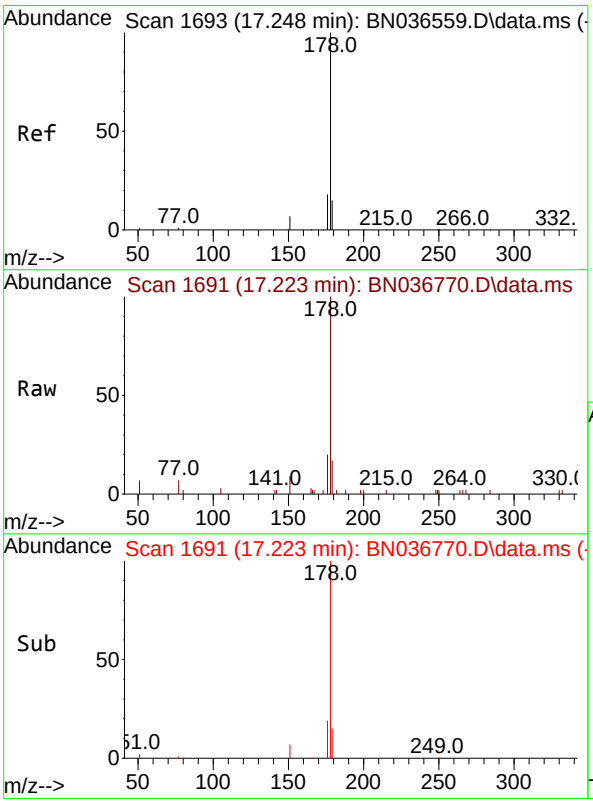
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.7 | 15.9 | 23.9 |
| 179 | 15.4 | 12.2 | 18.4 |




**Instrument :**
BNA_N
**ClientSampleId :**
TT188S1-20250320MSD

**Manual Integrations**
**APPROVED**

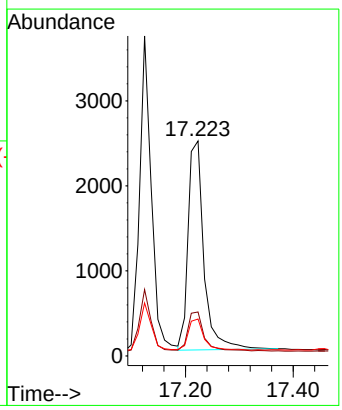
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

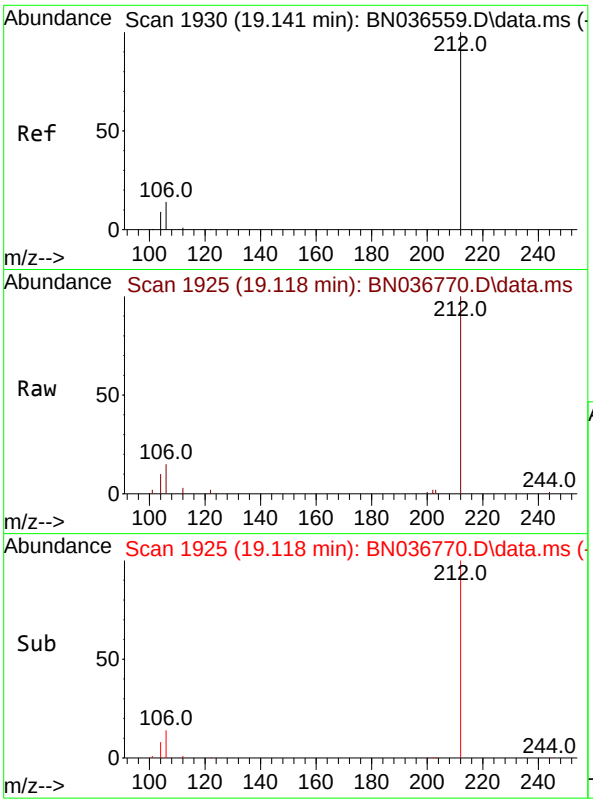



#26
Anthracene
Concen: 0.378 ng
RT: 17.223 min Scan# 1691
Delta R.T. -0.025 min
Lab File: BN036770.D
Acq: 28 Mar 2025 13:22

Tgt Ion:178 Resp: 5004

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.4 | 15.4 | 23.2 |
| 179 | 15.0 | 12.6 | 18.8 |

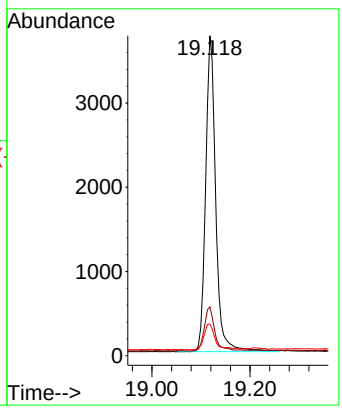





#27
Fluoranthene-d10
Concen: 0.427 ng
RT: 19.118 min Scan# 1
Delta R.T. -0.023 min
Lab File: BN036770.D
Acq: 28 Mar 2025 13:22

Tgt Ion:212 Resp: 534

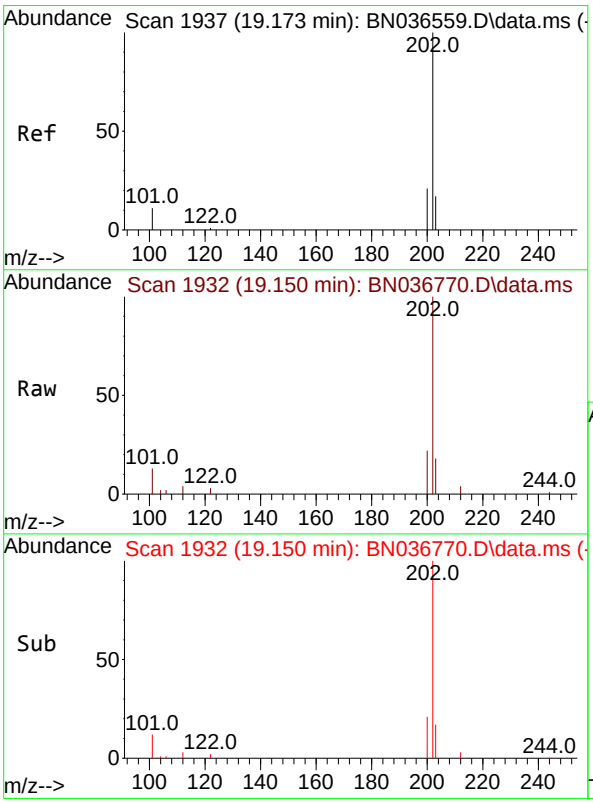
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 14.1 | 11.8 | 17.6 |
| 104 | 9.1 | 7.3 | 10.9 |




**Instrument :**
BNA_N
**ClientSampleId :**
TT188S1-20250320MSD

**Manual Integrations**
**APPROVED**

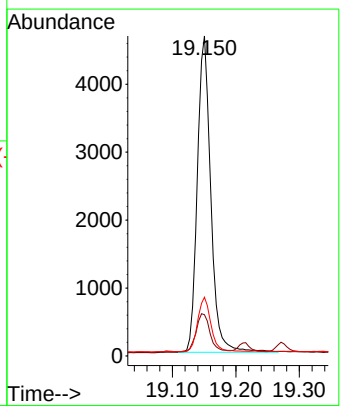
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

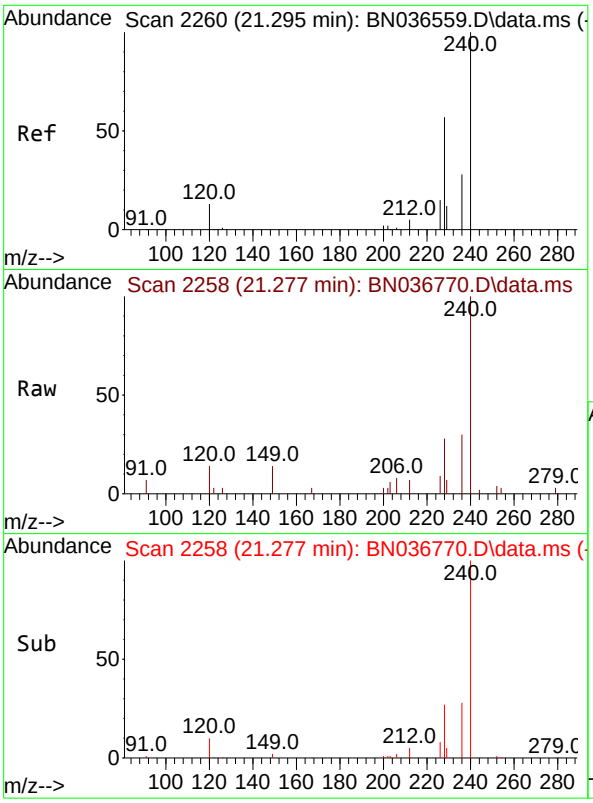



#28
Fluoranthene
Concen: 0.417 ng
RT: 19.150 min Scan# 1932
Delta R.T. -0.023 min
Lab File: BN036770.D
Acq: 28 Mar 2025 13:22

Tgt Ion:202 Resp: 6870

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 12.8 | 9.4 | 14.0 |
| 203 | 17.0 | 13.5 | 20.3 |

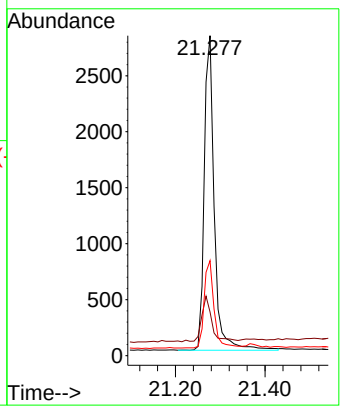





#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036770.D
Acq: 28 Mar 2025 13:22

Tgt Ion:240 Resp: 438

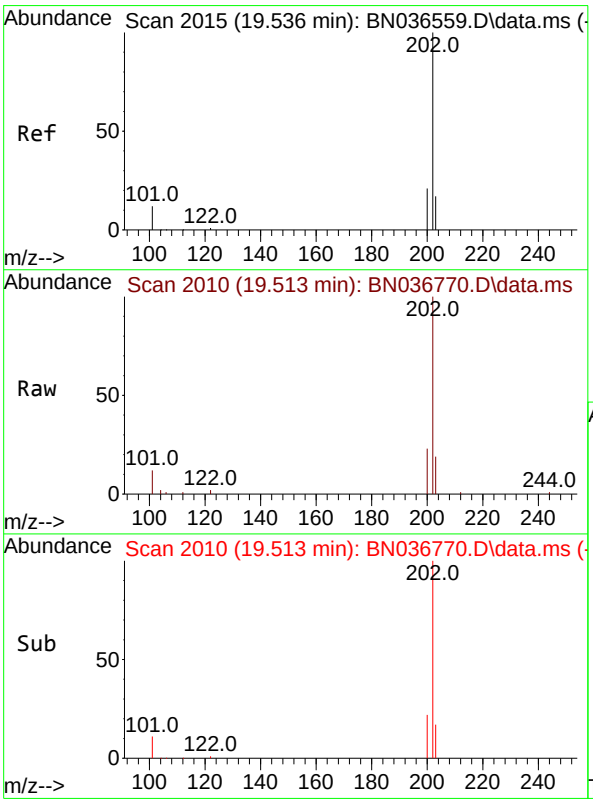
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 13.6 | 14.6 | 22.0 |
| 236 | 29.7 | 24.1 | 36.1 |




**Instrument :**
BNA_N
**ClientSampleId :**
TT188S1-20250320MSD

**Manual Integrations**
**APPROVED**

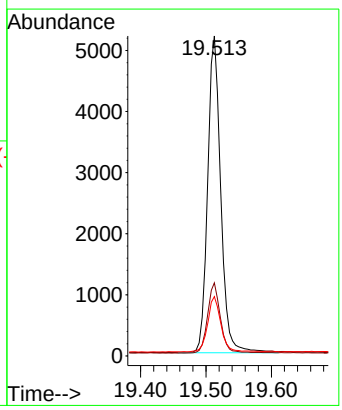
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

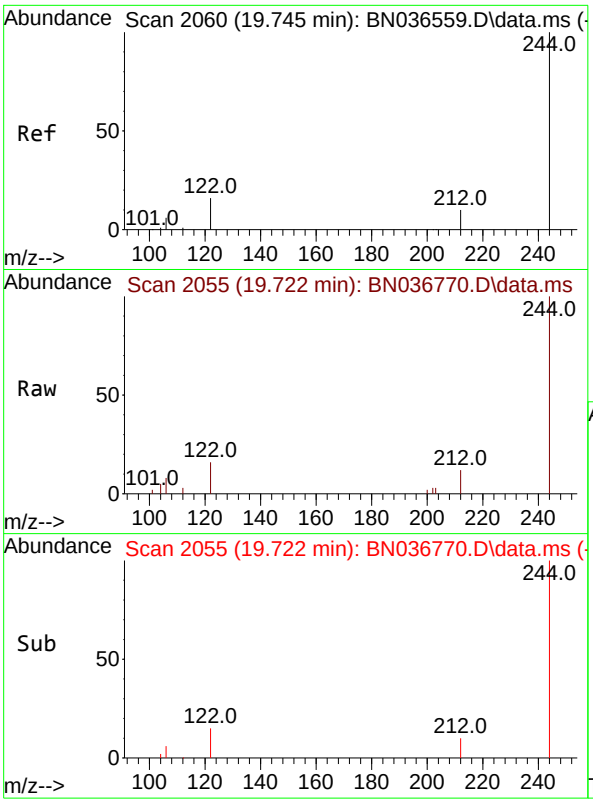



#30
Pyrene
Concen: 0.336 ng
RT: 19.513 min Scan# 2010
Delta R.T. -0.023 min
Lab File: BN036770.D
Acq: 28 Mar 2025 13:22

Tgt Ion:202 Resp: 7205

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.8 | 17.1 | 25.7 |
| 203 | 17.6 | 14.1 | 21.1 |

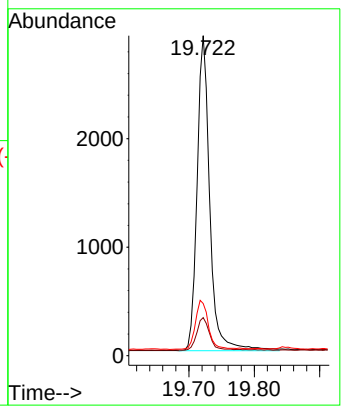





#31
Terphenyl-d14
Concen: 0.372 ng
RT: 19.722 min Scan# 2
Delta R.T. -0.023 min
Lab File: BN036770.D
Acq: 28 Mar 2025 13:22

Tgt Ion:244 Resp: 390

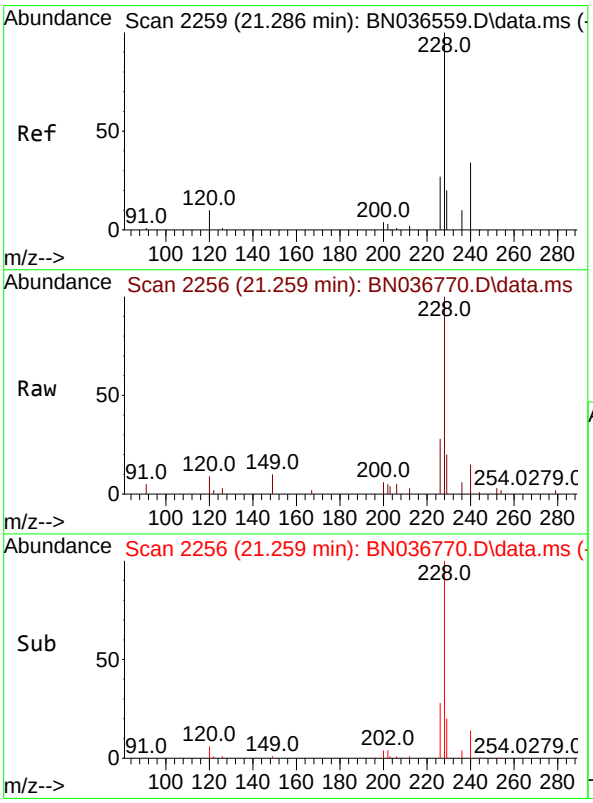
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 11.9 | 9.6 | 14.4 |
| 122 | 16.3 | 13.9 | 20.9 |




**Instrument :**
BNA_N
**ClientSampleId :**
TT188S1-20250320MSD

**Manual Integrations**
**APPROVED**

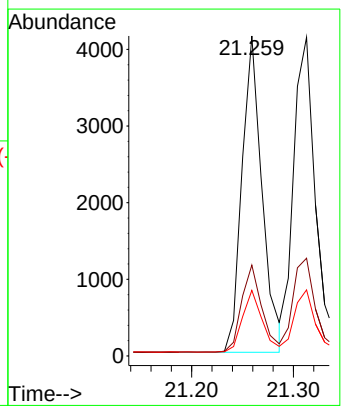
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

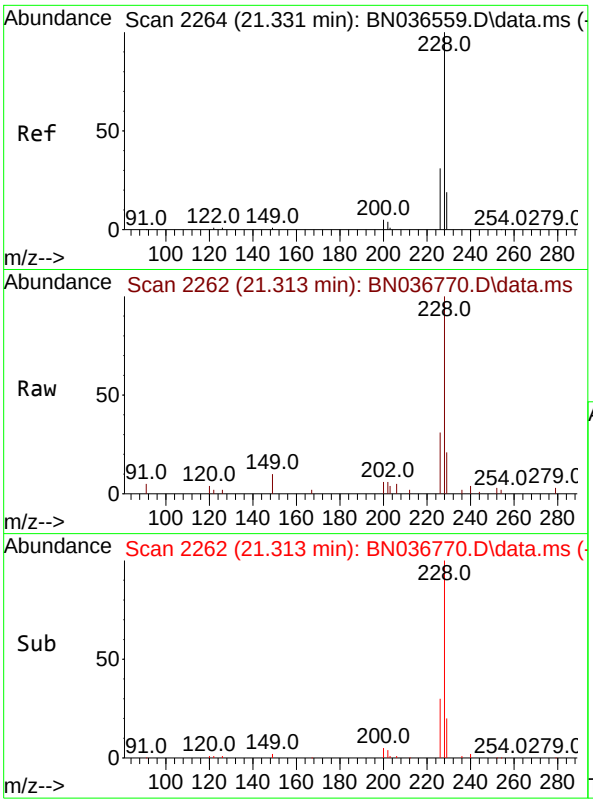



#32
Benzo(a)anthracene
Concen: 0.372 ng
RT: 21.259 min Scan# 2256
Delta R.T. -0.027 min
Lab File: BN036770.D
Acq: 28 Mar 2025 13:22

Tgt Ion:228 Resp: 5677

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 28.4 | 22.5 | 33.7 |
| 229 | 20.5 | 16.6 | 25.0 |

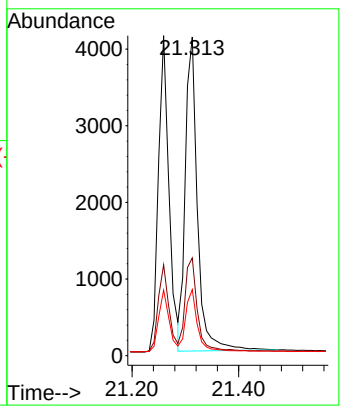





#33
Chrysene
Concen: 0.388 ng
RT: 21.313 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036770.D
Acq: 28 Mar 2025 13:22

Tgt Ion:228 Resp: 646

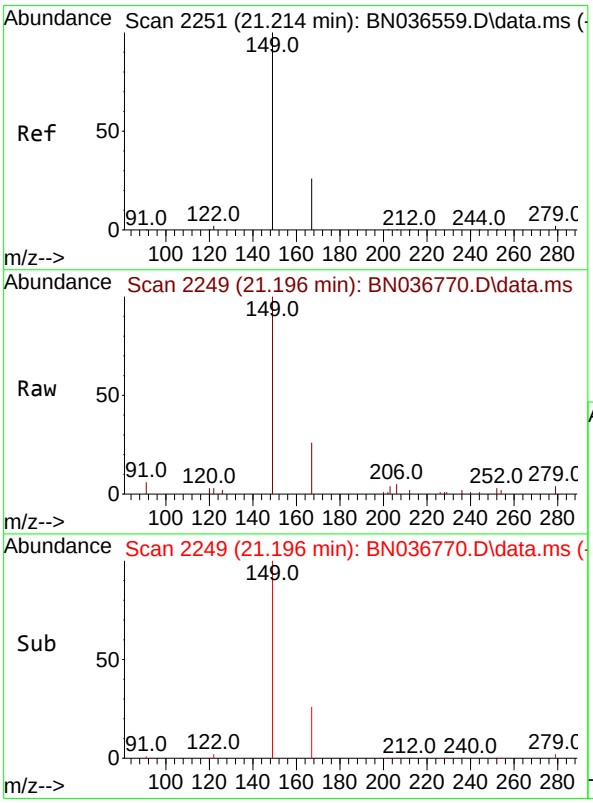
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 30.7 | 25.3 | 37.9 |
| 229 | 20.7 | 15.8 | 23.8 |




**Instrument :**
BNA_N
**ClientSampleId :**
TT188S1-20250320MSD

**Manual Integrations**
**APPROVED**

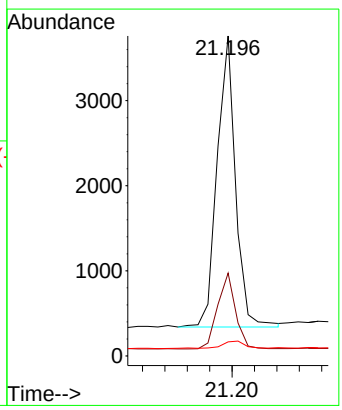
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

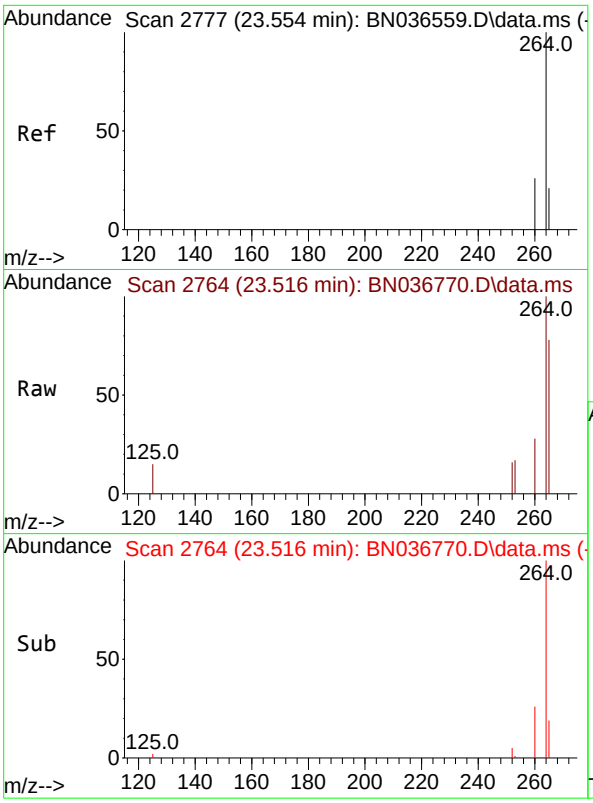



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.359 ng
RT: 21.196 min Scan# 2249
Delta R.T. -0.018 min
Lab File: BN036770.D
Acq: 28 Mar 2025 13:22

Tgt Ion:149 Resp: 3896

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 25.6 | 20.7 | 31.1 |
| 279 | 3.0 | 3.6 | 5.4# |

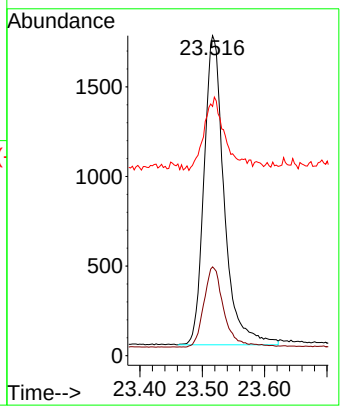





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.516 min Scan# 2
Delta R.T. -0.038 min
Lab File: BN036770.D
Acq: 28 Mar 2025 13:22

Tgt Ion:264 Resp: 388

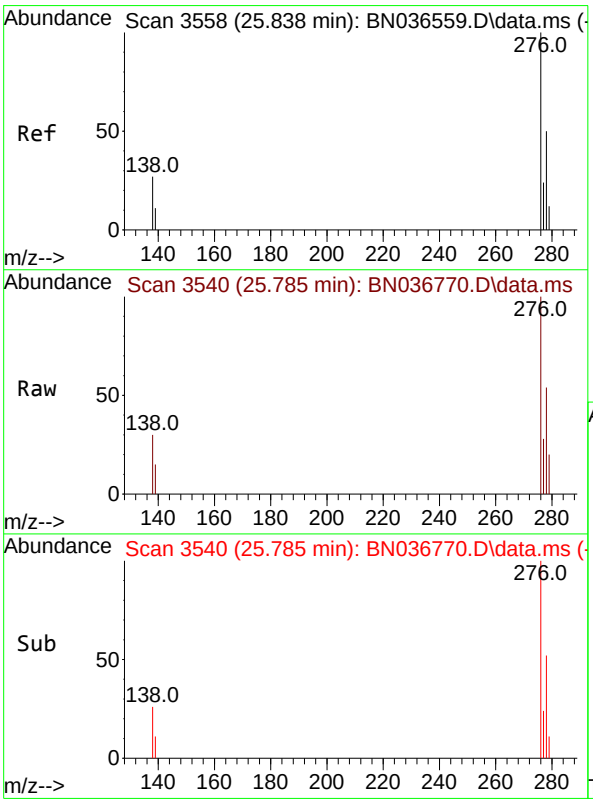
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 27.7 | 22.6 | 33.8 |
| 265 | 77.9 | 88.1 | 132.1# |




**Instrument :**
BNA_N
**ClientSampleId :**
TT188S1-20250320MSD

**Manual Integrations**
**APPROVED**

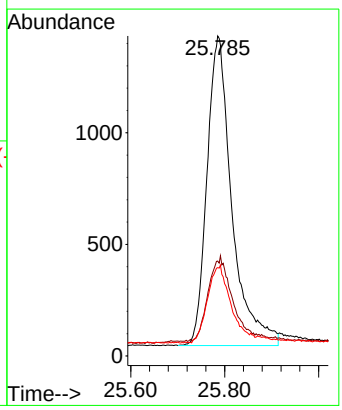
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

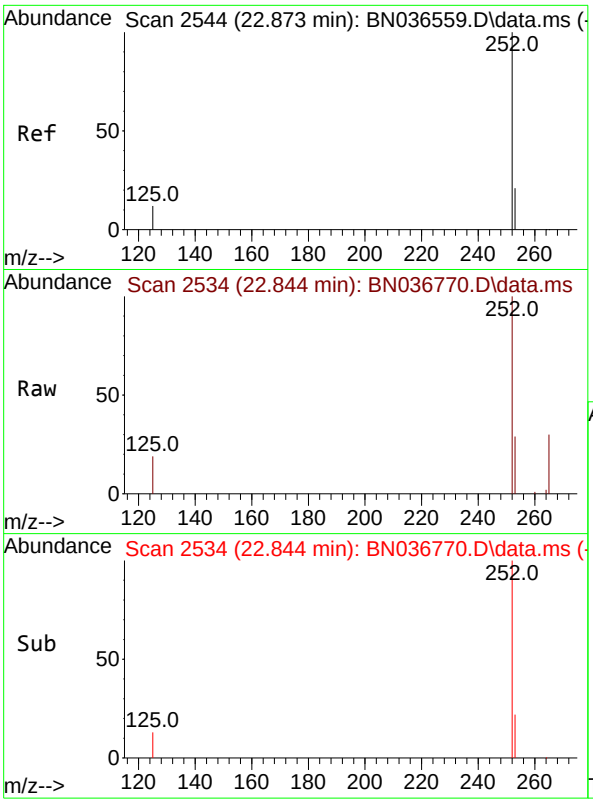



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.364 ng
RT: 25.785 min Scan# 3540
Delta R.T. -0.052 min
Lab File: BN036770.D
Acq: 28 Mar 2025 13:22

Tgt Ion:276 Resp: 5098

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 26.9 | 23.4 | 35.2 |
| 277 | 23.4 | 20.0 | 30.0 |

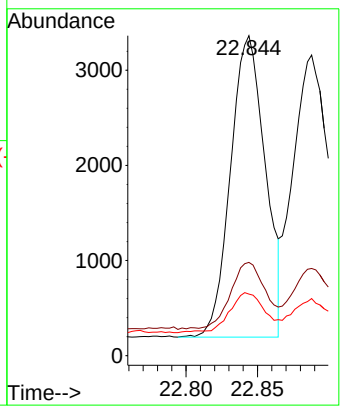





#37
Benzo(b)fluoranthene
Concen: 0.380 ng
RT: 22.844 min Scan# 2
Delta R.T. -0.029 min
Lab File: BN036770.D
Acq: 28 Mar 2025 13:22

Tgt Ion:252 Resp: 536

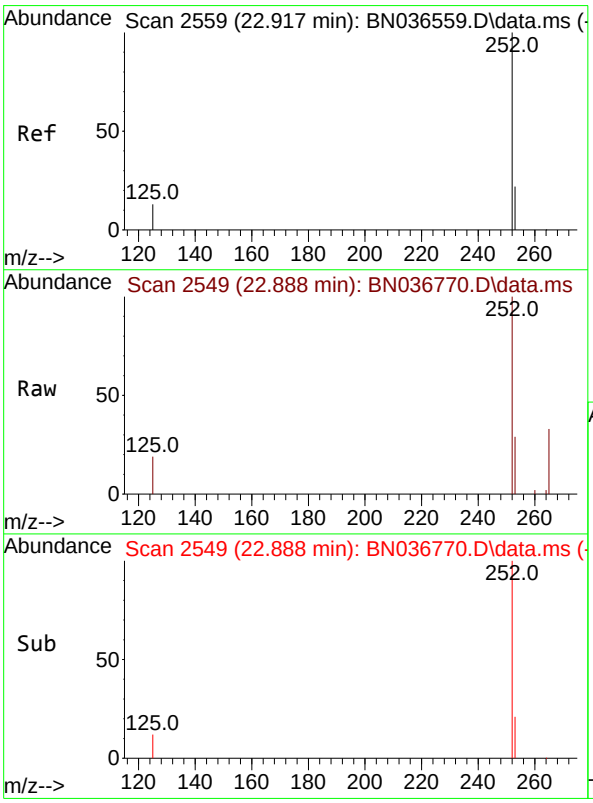
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 29.1 | 23.9 | 35.9 |
| 125 | 19.3 | 17.4 | 26.2 |




**Instrument :**
BNA_N
**ClientSampleId :**
TT188S1-20250320MSD

**Manual Integrations**
**APPROVED**

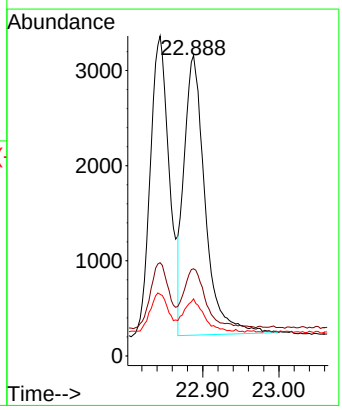
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

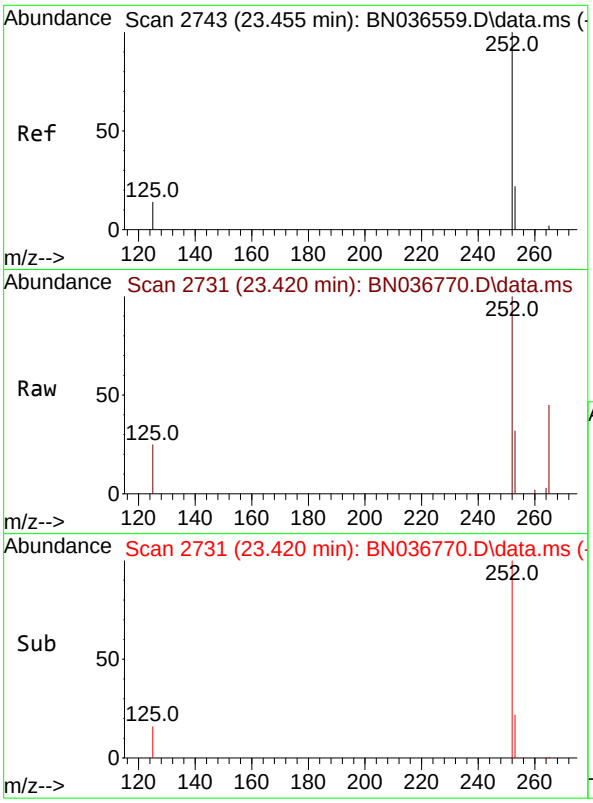



#38
Benzo(k)fluoranthene
Concen: 0.382 ng
RT: 22.888 min Scan# 2549
Delta R.T. -0.029 min
Lab File: BN036770.D
Acq: 28 Mar 2025 13:22

Tgt Ion:252 Resp: 5659

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 29.0 | 24.6 | 36.8 |
| 125 | 19.0 | 17.8 | 26.8 |

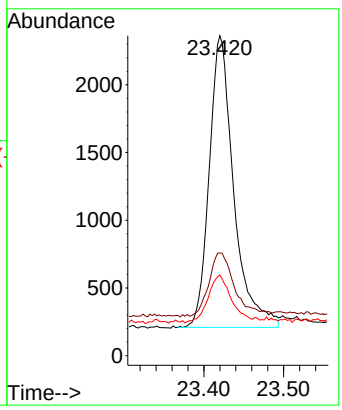





#39
Benzo(a)pyrene
Concen: 0.387 ng
RT: 23.420 min Scan# 2
Delta R.T. -0.035 min
Lab File: BN036770.D
Acq: 28 Mar 2025 13:22

Tgt Ion:252 Resp: 459

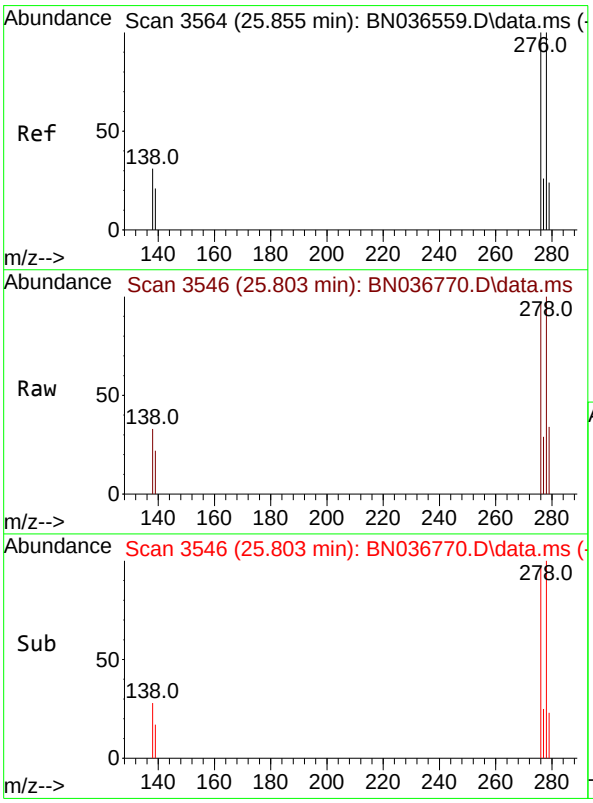
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 32.1 | 27.8 | 41.8 |
| 125 | 25.2 | 22.7 | 34.1 |




**Instrument :**
BNA_N
**ClientSampleId :**
TT188S1-20250320MSD

**Manual Integrations**
**APPROVED**

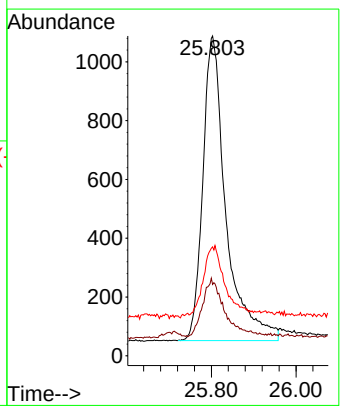
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

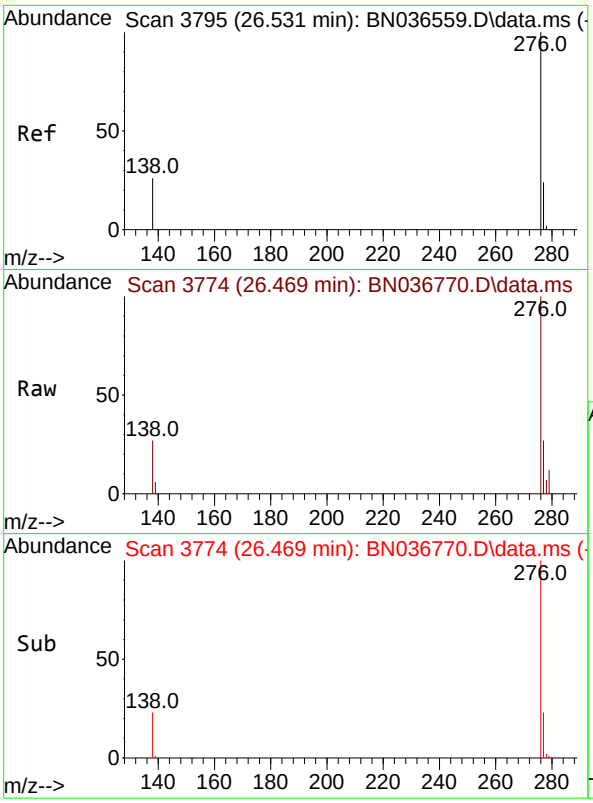



#40
Dibenzo(a,h)anthracene
Concen: 0.360 ng
RT: 25.803 min Scan# 3546
Delta R.T. -0.052 min
Lab File: BN036770.D
Acq: 28 Mar 2025 13:22

Tgt Ion:278 Resp: 3921

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 22.3 | 20.8 | 31.2 |
| 279 | 34.1 | 28.8 | 43.2 |

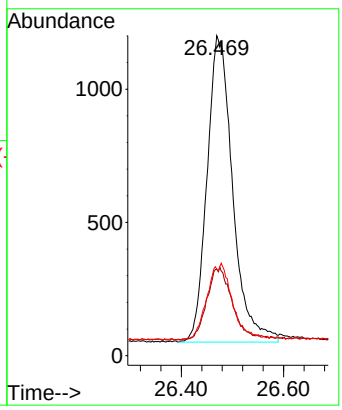





#41
Benzo(g,h,i)perylene
Concen: 0.320 ng
RT: 26.469 min Scan# 3
Delta R.T. -0.061 min
Lab File: BN036770.D
Acq: 28 Mar 2025 13:22

Tgt Ion:276 Resp: 399

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 27.1 | 22.2 | 33.4 |
| 138 | 27.1 | 24.1 | 36.1 |




**Instrument :**
BNA_N
**ClientSampleId :**
TT188S1-20250320MSD

**Manual Integrations**
**APPROVED**

Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

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: | 03/20/25 |
| Project: | NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258 | Date Received: | 03/21/25 |
| Client Sample ID: | RW09-MW01S-20250320MSD | SDG No.: | Q1629 |
| Lab Sample ID: | Q1629-16MSD | 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 |
|---|---|---|---|---|
| BN036813.D | 1 | 03/25/25 08:41 | 03/31/25 13:40 | PB167295 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 123-91-1 | 1,4-Dioxane | 0.85 | | 0.070 | 0.20 | 0.20 | ug/L |
| **SURROGATES** | | | | | | | |
| 7297-45-2 | 2-Methylnaphthalene-d10 | 0.33 | | 30 - 150 | | 81% | SPK: 0.4 |
| 93951-69-0 | Fluoranthene-d10 | 0.38 | | 30 - 150 | | 95% | SPK: 0.4 |
| 4165-60-0 | Nitrobenzene-d5 | 0.26 | | 55 - 111 | | 66% | SPK: 0.4 |
| 321-60-8 | 2-Fluorobiphenyl | 0.29 | | 53 - 106 | | 72% | SPK: 0.4 |
| 1718-51-0 | Terphenyl-d14 | 0.36 | | 58 - 132 | | 89% | SPK: 0.4 |
| **INTERNAL STANDARDS** | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 1370 | 7.695 | | | | |
| 1146-65-2 | Naphthalene-d8 | 3580 | 10.477 | | | | |
| 15067-26-2 | Acenaphthene-d10 | 2160 | 14.334 | | | | |
| 1517-22-2 | Phenanthrene-d10 | 4670 | 17.086 | | | | |
| 1719-03-5 | Chrysene-d12 | 3680 | 21.277 | | | | |
| 1520-96-3 | Perylene-d12 | 3180 | 23.516 | | | | |

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\BN033125\
Data File : BN036813.D
Acq On : 31 Mar 2025 13:40
Operator : RC/JU
Sample : Q1629-16MSD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 31 14:15:50 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01S-20250320MSD

**Manual Integrations APPROVED**
Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.695 | 152 | 1372 | 0.400 | ng | -0.03 |
| 7) Naphthalene-d8 | 10.477 | 136 | 3583 | 0.400 | ng | -0.03 |
| 13) Acenaphthene-d10 | 14.334 | 164 | 2162 | 0.400 | ng | -0.03 |
| 19) Phenanthrene-d10 | 17.086 | 188 | 4671 | 0.400 | ng | -0.02 |
| 29) Chrysene-d12 | 21.277 | 240 | 3683 | 0.400 | ng | #-0.02 |
| 35) Perylene-d12 | 23.516 | 264 | 3184 | 0.400 | ng | #-0.04 |
| **System Monitoring Compounds** | | | | | | |
| 4) 2-Fluorophenol | 5.290 | 112 | 364 | 0.114 | ng | -0.02 |
| 5) Phenol-d6 | 6.872 | 99 | 261 | 0.066 | ng | -0.03 |
| 8) Nitrobenzene-d5 | 8.843 | 82 | 1029 | 0.264 | ng | -0.03 |
| 11) 2-Methylnaphthalene-d10 | 12.075 | 152 | 1736m | 0.326 | ng | -0.04 |
| 14) 2,4,6-Tribromophenol | 15.833 | 330 | 313 | 0.319 | ng | -0.02 |
| 15) 2-Fluorobiphenyl | 12.958 | 172 | 3616 | 0.288 | ng | -0.03 |
| 27) Fluoranthene-d10 | 19.118 | 212 | 4544 | 0.380 | ng | -0.02 |
| 31) Terphenyl-d14 | 19.717 | 244 | 3134 | 0.355 | ng | -0.03 |
| **Target Compounds** | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.218 | 88 | 1280 | 0.841 | ng | # 83 |
| 3) n-Nitrosodimethylamine | 3.535 | 42 | 439 | 0.143 | ng | # 92 |
| 6) bis(2-Chloroethyl)ether | 7.125 | 93 | 1165 | 0.285 | ng | 94 |
| 9) Naphthalene | 10.530 | 128 | 3289 | 0.312 | ng | 98 |
| 10) Hexachlorobutadiene | 10.818 | 225 | 687 | 0.277 | ng | # 99 |
| 12) 2-Methylnaphthalene | 12.146 | 142 | 2187 | 0.326 | ng | 97 |
| 16) Acenaphthylene | 14.056 | 152 | 3518 | 0.345 | ng | 100 |
| 17) Acenaphthene | 14.398 | 154 | 2211 | 0.331 | ng | 98 |
| 18) Fluorene | 15.382 | 166 | 3103 | 0.343 | ng | 98 |
| 20) 4,6-Dinitro-2-methylph... | 15.478 | 198 | 273 | 0.375 | ng | 94 |
| 21) 4-Bromophenyl-phenylether | 16.280 | 248 | 1009 | 0.345 | ng | 92 |
| 22) Hexachlorobenzene | 16.391 | 284 | 1122 | 0.318 | ng | 94 |
| 23) Atrazine | 16.553 | 200 | 992 | 0.423 | ng | 96 |
| 24) Pentachlorophenol | 16.739 | 266 | 763 | 0.474 | ng | 99 |
| 25) Phenanthrene | 17.124 | 178 | 5288 | 0.377 | ng | 99 |
| 26) Anthracene | 17.210 | 178 | 4871 | 0.385 | ng | 98 |
| 28) Fluoranthene | 19.146 | 202 | 6484 | 0.412 | ng | 98 |
| 30) Pyrene | 19.508 | 202 | 6632 | 0.368 | ng | 100 |
| 32) Benzo(a)anthracene | 21.259 | 228 | 4899 | 0.383 | ng | 99 |
| 33) Chrysene | 21.313 | 228 | 5677 | 0.406 | ng | 99 |
| 34) Bis(2-ethylhexyl)phtha... | 21.196 | 149 | 4003 | 0.439 | ng | # 98 |
| 36) Indeno(1,2,3-cd)pyrene | 25.788 | 276 | 4286 | 0.373 | ng | 96 |
| 37) Benzo(b)fluoranthene | 22.844 | 252 | 4479 | 0.387 | ng | 97 |
| 38) Benzo(k)fluoranthene | 22.888 | 252 | 4899 | 0.403 | ng | 96 |
| 39) Benzo(a)pyrene | 23.423 | 252 | 4067 | 0.417 | ng | 96 |
| 40) Dibenzo(a,h)anthracene | 25.803 | 278 | 3174 | 0.355 | ng | 99 |
| 41) Benzo(g,h,i)perylene | 26.475 | 276 | 3612 | 0.353 | ng | 98 |

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

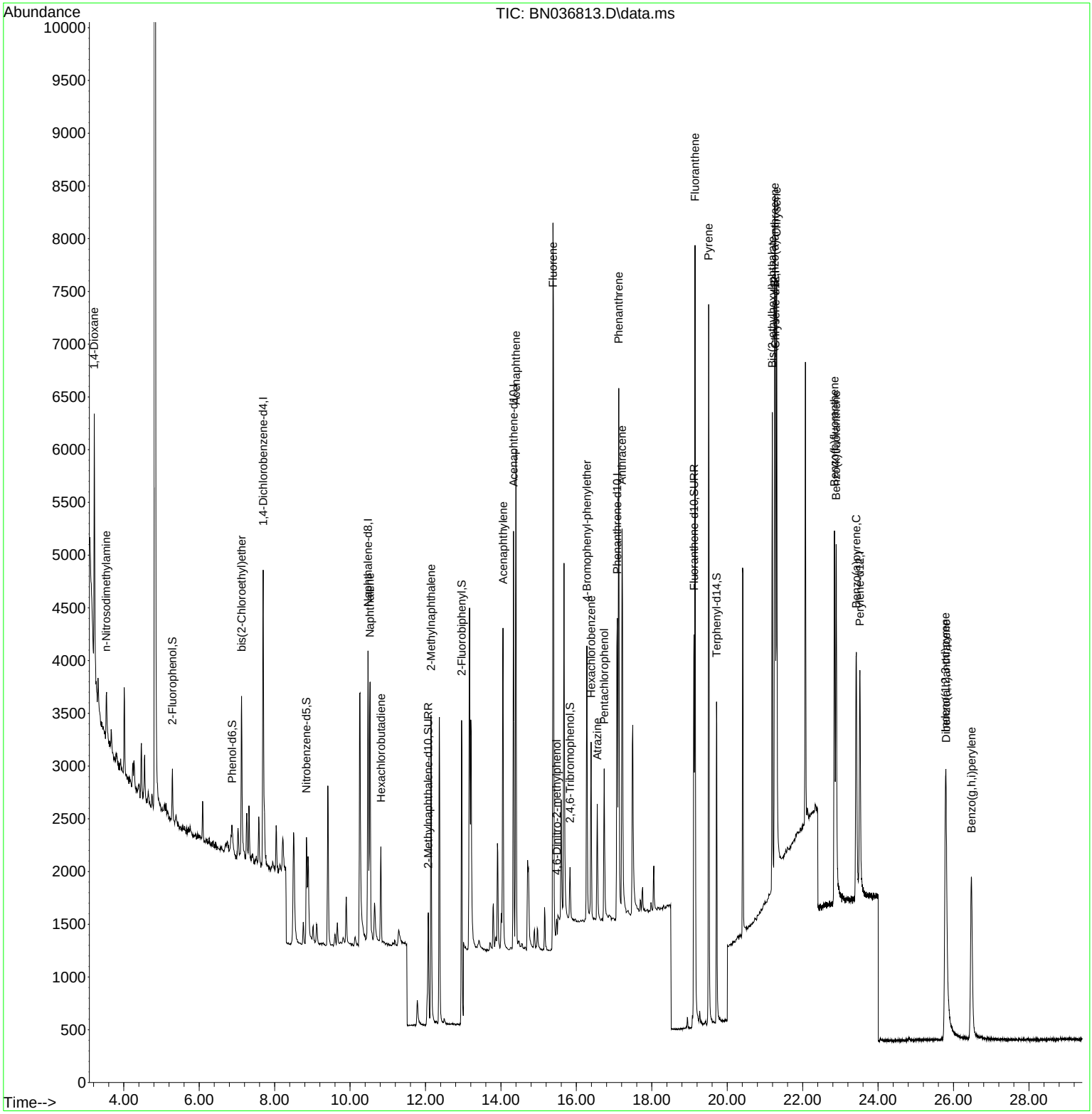
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN033125\
Data File : BN036813.D
Acq On : 31 Mar 2025 13:40
Operator : RC/JU
Sample : Q1629-16MSD
Misc :
ALS Vial : 6 Sample Multiplier: 1

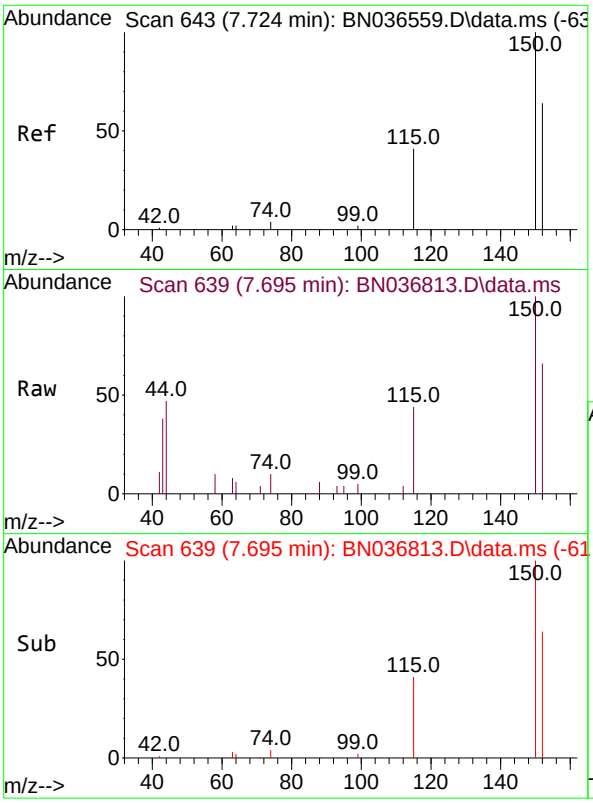
Quant Time: Mar 31 14:15:50 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01S-20250320MSD

**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

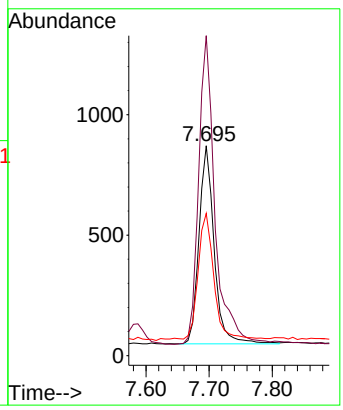





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.695 min Scan# 6
Delta R.T. -0.029 min
Lab File: BN036813.D
Acq: 31 Mar 2025 13:40

Tgt Ion:152 Resp: 137

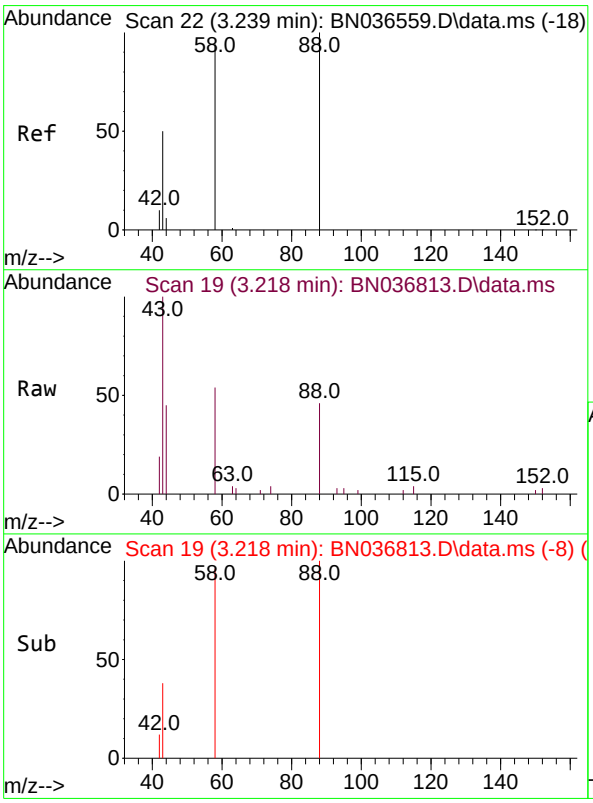
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 152.5 | 123.7 | 185.5 |
| 115 | 67.7 | 54.3 | 81.5 |




**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01S-20250320MSD

**Manual Integrations**
**APPROVED**

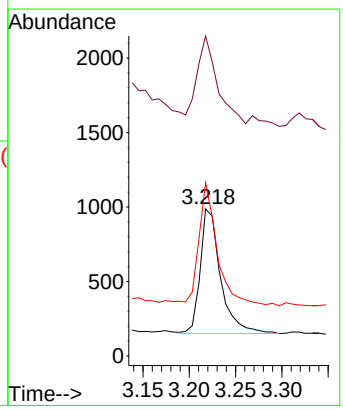
Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

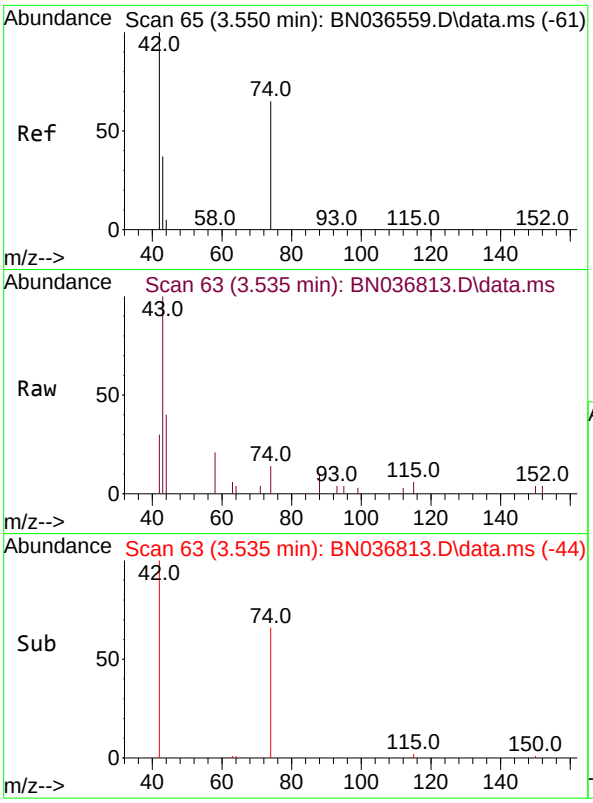



#2
1,4-Dioxane
Concen: 0.841 ng
RT: 3.218 min Scan# 19
Delta R.T. -0.021 min
Lab File: BN036813.D
Acq: 31 Mar 2025 13:40

Tgt Ion: 88 Resp: 1280

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 69.8 | 37.8 | 56.8# |
| 58 | 91.5 | 67.4 | 101.2 |

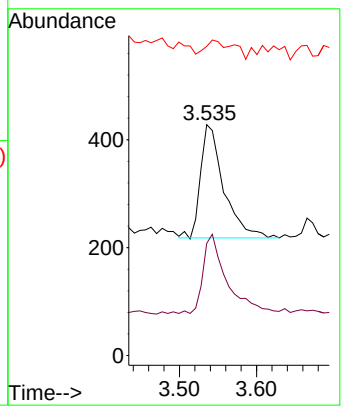





#3
n-Nitrosodimethylamine
Concen: 0.143 ng
RT: 3.535 min Scan# 6
Delta R.T. -0.014 min
Lab File: BN036813.D
Acq: 31 Mar 2025 13:40

Tgt Ion: 42 Resp: 43

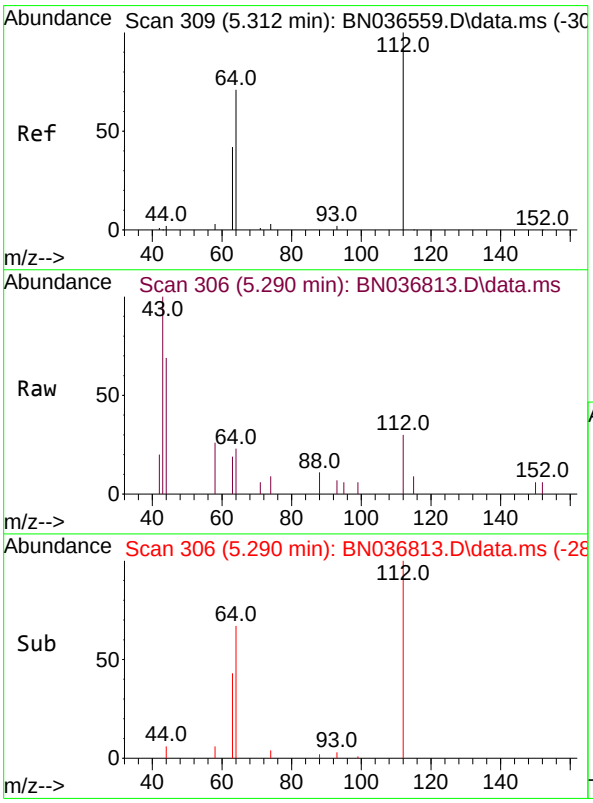
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 71.5 | 60.6 | 90.8 |
| 44 | 20.3 | 6.3 | 9.5 |




**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01S-20250320MSD

**Manual Integrations**
**APPROVED**

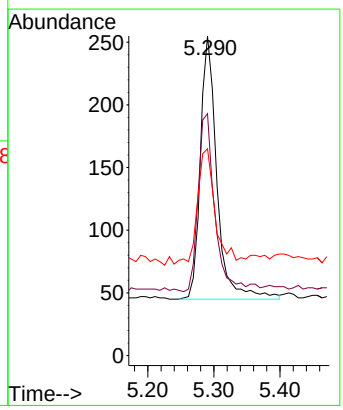
Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

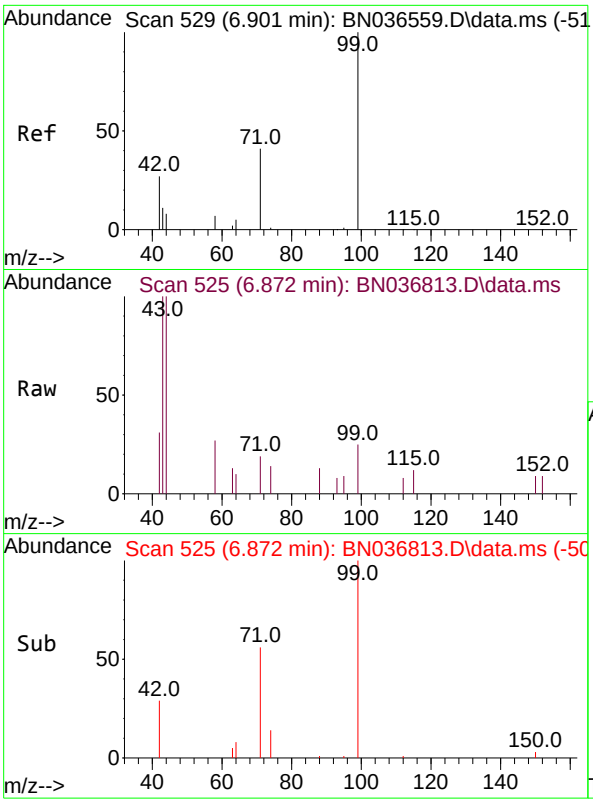



#4
2-Fluorophenol
Concen: 0.114 ng
RT: 5.290 min Scan# 306
Delta R.T. -0.022 min
Lab File: BN036813.D
Acq: 31 Mar 2025 13:40

Tgt Ion:112 Resp: 364

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 67.6 | 53.1 | 79.7 |
| 63 | 45.6 | 31.8 | 47.8 |

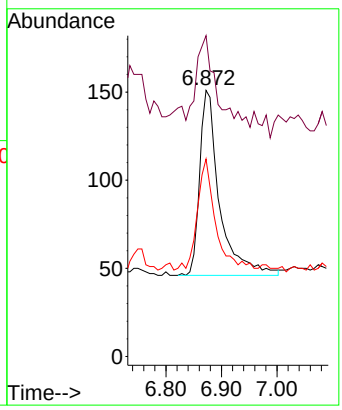





#5
Phenol-d6
Concen: 0.066 ng
RT: 6.872 min Scan# 5
Delta R.T. -0.029 min
Lab File: BN036813.D
Acq: 31 Mar 2025 13:40

Tgt Ion: 99 Resp: 26

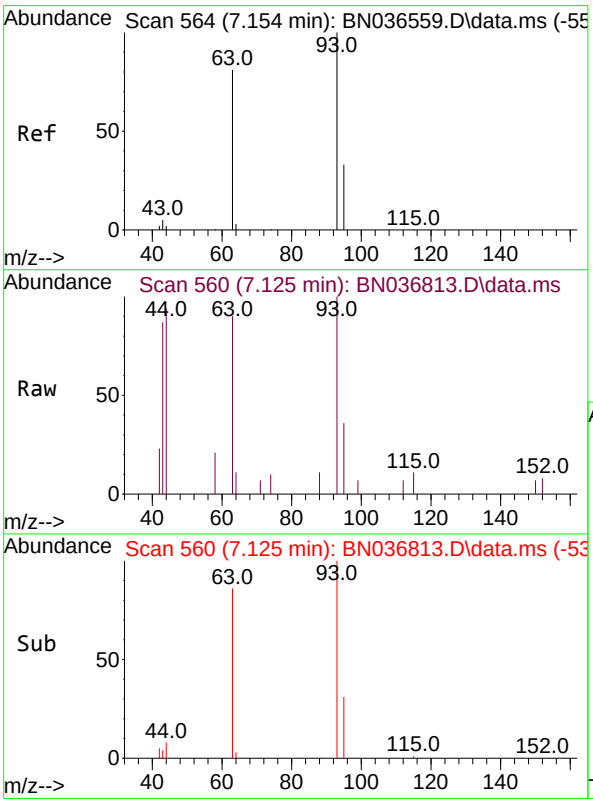
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 49.0 | 26.5 | 39.7# |
| 71 | 55.2 | 34.1 | 51.1# |




**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01S-20250320MSD

**Manual Integrations**
**APPROVED**

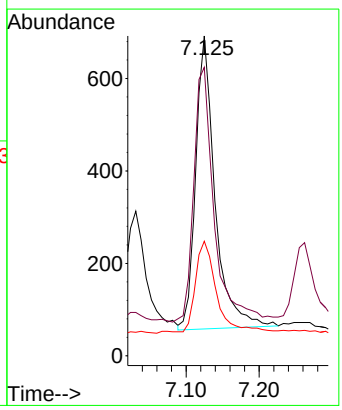
Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

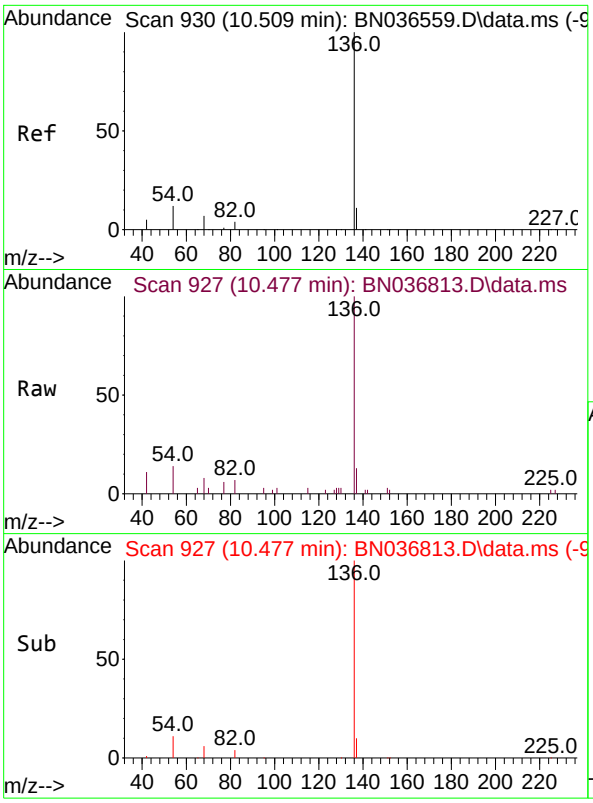



#6
bis(2-Chloroethyl)ether
Concen: 0.285 ng
RT: 7.125 min Scan# 560
Delta R.T. -0.029 min
Lab File: BN036813.D
Acq: 31 Mar 2025 13:40

Tgt Ion: 93 Resp: 1165

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 91.8 | 67.7 | 101.5 |
| 95 | 33.1 | 25.6 | 38.4 |

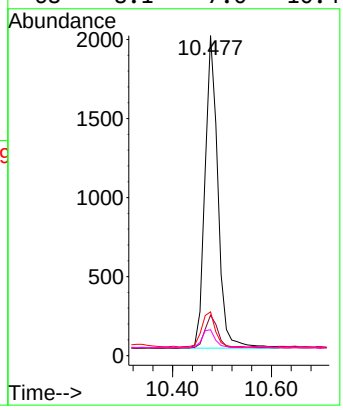





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.477 min Scan# 9
Delta R.T. -0.032 min
Lab File: BN036813.D
Acq: 31 Mar 2025 13:40

Tgt Ion:136 Resp: 358

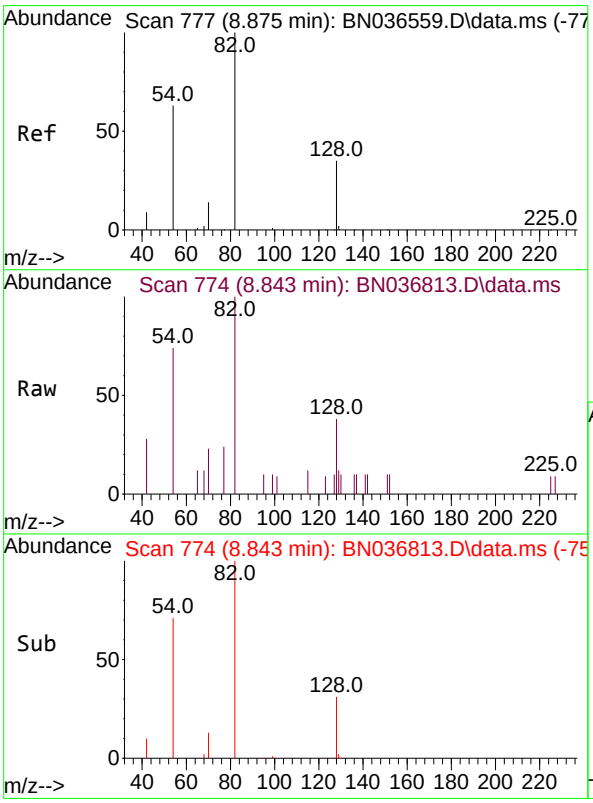
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 12.6 | 10.3 | 15.5 |
| 54 | 13.7 | 11.5 | 17.3 |
| 68 | 8.1 | 7.0 | 10.4 |




**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01S-20250320MSD

**Manual Integrations**
**APPROVED**

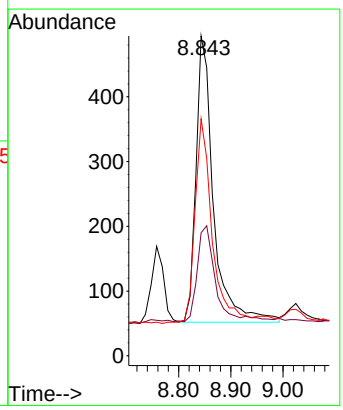
Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

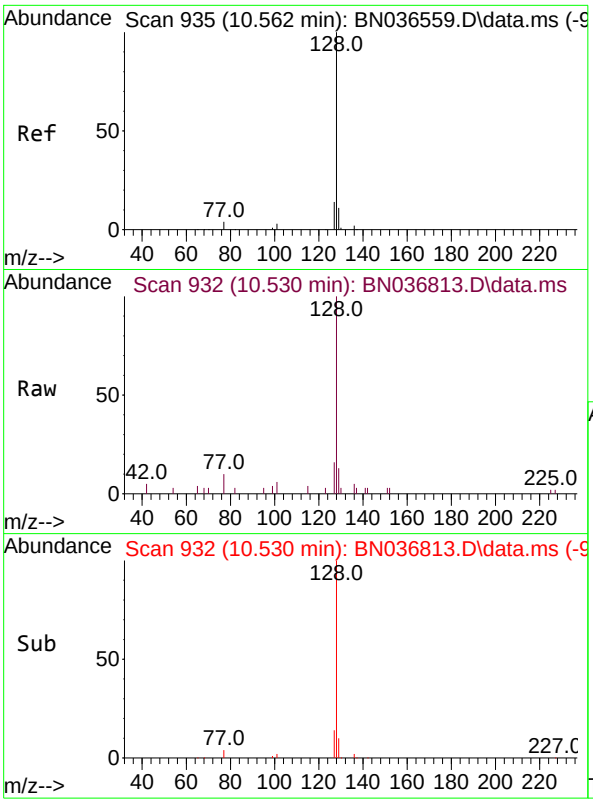



#8
Nitrobenzene-d5
Concen: 0.264 ng
RT: 8.843 min Scan# 774
Delta R.T. -0.032 min
Lab File: BN036813.D
Acq: 31 Mar 2025 13:40

Tgt Ion: 82 Resp: 1029

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 38.5 | 30.6 | 45.8 |
| 54 | 74.1 | 52.2 | 78.4 |

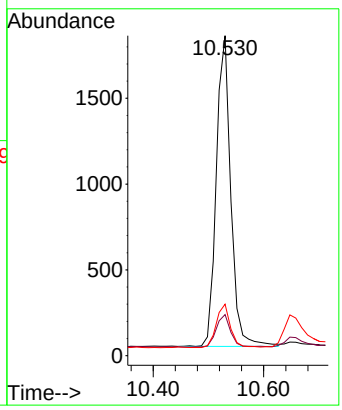





#9
Naphthalene
Concen: 0.312 ng
RT: 10.530 min Scan# 9
Delta R.T. -0.032 min
Lab File: BN036813.D
Acq: 31 Mar 2025 13:40

Tgt Ion:128 Resp: 328

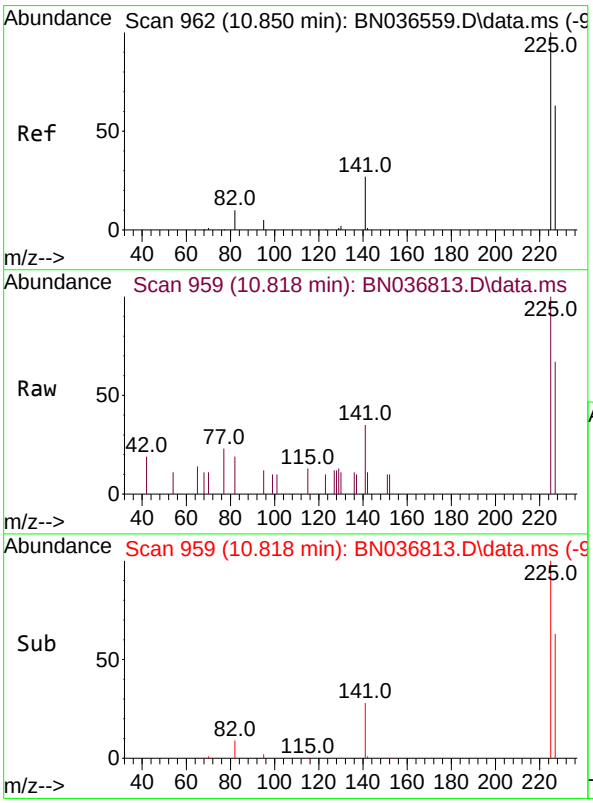
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 12.9 | 9.8 | 14.6 |
| 127 | 16.1 | 11.8 | 17.8 |




**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01S-20250320MSD

**Manual Integrations**
**APPROVED**

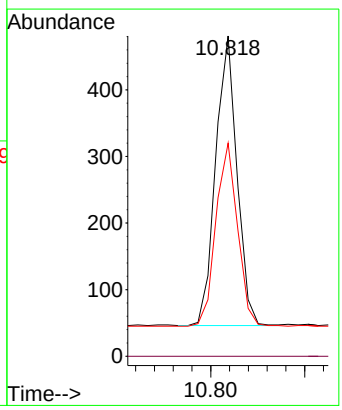
Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

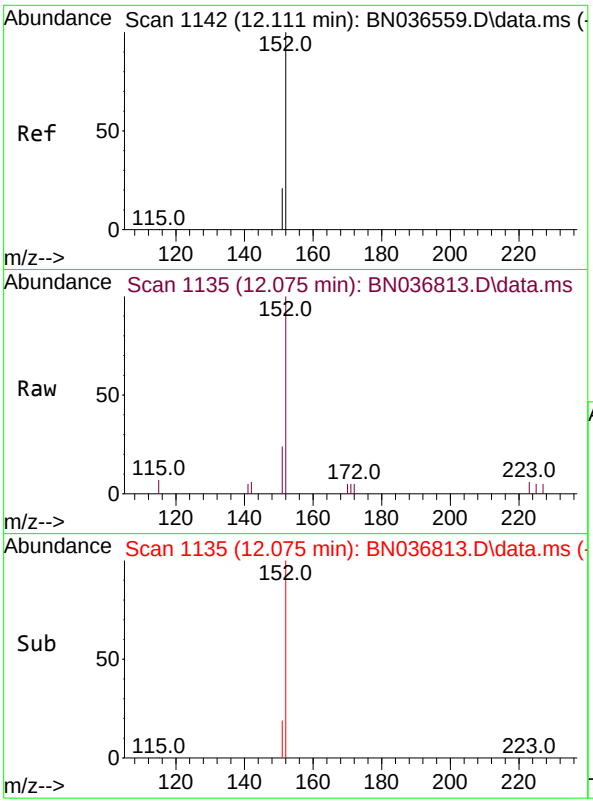



#10
Hexachlorobutadiene
Concen: 0.277 ng
RT: 10.818 min Scan# 959
Delta R.T. -0.032 min
Lab File: BN036813.D
Acq: 31 Mar 2025 13:40

Tgt Ion:225 Resp: 687

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 0.0 | 0.0 | 0.0 |
| 227 | 64.0 | 51.8 | 77.8 |






#11
2-Methylnaphthalene-d10
Concen: 0.326 ng m
RT: 12.075 min Scan# 1
Delta R.T. -0.035 min
Lab File: BN036813.D
Acq: 31 Mar 2025 13:40

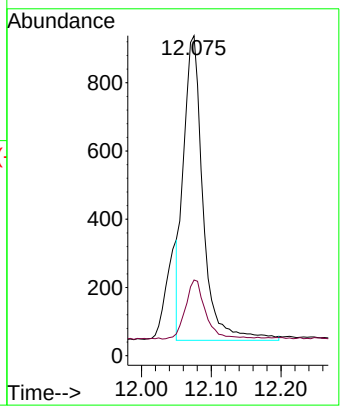
Tgt Ion:152 Resp: 173

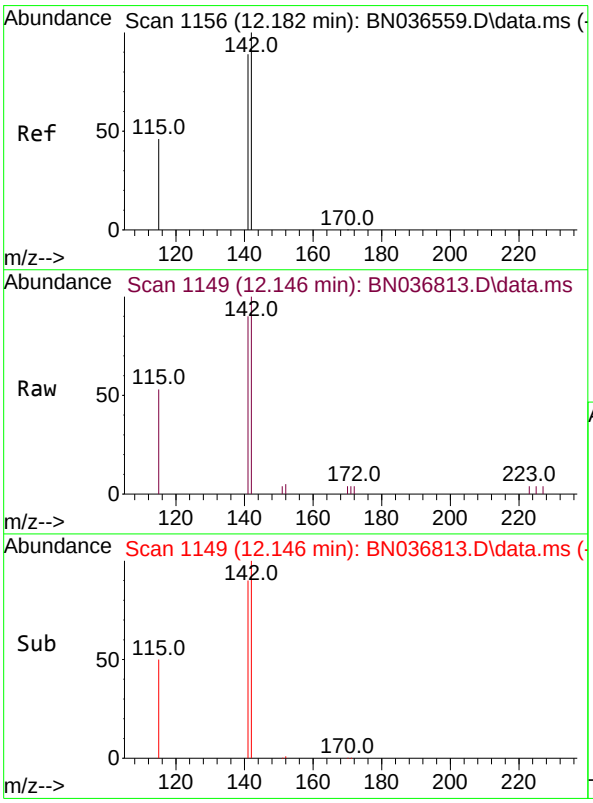
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.1 | 17.0 | 25.6 |

**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01S-20250320MSD

**Manual Integrations**
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Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

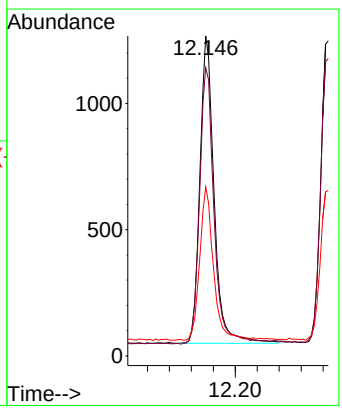


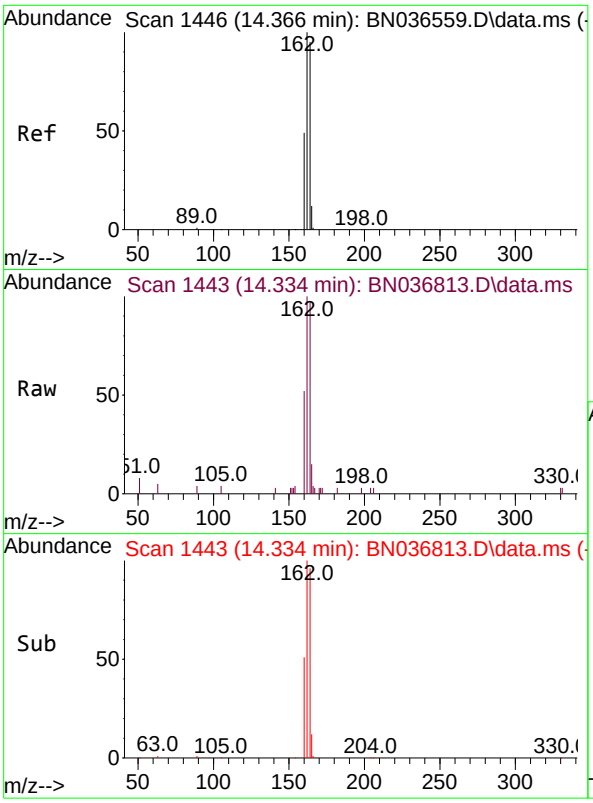




#12
2-Methylnaphthalene
Concen: 0.326 ng
RT: 12.146 min Scan# 1149
Delta R.T. -0.035 min
Lab File: BN036813.D
Acq: 31 Mar 2025 13:40

Tgt Ion:142 Resp: 2187

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 90.1 | 71.7 | 107.5 |
| 115 | 52.8 | 38.3 | 57.5 |

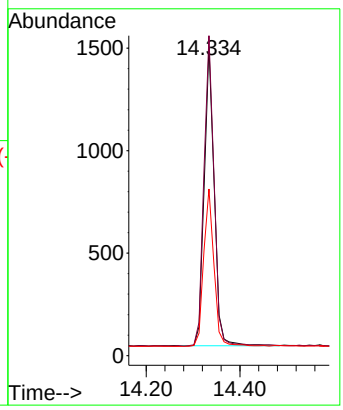





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.334 min Scan# 14
Delta R.T. -0.032 min
Lab File: BN036813.D
Acq: 31 Mar 2025 13:40

Tgt Ion:164 Resp: 216

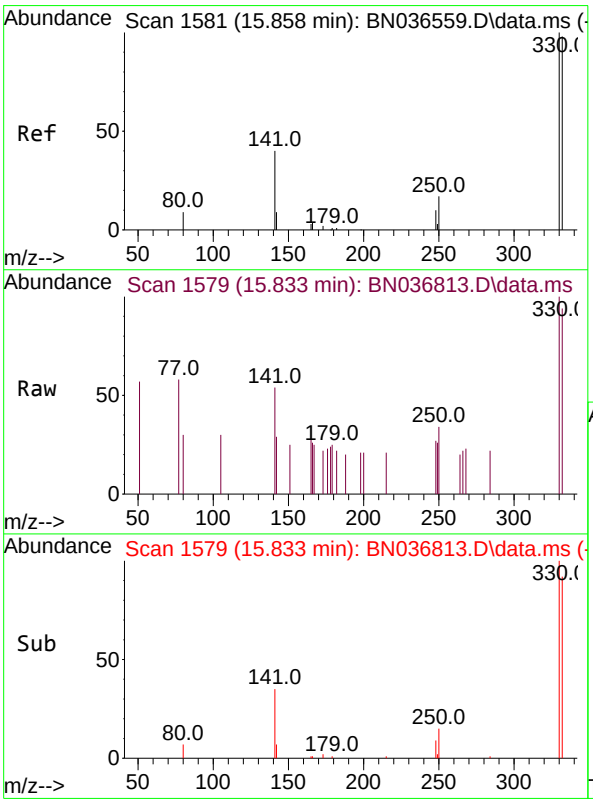
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 103.5 | 84.2 | 126.2 |
| 160 | 53.9 | 42.2 | 63.2 |




**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01S-20250320MSD

**Manual Integrations**
**APPROVED**

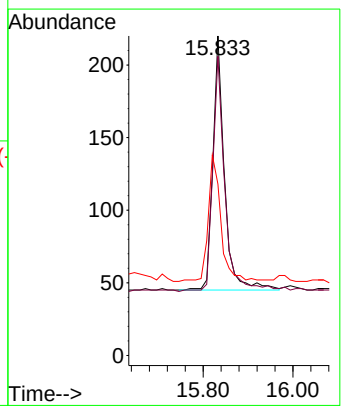
Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

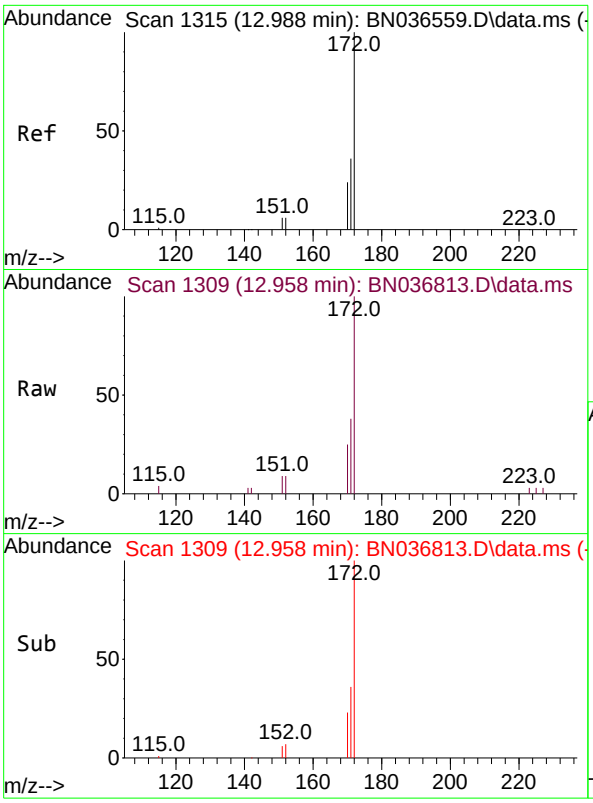



#14
2,4,6-Tribromophenol
Concen: 0.319 ng
RT: 15.833 min Scan# 1579
Delta R.T. -0.025 min
Lab File: BN036813.D
Acq: 31 Mar 2025 13:40

Tgt Ion:330 Resp: 313

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 96.2 | 75.2 | 112.8 |
| 141 | 54.3 | 43.4 | 65.2 |

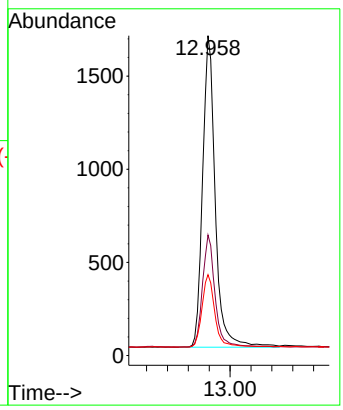





#15
2-Fluorobiphenyl
Concen: 0.288 ng
RT: 12.958 min Scan# 1
Delta R.T. -0.030 min
Lab File: BN036813.D
Acq: 31 Mar 2025 13:40

Tgt Ion:172 Resp: 361

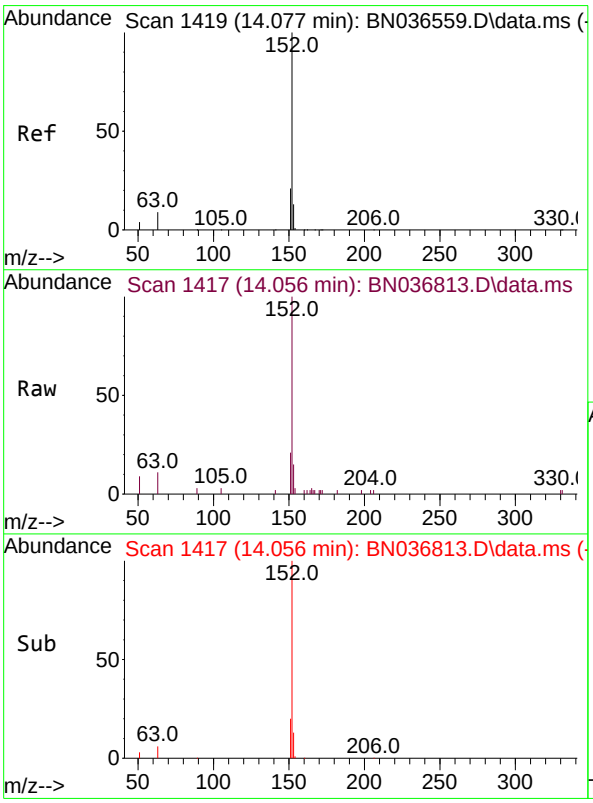
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 37.7 | 29.5 | 44.3 |
| 170 | 25.3 | 20.2 | 30.4 |




**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01S-20250320MSD

**Manual Integrations**
**APPROVED**

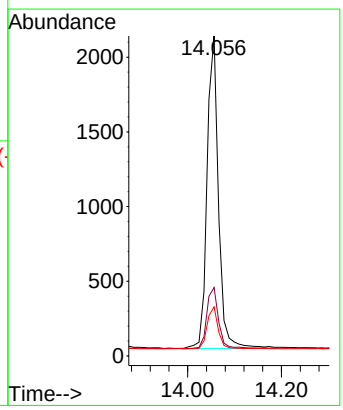
Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

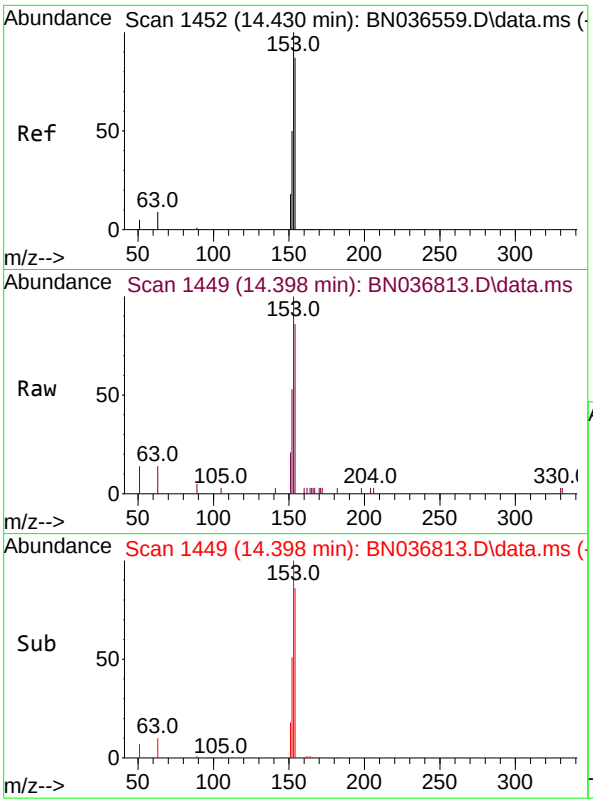



#16
Acenaphthylene
Concen: 0.345 ng
RT: 14.056 min Scan# 1417
Delta R.T. -0.021 min
Lab File: BN036813.D
Acq: 31 Mar 2025 13:40

Tgt Ion:152 Resp: 3518

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.4 | 16.2 | 24.4 |
| 153 | 13.0 | 10.6 | 15.8 |






#17
Acenaphthene
Concen: 0.331 ng
RT: 14.398 min Scan# 14
Delta R.T. -0.032 min
Lab File: BN036813.D
Acq: 31 Mar 2025 13:40

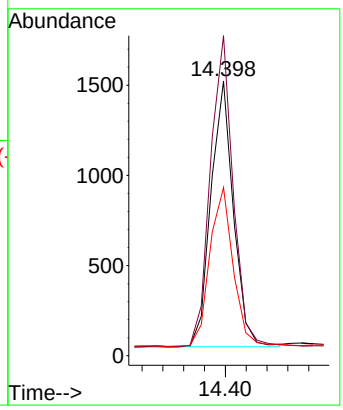
Tgt Ion:154 Resp: 221

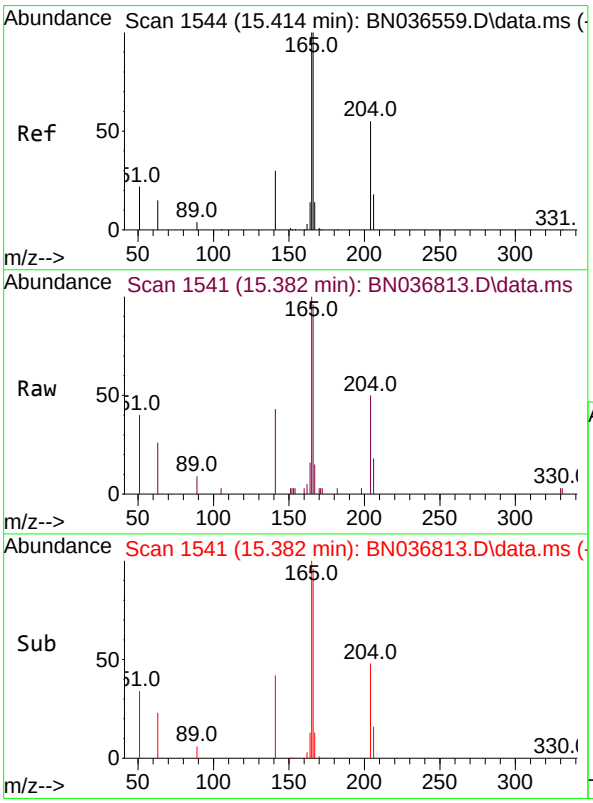
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 120.6 | 94.1 | 141.1 |
| 152 | 62.6 | 49.8 | 74.6 |

**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01S-20250320MSD

**Manual Integrations**
**APPROVED**

Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

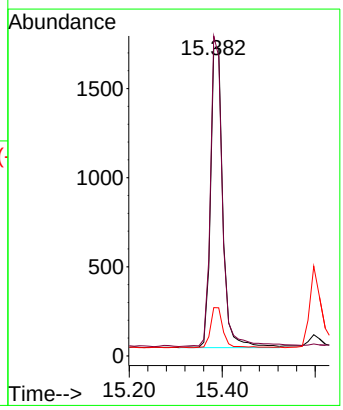


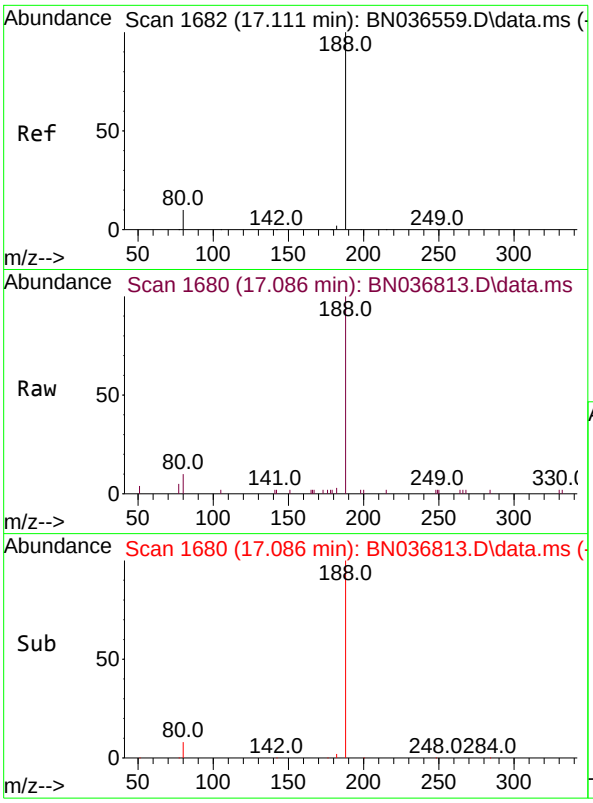




#18
Fluorene
Concen: 0.343 ng
RT: 15.382 min Scan# 1541
Delta R.T. -0.032 min
Lab File: BN036813.D
Acq: 31 Mar 2025 13:40

Tgt Ion:166 Resp: 3103

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 102.2 | 79.8 | 119.8 |
| 167 | 13.7 | 10.6 | 15.8 |

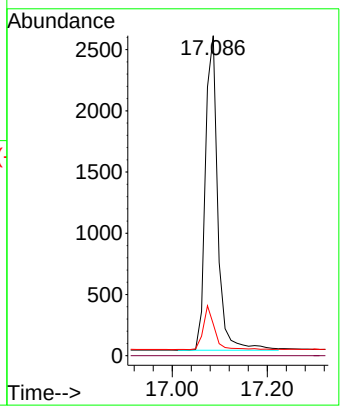





#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.086 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036813.D
Acq: 31 Mar 2025 13:40

Tgt Ion:188 Resp: 467

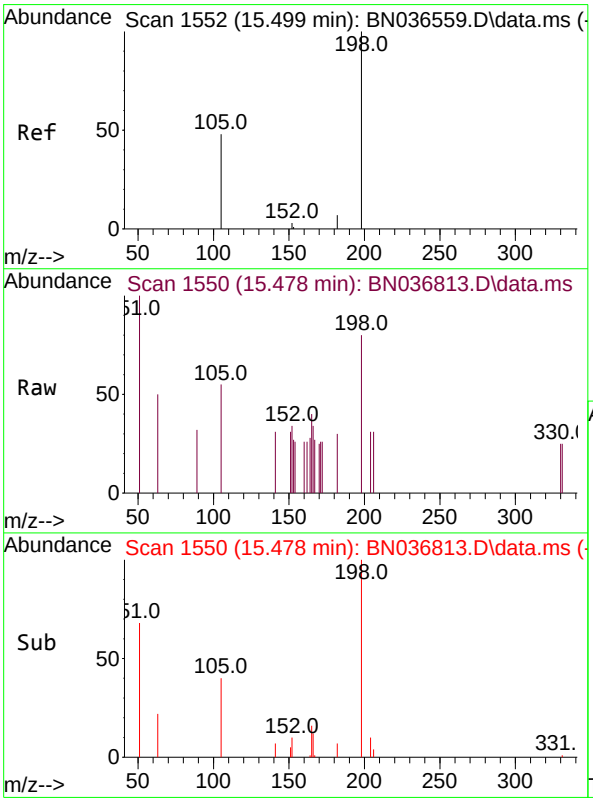
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 9.9 | 8.8 | 13.2 |




**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01S-20250320MSD

**Manual Integrations**
**APPROVED**

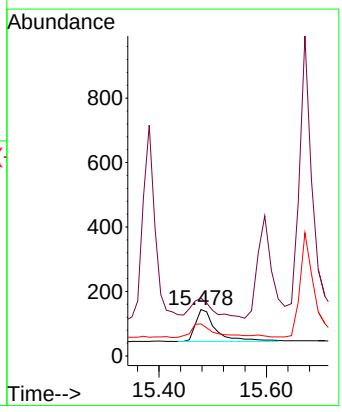
Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

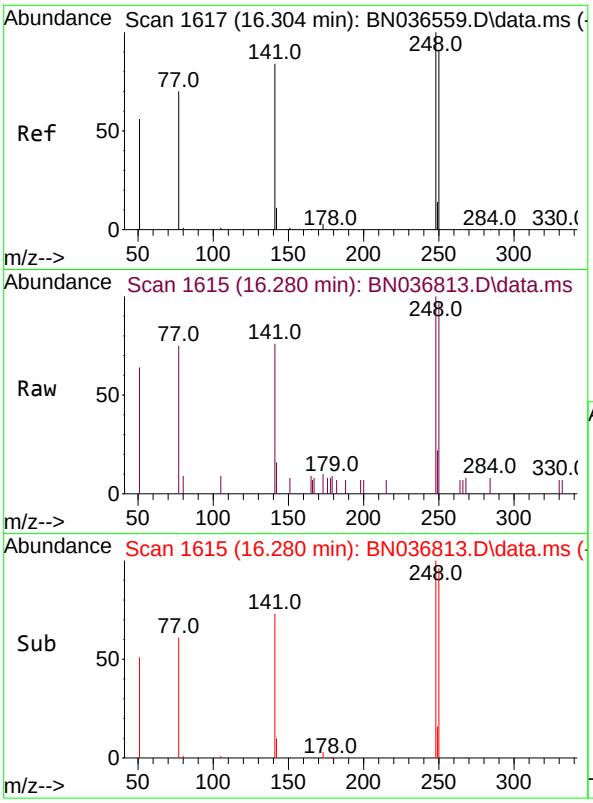



#20
4,6-Dinitro-2-methylphenol
Concen: 0.375 ng
RT: 15.478 min Scan# 1550
Delta R.T. -0.021 min
Lab File: BN036813.D
Acq: 31 Mar 2025 13:40

Tgt Ion:198 Resp: 273

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 198 | 100 | | |
| 51 | 124.3 | 107.9 | 161.9 |
| 105 | 68.8 | 56.2 | 84.2 |






#21
4-Bromophenyl-phenylether
Concen: 0.345 ng
RT: 16.280 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036813.D
Acq: 31 Mar 2025 13:40

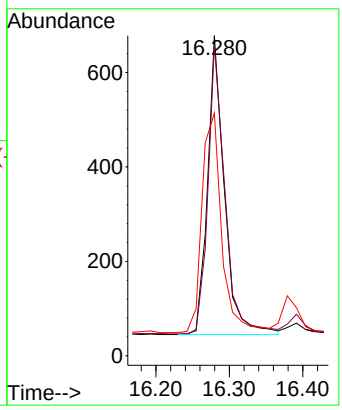
Tgt Ion:248 Resp: 100

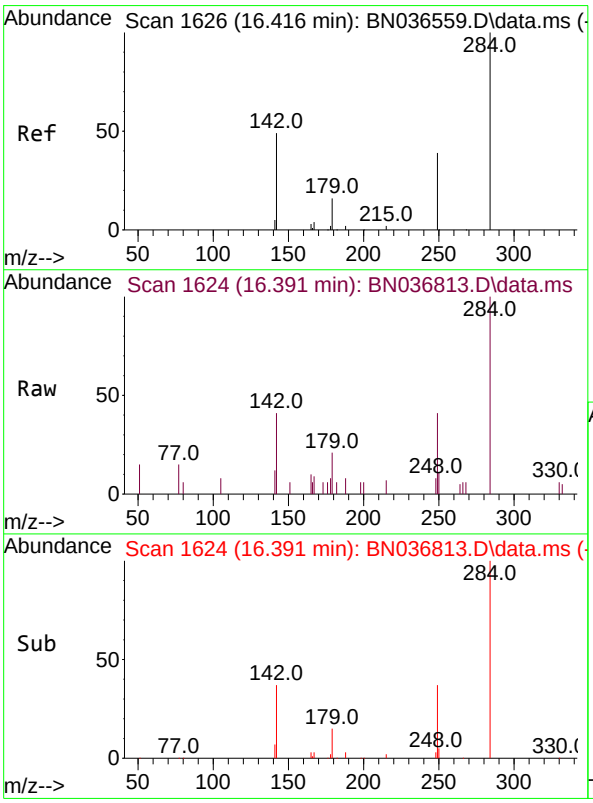
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 97.2 | 73.0 | 109.6 |
| 141 | 75.8 | 68.6 | 103.0 |

**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01S-20250320MSD

**Manual Integrations**
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Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

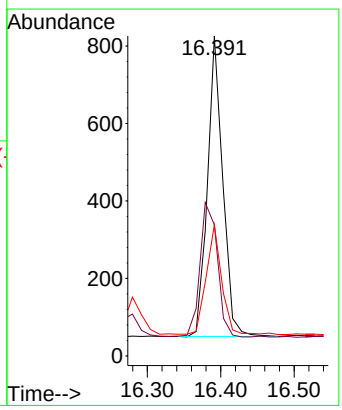


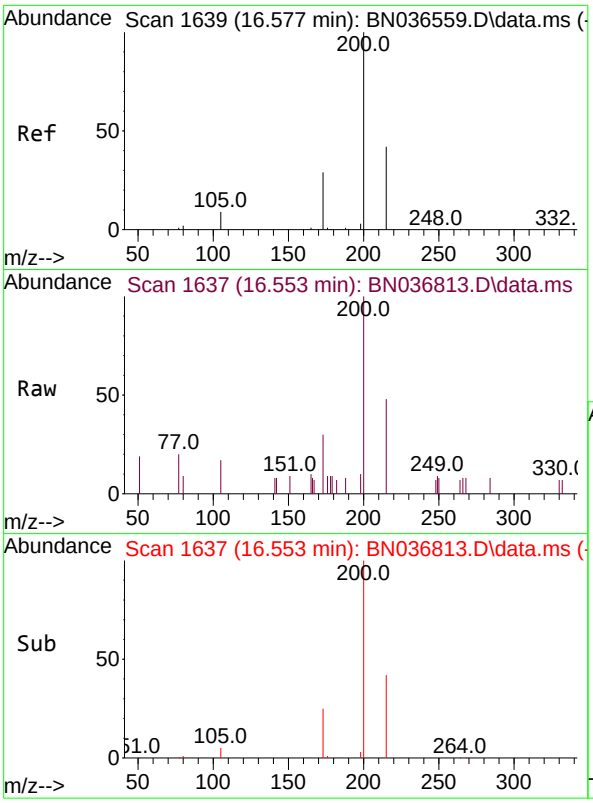




#22
Hexachlorobenzene
Concen: 0.318 ng
RT: 16.391 min Scan# 1624
Delta R.T. -0.025 min
Lab File: BN036813.D
Acq: 31 Mar 2025 13:40

Tgt Ion:284 Resp: 1122

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 51.2 | 37.0 | 55.4 |
| 249 | 37.4 | 28.1 | 42.1 |

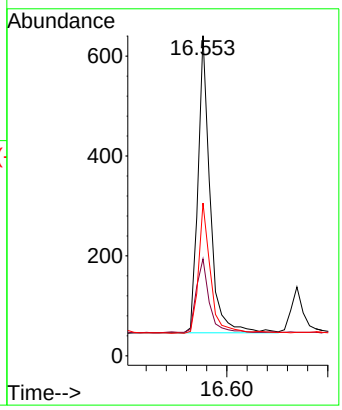





#23
Atrazine
Concen: 0.423 ng
RT: 16.553 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036813.D
Acq: 31 Mar 2025 13:40

Tgt Ion:200 Resp: 99

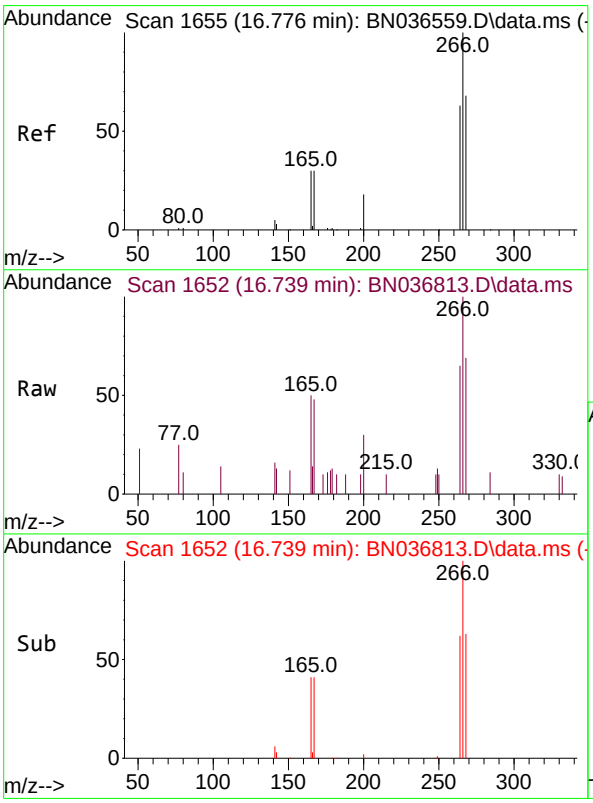
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 173 | 30.3 | 27.3 | 40.9 |
| 215 | 47.7 | 36.8 | 55.2 |




**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01S-20250320MSD

**Manual Integrations**
**APPROVED**

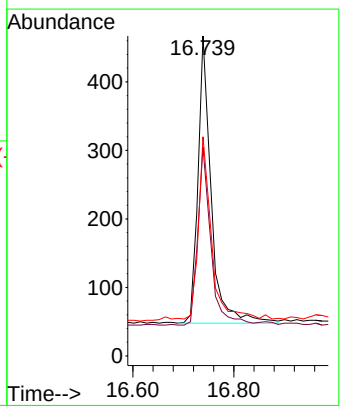
Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

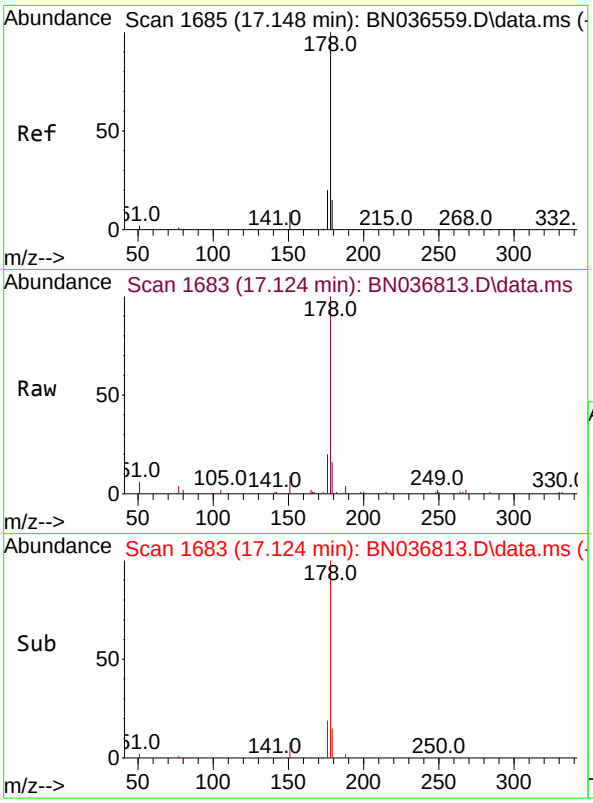



#24
Pentachlorophenol
Concen: 0.474 ng
RT: 16.739 min Scan# 1652
Delta R.T. -0.037 min
Lab File: BN036813.D
Acq: 31 Mar 2025 13:40

Tgt Ion:266 Resp: 763

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 264 | 60.9 | 49.6 | 74.4 |
| 268 | 63.8 | 50.9 | 76.3 |

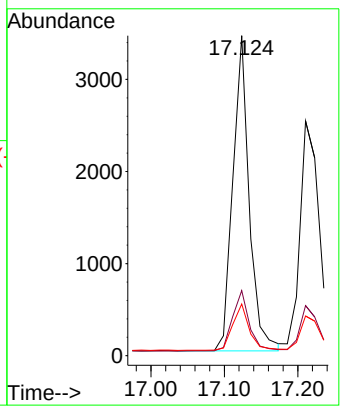





#25
Phenanthrene
Concen: 0.377 ng
RT: 17.124 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036813.D
Acq: 31 Mar 2025 13:40

Tgt Ion:178 Resp: 528

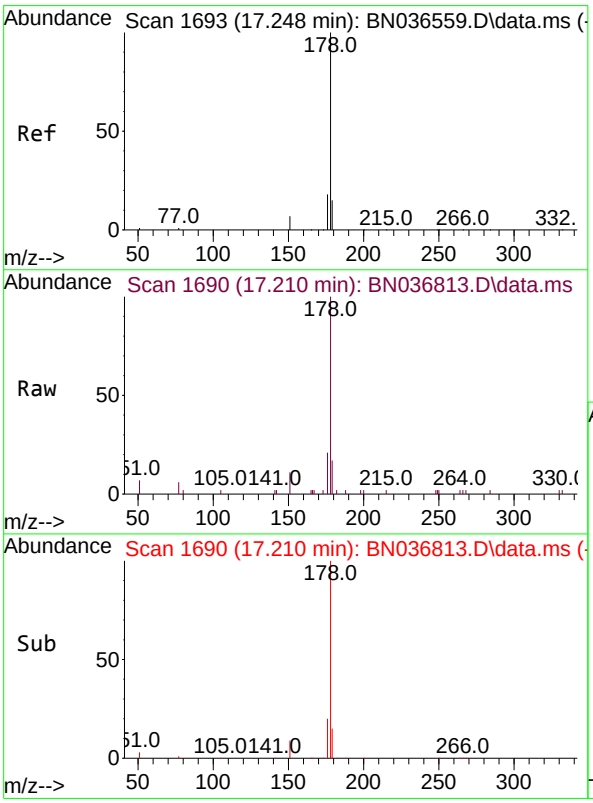
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.5 | 15.9 | 23.9 |
| 179 | 15.2 | 12.2 | 18.4 |




**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01S-20250320MSD

**Manual Integrations**
**APPROVED**

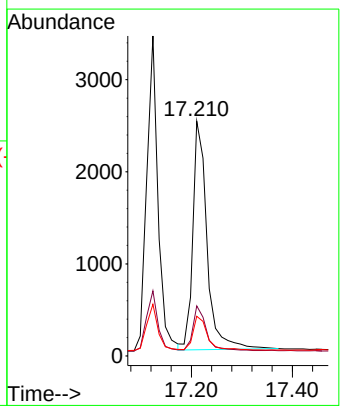
Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

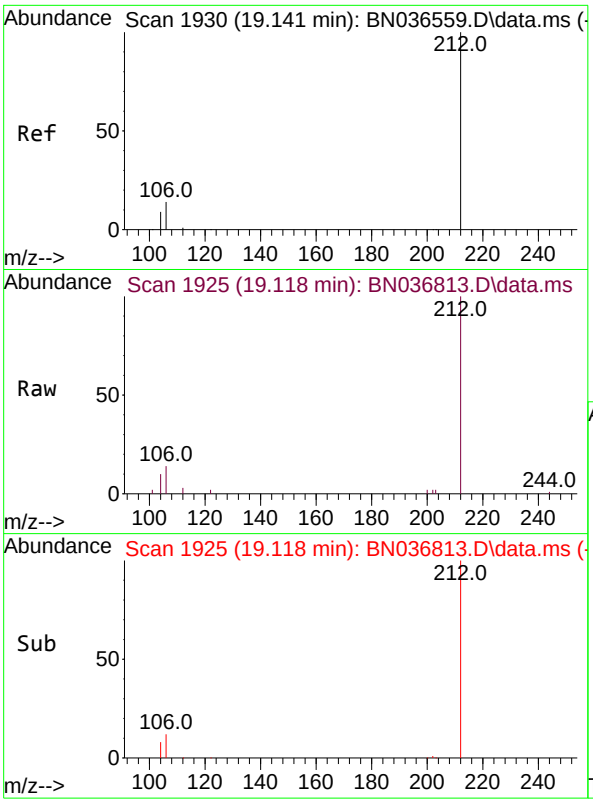



#26
Anthracene
Concen: 0.385 ng
RT: 17.210 min Scan# 1690
Delta R.T. -0.037 min
Lab File: BN036813.D
Acq: 31 Mar 2025 13:40

Tgt Ion:178 Resp: 4871

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.2 | 15.4 | 23.2 |
| 179 | 15.1 | 12.6 | 18.8 |

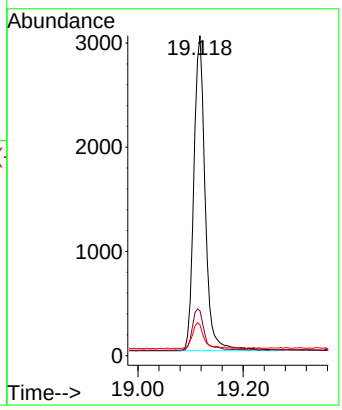





#27
Fluoranthene-d10
Concen: 0.380 ng
RT: 19.118 min Scan# 1
Delta R.T. -0.023 min
Lab File: BN036813.D
Acq: 31 Mar 2025 13:40

Tgt Ion:212 Resp: 454

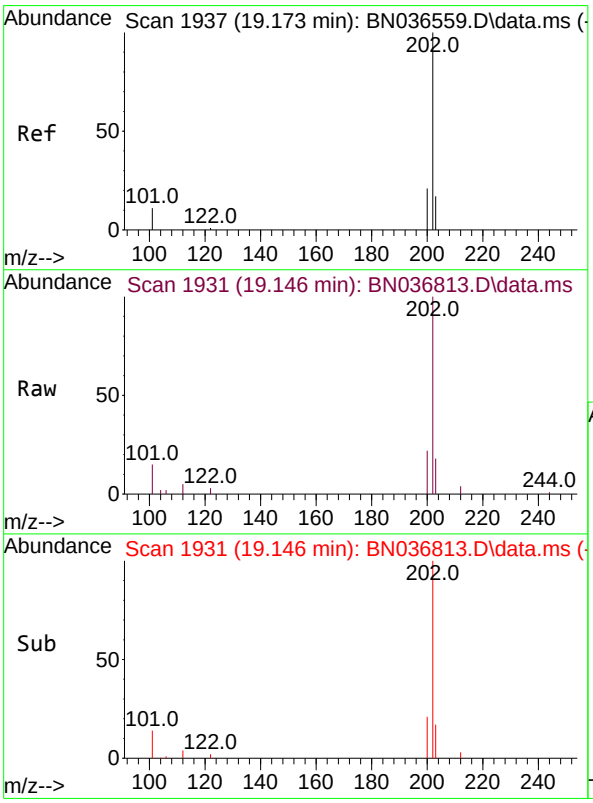
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 13.8 | 11.8 | 17.6 |
| 104 | 8.7 | 7.3 | 10.9 |




**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01S-20250320MSD

**Manual Integrations**
**APPROVED**

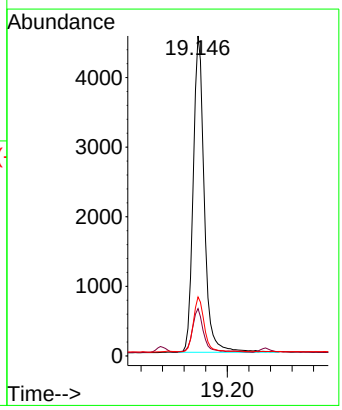
Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

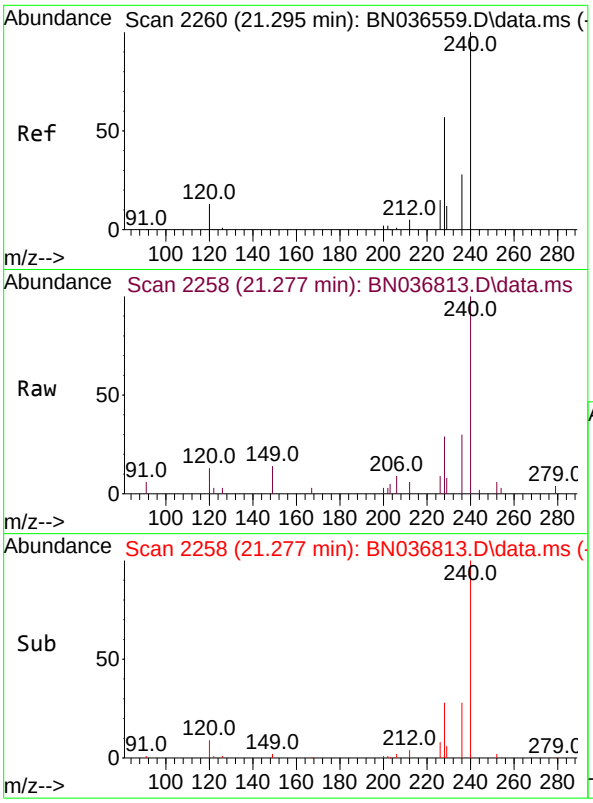



#28
Fluoranthene
Concen: 0.412 ng
RT: 19.146 min Scan# 1931
Delta R.T. -0.028 min
Lab File: BN036813.D
Acq: 31 Mar 2025 13:40

Tgt Ion:202 Resp: 6484

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 13.1 | 9.4 | 14.0 |
| 203 | 16.9 | 13.5 | 20.3 |






#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036813.D
Acq: 31 Mar 2025 13:40

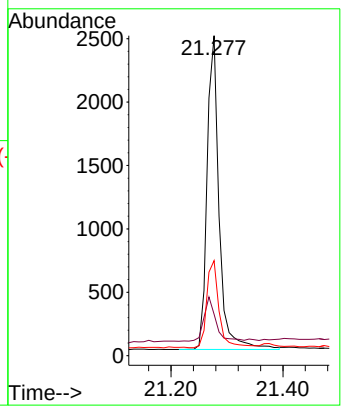
**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01S-20250320MSD

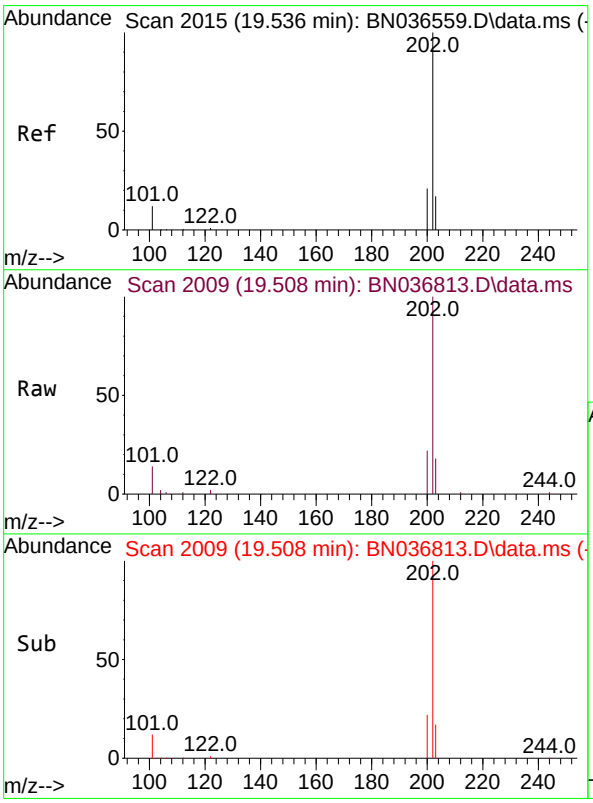
Tgt Ion:240 Resp: 368

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 13.0 | 14.6 | 22.0 |
| 236 | 29.7 | 24.1 | 36.1 |

**Manual Integrations**
**APPROVED**

Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

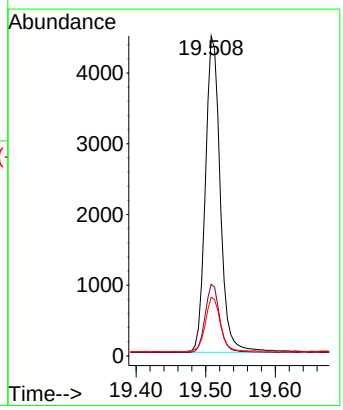


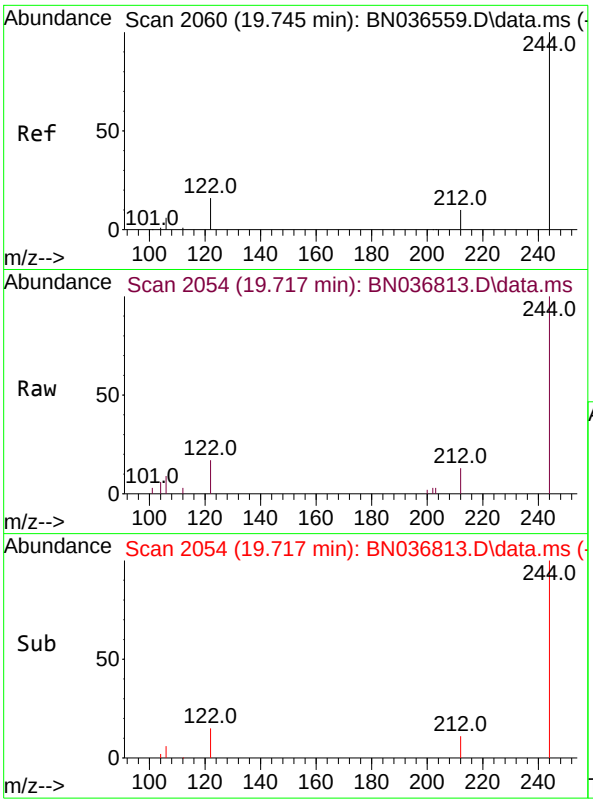




#30
Pyrene
Concen: 0.368 ng
RT: 19.508 min Scan# 2009
Delta R.T. -0.028 min
Lab File: BN036813.D
Acq: 31 Mar 2025 13:40

Tgt Ion:202 Resp: 6632

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.5 | 17.1 | 25.7 |
| 203 | 17.5 | 14.1 | 21.1 |

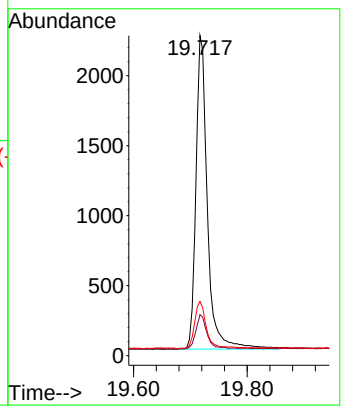





#31
Terphenyl-d14
Concen: 0.355 ng
RT: 19.717 min Scan# 2
Delta R.T. -0.028 min
Lab File: BN036813.D
Acq: 31 Mar 2025 13:40

Tgt Ion:244 Resp: 313

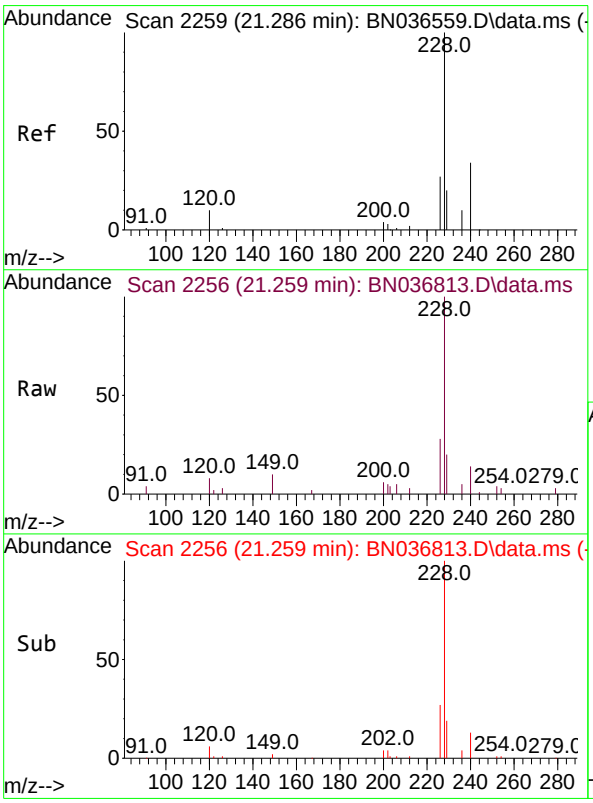
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 12.8 | 9.6 | 14.4 |
| 122 | 16.9 | 13.9 | 20.9 |




**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01S-20250320MSD

**Manual Integrations APPROVED**

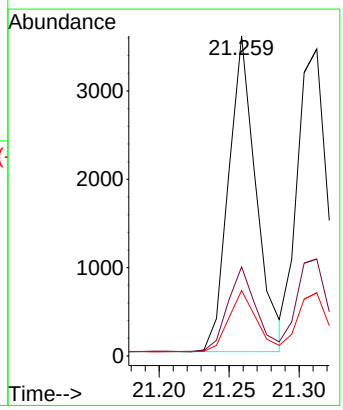
Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

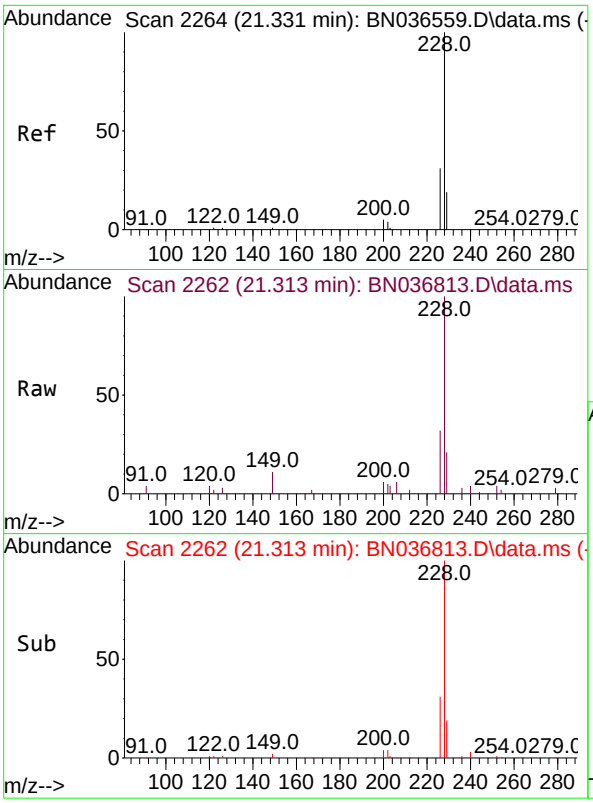



#32
Benzo(a)anthracene
Concen: 0.383 ng
RT: 21.259 min Scan# 2256
Delta R.T. -0.027 min
Lab File: BN036813.D
Acq: 31 Mar 2025 13:40

Tgt Ion:228 Resp: 4899

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 27.8 | 22.5 | 33.7 |
| 229 | 20.4 | 16.6 | 25.0 |

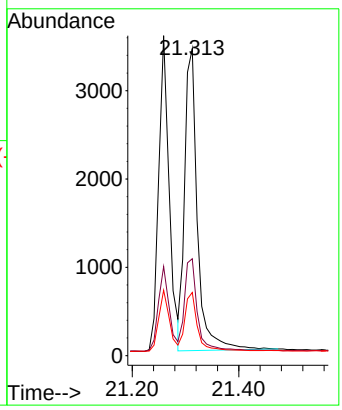





#33
Chrysene
Concen: 0.406 ng
RT: 21.313 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036813.D
Acq: 31 Mar 2025 13:40

Tgt Ion:228 Resp: 567

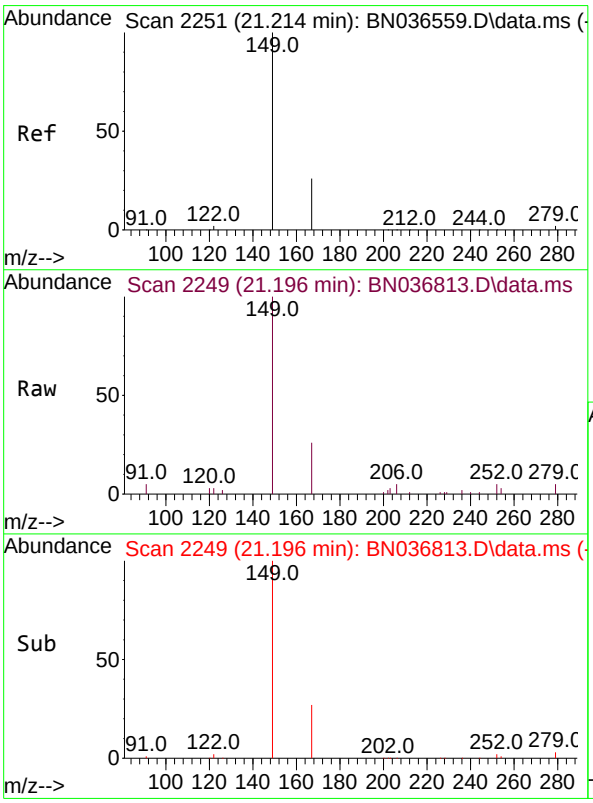
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 31.6 | 25.3 | 37.9 |
| 229 | 20.6 | 15.8 | 23.8 |




**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01S-20250320MSD

**Manual Integrations APPROVED**

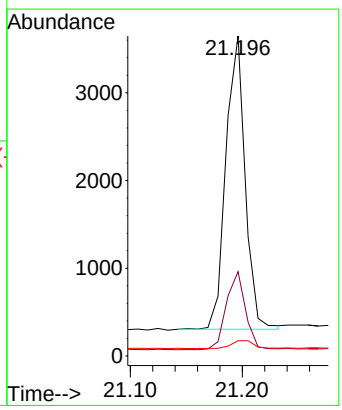
Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

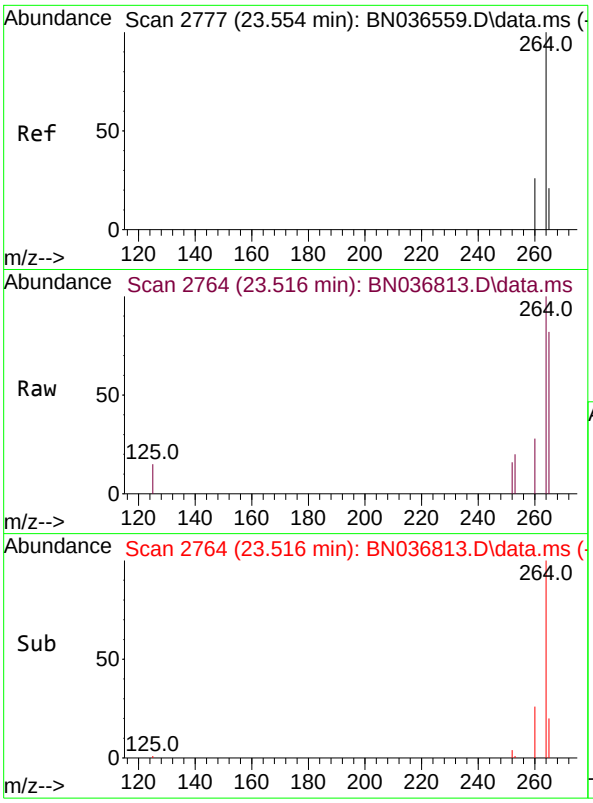



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.439 ng
RT: 21.196 min Scan# 2249
Delta R.T. -0.018 min
Lab File: BN036813.D
Acq: 31 Mar 2025 13:40

Tgt Ion:149 Resp: 4003

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 26.8 | 20.7 | 31.1 |
| 279 | 3.2 | 3.6 | 5.4# |

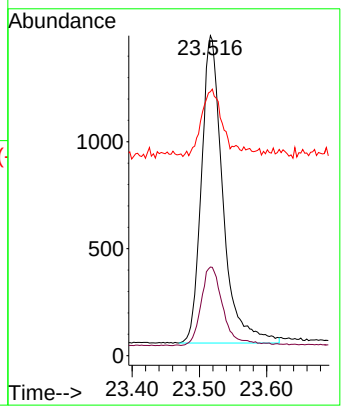





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.516 min Scan# 2
Delta R.T. -0.038 min
Lab File: BN036813.D
Acq: 31 Mar 2025 13:40

Tgt Ion:264 Resp: 318

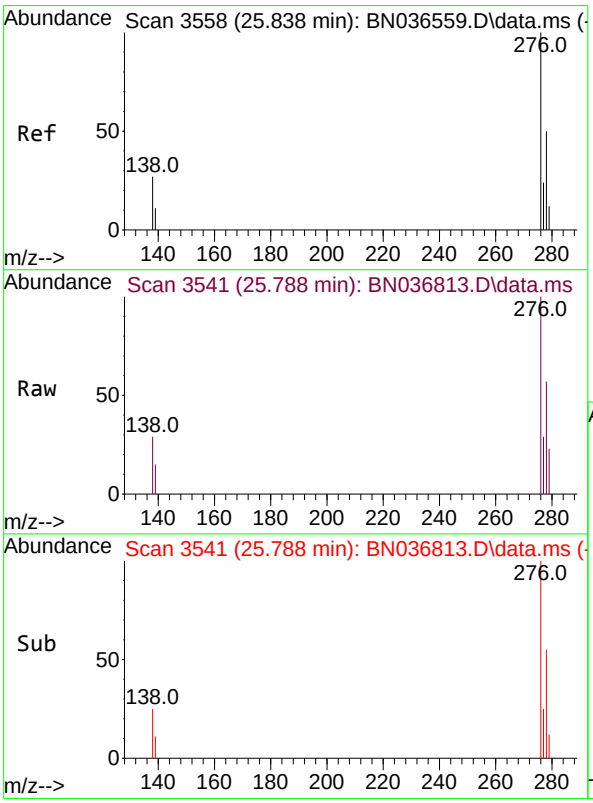
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 27.7 | 22.6 | 33.8 |
| 265 | 82.5 | 88.1 | 132.1# |




**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01S-20250320MSD

**Manual Integrations**
**APPROVED**

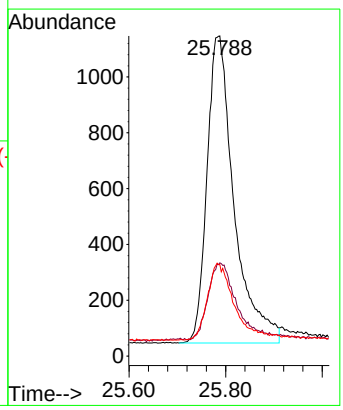
Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

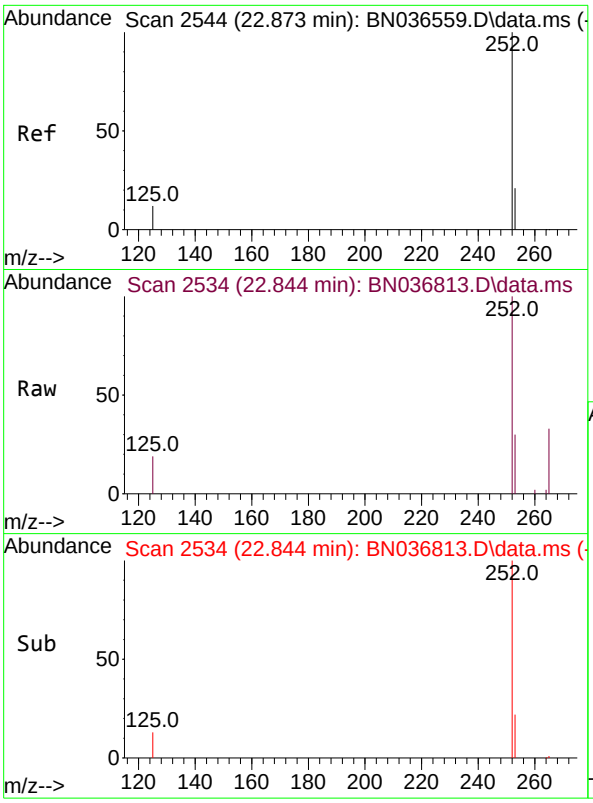



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.373 ng
RT: 25.788 min Scan# 3541
Delta R.T. -0.050 min
Lab File: BN036813.D
Acq: 31 Mar 2025 13:40

Tgt Ion:276 Resp: 4286

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 26.0 | 23.4 | 35.2 |
| 277 | 24.6 | 20.0 | 30.0 |

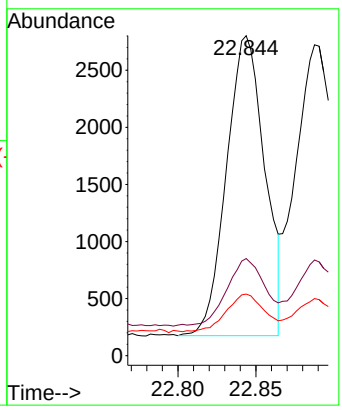





#37
Benzo(b)fluoranthene
Concen: 0.387 ng
RT: 22.844 min Scan# 2
Delta R.T. -0.029 min
Lab File: BN036813.D
Acq: 31 Mar 2025 13:40

Tgt Ion:252 Resp: 447

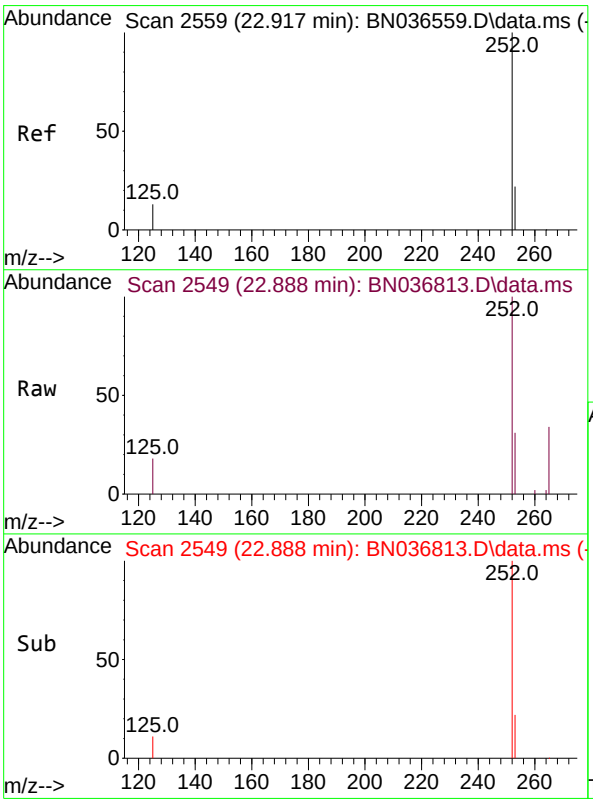
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 30.4 | 23.9 | 35.9 |
| 125 | 19.2 | 17.4 | 26.2 |




**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01S-20250320MSD

**Manual Integrations**
**APPROVED**

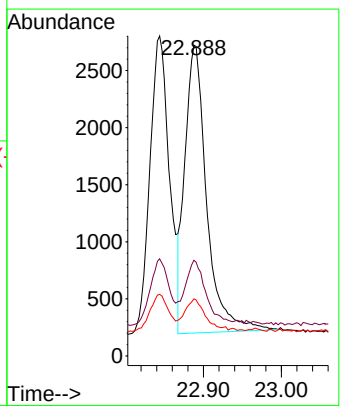
Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

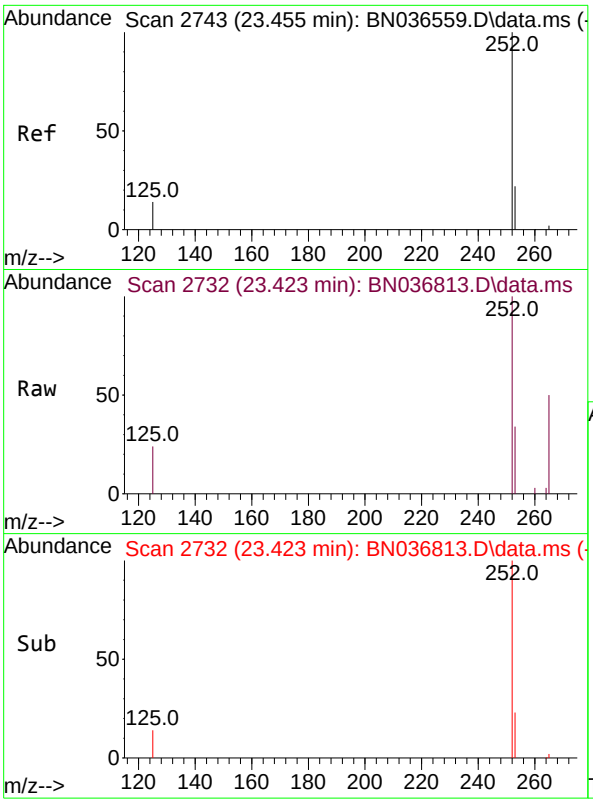



#38
Benzo(k)fluoranthene
Concen: 0.403 ng
RT: 22.888 min Scan# 2549
Delta R.T. -0.029 min
Lab File: BN036813.D
Acq: 31 Mar 2025 13:40

Tgt Ion:252 Resp: 4899

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 30.8 | 24.6 | 36.8 |
| 125 | 18.4 | 17.8 | 26.8 |

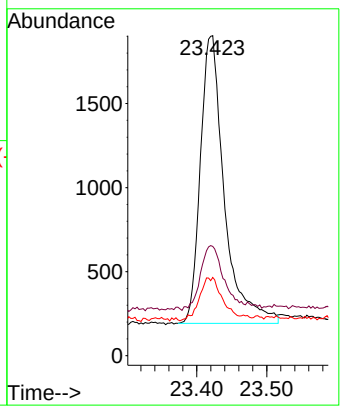





#39
Benzo(a)pyrene
Concen: 0.417 ng
RT: 23.423 min Scan# 2
Delta R.T. -0.032 min
Lab File: BN036813.D
Acq: 31 Mar 2025 13:40

Tgt Ion:252 Resp: 406

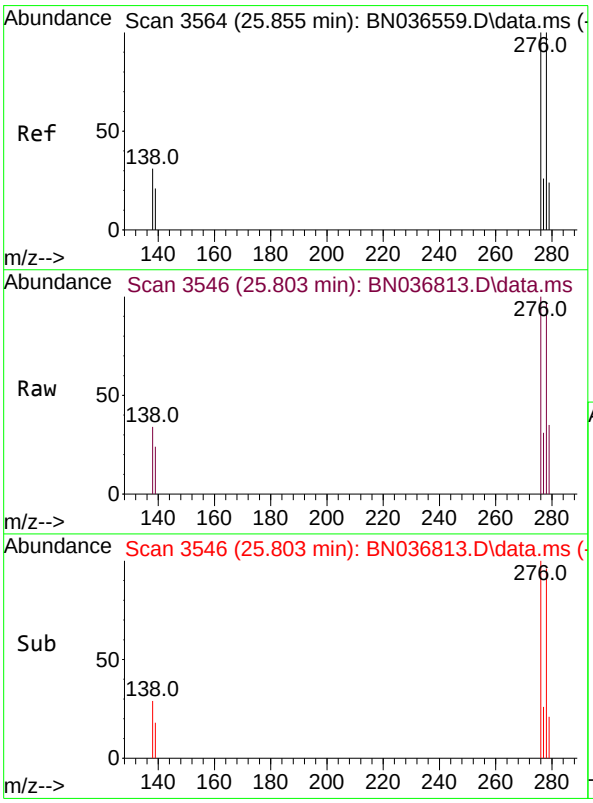
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 34.1 | 27.8 | 41.8 |
| 125 | 24.5 | 22.7 | 34.1 |




**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01S-20250320MSD

**Manual Integrations**
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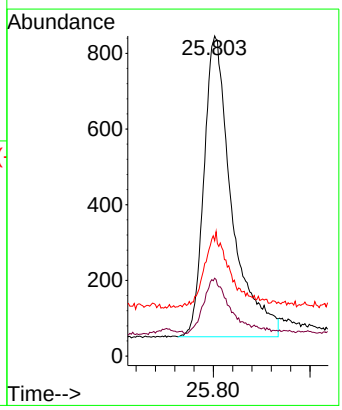
Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

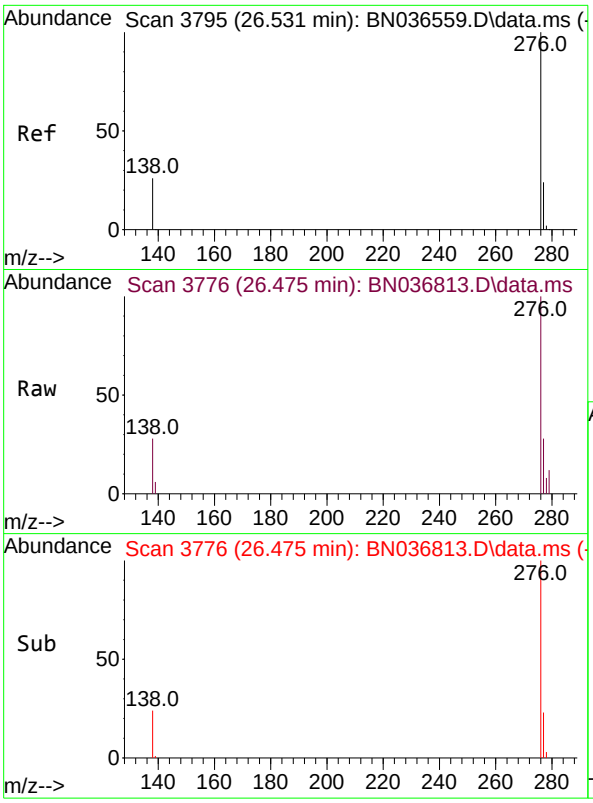



#40
Dibenzo(a,h)anthracene
Concen: 0.355 ng
RT: 25.803 min Scan# 3546
Delta R.T. -0.053 min
Lab File: BN036813.D
Acq: 31 Mar 2025 13:40

Tgt Ion:278 Resp: 3174

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 24.3 | 20.8 | 31.2 |
| 279 | 36.1 | 28.8 | 43.2 |

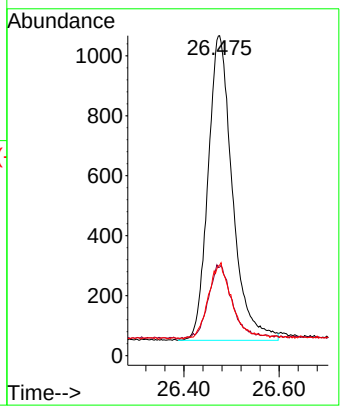





#41
Benzo(g,h,i)perylene
Concen: 0.353 ng
RT: 26.475 min Scan# 3
Delta R.T. -0.056 min
Lab File: BN036813.D
Acq: 31 Mar 2025 13:40

Tgt Ion:276 Resp: 361

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 27.6 | 22.2 | 33.4 |
| 138 | 28.3 | 24.1 | 36.1 |




**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01S-20250320MSD

**Manual Integrations**
**APPROVED**

Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

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

# Manual Integration Report

| Sequence: | BN031025 | Instrument | BNA_n |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| SSTDICC0.1 | BN036557.D | 1,4-Dioxane | anahy | 3/11/2025 9:18:29 AM | Jagrut | 3/11/2025 10:27:49 AM | Peak Integrated by Software |
| SSTDICC0.2 | BN036558.D | 1,4-Dioxane | anahy | 3/11/2025 9:19:12 AM | Jagrut | 3/11/2025 10:27:51 AM | Peak Integrated by Software |
| SSTDCCC0.4 | BN036572.D | Benzo(k)fluoranthene | anahy | 3/11/2025 9:20:59 AM | Jagrut | 3/11/2025 10:27:55 AM | Peak Integrated by Software |
| SSTDCCC0.4 | BN036572.D | Chrysene-d12 | anahy | 3/11/2025 9:20:59 AM | Jagrut | 3/11/2025 10:27:55 AM | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | bn032725 | Instrument | BNA_n |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| SSTDCCC0.4 | BN036736.D | Benzo(k)fluoranthene | anahy | 3/28/2025 11:44:03 AM | Jagrut | 4/1/2025 3:49:26 PM | Peak Integrated by Software |
| SSTDCCC0.4 | BN036738.D | Benzo(k)fluoranthene | anahy | 3/28/2025 11:44:53 AM | Jagrut | 4/1/2025 3:49:29 PM | Peak Integrated by Software |
| SSTDCCC0.4 | BN036755.D | Benzo(g,h,i)perylene | anahy | 3/28/2025 11:51:02 AM | Jagrut | 4/1/2025 3:49:38 PM | Peak Integrated by Software |
| SSTDCCC0.4 | BN036755.D | Benzo(k)fluoranthene | anahy | 3/28/2025 11:51:02 AM | Jagrut | 4/1/2025 3:49:38 PM | Peak Integrated by Software |
| SSTDCCC0.4 | BN036757.D | Benzo(k)fluoranthene | anahy | 3/28/2025 11:57:23 AM | Jagrut | 4/1/2025 3:49:40 PM | Peak Integrated by Software |
| Q1629-04MS | BN036769.D | 2-Methylnaphthalene-d10 | anahy | 3/31/2025 10:08:51 AM | Jagrut | 4/1/2025 3:49:48 PM | Peak Integrated by Software |
| Q1629-05MSD | BN036770.D | 2-Methylnaphthalene-d10 | anahy | 3/31/2025 10:09:27 AM | Jagrut | 4/1/2025 3:49:50 PM | Peak Integrated by Software |
| SSTDCCC0.4 | BN036771.D | Benzo(k)fluoranthene | anahy | 3/31/2025 10:10:02 AM | Jagrut | 4/1/2025 3:49:52 PM | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | BN032825 | Instrument | BNA_n |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| SSTDCCC0.4 | BN036789.D | Benzo(k)fluoranthene | anahy | 3/31/2025 12:00:29 PM | Jagrut | 3/31/2025 2:10:24 PM | Peak Integrated by Software |
| SSTDCCC0.4 | BN036789.D | Dibenzo(a,h)anthracene | anahy | 3/31/2025 12:00:29 PM | Jagrut | 3/31/2025 2:10:24 PM | Peak Integrated by Software |
| SSTDCCC0.4 | BN036791.D | Benzo(k)fluoranthene | anahy | 3/31/2025 12:01:09 PM | Jagrut | 3/31/2025 2:10:27 PM | Peak Integrated by Software |
| Q1629-07 | BN036803.D | Bis(2-ethylhexyl)phthalate | anahy | 3/31/2025 1:28:39 PM | Jagrut | 3/31/2025 2:10:30 PM | Peak Integrated by Software |
| PB167295BS | BN036804.D | 2-Methylnaphthalene-d10 | anahy | 3/31/2025 1:29:20 PM | Jagrut | 3/31/2025 2:10:32 PM | Peak Integrated by Software |
| SSTDCCC0.4 | BN036807.D | Benzo(k)fluoranthene | anahy | 3/31/2025 1:31:19 PM | Jagrut | 3/31/2025 2:10:38 PM | Peak Integrated by Software |
| SSTDCCC0.4 | BN036807.D | Dibenzo(a,h)anthracene | anahy | 3/31/2025 1:31:19 PM | Jagrut | 3/31/2025 2:10:38 PM | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | BN033125 | Instrument | BNA_n |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| SSTDCCC0.4 | BN036809.D | Benzo(k)fluoranthene | Rahul | 3/31/2025 5:32:40 PM | Jagrut | 4/1/2025 10:17:11 AM | Peak Integrated by Software |
| Q1629-15MS | BN036812.D | 2-Methylnaphthalene-d10 | Rahul | 3/31/2025 5:32:43 PM | Jagrut | 4/1/2025 10:17:13 AM | Peak Integrated by Software |
| Q1629-16MSD | BN036813.D | 2-Methylnaphthalene-d10 | Rahul | 3/31/2025 5:32:46 PM | Jagrut | 4/1/2025 10:17:16 AM | Peak Integrated by Software |
| SSTDCCC0.4 | BN036815.D | Benzo(k)fluoranthene | Rahul | 3/31/2025 5:32:48 PM | Jagrut | 4/1/2025 10:17:19 AM | Peak Integrated by Software |

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**Instrument ID: BNA_N**

## Daily Analysis Runlog For Sequence/QCBatch ID # BN031025

| | | | | | |
|---|---|---|---|---|---|
| Review By | anahy | Review On | 3/11/2025 9:36:11 AM | | |
| Supervise By | Jagrut | Supervise On | 3/11/2025 10:28:11 AM | | |
| SubDirectory | BN031025 | HP Acquire Method | BNA_N, 8270_SIM | HP Processing Method | bn031025 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6717 |
| Initial Calibration Stds | SP6738,SP6736,SP6735,SP6734,SP6733,SP6732,SP6731 |
| CCC | SP6735 |
| Internal Standard/PEM | SP6740,1ul/100ul sample |
| ICV/I.BLK | SP6684 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | DFTPP | BN036556.D | 10 Mar 2025 11:03 | RC/JU | Ok |
| 2 | SSTDICC0.1 | BN036557.D | 10 Mar 2025 11:42 | RC/JU | Ok,M |
| 3 | SSTDICC0.2 | BN036558.D | 10 Mar 2025 12:18 | RC/JU | Ok,M |
| 4 | SSTDICCC0.4 | BN036559.D | 10 Mar 2025 12:54 | RC/JU | Ok |
| 5 | SSTDICC0.8 | BN036560.D | 10 Mar 2025 13:31 | RC/JU | Ok |
| 6 | SSTDICC1.6 | BN036561.D | 10 Mar 2025 14:07 | RC/JU | Ok |
| 7 | SSTDICC3.2 | BN036562.D | 10 Mar 2025 14:43 | RC/JU | Ok |
| 8 | SSTDICC5.0 | BN036563.D | 10 Mar 2025 15:19 | RC/JU | Ok |
| 9 | SSTDICV0.4 | BN036564.D | 10 Mar 2025 16:38 | RC/JU | Ok |
| 10 | PB167057BL | BN036565.D | 10 Mar 2025 17:14 | RC/JU | Ok |
| 11 | Q1531-03 | BN036566.D | 10 Mar 2025 17:50 | RC/JU | Ok |
| 12 | Q1531-04 | BN036567.D | 10 Mar 2025 18:26 | RC/JU | Ok |
| 13 | Q1531-05 | BN036568.D | 10 Mar 2025 19:02 | RC/JU | Ok |
| 14 | Q1531-06 | BN036569.D | 10 Mar 2025 19:38 | RC/JU | Ok,M |
| 15 | Q1531-13 | BN036570.D | 10 Mar 2025 20:14 | RC/JU | Ok |
| 16 | Q1531-14 | BN036571.D | 10 Mar 2025 20:50 | RC/JU | Ok |
| 17 | SSTDCCC0.4 | BN036572.D | 10 Mar 2025 21:26 | RC/JU | Ok,M |

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**Instrument ID: BNA_N**

## Daily Analysis Runlog For Sequence/QCBatch ID # BN032725

| | | | | | |
|---|---|---|---|---|---|
| Review By | anahy | Review On | 3/31/2025 10:10:21 AM | | |
| Supervise By | Jagrut | Supervise On | 4/1/2025 2:23:07 PM | | |
| SubDirectory | BN032725 | HP Acquire Method | BNA_N, 8270_SIM | HP Processing Method | bn031025 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6717 |
| Initial Calibration Stds | SP6738,SP6736,SP6735,SP6734,SP6733,SP6732,SP6731 |
| CCC | SP6735 |
| Internal Standard/PEM | SP6740,1ul/100ul sample |
| ICV/I.BLK | SP6684 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | DFTPP | BN036728.D | 27 Mar 2025 09:10 | RC/JU | Ok |
| 2 | SSTDCCC0.4 | BN036729.D | 27 Mar 2025 09:49 | RC/JU | Ok |
| 3 | PB167232BL | BN036730.D | 27 Mar 2025 10:25 | RC/JU | Ok |
| 4 | Q1608-01 | BN036731.D | 27 Mar 2025 11:01 | RC/JU | Ok |
| 5 | Q1608-02 | BN036732.D | 27 Mar 2025 11:38 | RC/JU | Ok |
| 6 | Q1621-01 | BN036733.D | 27 Mar 2025 12:14 | RC/JU | Dilution |
| 7 | Q1621-02 | BN036734.D | 27 Mar 2025 12:50 | RC/JU | ReRun |
| 8 | Q1621-03 | BN036735.D | 27 Mar 2025 13:26 | RC/JU | ReRun |
| 9 | SSTDCCC0.4 | BN036736.D | 27 Mar 2025 14:02 | RC/JU | Ok,M |
| 10 | DFTPP | BN036737.D | 27 Mar 2025 14:38 | RC/JU | Ok |
| 11 | SSTDCCC0.4 | BN036738.D | 27 Mar 2025 15:38 | RC/JU | Ok,M |
| 12 | PB167251BL | BN036739.D | 27 Mar 2025 16:14 | RC/JU | Ok |
| 13 | Q1621-02 | BN036740.D | 27 Mar 2025 16:50 | RC/JU | Ok |
| 14 | Q1621-03 | BN036741.D | 27 Mar 2025 17:26 | RC/JU | Ok |
| 15 | Q1621-01DL | BN036742.D | 27 Mar 2025 18:02 | RC/JU | Ok |
| 16 | Q1608-09 | BN036743.D | 27 Mar 2025 18:39 | RC/JU | Ok |
| 17 | Q1608-10 | BN036744.D | 27 Mar 2025 19:15 | RC/JU | Dilution |
| 18 | Q1608-03 | BN036745.D | 27 Mar 2025 19:51 | RC/JU | Ok,M |
| 19 | Q1608-04 | BN036746.D | 27 Mar 2025 20:27 | RC/JU | Ok |
| 20 | Q1608-14 | BN036747.D | 27 Mar 2025 21:03 | RC/JU | Dilution |
| 21 | Q1608-15 | BN036748.D | 27 Mar 2025 21:39 | RC/JU | Dilution |

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**Instrument ID: BNA_N**

## Daily Analysis Runlog For Sequence/QCBatch ID # BN032725

| | | | | | |
|---|---|---|---|---|---|
| Review By | anahy | Review On | 3/31/2025 10:10:21 AM | | |
| Supervise By | Jagrut | Supervise On | 4/1/2025 2:23:07 PM | | |
| SubDirectory | BN032725 | HP Acquire Method | BNA_N, 8270_SIM | HP Processing Method | bn031025 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6717 |
| Initial Calibration Stds | SP6738,SP6736,SP6735,SP6734,SP6733,SP6732,SP6731 |
| CCC | SP6735 |
| Internal Standard/PEM | SP6740,1ul/100ul sample |
| ICV/I.BLK | SP6684 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | |
|---|---|---|---|---|---|
| 22 | Q1608-16 | BN036749.D | 27 Mar 2025 22:15 | RC/JU | Ok |
| 23 | Q1608-17 | BN036750.D | 27 Mar 2025 22:51 | RC/JU | Dilution |
| 24 | Q1608-18 | BN036751.D | 27 Mar 2025 23:27 | RC/JU | Dilution |
| 25 | Q1608-19 | BN036752.D | 28 Mar 2025 00:03 | RC/JU | Ok |
| 26 | Q1608-20 | BN036753.D | 28 Mar 2025 00:39 | RC/JU | Ok,M |
| 27 | PB167232BS | BN036754.D | 28 Mar 2025 01:16 | RC/JU | Ok,M |
| 28 | SSTDCCC0.4 | BN036755.D | 28 Mar 2025 01:52 | RC/JU | Ok,M |
| 29 | DFTPP | BN036756.D | 28 Mar 2025 03:07 | RC/JU | Ok |
| 30 | SSTDCCC0.4 | BN036757.D | 28 Mar 2025 03:46 | RC/JU | Ok,M |
| 31 | PB167269BL | BN036758.D | 28 Mar 2025 04:22 | RC/JU | Ok |
| 32 | Q1608-21 | BN036759.D | 28 Mar 2025 04:58 | RC/JU | Ok |
| 33 | Q1608-22 | BN036760.D | 28 Mar 2025 05:34 | RC/JU | Ok |
| 34 | Q1608-23 | BN036761.D | 28 Mar 2025 06:10 | RC/JU | Dilution |
| 35 | Q1608-24 | BN036762.D | 28 Mar 2025 06:46 | RC/JU | Ok |
| 36 | Q1608-25 | BN036763.D | 28 Mar 2025 07:22 | RC/JU | Ok,M |
| 37 | Q1608-26 | BN036764.D | 28 Mar 2025 07:58 | RC/JU | Ok |
| 38 | Q1608-11 | BN036765.D | 28 Mar 2025 08:34 | RC/JU | Ok |
| 39 | Q1608-12MS | BN036766.D | 28 Mar 2025 10:22 | RC/JU | Ok,M |
| 40 | Q1608-13MSD | BN036767.D | 28 Mar 2025 10:58 | RC/JU | Ok |
| 41 | Q1629-03 | BN036768.D | 28 Mar 2025 11:34 | RC/JU | Ok |
| 42 | Q1629-04MS | BN036769.D | 28 Mar 2025 12:47 | RC/JU | Ok,M |
| 43 | Q1629-05MSD | BN036770.D | 28 Mar 2025 13:22 | RC/JU | Ok,M |
| 44 | SSTDCCC0.4 | BN036771.D | 28 Mar 2025 13:58 | RC/JU | Ok,M |

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**Instrument ID: BNA_N**

## Daily Analysis Runlog For Sequence/QCBatch ID # BN032725

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Review By | anahy | Review On | 3/31/2025 10:10:21 AM | | | | |
| Supervise By | Jagrut | Supervise On | 4/1/2025 2:23:07 PM | | | | |
| SubDirectory | BN032725 | HP Acquire Method | BNA_N, 8270_SIM | HP Processing Method | bn031025 | | |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6717 |
| Initial Calibration Stds | SP6738,SP6736,SP6735,SP6734,SP6733,SP6732,SP6731 |
| CCC | SP6735 |
| Internal Standard/PEM | SP6740,1ul/100ul sample |
| ICV/I.BLK | SP6684 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

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**Instrument ID: BNA_N**

## Daily Analysis Runlog For Sequence/QCBatch ID # BN032825

| | | | | | |
|---|---|---|---|---|---|
| Review By | anahy | Review On | 3/31/2025 1:32:07 PM | | |
| Supervise By | Jagrut | Supervise On | 3/31/2025 2:10:59 PM | | |
| SubDirectory | BN032825 | HP Acquire Method | BNA_N, 8270_SIM | HP Processing Method | bn031025 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6717 |
| Initial Calibration Stds | SP6738,SP6736,SP6735,SP6734,SP6733,SP6732,SP6731 |
| CCC | SP6735 |
| Internal Standard/PEM | SP6740,1ul/100ul sample |
| ICV/I.BLK | SP6684 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | DFTPP | BN036772.D | 28 Mar 2025 14:34 | RC/JU | Ok |
| 2 | SSTDCCC0.4 | BN036773.D | 28 Mar 2025 15:14 | RC/JU | Ok |
| 3 | PB167159BL | BN036774.D | 28 Mar 2025 15:49 | RC/JU | Ok |
| 4 | Q1608-10DL | BN036775.D | 28 Mar 2025 16:25 | RC/JU | Ok |
| 5 | Q1608-14DL | BN036776.D | 28 Mar 2025 17:02 | RC/JU | Ok |
| 6 | Q1608-15DL | BN036777.D | 28 Mar 2025 17:38 | RC/JU | Ok |
| 7 | Q1608-17DL | BN036778.D | 28 Mar 2025 18:14 | RC/JU | Ok |
| 8 | Q1608-18DL | BN036779.D | 28 Mar 2025 18:50 | RC/JU | Ok |
| 9 | Q1608-23DL | BN036780.D | 28 Mar 2025 19:26 | RC/JU | Ok |
| 10 | Q1608-27 | BN036781.D | 28 Mar 2025 20:02 | RC/JU | Ok |
| 11 | Q1608-28 | BN036782.D | 28 Mar 2025 20:38 | RC/JU | Ok,M |
| 12 | Q1608-05 | BN036783.D | 28 Mar 2025 21:14 | RC/JU | Ok |
| 13 | Q1608-06 | BN036784.D | 28 Mar 2025 21:51 | RC/JU | Ok |
| 14 | Q1608-07 | BN036785.D | 28 Mar 2025 22:26 | RC/JU | Ok |
| 15 | Q1608-08 | BN036786.D | 28 Mar 2025 23:02 | RC/JU | Ok |
| 16 | PB167251BS | BN036787.D | 28 Mar 2025 23:38 | RC/JU | Ok,M |
| 17 | PB167251BSD | BN036788.D | 29 Mar 2025 00:14 | RC/JU | Ok,M |
| 18 | SSTDCCC0.4 | BN036789.D | 29 Mar 2025 00:50 | RC/JU | Ok,M |
| 19 | DFTPP | BN036790.D | 29 Mar 2025 01:26 | RC/JU | Ok |
| 20 | SSTDCCC0.4 | BN036791.D | 29 Mar 2025 02:44 | RC/JU | Ok,M |
| 21 | PB167295BL | BN036792.D | 29 Mar 2025 03:20 | RC/JU | Ok |

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**Instrument ID: BNA_N**

## Daily Analysis Runlog For Sequence/QCBatch ID # BN032825

| | | | | | |
|---|---|---|---|---|---|
| Review By | anahy | Review On | 3/31/2025 1:32:07 PM | | |
| Supervise By | Jagrut | Supervise On | 3/31/2025 2:10:59 PM | | |
| SubDirectory | BN032825 | HP Acquire Method | BNA_N, 8270_SIM | HP Processing Method | bn031025 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6717 |
| Initial Calibration Stds | SP6738,SP6736,SP6735,SP6734,SP6733,SP6732,SP6731 |
| CCC | SP6735 |
| Internal Standard/PEM | SP6740,1ul/100ul sample |
| ICV/I.BLK | SP6684 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | |
|---|---|---|---|---|---|
| 22 | Q1620-04 | BN036793.D | 29 Mar 2025 03:56 | RC/JU | Ok |
| 23 | Q1620-01 | BN036794.D | 29 Mar 2025 04:32 | RC/JU | Ok |
| 24 | Q1620-02 | BN036795.D | 29 Mar 2025 05:08 | RC/JU | Ok |
| 25 | Q1620-03 | BN036796.D | 29 Mar 2025 05:43 | RC/JU | Ok |
| 26 | Q1629-01 | BN036797.D | 29 Mar 2025 06:19 | RC/JU | Ok |
| 27 | Q1629-02 | BN036798.D | 29 Mar 2025 06:56 | RC/JU | Ok |
| 28 | Q1629-08 | BN036799.D | 29 Mar 2025 07:32 | RC/JU | Ok |
| 29 | Q1629-09 | BN036800.D | 29 Mar 2025 08:08 | RC/JU | Ok |
| 30 | Q1629-10 | BN036801.D | 29 Mar 2025 08:44 | RC/JU | Ok |
| 31 | Q1629-11 | BN036802.D | 29 Mar 2025 09:20 | RC/JU | Ok |
| 32 | Q1629-07 | BN036803.D | 29 Mar 2025 09:57 | RC/JU | Ok,M |
| 33 | PB167295BS | BN036804.D | 29 Mar 2025 10:33 | RC/JU | Ok,M |
| 34 | PB167269BSD | BN036805.D | 29 Mar 2025 11:09 | RC/JU | Not Ok |
| 35 | PB167269BS | BN036806.D | 29 Mar 2025 11:45 | RC/JU | Ok |
| 36 | SSTDCCC0.4 | BN036807.D | 29 Mar 2025 12:21 | RC/JU | Ok,M |

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**Instrument ID: BNA_N**

## Daily Analysis Runlog For Sequence/QCBatch ID # BN033125

| | | | | | |
|---|---|---|---|---|---|
| Review By | Rahul | Review On | 3/31/2025 5:33:01 PM | | |
| Supervise By | Jagrut | Supervise On | 4/1/2025 10:28:33 AM | | |
| SubDirectory | BN033125 | HP Acquire Method | BNA_N, 8270_SIM | HP Processing Method | bn031025 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6757 |
| Initial Calibration Stds | SP6738,SP6736,SP6735,SP6734,SP6733,SP6732,SP6731 |
| CCC | SP6735 |
| Internal Standard/PEM | SP6740,1ul/100ul sample |
| ICV/I.BLK | SP6684 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | DFTPP | BN036808.D | 31 Mar 2025 10:00 | RC/JU | Ok |
| 2 | SSTDCCC0.4 | BN036809.D | 31 Mar 2025 10:39 | RC/JU | Ok,M |
| 3 | PB167251BL | BN036810.D | 31 Mar 2025 11:15 | RC/JU | Ok |
| 4 | Q1629-14 | BN036811.D | 31 Mar 2025 11:51 | RC/JU | Ok |
| 5 | Q1629-15MS | BN036812.D | 31 Mar 2025 13:04 | RC/JU | Ok,M |
| 6 | Q1629-16MSD | BN036813.D | 31 Mar 2025 13:40 | RC/JU | Ok,M |
| 7 | PB167269BSD | BN036814.D | 31 Mar 2025 14:16 | RC/JU | Ok |
| 8 | SSTDCCC0.4 | BN036815.D | 31 Mar 2025 15:08 | RC/JU | Ok,M |

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**Instrument ID:** BNA_N

## Daily Analysis Runlog For Sequence/QCBatch ID # BN031025

| | | | | |
|---|---|---|---|---|
| Review By | anahy | Review On | 3/11/2025 9:36:11 AM | |
| Supervise By | Jagrut | Supervise On | 3/11/2025 10:28:11 AM | |
| SubDirectory | BN031025 | HP Acquire Method | BNA_N, 8270_HP Processing Method | bn031025 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6717 |
| Initial Calibration Stds | SP6738,SP6736,SP6735,SP6734,SP6733,SP6732,SP6731 |
| CCC | SP6735 |
| Internal Standard/PEM | SP6740,1ul/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 | BN036556.D | 10 Mar 2025 11:03 | | RC/JU | Ok |
| 2 | SSTDICC0.1 | SSTDICC0.1 | BN036557.D | 10 Mar 2025 11:42 | Compound #20 removed. | RC/JU | Ok,M |
| 3 | SSTDICC0.2 | SSTDICC0.2 | BN036558.D | 10 Mar 2025 12:18 | | RC/JU | Ok,M |
| 4 | SSTDICCC0.4 | SSTDICCC0.4 | BN036559.D | 10 Mar 2025 12:54 | | RC/JU | Ok |
| 5 | SSTDICC0.8 | SSTDICC0.8 | BN036560.D | 10 Mar 2025 13:31 | | RC/JU | Ok |
| 6 | SSTDICC1.6 | SSTDICC1.6 | BN036561.D | 10 Mar 2025 14:07 | Compound #20 kept on QR. | RC/JU | Ok |
| 7 | SSTDICC3.2 | SSTDICC3.2 | BN036562.D | 10 Mar 2025 14:43 | Method is good for DOD. | RC/JU | Ok |
| 8 | SSTDICC5.0 | SSTDICC5.0 | BN036563.D | 10 Mar 2025 15:19 | | RC/JU | Ok |
| 9 | SSTDICV0.4 | ICVBN031025 | BN036564.D | 10 Mar 2025 16:38 | | RC/JU | Ok |
| 10 | PB167057BL | PB167057BL | BN036565.D | 10 Mar 2025 17:14 | | RC/JU | Ok |
| 11 | Q1531-03 | RE122D1-20250305 | BN036566.D | 10 Mar 2025 17:50 | | RC/JU | Ok |
| 12 | Q1531-04 | RE126D1-20250306 | BN036567.D | 10 Mar 2025 18:26 | | RC/JU | Ok |
| 13 | Q1531-05 | RE126D2-20250306 | BN036568.D | 10 Mar 2025 19:02 | | RC/JU | Ok |
| 14 | Q1531-06 | DUP01-20250306 | BN036569.D | 10 Mar 2025 19:38 | | RC/JU | Ok,M |
| 15 | Q1531-13 | RE108D1-20250306 | BN036570.D | 10 Mar 2025 20:14 | | RC/JU | Ok |
| 16 | Q1531-14 | RE105D1-20250306 | BN036571.D | 10 Mar 2025 20:50 | | RC/JU | Ok |
| 17 | SSTDCCC0.4 | SSTDCCC0.4EC | BN036572.D | 10 Mar 2025 21:26 | | 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 # BN032725

| | | | | |
|---|---|---|---|---|
| Review By | anahy | Review On | 3/31/2025 10:10:21 AM | |
| Supervise By | Jagrut | Supervise On | 4/1/2025 2:23:07 PM | |
| SubDirectory | BN032725 | HP Acquire Method | BNA_N, 8270_HP Processing Method | bn031025 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6717 |
| Initial Calibration Stds | SP6738,SP6736,SP6735,SP6734,SP6733,SP6732,SP6731 |
| CCC | SP6735 |
| Internal Standard/PEM | SP6740,1ul/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 | BN036728.D | 27 Mar 2025 09:10 | | RC/JU | Ok |
| 2 | SSTDCCC0.4 | SSTDCCC0.4 | BN036729.D | 27 Mar 2025 09:49 | | RC/JU | Ok |
| 3 | PB167232BL | PB167232BL | BN036730.D | 27 Mar 2025 10:25 | | RC/JU | Ok |
| 4 | Q1608-01 | TT172S1-20250317 | BN036731.D | 27 Mar 2025 11:01 | | RC/JU | Ok |
| 5 | Q1608-02 | RE139D1-20250317 | BN036732.D | 27 Mar 2025 11:38 | | RC/JU | Ok |
| 6 | Q1621-01 | RW5-SP100-20250320 | BN036733.D | 27 Mar 2025 12:14 | Internal Standard Fail, need 5X Dilution | RC/JU | Dilution |
| 7 | Q1621-02 | RW5-SP201-20250320 | BN036734.D | 27 Mar 2025 12:50 | Internal Standard Fail | RC/JU | ReRun |
| 8 | Q1621-03 | RW5-SP303-20250320 | BN036735.D | 27 Mar 2025 13:26 | Internal Standard Fail | RC/JU | ReRun |
| 9 | SSTDCCC0.4 | SSTDCCC0.4EC | BN036736.D | 27 Mar 2025 14:02 | | RC/JU | Ok,M |
| 10 | DFTPP | DFTPP | BN036737.D | 27 Mar 2025 14:38 | | RC/JU | Ok |
| 11 | SSTDCCC0.4 | SSTDCCC0.4 | BN036738.D | 27 Mar 2025 15:38 | | RC/JU | Ok,M |
| 12 | PB167251BL | PB167251BL | BN036739.D | 27 Mar 2025 16:14 | | RC/JU | Ok |
| 13 | Q1621-02 | RW5-SP201-20250320 | BN036740.D | 27 Mar 2025 16:50 | | RC/JU | Ok |
| 14 | Q1621-03 | RW5-SP303-20250320 | BN036741.D | 27 Mar 2025 17:26 | | RC/JU | Ok |
| 15 | Q1621-01DL | RW5-SP100-20250320 | BN036742.D | 27 Mar 2025 18:02 | | RC/JU | Ok |
| 16 | Q1608-09 | GM38-RW3-MW1-2025 | BN036743.D | 27 Mar 2025 18:39 | | RC/JU | Ok |
| 17 | Q1608-10 | DUP08-20250318 | BN036744.D | 27 Mar 2025 19:15 | Need 2X Dilution | RC/JU | Dilution |

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**Instrument ID:** BNA_N

## Daily Analysis Runlog For Sequence/QCBatch ID # BN032725

| | | | | |
|---|---|---|---|---|
| Review By | anahy | Review On | 3/31/2025 10:10:21 AM | |
| Supervise By | Jagrut | Supervise On | 4/1/2025 2:23:07 PM | |
| SubDirectory | BN032725 | HP Acquire Method | BNA_N, 8270_HP Processing Method | bn031025 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6717 |
| Initial Calibration Stds | SP6738,SP6736,SP6735,SP6734,SP6733,SP6732,SP6731 |
| CCC | SP6735 |
| Internal Standard/PEM | SP6740,1ul/100ul sample |
| ICV/I.BLK | SP6684 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 18 | Q1608-03 | RE139D2-20250317 | BN036745.D | 27 Mar 2025 19:51 | | RC/JU | Ok,M |
| 19 | Q1608-04 | TT205S1-20250317 | BN036746.D | 27 Mar 2025 20:27 | | RC/JU | Ok |
| 20 | Q1608-14 | RE132D2-20250318 | BN036747.D | 27 Mar 2025 21:03 | Need 2X Dilution | RC/JU | Dilution |
| 21 | Q1608-15 | RE132D3-20250318 | BN036748.D | 27 Mar 2025 21:39 | Need 2X Dilution | RC/JU | Dilution |
| 22 | Q1608-16 | RE132D4-20250318 | BN036749.D | 27 Mar 2025 22:15 | | RC/JU | Ok |
| 23 | Q1608-17 | RE132D5-20250318 | BN036750.D | 27 Mar 2025 22:51 | Need 2X Dilution | RC/JU | Dilution |
| 24 | Q1608-18 | RE132D6-20250318 | BN036751.D | 27 Mar 2025 23:27 | Need 2X Dilution | RC/JU | Dilution |
| 25 | Q1608-19 | RE132D7-20250318 | BN036752.D | 28 Mar 2025 00:03 | | RC/JU | Ok |
| 26 | Q1608-20 | RE117D2-20250319 | BN036753.D | 28 Mar 2025 00:39 | | RC/JU | Ok,M |
| 27 | PB167232BS | PB167232BS | BN036754.D | 28 Mar 2025 01:16 | | RC/JU | Ok,M |
| 28 | SSTDCCC0.4 | SSTDCCC0.4EC | BN036755.D | 28 Mar 2025 01:52 | | RC/JU | Ok,M |
| 29 | DFTPP | DFTPP | BN036756.D | 28 Mar 2025 03:07 | | RC/JU | Ok |
| 30 | SSTDCCC0.4 | SSTDCCC0.4 | BN036757.D | 28 Mar 2025 03:46 | | RC/JU | Ok,M |
| 31 | PB167269BL | PB167269BL | BN036758.D | 28 Mar 2025 04:22 | | RC/JU | Ok |
| 32 | Q1608-21 | TT101D2-20250319 | BN036759.D | 28 Mar 2025 04:58 | | RC/JU | Ok |
| 33 | Q1608-22 | TT161S1-20250319 | BN036760.D | 28 Mar 2025 05:34 | | RC/JU | Ok |
| 34 | Q1608-23 | TT189D2-20250319 | BN036761.D | 28 Mar 2025 06:10 | Need 2X Dilution | RC/JU | Dilution |
| 35 | Q1608-24 | RW8-MW01S-2025031 | BN036762.D | 28 Mar 2025 06:46 | | RC/JU | Ok |
| 36 | Q1608-25 | RW8-MW01D1-202503 | BN036763.D | 28 Mar 2025 07:22 | | RC/JU | Ok,M |

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**Instrument ID:** BNA_N

## Daily Analysis Runlog For Sequence/QCBatch ID # BN032725

| | | | | |
|---|---|---|---|---|
| Review By | anahy | Review On | 3/31/2025 10:10:21 AM | |
| Supervise By | Jagrut | Supervise On | 4/1/2025 2:23:07 PM | |
| SubDirectory | BN032725 | HP Acquire Method | BNA_N, 8270_HP Processing Method | bn031025 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6717 |
| Initial Calibration Stds | SP6738,SP6736,SP6735,SP6734,SP6733,SP6732,SP6731 |
| CCC | SP6735 |
| Internal Standard/PEM | SP6740,1ul/100ul sample |
| ICV/I.BLK | SP6684 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 37 | Q1608-26 | RW8-MW01D2-202503 | BN036764.D | 28 Mar 2025 07:58 | | RC/JU | Ok |
| 38 | Q1608-11 | RE132D1-20250318 | BN036765.D | 28 Mar 2025 08:34 | | RC/JU | Ok |
| 39 | Q1608-12MS | RE132D1-20250318MS | BN036766.D | 28 Mar 2025 10:22 | | RC/JU | Ok,M |
| 40 | Q1608-13MSD | RE132D1-20250318MS | BN036767.D | 28 Mar 2025 10:58 | | RC/JU | Ok |
| 41 | Q1629-03 | TT188S1-20250320 | BN036768.D | 28 Mar 2025 11:34 | | RC/JU | Ok |
| 42 | Q1629-04MS | TT188S1-20250320MS | BN036769.D | 28 Mar 2025 12:47 | | RC/JU | Ok,M |
| 43 | Q1629-05MSD | TT188S1-20250320MS | BN036770.D | 28 Mar 2025 13:22 | | RC/JU | Ok,M |
| 44 | SSTDCCC0.4 | SSTDCCC0.4EC | BN036771.D | 28 Mar 2025 13:58 | | RC/JU | Ok,M |

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**Instrument ID:** BNA_N

## Daily Analysis Runlog For Sequence/QCBatch ID # BN032825

| | | | | |
|---|---|---|---|---|
| Review By | anahy | Review On | 3/31/2025 1:32:07 PM | |
| Supervise By | Jagrut | Supervise On | 3/31/2025 2:10:59 PM | |
| SubDirectory | BN032825 | HP Acquire Method | BNA_N, 8270_HP Processing Method | bn031025 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6717 |
| Initial Calibration Stds | SP6738,SP6736,SP6735,SP6734,SP6733,SP6732,SP6731 |
| CCC | SP6735 |
| Internal Standard/PEM | SP6740,1ul/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 | BN036772.D | 28 Mar 2025 14:34 | | RC/JU | Ok |
| 2 | SSTDCCC0.4 | SSTDCCC0.4 | BN036773.D | 28 Mar 2025 15:14 | | RC/JU | Ok |
| 3 | PB167159BL | PB167159BL | BN036774.D | 28 Mar 2025 15:49 | | RC/JU | Ok |
| 4 | Q1608-10DL | DUP08-20250318DL | BN036775.D | 28 Mar 2025 16:25 | | RC/JU | Ok |
| 5 | Q1608-14DL | RE132D2-20250318DL | BN036776.D | 28 Mar 2025 17:02 | | RC/JU | Ok |
| 6 | Q1608-15DL | RE132D3-20250318DL | BN036777.D | 28 Mar 2025 17:38 | | RC/JU | Ok |
| 7 | Q1608-17DL | RE132D5-20250318DL | BN036778.D | 28 Mar 2025 18:14 | | RC/JU | Ok |
| 8 | Q1608-18DL | RE132D6-20250318DL | BN036779.D | 28 Mar 2025 18:50 | | RC/JU | Ok |
| 9 | Q1608-23DL | TT189D2-20250319DL | BN036780.D | 28 Mar 2025 19:26 | | RC/JU | Ok |
| 10 | Q1608-27 | RW8-MW01D3-202503 | BN036781.D | 28 Mar 2025 20:02 | | RC/JU | Ok |
| 11 | Q1608-28 | DUP09-20250319 | BN036782.D | 28 Mar 2025 20:38 | | RC/JU | Ok,M |
| 12 | Q1608-05 | DUP07-20250317 | BN036783.D | 28 Mar 2025 21:14 | | RC/JU | Ok |
| 13 | Q1608-06 | TT163S1-20250317 | BN036784.D | 28 Mar 2025 21:51 | | RC/JU | Ok |
| 14 | Q1608-07 | RW11-MW01S-202503 | BN036785.D | 28 Mar 2025 22:26 | | RC/JU | Ok |
| 15 | Q1608-08 | RW11-MW01I-2025031 | BN036786.D | 28 Mar 2025 23:02 | | RC/JU | Ok |
| 16 | PB167251BS | PB167251BS | BN036787.D | 28 Mar 2025 23:38 | | RC/JU | Ok,M |
| 17 | PB167251BSD | PB167251BSD | BN036788.D | 29 Mar 2025 00:14 | | RC/JU | Ok,M |
| 18 | SSTDCCC0.4 | SSTDCCC0.4EC | BN036789.D | 29 Mar 2025 00:50 | | RC/JU | Ok,M |

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**Instrument ID:** BNA_N

## Daily Analysis Runlog For Sequence/QCBatch ID # BN032825

| | | | | |
|---|---|---|---|---|
| Review By | anahy | Review On | 3/31/2025 1:32:07 PM | |
| Supervise By | Jagrut | Supervise On | 3/31/2025 2:10:59 PM | |
| SubDirectory | BN032825 | HP Acquire Method | BNA_N, 8270_HP Processing Method | bn031025 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6717 |
| Initial Calibration Stds | SP6738,SP6736,SP6735,SP6734,SP6733,SP6732,SP6731 |
| CCC | SP6735 |
| Internal Standard/PEM | SP6740,1ul/100ul sample |
| ICV/I.BLK | SP6684 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 19 | DFTPP | DFTPP | BN036790.D | 29 Mar 2025 01:26 | | RC/JU | Ok |
| 20 | SSTDCCC0.4 | SSTDCCC0.4 | BN036791.D | 29 Mar 2025 02:44 | | RC/JU | Ok,M |
| 21 | PB167295BL | PB167295BL | BN036792.D | 29 Mar 2025 03:20 | | RC/JU | Ok |
| 22 | Q1620-04 | RW7-SP303-20250320 | BN036793.D | 29 Mar 2025 03:56 | | RC/JU | Ok |
| 23 | Q1620-01 | RW7-SP100-20250320 | BN036794.D | 29 Mar 2025 04:32 | | RC/JU | Ok |
| 24 | Q1620-02 | RW7-SP201-20250320 | BN036795.D | 29 Mar 2025 05:08 | | RC/JU | Ok |
| 25 | Q1620-03 | RW7-SP302-20250320 | BN036796.D | 29 Mar 2025 05:43 | | RC/JU | Ok |
| 26 | Q1629-01 | TT174I1-20250320 | BN036797.D | 29 Mar 2025 06:19 | | RC/JU | Ok |
| 27 | Q1629-02 | TT162S1-20250320 | BN036798.D | 29 Mar 2025 06:56 | | RC/JU | Ok |
| 28 | Q1629-08 | RW09-MW01D2-20250 | BN036799.D | 29 Mar 2025 07:32 | | RC/JU | Ok |
| 29 | Q1629-09 | RW09-MW01D3-20250 | BN036800.D | 29 Mar 2025 08:08 | | RC/JU | Ok |
| 30 | Q1629-10 | TT150S1-20250320 | BN036801.D | 29 Mar 2025 08:44 | | RC/JU | Ok |
| 31 | Q1629-11 | FB03-20250321 | BN036802.D | 29 Mar 2025 09:20 | | RC/JU | Ok |
| 32 | Q1629-07 | RW09-MW01D1-20250 | BN036803.D | 29 Mar 2025 09:57 | | RC/JU | Ok,M |
| 33 | PB167295BS | PB167295BS | BN036804.D | 29 Mar 2025 10:33 | | RC/JU | Ok,M |
| 34 | PB167269BSD | PB167269BSD | BN036805.D | 29 Mar 2025 11:09 | Surrogate Fail | RC/JU | Not Ok |
| 35 | PB167269BS | PB167269BS | BN036806.D | 29 Mar 2025 11:45 | | RC/JU | Ok |
| 36 | SSTDCCC0.4 | SSTDCCC0.4EC | BN036807.D | 29 Mar 2025 12:21 | | RC/JU | Ok,M |

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**Instrument ID:** BNA_N

## Daily Analysis Runlog For Sequence/QCBatch ID # BN033125

| | | | | |
|---|---|---|---|---|
| Review By | Rahul | Review On | 3/31/2025 5:33:01 PM | |
| Supervise By | Jagrut | Supervise On | 4/1/2025 10:28:33 AM | |
| SubDirectory | BN033125 | HP Acquire Method | BNA_N, 8270_HP Processing Method | bn031025 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6757 |
| Initial Calibration Stds | SP6738,SP6736,SP6735,SP6734,SP6733,SP6732,SP6731 |
| CCC | SP6735 |
| Internal Standard/PEM | SP6740,1ul/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 | BN036808.D | 31 Mar 2025 10:00 | | RC/JU | Ok |
| 2 | SSTDCCC0.4 | SSTDCCC0.4 | BN036809.D | 31 Mar 2025 10:39 | | RC/JU | Ok,M |
| 3 | PB167251BL | PB167251BL | BN036810.D | 31 Mar 2025 11:15 | | RC/JU | Ok |
| 4 | Q1629-14 | RW09-MW01S-202503 | BN036811.D | 31 Mar 2025 11:51 | | RC/JU | Ok |
| 5 | Q1629-15MS | RW09-MW01S-202503 | BN036812.D | 31 Mar 2025 13:04 | | RC/JU | Ok,M |
| 6 | Q1629-16MSD | RW09-MW01S-202503 | BN036813.D | 31 Mar 2025 13:40 | | RC/JU | Ok,M |
| 7 | PB167269BSD | PB167269BSD | BN036814.D | 31 Mar 2025 14:16 | | RC/JU | Ok |
| 8 | SSTDCCC0.4 | SSTDCCC0.4EC | BN036815.D | 31 Mar 2025 15:08 | | RC/JU | Ok,M |

M : Manual Integration

Alliance TECHNICAL GROUP

**EXTRACTION LOGPAGE**

PB167295

| | | | | | |
|---|---|---|---|---|---|
| **SOP ID:** | M3510C,3580A-Extraction SVOC-20 | | | | |
| **Clean Up SOP #:** | N/A | | | **Extraction Start Date :** | 03/25/2025 |
| **Matrix :** | Water | | | **Extraction Start Time :** | 08:41 |
| **Weigh By:** | N/A | **Extraction By:** | RJ | **Extraction End Date :** | 03/25/2025 |
| **Balance check:** | N/A | **Filter By:** | RJ | **Extraction End Time :** | 13:30 |
| **Balance ID:** | N/A | **pH Meter ID:** | N/A | **Concentration By:** | EH |
| **pH Strip Lot#:** | E3880 | **Hood ID:** | 4,5,6,7 | **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 | SP6739 |
| Surrogate | 1.0ML | 0.4 PPM | SP6755 |
| 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 | E3904 |
| Baked Na2SO4 | N/A | EP2595 |
| 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 |

**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-1,2 | **Envap ID:** | NEVAP-02 |
| **KD Bath Temperature:** | 60 °C | **Envap Temperature:** | 40 °C |

| Date / Time | Prepped Sample Relinquished By/Location | Received By/Location |
|---|---|---|
| 03/25/25 | RD (Ext Lab) | AC/SVOC |
| 13:35 | **Preparation Group** | **Analysis Group** |

Alliance TECHNICAL GROUP

**EXTRACTION LOGPAGE**

**PrepBatch ID : PB167295**

**Analytical Method:** M3510C,3580A-Extraction SVOC-20

**Concentration Date:** 03/25/2025

| Sample ID | Client Sample ID | Test | g /(mL) | PH | Surr/Spike By: | | Final Vol. (mL) | JarID | Comments | Prep Pos |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | AddedBy | VerifiedBy | | | | |
| PB167295BL | SBLK295 | SVOC-SIMGroup1 | 1000 | 6 | ritesh | rajesh | 1 | | | SEP-01 |
| PB167295BS | SLCS295 | SVOC-SIMGroup1 | 1000 | 6 | ritesh | rajesh | 1 | | | 2 |
| Q1629-01 | TT174I1-20250320 | SVOC-SIMGroup1 | 1000 | 6 | ritesh | rajesh | 1 | C | | 3 |
| Q1629-02 | TT162S1-20250320 | SVOC-SIMGroup1 | 1000 | 6 | ritesh | rajesh | 1 | C | | 4 |
| Q1629-03 | TT188S1-20250320 | SVOC-SIMGroup1 | 1000 | 6 | ritesh | rajesh | 1 | C | | 5 |
| Q1629-04 | Q1629-03MS | SVOC-SIMGroup1 | 990 | 6 | ritesh | rajesh | 1 | C | | 6 |
| Q1629-05 | Q1629-03MSD | SVOC-SIMGroup1 | 1000 | 6 | ritesh | rajesh | 1 | C | | 7 |
| Q1629-07 | RW09-MW01D1-20250320 | SVOC-SIMGroup1 | 1000 | 6 | ritesh | rajesh | 1 | C | | 8 |
| Q1629-08 | RW09-MW01D2-20250320 | SVOC-SIMGroup1 | 990 | 6 | ritesh | rajesh | 1 | C | | 9 |
| Q1629-09 | RW09-MW01D3-20250320 | SVOC-SIMGroup1 | 1000 | 6 | ritesh | rajesh | 1 | C | | 10 |
| Q1629-10 | TT150S1-20250320 | SVOC-SIMGroup1 | 1000 | 6 | ritesh | rajesh | 1 | C | | 11 |
| Q1629-11 | FB03-20250321 | SVOC-SIMGroup1 | 1000 | 6 | ritesh | rajesh | 1 | C | | 12 |
| Q1629-14 | RW09-MW01S-20250320 | SVOC-SIMGroup1 | 1000 | 6 | ritesh | rajesh | 1 | C | | 13 |
| Q1629-15 | Q1629-14MS | SVOC-SIMGroup1 | 1000 | 6 | ritesh | rajesh | 1 | C | | 14 |
| Q1629-16 | Q1629-14MSD | SVOC-SIMGroup1 | 990 | 6 | ritesh | rajesh | 1 | C | | 15 |

* **Extracts relinquished on the same date as received.**

3/25/25

1672 9T 6:41

# WORKLIST(Hardcopy Internal Chain)

**WorkList Name :** Q1629 **WorkList ID :** 188515 **Department :** Extraction **Date :** 03-25-2025 08:29:02

643 of 1033

| Sample | Customer Sample | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method |
|---|---|---|---|---|---|---|---|---|
| Q1629-01 | TT174I1-20250320 | Water | SVOC-SIMGroup1 | Cool 4 deg C | AECO15 | I41 | 03/20/2025 | 8270-Modified |
| Q1629-02 | TT162S1-20250320 | Water | SVOC-SIMGroup1 | Cool 4 deg C | AECO15 | I41 | 03/20/2025 | 8270-Modified |
| Q1629-03 | TT188S1-20250320 | Water | SVOC-SIMGroup1 | Cool 4 deg C | AECO15 | I41 | 03/20/2025 | 8270-Modified |
| Q1629-04 | Q1629-03MS | Water | SVOC-SIMGroup1 | Cool 4 deg C | AECO15 | I41 | 03/20/2025 | 8270-Modified |
| Q1629-05 | Q1629-03MSD | Water | SVOC-SIMGroup1 | Cool 4 deg C | AECO15 | I41 | 03/20/2025 | 8270-Modified |
| Q1629-07 | RW09-MW01D1-20250320 | Water | SVOC-SIMGroup1 | Cool 4 deg C | AECO15 | I41 | 03/20/2025 | 8270-Modified |
| Q1629-08 | RW09-MW01D2-20250320 | Water | SVOC-SIMGroup1 | Cool 4 deg C | AECO15 | I41 | 03/20/2025 | 8270-Modified |
| Q1629-09 | RW09-MW01D3-20250320 | Water | SVOC-SIMGroup1 | Cool 4 deg C | AECO15 | I41 | 03/20/2025 | 8270-Modified |
| Q1629-10 | TT150S1-20250320 | Water | SVOC-SIMGroup1 | Cool 4 deg C | AECO15 | I41 | 03/20/2025 | 8270-Modified |
| Q1629-11 | FB03-20250321 | Water | SVOC-SIMGroup1 | Cool 4 deg C | AECO15 | I41 | 03/21/2025 | 8270-Modified |
| Q1629-14 | RW09-MW01S-20250320 | Water | SVOC-SIMGroup1 | Cool 4 deg C | AECO15 | I41 | 03/20/2025 | 8270-Modified |
| Q1629-15 | Q1629-14MS | Water | SVOC-SIMGroup1 | Cool 4 deg C | AECO15 | I41 | 03/20/2025 | 8270-Modified |
| Q1629-16 | Q1629-14MSD | Water | SVOC-SIMGroup1 | Cool 4 deg C | AECO15 | I41 | 03/20/2025 | 8270-Modified |

**Date/Time** 03/25/24 8:35
**Raw Sample Received by:** RJ (Cat Lab)
**Raw Sample Relinquished by:**



**Date/Time** 03/25/24 9:10
**Raw Sample Received by:**
**Raw Sample Relinquished by:** RJ (Cat Lab)

Q1629-SVOC-SIMGroup1

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# Prep Standard - Chemical Standard Summary

**Order ID :** Q1629

**Test :** SVOC-SIMGroup1

**Prepbatch ID :** PB167295,

**Sequence ID/Qc Batch ID:** bn032725,BN032825,BN033125,

**Standard ID :**
EP2559,EP2565,EP2595,SP6682,SP6683,SP6684,SP6717,SP6730,SP6731,SP6732,SP6733,SP6734,SP6735,SP6736,SP6738,SP6739,SP6740,SP6755,SP6757,

**Chemical ID :**
1ul/100ul sample,E3551,E3657,E3828,E3871,E3873,E3874,E3902,E3904,M5173,S10104,S10246,S11074,S11495,S11650,S11785,S11831,S11832,S12114,S12142,S12189,S12195,S12208,S12216,S12270,S12328,S12469,S12478,S12517,S12525,S12577,S12651,S12791,S12966,W3112,

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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 | EP2595 | 03/17/2025 | 07/01/2025 | RUPESHKUMAR SHAH | Extraction_SCALE_2 (EX-SC-2) | None | Riteshkumar Patel 03/17/2025 |

**FROM** 4000.00000gram of E3551 = Final Quantity: 4000.000 gram

| 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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# SVOC STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3895 | 50 ug/ml DFTPP 8270E | SP6717 | 01/15/2025 | 03/31/2025 | Rahul Chavli | None | None | Yogesh Patel 01/16/2025 |

**FROM** 1.00000ml of S10246 + 19.00000ml of E3871 = Final Quantity: 20.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3339 | 8270 sim calibration stock 10ppm (CPI) | SP6730 | 02/04/2025 | 05/12/2025 | Jagrut Upadhyay | None | None | Yogesh Patel 02/07/2025 |

**FROM** 0.03350ml of S10104 + 0.05000ml of S11495 + 0.12500ml of S11832 + 0.12500ml of S12114 + 0.25000ml of S12270 + 0.25000ml of S12791 + 24.16650ml of E3874 = Final Quantity: 25.000 ml

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# SVOC STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3361 | 8270-SIM MDL-5PPM CALIBRATION SOLUTION | SP6731 | 02/04/2025 | 05/09/2025 | Jagrut Upadhyay | None | None | Yogesh Patel 02/07/2025 |

**FROM** 0.50000ml of E3874 + 0.01000ml of SP6682 + 0.50000ml of SP6730 = Final Quantity: 1.010 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3341 | 8270-SIM MDL-3.2PPM CALIBRATION SOLUTION | SP6732 | 02/04/2025 | 05/09/2025 | Jagrut Upadhyay | None | None | Yogesh Patel 02/07/2025 |

**FROM** 0.68000ml of E3874 + 0.01000ml of SP6682 + 0.32000ml of SP6730 = 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 |
|---|---|---|---|---|---|---|---|---|
| 3344 | 8270-SIM MDL-1.6PPM CALIBRATION SOLUTION | SP6733 | 02/04/2025 | 05/09/2025 | Jagrut Upadhyay | None | None | Yogesh Patel 02/07/2025 |

**FROM** 0.84000ml of E3874 + 0.01000ml of SP6682 + 0.16000ml of SP6730 = Final Quantity: 1.010 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3342 | 8270-SIM MDL-0.8PPM CALIBRATION SOLUTION | SP6734 | 02/04/2025 | 05/09/2025 | Jagrut Upadhyay | None | None | Yogesh Patel 02/07/2025 |

**FROM** 0.92000ml of E3874 + 0.01000ml of SP6682 + 0.08000ml of SP6730 = 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 |
|---|---|---|---|---|---|---|---|---|
| 3343 | 8270-SIM MDL-0.4PPM CALIBRATION SOLUTION | SP6735 | 02/04/2025 | 05/09/2025 | Jagrut Upadhyay | None | None | Yogesh Patel 02/07/2025 |

**FROM** 0.96000ml of E3874 + 0.01000ml of SP6682 + 0.04000ml of SP6730 = Final Quantity: 1.010 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3345 | 8270-SIM MDL-0.2PPM CALIBRATION SOLUTION | SP6736 | 02/04/2025 | 05/09/2025 | Jagrut Upadhyay | None | None | Yogesh Patel 02/07/2025 |

**FROM** 0.50000ml of E3874 + 0.01000ml of SP6682 + 0.50000ml of SP6735 = 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 |
|---|---|---|---|---|---|---|---|---|
| 3346 | 8270-SIM MDL-0.1PPM CALIBRATION SOLUTION | SP6738 | 02/04/2025 | 05/09/2025 | Jagrut Upadhyay | None | None | Yogesh Patel 02/07/2025 |

**FROM** 0.75000ml of E3874 + 0.01000ml of SP6682 + 0.25000ml of SP6735 = Final Quantity: 1.010 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3492 | 8270-SIM-Spike 0.4 PPM | SP6739 | 02/05/2025 | 07/29/2025 | Jagrut Upadhyay | None | None | Yogesh Patel 02/07/2025 |

**FROM** 0.00080ml of S11650 + 0.01000ml of S11785 + 0.02000ml of S12478 + 0.02000ml of S12525 + 0.02000ml of S12966 + 49.92920ml of E3873 = Final Quantity: 50.000 ml

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# SVOC STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3493 | Internal Standard 0.4 PPM | SP6740 | 02/13/2025 | 07/30/2025 | Rahul Chavli | None | None | Yogesh Patel 02/28/2025 |

**FROM** 0.10000ml of S12651 + 4.90000ml of E3874 = Final Quantity: 5.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3491 | 8270-SIM-Surrogate 0.4 PPM | SP6755 | 03/20/2025 | 07/24/2025 | Jagrut Upadhyay | None | None | Rahul Chavli 04/01/2025 |

**FROM** 0.00400ml of S12195 + 0.00800ml of S12216 + 0.02000ml of S11832 + 99.96800ml of E3902 = Final Quantity: 100.000 ml

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# SVOC STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3895 | 50 ug/ml DFTPP 8270E | SP6757 | 03/31/2025 | 09/30/2025 | Rahul Chavli | None | None | Jagrut Upadhyay 04/01/2025 |

**FROM** 1.00000ml of S12577 + 19.00000ml of E3904 = Final Quantity: 20.000 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) | 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) | 24K1762005 | 07/14/2025 | 01/14/2025 / Rajesh | 12/27/2024 / Rajesh | E3871 |

| 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) | 24H2762008 | 07/29/2025 | 01/29/2025 / Rajesh | 01/29/2025 / Rajesh | E3873 |

| 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) | 25A0262002 | 07/30/2025 | 01/30/2025 / Rajesh | 01/20/2025 / Rajesh | E3874 |

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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) | 24H2762008 | 09/18/2025 | 03/18/2025 / RUPESH | 02/12/2025 / RUPESH | E3902 |

| 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) | 24K1762005 | 01/07/2026 | 03/13/2025 / RUPESH | 12/27/2024 / RUPESH | E3904 |

| 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 / RUPESH | 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 | 07/30/2025 | 01/30/2025 / anahy | 12/09/2021 / Christian | S10104 |

| 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 | 03/31/2025 | 01/15/2025 / Rahul | 03/18/2022 / Christian | S10246 |

| 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 |

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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-110094-02 / CLP Base/Neutral Surrogate Solution, 5000 mg/L, 1ml | 506889 | 05/12/2025 | 11/12/2024 / Jagrut | 08/11/2023 / Yogesh | S11495 |

| 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] | A0201728 | 07/29/2025 | 01/29/2025 / anahy | 11/09/2023 / Yogesh | S11650 |

| 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 | 07/29/2025 | 01/29/2025 / anahy | 11/21/2023 / Rahul | S11785 |

| 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 |

| 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 | 07/24/2025 | 01/24/2025 / anahy | 11/21/2023 / rahul | S11832 |

| 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 | 05/12/2025 | 11/12/2024 / Jagrut | 03/08/2024 / Rahul | S12114 |

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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 | 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 |

| 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 | 31087 / Acid Surrogate 10,000ug/ml,methanol,5ml/ ampul | A0206206 | 09/18/2025 | 03/18/2025 / anahy | 03/15/2024 / Rahul | S12195 |

| 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 | 31086 / Base Neutral Surrogate 5000ug/ml,CH2Cl2,5ml | A0206381 | 09/18/2025 | 03/18/2025 / anahy | 03/15/2024 / Rahul | S12216 |

| 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 | 520963 | 07/30/2025 | 01/30/2025 / anahy | 05/24/2024 / Rahul | S12270 |

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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 | 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 | 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 | 555223 / Custom 8270 Plus Std #1 [2nd lot at $100 per ampul if requested - contact ARM with Request] [CS 4978-1] | A0214021 | 07/29/2025 | 01/29/2025 / anahy | 07/23/2024 / RAHUL | S12478 |

| 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 # |
|---|---|---|---|---|---|---|
| Restek | 555224 / Custom 8270 Plus Std #2 [2nd lot at $85 per ampul if requested - contact ARM with Request] [CS 4978-2] | A0214017 | 07/29/2025 | 01/29/2025 / anahy | 07/23/2024 / RAHUL | S12525 |

| 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, | A0212955 | 06/30/2027 | 03/31/2025 / Rahul | 08/01/2024 / Rahul | S12577 |

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

# CHEMICAL RECEIPT LOG BOOK

| 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 | A0212266 | 08/07/2025 | 02/07/2025 / anahy | 09/20/2024 / anahy | S12651 |

| 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 | 06/21/2025 | 01/30/2025 / anahy | 05/24/2024 / Rahul | S12791 |

| 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] | A0219438 | 07/29/2025 | 01/29/2025 / anahy | 12/11/2024 / anahy | S12966 |

| 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

5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(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-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.

# RESTEK® CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

# Certificate of Analysis

**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 03/08/22 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)

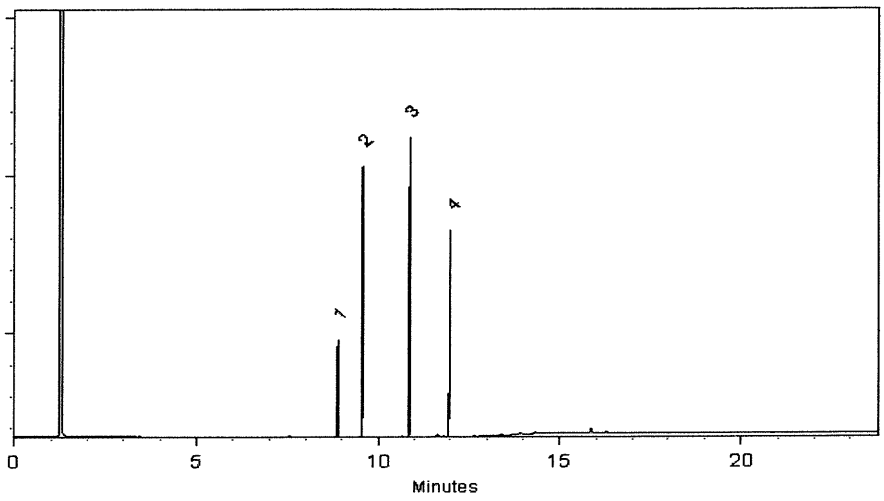
**Carrier Gas:**
hydrogen-constant pressure 10 psi.

**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
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

# CERTIFIED REFERENCE MATERIAL

## Certificate of Analysis

ACCREDITED
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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)

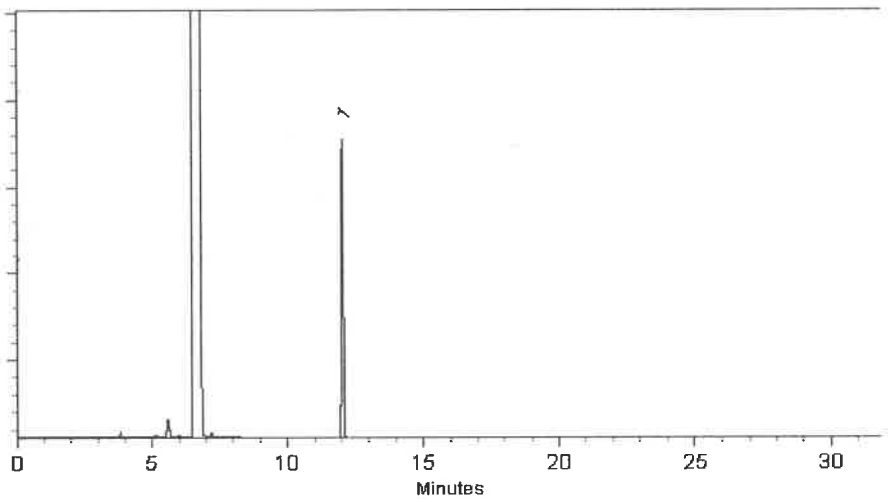
**Carrier Gas:**
hydrogen-constant pressure 11.0 psi.

**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**

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 |

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

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

12/9-1/24

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor | J.T.Baker

Material No.: 9266-A4
Batch No.: 24K1762005
Manufactured Date: 2024-10-08
Expiration Date:2026-01-07
Revision No.: 0

# Certificate of Analysis

| Test | Specification | Result |
|---|---|---|
| FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL) | <= 5 | 1 |
| ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL) | <= 10 | 2 |
| 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 | 0.5 ppm |
| Titrable Acid (µeq/g) | <= 0.3 | 0.0 |
| 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 3871

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.: 24H2762008
Manufactured Date: 2024-04-18
Expiration Date:2027-04-18
Revision No.: 0

# Certificate of Analysis

| Test | Specification | Result |
|---|---|---|
| Assay ($(CH_3)_2CO$) (by GC, corrected forwater) | >= 99.4 % | 100.0 % |
| Color (APHA) | <= 10 | 5 |
| Residue after Evaporation | <= 1.0 ppm | 0.0 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 % | <0.1 % |
| 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 1/29/25

E 3873

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: PO2-1178.2 PRODUCT CODE: SHIP DATE: 1/20/2025

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor | J.T.Baker

Material No.: 9266-A4
Batch No.: 25A0262002
Manufactured Date: 2024-11-21
Expiration Date:2026-02-20
Revision No.: 0

# Certificate of Analysis

| Test | Specification | Result |
|---|---|---|
| FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL) | <= 5 | 1 |
| ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL) | <= 10 | 4 |
| Assay ($CH_2Cl_2$) (by GC, exclusive of preservative, corrected for water) | >= 99.8 % | 99.9 % |
| Color (APHA) | <= 10 | 10 |
| Residue after Evaporation | <= 1.0 ppm | 0.8 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 3874

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

PO: PO2-798 PRODUCT CODE: SHIP DATE: 12/9/2024

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor | J.T.Baker

Material No.: 9254-03
Batch No.: 24H2762008
Manufactured Date: 2024-04-18
Expiration Date:2027-04-18
Revision No.: 0

# Certificate of Analysis

| Test | Specification | Result |
|---|---|---|
| Assay ($(CH_3)_2CO$) (by GC, corrected forwater) | >= 99.4 % | 100.0 % |
| Color (APHA) | <= 10 | 5 |
| Residue after Evaporation | <= 1.0 ppm | 0.0 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 % | <0.1 % |
| 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

E 3902

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

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

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

5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(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: _____

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

***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. :** 555872 **Lot No.:** A0201728

**Description :** Custom Pentachlorophenol Standard

Custom Pentachlorophenol Standard 25,000µg/mL, Methanol, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** September 30, 2026 **Storage:** 10°C or colder

**Ship:** Ambient

511649 ↓ 511658 Y.P. 11/13/23

**CERTIFIED VALUES**

| Component # | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | Pentachlorophenol | 87-86-5 | RP230530RSR | 99% | 25,000.0 µg/mL | +/- 777.0837 |

**Solvent:** Methanol
**CAS #** 67-56-1
**Purity** 99%

Josh McCloskey - Operations Technician I

**Date Mixed:** 05-Sep-2023 **Balance:** B251644995

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

*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.)

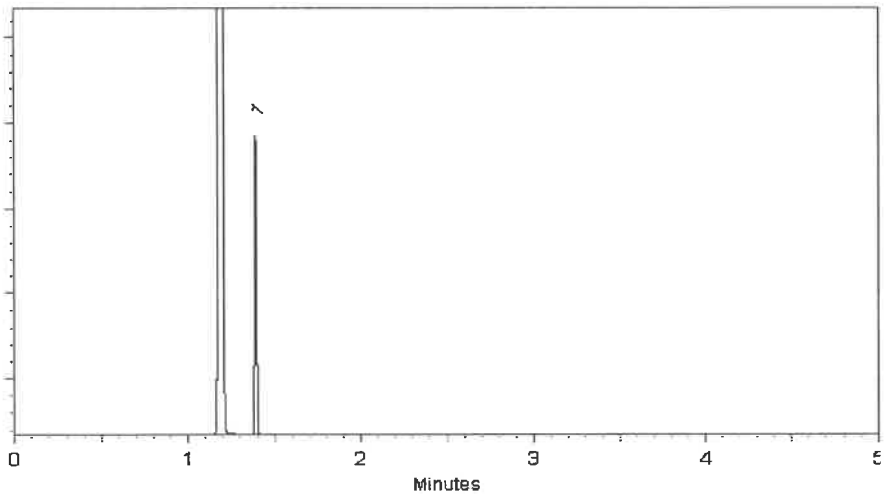
**Inj. Temp:**
250°C

**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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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. :** 33913 **Lot No.:** A0201976

**Description :** SOM01.0 SIM Analysis Standard

SOM01.0 SIM Analysis Standard 2000µg/mL, Methylene chloride, 1mL /ampul

S11828 ↓ S11832 RC/ 11/30/23

**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

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.)

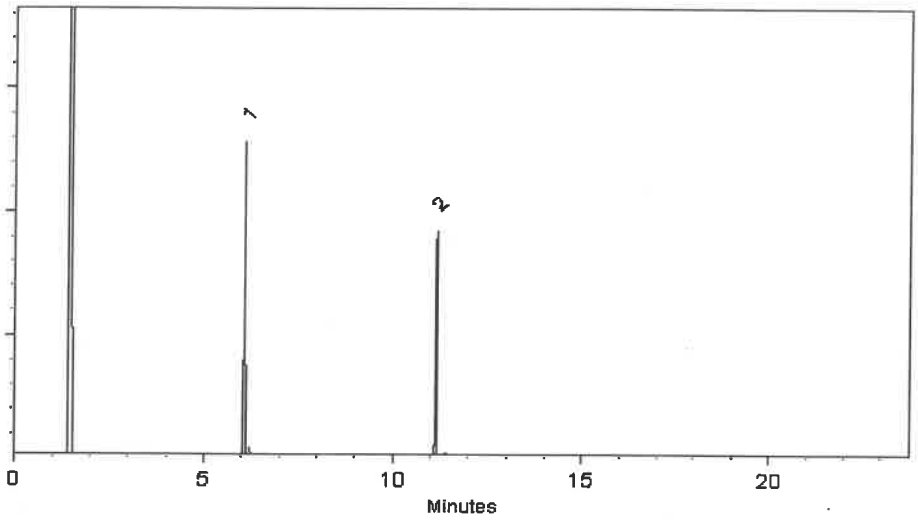
**Inj. Temp:**
250°C

**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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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. :** 33913 **Lot No.:** A0201976

**Description :** SOM01.0 SIM Analysis Standard

SOM01.0 SIM Analysis Standard 2000µg/mL, Methylene chloride, 1mL /ampul

S11828 ↓ S11832 RC/ 11/30/23

**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

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.)

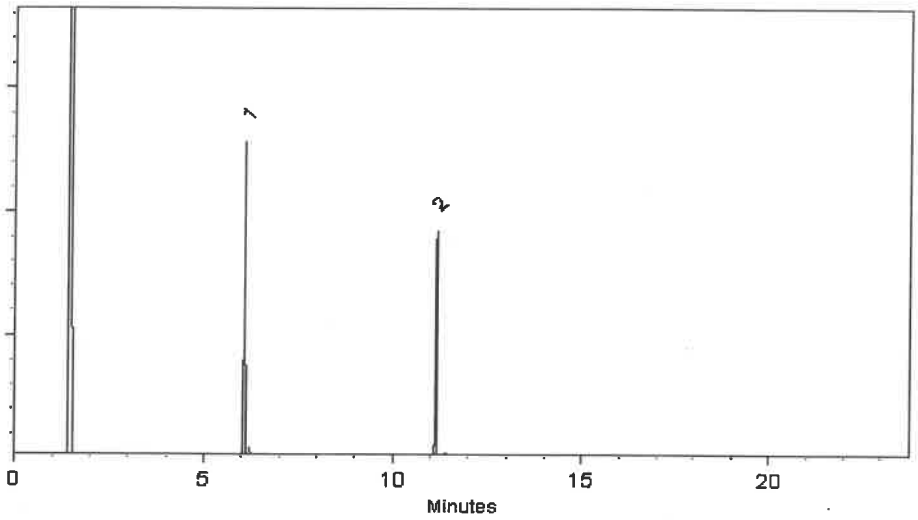
**Inj. Temp:**
250°C

**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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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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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%

# 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.)

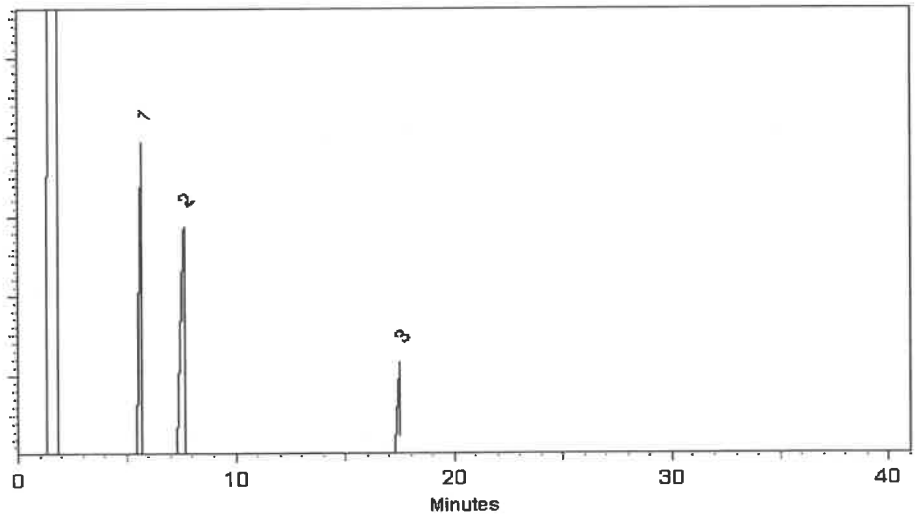
**Inj. Temp:**
250°C

**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*

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.)

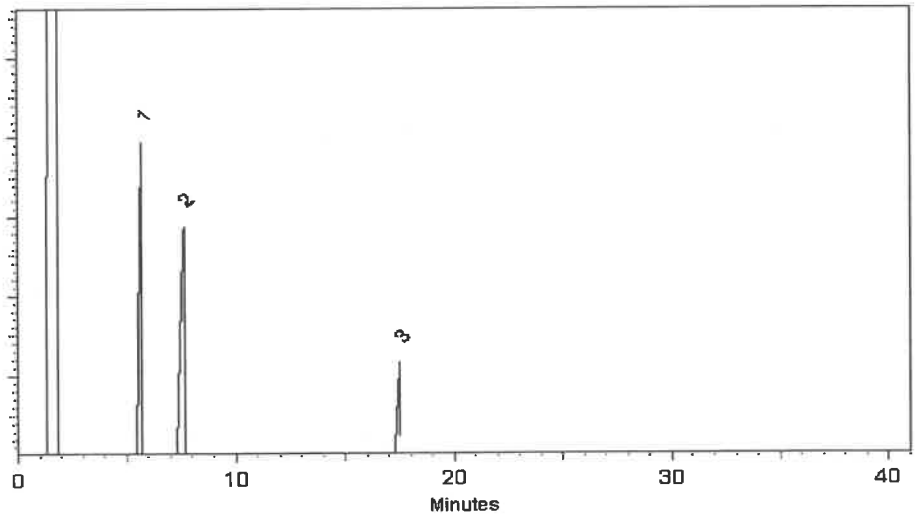
**Inj. Temp:**
250°C

**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.)

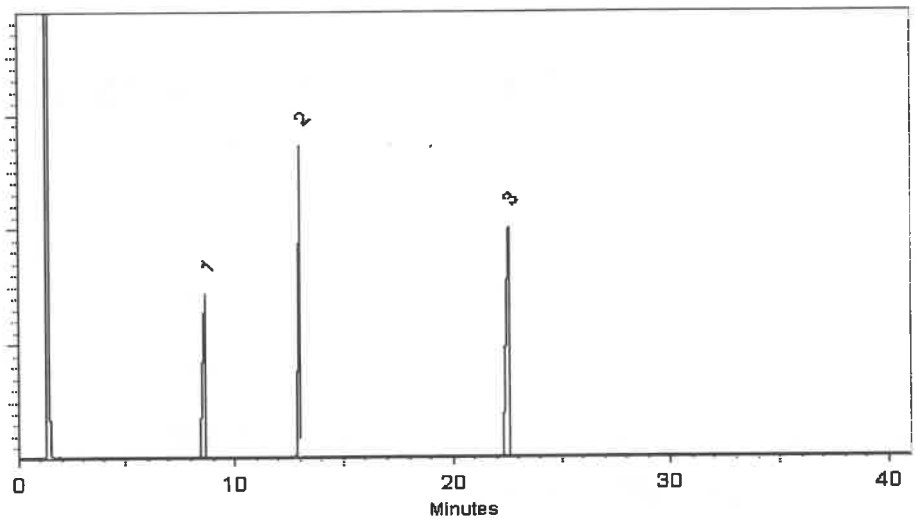
**Inj. Temp:**
250°C

**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**

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

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.)

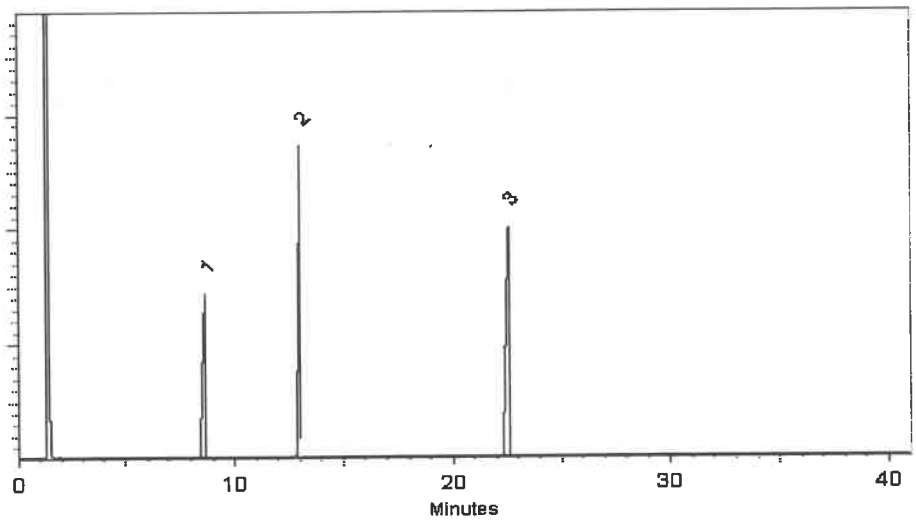
**Inj. Temp:**
250°C

**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**

CPI INTERNATIONAL

5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(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-110381-01 | 520963 | ≤ -10 °C | Methylene Chloride | 10/10/2028 | 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 | 1010 ± 9.89 |
| acenaphthylene | 208-96-8 | 97.6 | 14.290.1P | 1014 ± 9.93 |
| aniline | 62-53-3 | 99.97 | 64.1.4P | 1001 ± 9.8 |
| anthracene | 120-12-7 | 99.5 | 15.7.1P | 999.6 ± 9.79 |
| azobenzene | 103-33-3 | 98.1 | 252.7.2P | 999.1 ± 9.8 |
| benzo[a]anthracene | 56-55-3 | 100 | 16.7.3P | 1007 ± 9.86 |
| benzo[b]fluoranthene | 205-99-2 | 99.8 | 17.421.3P | 1011 ± 14.11 |
| benzo[k]fluoranthene | 207-08-9 | 98.9 | 18.421.4P | 1001 ± 10.96 |
| benzo[ghi]perylene | 191-24-2 | 93 | 19.286.4P | 999.6 ± 13.95 |
| benzo[a]pyrene | 50-32-8 | 97 | 20.286.2P | 999.9 ± 22.24 |
| benzyl alcohol | 100-51-6 | 99.9 | 65.18.1P | 1001 ± 9.82 |
| bis(2-chloroethoxy)methane | 111-91-1 | 99.1 | 31.3.15P | 1000 ± 14.69 |
| bis(2-chloroethyl)ether | 111-44-4 | 99.8 | 32.7.1P | 1003 ± 13.89 |
| bis(2-chloro-1-methylethyl) ether | 108-60-1 | 99.5 | 34.3.15P | 999.4 ± 14.68 |
| bis(2-ethylhexyl)adipate | 103-23-1 | 99.5 | 874.7.1P | 999.5 ± 9.8 |
| bis(2-ethylhexyl)phthalate | 117-81-7 | 99.4 | 33.29.1P | 998.8 ± 17.03 |
| 4-bromophenyl phenyl ether | 101-55-3 | 99.4 | 35.7.1.1P | 1000 ± 13.85 |
| butyl benzyl phthalate | 85-68-7 | 98.4 | 36.1.6P | 984.7 ± 16.79 |
| carbazole | 86-74-8 | 99.4 | 239.7.2P | 1000 ± 9.8 |

S12270 ↓ S12274 } RC 05/24/24

*Not a certified value

Certified By: Kerry E Kane

Kerry Kane
**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.:** 520963 **Expiration Date:** 10/10/2028

| Compound | CAS No. | Purity (%) | Compound Lot No. | Concentration, mg/L |
|---|---|---|---|---|
| 4-chloroaniline | 106-47-8 | 100 | 66.7.1P | 1000 ± 9.79 |
| 4-chlorophenylphenyl ether | 7005-72-3 | 98 | 37.158.2P | 1001 ± 17.07 |
| 4-chloro-3-methylphenol | 59-50-7 | 99 | 102.1.2P | 1006 ± 17.16 |
| 2-chloronaphthalene | 91-58-7 | 99.9 | 42.7.6P | 1000 ± 9.79 |
| 2-chlorophenol | 95-57-8 | 99.8 | 103.7.1P | 1007 ± 13.96 |
| chrysene | 218-01-9 | 96 | 21.286.2P | 998.4 ± 12.85 |
| dibenz[a,h]anthracene | 53-70-3 | 99.44 | 22.286.3P | 1000 ± 9.74 |
| dibenzofuran | 132-64-9 | 100 | 67.7.2.1P | 1002 ± 9.77 |
| di-n-butyl phthalate | 84-74-2 | 99.84 | 40.286.1P | 1007 ± 24.48 |
| 1,2-dichlorobenzene | 95-50-1 | 99.8 | 43.7.1P | 1000 ± 9.79 |
| 1,3-dichlorobenzene | 541-73-1 | 99.5 | 44.1.3P | 999.4 ± 9.79 |
| 1,4-dichlorobenzene | 106-46-7 | 99.9 | 45.29.2P | 1000 ± 9.79 |
| 2,4-dichlorophenol | 120-83-2 | 99.6 | 104.7.1.1P | 1005 ± 13.93 |
| diethyl phthalate | 84-66-2 | 99.8 | 38.7.1P | 1011 ± 14 |
| 2,4-dimethylphenol | 105-67-9 | 99.6 | 105.7.1.1P | 1009 ± 13.98 |
| dimethyl phthalate | 131-11-3 | 99.9 | 39.9.2P | 996.5 ± 13.8 |
| 1,2-dinitrobenzene | 528-29-0 | 99.86 | 86.7.3.1P | 999.5 ± 9.75 |
| 1,3-dinitrobenzene | 99-65-0 | 100 | 313.7.2P | 998 ± 9.79 |
| 1,4-dinitrobenzene | 100-25-4 | 100 | 907.7.1P | 999.5 ± 9.8 |
| 2,4-dinitrophenol | 51-28-5 | 99.9 | 106.1.6DP | 1002 ± 13.89 |
| 2,4-dinitrotoluene | 121-14-2 | 100 | 87.7.3P | 999.8 ± 13.85 |
| 2,6-dinitrotoluene | 606-20-2 | 99.4 | 88.7.2.1P | 999.6 ± 13.85 |
| di-n-octyl phthalate | 117-84-0 | 99.1 | 41.7.5P | 991.6 ± 13.74 |
| diphenylamine | 122-39-4 | 100 | 78.1.6P | 998 ± 13.79 |
| 2,3,5,6-tetrachlorophenol | 935-95-5 | 97 | 1112.286.1P | 1004 ± 14.02 |
| fluoranthene | 206-44-0 | 98.6 | 23.7.4P | 999.6 ± 9.79 |
| fluorene | 86-73-7 | 98.4 | 24.7.1P | 999.7 ± 9.79 |

*Not a certified value

Certified By: Kerry E Kane

Kerry Kane
**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.:** 520963 **Expiration Date:** 10/10/2028

| Compound | CAS No. | Purity (%) | Compound Lot No. | Concentration, mg/L |
|---|---|---|---|---|
| hexachlorobenzene | 118-74-1 | 99 | 46.158.4P | 999.9 ± 13.96 |
| hexachlorobutadiene | 87-68-3 | 97.4 | 47.1.4P | 1000 ± 9.79 |
| hexachlorocyclopentadiene | 77-47-4 | 99.2 | 48.2.2P | 1001 ± 9.8 |
| hexachloroethane | 67-72-1 | 99.9 | 49.1.4P | 1003 ± 9.82 |
| indeno[1,2,3-cd]pyrene | 193-39-5 | 98 | 25.286.4P | 999.4 ± 22.23 |
| isophorone | 78-59-1 | 98.9 | 90.1.4P | 999.9 ± 13.85 |
| 2-methyl-4,6-dinitrophenol | 534-52-1 | 99.6 | 107.421.2DP | 991 ± 24.09 |
| 1-methylnaphthalene | 90-12-0 | 97.1 | 249.7.5P | 999.2 ± 13.95 |
| 2-methylnaphthalene | 91-57-6 | 97.4 | 68.7.2P | 1006 ± 22.38 |
| 2-methylphenol | 95-48-7 | 99.6 | 114.7.3P | 1001 ± 13.87 |
| 3-methylphenol | 108-39-4 | 99.1 | 115.7.4P | 499.7 ± 6.92 |
| 4-methylphenol | 106-44-5 | 99.5 | 116.7.1P | 501.2 ± 6.94 |
| naphthalene | 91-20-3 | 99.8 | 26.9.1P | 1018 ± 9.97 |
| 2-nitroaniline | 88-74-4 | 99.7 | 69.29.1P | 999.6 ± 9.79 |
| 3-nitroaniline | 99-09-2 | 100 | 70.7.3P | 1000 ± 9.74 |
| 4-nitroaniline | 100-01-6 | 99.7 | 71.29.1P | 1001 ± 9.8 |
| nitrobenzene | 98-95-3 | 100 | 94.7.1P | 1000 ± 13.85 |
| 2-nitrophenol | 88-75-5 | 99.1 | 108.29.1P | 996.5 ± 13.81 |
| 4-nitrophenol | 100-02-7 | 100 | 109.7.1P | 1000 ± 13.82 |
| N-nitrosodimethylamine | 62-75-9 | 99.5 | 57.3.19P | 998.5 ± 14.67 |
| N-nitrosodi-n-propylamine | 621-64-7 | 99.8 | 59.286.1P | 996.8 ± 17 |
| pentachlorophenol | 87-86-5 | 99 | 110.1.7P | 1004 ± 13.92 |
| phenanthrene | 85-01-8 | 99.7 | 27.1.5P | 999 ± 12.87 |
| phenol | 108-95-2 | 100 | 112.7.1P | 998.5 ± 13.8 |
| pyrene | 129-00-0 | 99.2 | 28.9.2P | 998.9 ± 9.78 |
| pyridine | 110-86-1 | 100 | 101.24.1P | 999 ± 9.73 |
| 2,3,4,6-Tetrachlorophenol | 58-90-2 | 91.8 | 120.421.1P | 996.5 ± 13.92 |

*Not a certified value

Certified By: Kerry E Kane

Kerry Kane
**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.:** 520963 **Expiration Date:** 10/10/2028

| Compound | CAS No. | Purity (%) | Compound Lot No. | Concentration, mg/L |
|---|---|---|---|---|
| 1,2,4-trichlorobenzene | 120-82-1 | 99.6 | 54.29.1P | 999.6 ± 9.79 |
| 2,4,5-trichlorophenol | 95-95-4 | 96.5 | 121.7.1.1P | 999.5 ± 13.85 |
| 2,4,6-trichlorophenol | 88-06-2 | 99.6 | 113.7.1P | 996 ± 13.8 |

*Not a certified value

Certified By: Kerry E Kane

Kerry Kane
**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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# 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.*

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.)

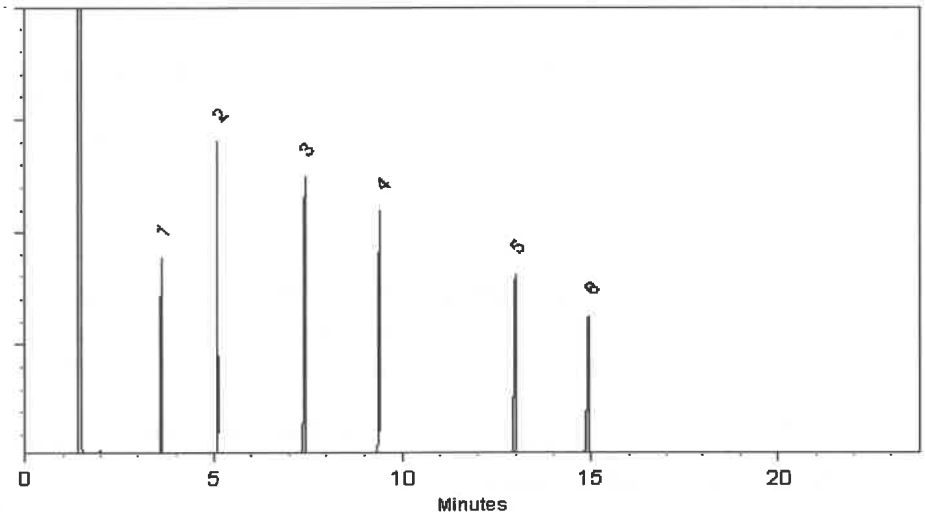
**Inj. Temp:**
250°C

**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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# Certificate of Analysis

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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*

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**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

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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.

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# 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. :** 31615 **Lot No.:** A0212955

**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 :** June 30, 2027 **Storage:** 10°C or colder

**Handling:** Contains carcinogen/reproductive toxin. **Ship:** Ambient

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | Pentachlorophenol | 87-86-5 | RP240517RSR | 99% | 1,004.5 µg/mL | +/- 44.8902 |
| 2 | DFTPP (Decafluorotriphenylphosphine) | 5074-71-5 | Q117-147 | 99% | 1,004.5 µg/mL | +/- 44.8902 |
| 3 | Benzidine | 92-87-5 | S240430RSR | 99% | 1,006.0 µg/mL | +/- 44.9572 |
| 4 | 4,4'-DDT | 50-29-3 | S240530RSR | 97% | 1,000.1 µg/mL | +/- 44.6922 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methylene chloride
**CAS #** 75-09-2
**Purity** 99%

S12577 ↓ S12579 RC 8/2/24

# 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.)

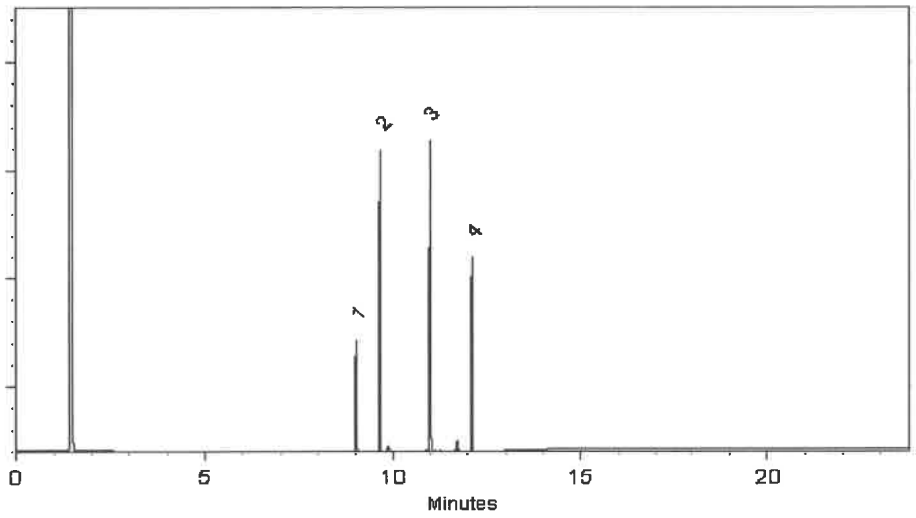
**Inj. Temp:**
250°C

**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.

Ethan Winiarski - Operations Tech I

**Date Mixed:** 19-Jun-2024 **Balance Serial #** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC

**Date Passed:** 26-Jun-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.**

*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. :** 31206 **Lot No.:** A0212266

**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 :** April 30, 2030 **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% | 2,000.6 µg/mL | +/- 90.1075 |
| 2 | Naphthalene-d8 | 1146-65-2 | M-2180 | 99% | 2,000.3 µg/mL | +/- 90.0925 |
| 3 | Acenaphthene-d10 | 15067-26-2 | PR-33507 | 99% | 2,000.4 µg/mL | +/- 90.1000 |
| 4 | Phenanthrene-d10 | 1517-22-2 | PR-34099 | 99% | 2,000.5 µg/mL | +/- 90.1037 |
| 5 | Chrysene-d12 | 1719-03-5 | PR-33506 | 99% | 2,000.7 µg/mL | +/- 90.1112 |
| 6 | Perylene-d12 | 1520-96-3 | PR-33205 | 99% | 2,000.6 µg/mL | +/- 90.1075 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methylene chloride
**CAS #** 75-09-2
**Purity** 99%

S12645 ↓ S12674 AC 10/1/24

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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 |

S12280 ↓ S12284 RCI 05/24/24

New numbers Generated.

S12790 ↓ S12794 RCI 11/12/24

*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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# Certificate of Analysis

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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.:** A0219438

**Description :** 8270 MegaMix®

8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** September 30, 2025 **Storage:** 0°C or colder

**Handling:** Sonication required. Mix is photosensitive. **Ship:** Ambient

S12963 ↓ S12992 AC 12/17/24

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% | 1,008.3 µg/mL | +/- 36.6849 |
| 2 | N-Nitrosodimethylamine | 62-75-9 | S240313RSR | 99% | 1,008.6 µg/mL | +/- 36.6985 |
| 3 | Phenol | 108-95-2 | MKCK1120 | 99% | 1,003.5 µg/mL | +/- 36.5120 |
| 4 | Aniline | 62-53-3 | X22F726 | 99% | 1,002.9 µg/mL | +/- 36.4893 |
| 5 | Bis(2-chloroethyl)ether | 111-44-4 | 002891T24M | 99% | 1,003.0 µg/mL | +/- 36.4938 |
| 6 | 2-Chlorophenol | 95-57-8 | STBJ3909 | 99% | 1,005.6 µg/mL | +/- 36.5894 |
| 7 | 1,3-Dichlorobenzene | 541-73-1 | BCCD5315 | 99% | 1,004.1 µg/mL | +/- 36.5348 |
| 8 | 1,4-Dichlorobenzene | 106-46-7 | MKBS7929V | 99% | 1,002.1 µg/mL | +/- 36.4620 |
| 9 | Benzyl alcohol | 100-51-6 | SHBK5469 | 99% | 1,003.5 µg/mL | +/- 36.5120 |
| 10 | 1,2-Dichlorobenzene | 95-50-1 | SHBL6287 | 99% | 1,005.3 µg/mL | +/- 36.5757 |
| 11 | 2-Methylphenol (o-cresol) | 95-48-7 | SHBN7598 | 99% | 1,008.4 µg/mL | +/- 36.6894 |
| 12 | 2,2'-oxybis(1-chloropropane) | 108-60-1 | 29-MAR-45-5 | 99% | 1,004.6 µg/mL | +/- 36.5530 |
| 13 | 3-Methylphenol (m-cresol) | 108-39-4 | STBJ0710 | 99% | 502.1 µg/mL | +/- 18.2697 |
| 14 | 4-Methylphenol (p-cresol) | 106-44-5 | SHBN3411 | 99% | 503.8 µg/mL | +/- 18.3288 |
| 15 | N-Nitroso-di-n-propylamine | 621-64-7 | N63MG | 99% | 1,006.5 µg/mL | +/- 36.6212 |
| 16 | Hexachloroethane | 67-72-1 | DAXRI | 99% | 1,004.5 µg/mL | +/- 36.5484 |
| 17 | Nitrobenzene | 98-95-3 | 10224044 | 99% | 1,002.5 µg/mL | +/- 36.4757 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 18 | Isophorone | 78-59-1 | MKCR3249 | 99% | 1,003.4 | µg/mL | +/- 36.5075 |
| 19 | 2-Nitrophenol | 88-75-5 | RP230710 | 99% | 1,002.5 | µg/mL | +/- 36.4757 |
| 20 | 2,4-Dimethylphenol | 105-67-9 | XW5GK | 99% | 1,006.5 | µg/mL | +/- 36.6212 |
| 21 | Bis(2-chloroethoxy)methane | 111-91-1 | 15705100 | 99% | 1,006.6 | µg/mL | +/- 36.6257 |
| 22 | 2,4-Dichlorophenol | 120-83-2 | BCCK6969 | 99% | 1,001.5 | µg/mL | +/- 36.4393 |
| 23 | 1,2,4-Trichlorobenzene | 120-82-1 | SHBP5900 | 99% | 1,006.4 | µg/mL | +/- 36.6166 |
| 24 | Naphthalene | 91-20-3 | STBL1057 | 99% | 1,002.1 | µg/mL | +/- 36.4620 |
| 25 | 4-Chloroaniline | 106-47-8 | BCCJ3217 | 99% | 1,004.4 | µg/mL | +/- 36.5439 |
| 26 | Hexachlorobutadiene | 87-68-3 | X05J | 98% | 1,002.5 | µg/mL | +/- 36.4771 |
| 27 | 4-Chloro-3-methylphenol | 59-50-7 | BCCD4461 | 99% | 1,004.5 | µg/mL | +/- 36.5484 |
| 28 | 2-Methylnaphthalene | 91-57-6 | STBL3028 | 99% | 1,000.0 | µg/mL | +/- 36.3847 |
| 29 | 1-Methylnaphthalene | 90-12-0 | 5234.00-8 | 98% | 990.2 | µg/mL | +/- 36.0269 |
| 30 | Hexachlorocyclopentadiene | 77-47-4 | 099063I14L | 98% | 1,001.3 | µg/mL | +/- 36.4325 |
| 31 | 2,4,6-Trichlorophenol | 88-06-2 | STBK8870 | 99% | 1,006.4 | µg/mL | +/- 36.6166 |
| 32 | 2,4,5-Trichlorophenol | 95-95-4 | 3YFRE | 97% | 1,004.6 | µg/mL | +/- 36.5505 |
| 33 | 2-Chloronaphthalene | 91-58-7 | RPN7O | 99% | 1,004.3 | µg/mL | +/- 36.5393 |
| 34 | 2-Nitroaniline | 88-74-4 | RP240715RSR | 99% | 1,004.4 | µg/mL | +/- 36.5439 |
| 35 | 1,4-Dinitrobenzene | 100-25-4 | RP240703RSR | 99% | 1,002.8 | µg/mL | +/- 36.4847 |
| 36 | Acenaphthylene | 208-96-8 | RP241029RSR | 98% | 1,000.0 | µg/mL | +/- 36.3835 |
| 37 | 1,3-Dinitrobenzene | 99-65-0 | TRC3-1075941-2-1 | 99% | 1,006.3 | µg/mL | +/- 36.6121 |
| 38 | Dimethylphthalate | 131-11-3 | 358221L17K | 99% | 1,008.9 | µg/mL | +/- 36.7076 |
| 39 | 2,6-Dinitrotoluene | 606-20-2 | BCCG1833 | 99% | 1,006.6 | µg/mL | +/- 36.6257 |
| 40 | 1,2-Dinitrobenzene | 528-29-0 | RP240701RSR | 99% | 1,002.5 | µg/mL | +/- 36.4757 |
| 41 | Acenaphthene | 83-32-9 | MKCR7169 | 99% | 1,000.0 | µg/mL | +/- 36.3847 |
| 42 | 3-Nitroaniline | 99-09-2 | RP240708RSR | 99% | 1,004.6 | µg/mL | +/- 36.5530 |
| 43 | 2,4-Dinitrophenol | 51-28-5 | D240927RSR | ----% | 1,005.6 | µg/mL | +/- 36.5894 |
| 44 | Dibenzofuran | 132-64-9 | MKCN1772 | 99% | 1,003.5 | µg/mL | +/- 36.5120 |
| 45 | 2,4-Dinitrotoluene | 121-14-2 | 102869V26E | 99% | 1,008.3 | µg/mL | +/- 36.6849 |
| 46 | 4-Nitrophenol | 100-02-7 | 20241029-2-AN | 99% | 1,004.8 | µg/mL | +/- 36.5575 |
| 47 | 2,3,4,6-Tetrachlorophenol | 58-90-2 | PR-34476 | 99% | 1,005.8 | µg/mL | +/- 36.5939 |
| 48 | 2,3,5,6-Tetrachlorophenol | 935-95-5 | RP231219RSR | 99% | 1,006.4 | µg/mL | +/- 36.6166 |
| 49 | Fluorene | 86-73-7 | 10246250 | 98% | 1,000.7 | µg/mL | +/- 36.4102 |
| 50 | 4-Chlorophenyl phenyl ether | 7005-72-3 | MKCT7248 | 99% | 1,004.9 | µg/mL | +/- 36.5621 |
| 51 | Diethylphthalate | 84-66-2 | BCCJ6241 | 99% | 1,003.9 | µg/mL | +/- 36.5257 |
| 52 | 4-Nitroaniline | 100-01-6 | RP230111 | 99% | 1,006.6 | µg/mL | +/- 36.6257 |
| 53 | 4,6-Dinitro-2-methylphenol (Dinitro-o-cresol) | 534-52-1 | S241008RSR | 99% | 1,001.3 | µg/mL | +/- 36.4302 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 54 | Diphenylamine | 122-39-4 | MKCT1512 | 99% | 1,003.0 | µg/mL | +/- 36.4938 |
| 55 | Azobenzene | 103-33-3 | BCCK0887 | 99% | 1,002.4 | µg/mL | +/- 36.4711 |
| 56 | 4-Bromophenyl phenyl ether | 101-55-3 | STBH6361 | 99% | 1,008.8 | µg/mL | +/- 36.7031 |
| 57 | Hexachlorobenzene | 118-74-1 | 15458400 | 99% | 1,005.1 | µg/mL | +/- 36.5712 |
| 58 | Pentachlorophenol | 87-86-5 | RP240517RSR | 99% | 1,005.9 | µg/mL | +/- 36.5984 |
| 59 | Phenanthrene | 85-01-8 | MKCT3391 | 99% | 1,004.9 | µg/mL | +/- 36.5621 |
| 60 | Anthracene | 120-12-7 | 101492T18R | 99% | 1,005.1 | µg/mL | +/- 36.5712 |
| 61 | Carbazole | 86-74-8 | 15276700 | 99% | 1,005.4 | µg/mL | +/- 36.5803 |
| 62 | Di-n-butylphthalate | 84-74-2 | MKCN4337 | 99% | 1,006.3 | µg/mL | +/- 36.6121 |
| 63 | Fluoranthene | 206-44-0 | MKCQ4728 | 99% | 1,003.5 | µg/mL | +/- 36.5120 |
| 64 | Pyrene | 129-00-0 | BCCK2592 | 99% | 1,002.0 | µg/mL | +/- 36.4575 |
| 65 | Benzyl butyl phthalate | 85-68-7 | X12I018 | 99% | 1,007.5 | µg/mL | +/- 36.6576 |
| 66 | Bis(2-ethylhexyl)adipate | 103-23-1 | MKCM1988 | 99% | 1,005.9 | µg/mL | +/- 36.5984 |
| 67 | Benz(a)anthracene | 56-55-3 | I70012022BAA | 99% | 1,005.5 | µg/mL | +/- 36.5848 |
| 68 | Chrysene | 218-01-9 | RP241007RSR | 99% | 1,005.3 | µg/mL | +/- 36.5757 |
| 69 | Bis(2-ethylhexyl)phthalate | 117-81-7 | MKCS8065 | 99% | 1,007.5 | µg/mL | +/- 36.6576 |
| 70 | Di-n-octyl phthalate | 117-84-0 | 15566400 | 99% | 1,002.3 | µg/mL | +/- 36.4666 |
| 71 | Benzo(b)fluoranthene | 205-99-2 | 052013B | 99% | 1,004.1 | µg/mL | +/- 36.5348 |
| 72 | Benzo(k)fluoranthene | 207-08-9 | 012022K | 99% | 1,002.8 | µg/mL | +/- 36.4847 |
| 73 | Benzo(a)pyrene | 50-32-8 | NQLXA | 98% | 1,006.2 | µg/mL | +/- 36.6108 |
| 74 | Indeno(1,2,3-cd)pyrene | 193-39-5 | 12-JKL-118-9 | 97% | 1,001.8 | µg/mL | +/- 36.4490 |
| 75 | Dibenz(a,h)anthracene | 53-70-3 | 2-ASA-59-1 | 99% | 1,003.3 | µg/mL | +/- 36.5029 |
| 76 | Benzo(g,h,i)perylene | 191-24-2 | RP241014RSR | 98% | 1,003.8 | µg/mL | +/- 36.5217 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methylene chloride
**CAS #** 75-09-2
**Purity** 99%

**Tech Tips:**
N-Nitrosodiphenylamine (86-30-6) is prone to breakdown in the injection port and will be converted to Diphenylamine (122-39-4). When comparing the response of Diphenylamine to mixtures manufactured using N-Nitrosodiphenylamine, a difference in response will be observed. The ratio of the MW can be used to calculate the theoretical concentration of the N-Nitrosodiphenylamine.

# SHIPPING DOCUMENTS

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

ALLIANCE PROJECT NO.
QUOTE NO. Q1629
COC Number 2045896

**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: BETHPAGE
PROJECT MANAGER: E. VIVAUDOU
e-mail: ELEANOR.VIVAUDOU@AECOM.COM
PHONE: FAX:

**CLIENT BILLING INFORMATION**

BILL TO: E. VIVAUDOU PO#:
ADDRESS: 27 ELLIS PL
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

**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 EQUIS

**ANALYSIS**

1: VOCs 8260 2: 1,4 DIOXANE SIM 8270 3. 4 5 6 7 8 9

| ALLIANCE SAMPLE ID | PROJECT SAMPLE IDENTIFICATION | SAMPLE MATRIX | SAMPLE TYPE COMP | SAMPLE TYPE GRAB | SAMPLE COLLECTION DATE | SAMPLE COLLECTION TIME | # OF BOTTLES | PRESERVATIVES A/E 1 | PRESERVATIVES E 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. | TTTH1-20250320 | GW | | X | 3-20-25 | 0920 | 3 | 2 | 1 | | | | | | | | |
| 2. | TT162S1-20250320 | GW | | X | | 1135 | 3 | 2 | 1 | | | | | | | | |
| 3. | TT188S1-20250320 | GW | | X | | 1120 | 9 | 6 | 3 | | | | | | | | MS/MSD |
| 4. | RW09-MW01S-20250320 | GW | | X | | 1120 | 9 | 6 | 3 | | | | | | | | |
| 5. | RW09-MW01D1-20250320 | GW | | X | | 1135 | 3 | 2 | 1 | | | | | | | | |
| 6. | RW09-MW01D2-20250320 | GW | | X | | 1005 | 3 | 2 | 1 | | | | | | | | |
| 7. | RW09-MW01D3-20250320 | GW | | X | | 1003 | 3 | 2 | 1 | | | | | | | | |
| 8. | TT150S1-20250320 | GW | | X | | 1315 | 3 | 2 | 1 | | | | | | | | |
| 9. | FB03-20250321 | DW | | X | 3-21-25 | | 3 | 2 | 1 | | | | | | | | |
| 10. | TB | DW | | X | 3-14-25 | — | 2 | 2 | | | | | | | | | |

← Specify Preservatives
A-HCl D-NaOH
B-HN03 E-ICE
C-H2SO4 F-OTHER

**SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY**

| | DATE/TIME | RECEIVED BY | DATE/TIME |
|---|---|---|---|
| 1. RELINQUISHED BY SAMPLER: | 3-21-25 1310 | 1. | 3-21-25 |
| 2. RELINQUISHED BY SAMPLER: | DATE/TIME: | 2. RECEIVED BY: | |
| 3. RELINQUISHED BY SAMPLER: | DATE/TIME: 1715 3-21-25 | 3. RECEIVED BY: | |

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 3.1 °C
Comments:

Page 1 of 1
CLIENT: ☐ Hand Delivered ☐ Other
Shipment Complete ☐ YES ☐ NO

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WHITE - ALLIANCE COPY FOR RETURN TO CLIENT YELLOW - ALLIANCE COPY PINK - SAMPLER COPY

**From:** Wright, Stephen <Stephen.E.Wright@aecom.com>
**Sent:** Monday, March 24, 2025 1:31 PM
**To:** yazmeen@chemtech.net
**Cc:** Vivaudou, Eleanor
**Subject:** Re: Week 3 Bethpage, NY GW Sampling

Yes please...

---

**From:** Yazmeen Gomez <yazmeen@chemtech.net>
**Sent:** Monday, March 24, 2025 11:02 AM
**To:** Wright, Stephen <Stephen.E.Wright@aecom.com>
**Cc:** Vivaudou, Eleanor <Eleanor.Vivaudou@aecom.com>
**Subject:** RE: Week 3 Bethpage, NY GW Sampling

Good morning Stephen,

I wanted to confirm based off the quantity if you needed MS/MSD for both Sample 03 and 04?

**Best Regards,**


**Yazmeen Gomez**
**Sr. Project Manager**
**An Alliance Technical Group Company**
**Main:** 908-789-8900
**Direct:** 908-728-3147
**Address:** 284 Sheffield St, Ste 1, Mountainside, NJ 07092
www.alliancetg.com


---

**From:** Yazmeen Gomez <yazmeen@chemtech.net>
**Sent:** Monday, March 17, 2025 3:02 PM
**To:** 'Wright, Stephen' <Stephen.E.Wright@aecom.com>
**Cc:** 'Vivaudou, Eleanor' <Eleanor.Vivaudou@aecom.com>
**Subject:** RE: Week 3 Bethpage, NY GW Sampling

Hi Stephen,

Bottle order and pick up for Wednesday – and Pick up for Friday are confirmed as requested.

**Best Regards,**

**Yazmeen Gomez**
**Sr. Project Manager**
**An Alliance Technical Group Company**
**Main:** 908-789-8900
**Direct:** 908-728-3147
**Address:** 284 Sheffield St, Ste 1, Mountainside, NJ 07092
www.alliancetg.com

**From:** Wright, Stephen <Stephen.E.Wright@aecom.com>
**Sent:** Monday, March 17, 2025 2:57 PM
**To:** yazmeen@chemtech.net
**Cc:** Vivaudou, Eleanor <Eleanor.Vivaudou@aecom.com>
**Subject:** Week 3 Bethpage, NY GW Sampling

Hi Yazmeen,

We will need courier pickups at the Bethpage site on Wednesday (3/19) at 2PM and Friday (3/21) at 1 PM. I did a bottle count today and we will need one more case of HCL VOAs and one box of amber liters on Wednesday (as well as labels). Hopefully, all sampling for the event will be completed by Friday's pickup.

Let me know if you have any questions...

Steve

284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

# 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 |

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

# LOGIN REPORT/SAMPLE TRANSFER

**Order ID :** Q1629 AECO15
**Client Name :** AECOM Technical Service
**Client Contact :** Eleanor Vivadou
**Invoice Name :** AECOM Technical Service
**Invoice Contact :** Eleanor Vivadou

**Order Date :** 3/21/2025 1:55:00 PM
**Project Name :** NAVFAC NWIRP Bethpag
**Receive DateTime :** ~~3/24/2025 4:15:00~~ PM
**Purchase Order :** 3/21 17:15

**Project Mgr :** YAZMEEN
**Report Type :** ~~Results Only~~ NYS Cat B
**EDD Type :** EQUIS
**Hard Copy Date :**
**Date Signoff :** 3/24/2025 10:50:10 AM

| LAB ID | CLIENT ID | MATRIX | SAMPLE DATE | SAMPLE TIME | TEST | TEST GROUP | METHOD | FAX DATE | DUE DATES |
|---|---|---|---|---|---|---|---|---|---|
| Q1629-01 | TT174I1-20250320 | Water | 03/20/2025 | 09:20 | | | | | |
| | | | | | VOCMS Group1 | | 8260-Low | | 10 Bus. Days |
| Q1629-02 | TT162S1-20250320 | Water | 03/20/2025 | 11:35 | | | | | |
| | | | | | VOCMS Group1 | | 8260-Low | | 10 Bus. Days |
| Q1629-03 | TT188S1-20250320 | Water | 03/20/2025 | 11:20 | | | | | |
| | | | | | VOCMS Group1 | | 8260-Low | | 10 Bus. Days |
| Q1629-04 | Q1629-03MS | Water | 03/20/2025 | 11:20 | | | | | |
| | | | | | VOCMS Group1 | | 8260-Low | | 10 Bus. Days |
| Q1629-05 | Q1629-03MSD | Water | 03/20/2025 | 11:20 | | | | | |
| | | | | | VOCMS Group1 | | 8260-Low | | 10 Bus. Days |
| Q1629-07 | RW09-MW01D1-20250320 | Water | 03/20/2025 | 11:35 | | | | | |
| | | | | | VOCMS Group1 | | 8260-Low | | 10 Bus. Days |
| Q1629-08 | RW09-MW01D2-20250320 | Water | 03/20/2025 | 10:05 | | | | | |
| | | | | | VOCMS Group1 | | 8260-Low | | 10 Bus. Days |
| Q1629-09 | RW09-MW01D3-20250320 | Water | 03/20/2025 | 10:03 | | | | | |

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

# LOGIN REPORT/SAMPLE TRANSFER

**Order ID :** Q1629 AECO15
**Client Name :** AECOM Technical Service
**Client Contact :** Eleanor Vivadou
**Invoice Name :** AECOM Technical Service
**Invoice Contact :** Eleanor Vivadou

**Order Date :** 3/21/2025 1:55:00 PM
**Project Name :** NAVFAC NWIRP Bethpage
**Receive DateTime :** ~~3/24/2025 4:15:00~~ PM
**Purchase Order :** 3/21 17:15

**Project Mgr :** YAZMEEN
**Report Type :** ~~Results Only~~ NYS ASP B
**EDD Type :** EQUIS
**Hard Copy Date :**
**Date Signoff :** 3/24/2025 10:50:10 AM

| LAB ID | CLIENT ID | MATRIX | SAMPLE DATE | SAMPLE TIME | TEST | TEST GROUP | METHOD | FAX DATE | DUE DATES |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | VOCMS Group1 | | 8260-Low | 10 Bus. Days | |
| Q1629-10 | TT150S1-20250320 | Water | 03/20/2025 | 13:15 | | | | | |
| | | | | | VOCMS Group1 | | 8260-Low | 10 Bus. Days | |
| Q1629-11 | FB03-20250321 | Water | 03/21/2025 | 00:00 | | | | | |
| | | | | | VOCMS Group1 | | 8260-Low | 10 Bus. Days | |
| Q1629-12 | TB | Water | 03/21/2025 | 00:00 | | | | | |
| | | | | | VOCMS Group1 | | 8260-Low | 10 Bus. Days | |
| Q1629-14 | RW09-MW01S-20250320 | Water | 03/20/2025 | 11:20 | | | | | |
| | | | | | VOCMS Group1 | | 8260-Low | 10 Bus. Days | |
| Q1629-15 | Q1629-14MS | Water | 03/20/2025 | 11:20 | | | | | |
| | | | | | VOCMS Group1 | | 8260-Low | 10 Bus. Days | |
| Q1629-16 | Q1629-14MSD | Water | 03/20/2025 | 11:20 | | | | | |
| | | | | | VOCMS Group1 | | 8260-Low | 10 Bus. Days | |

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

# LOGIN REPORT/SAMPLE TRANSFER

**Order ID :** Q1629 AECO15
**Client Name :** AECOM Technical Service
**Client Contact :** Eleanor Vivadou
**Invoice Name :** AECOM Technical Service
**Invoice Contact :** Eleanor Vivadou

**Order Date :** 3/21/2025 1:55:00 PM
**Project Name :** NAVFAC NWIRP Bethpag
**Receive DateTime :** ~~3/24/2025 4:15:00~~ PM
**Purchase Order :** 3|21 17:15

**Project Mgr :** YAZMEEN
**Report Type :** ~~Results Only~~ NYS ASP B
**EDD Type :** EQUIS
**Hard Copy Date :**
**Date Signoff :** 3/24/2025 10:50:10 AM

| LAB ID | CLIENT ID | MATRIX | SAMPLE DATE | SAMPLE TIME | TEST | TEST GROUP | METHOD | FAX DATE | DUE DATES |
|---|---|---|---|---|---|---|---|---|---|

**Relinguished By :**
**Date / Time :** 3-24-25 1010

**Received By :**
**Date / Time :** 03/24/25 10:10
**Storage Area :** VOA Refridgerator Room

Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036557.D
Acq On : 10 Mar 2025 11:42
Operator : RC/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.1

Quant Time: Mar 10 16:00:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:54:23 2025
Response via : Initial Calibration

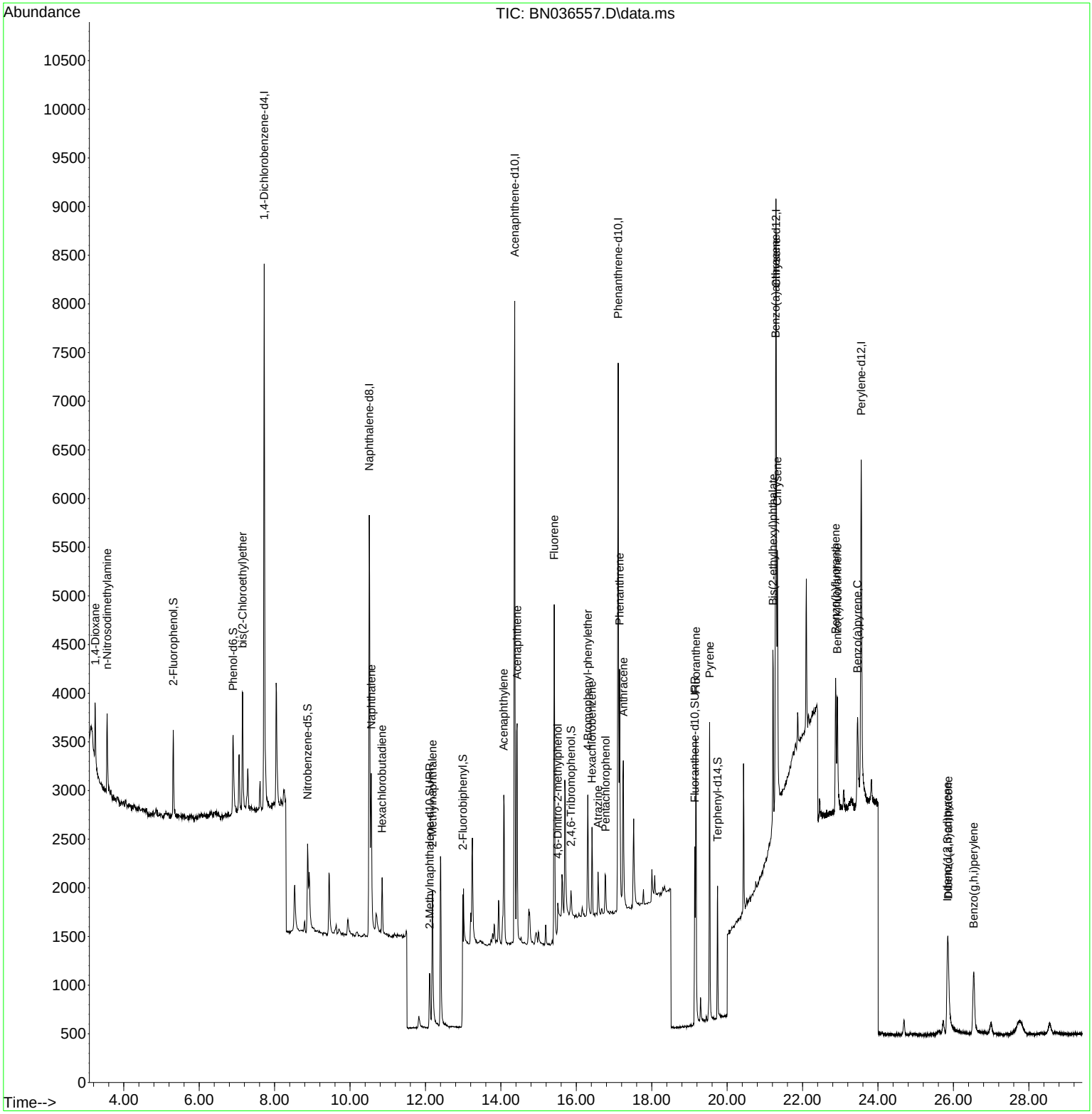
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.724 | 152 | 2755 | 0.400 | ng | | 0.00 |
| 7) Naphthalene-d8 | 10.509 | 136 | 6575 | 0.400 | ng | | 0.00 |
| 13) Acenaphthene-d10 | 14.366 | 164 | 3958 | 0.400 | ng | | 0.00 |
| 19) Phenanthrene-d10 | 17.111 | 188 | 8269 | 0.400 | ng | | 0.00 |
| 29) Chrysene-d12 | 21.295 | 240 | 5886 | 0.400 | ng | | 0.00 |
| 35) Perylene-d12 | 23.554 | 264 | 5207 | 0.400 | ng | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 4) 2-Fluorophenol | 5.312 | 112 | 641 | 0.100 | ng | | 0.00 |
| 5) Phenol-d6 | 6.901 | 99 | 856 | 0.108 | ng | | 0.00 |
| 8) Nitrobenzene-d5 | 8.875 | 82 | 940 | 0.131 | ng | | 0.00 |
| 11) 2-Methylnaphthalene-d10 | 12.111 | 152 | 1079 | 0.110 | ng | | 0.00 |
| 14) 2,4,6-Tribromophenol | 15.858 | 330 | 179 | 0.100 | ng | | 0.00 |
| 15) 2-Fluorobiphenyl | 12.993 | 172 | 2185 | 0.095 | ng | | 0.00 |
| 27) Fluoranthene-d10 | 19.141 | 212 | 2144 | 0.101 | ng | | 0.00 |
| 31) Terphenyl-d14 | 19.745 | 244 | 1416 | 0.100 | ng | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.247 | 88 | 534 | 0.175 | ng | # | 78 |
| 3) n-Nitrosodimethylamine | 3.557 | 42 | 766 | 0.124 | ng | # | 95 |
| 6) bis(2-Chloroethyl)ether | 7.154 | 93 | 982 | 0.120 | ng | | 98 |
| 9) Naphthalene | 10.562 | 128 | 2254 | 0.117 | ng | # | 94 |
| 10) Hexachlorobutadiene | 10.850 | 225 | 486 | 0.107 | ng | # | 100 |
| 12) 2-Methylnaphthalene | 12.187 | 142 | 1331 | 0.108 | ng | | 96 |
| 16) Acenaphthylene | 14.078 | 152 | 1862 | 0.100 | ng | | 99 |
| 17) Acenaphthene | 14.430 | 154 | 1244 | 0.102 | ng | | 99 |
| 18) Fluorene | 15.414 | 166 | 1612 | 0.097 | ng | | 99 |
| 20) 4,6-Dinitro-2-methylph... | 15.510 | 198 | 122 | 0.204 | ng | # | 24 |
| 21) 4-Bromophenyl-phenylether | 16.304 | 248 | 502 | 0.097 | ng | | 95 |
| 22) Hexachlorobenzene | 16.416 | 284 | 632 | 0.101 | ng | | 98 |
| 23) Atrazine | 16.578 | 200 | 400 | 0.096 | ng | # | 90 |
| 24) Pentachlorophenol | 16.776 | 266 | 290 | 0.102 | ng | | 98 |
| 25) Phenanthrene | 17.148 | 178 | 2459 | 0.099 | ng | | 99 |
| 26) Anthracene | 17.248 | 178 | 2121 | 0.095 | ng | | 100 |
| 28) Fluoranthene | 19.174 | 202 | 2772 | 0.099 | ng | | 97 |
| 30) Pyrene | 19.536 | 202 | 2862 | 0.099 | ng | | 100 |
| 32) Benzo(a)anthracene | 21.286 | 228 | 2044 | 0.100 | ng | | 94 |
| 33) Chrysene | 21.331 | 228 | 2187 | 0.098 | ng | | 93 |
| 34) Bis(2-ethylhexyl)phtha... | 21.214 | 149 | 1760 | 0.121 | ng | | 96 |
| 36) Indeno(1,2,3-cd)pyrene | 25.841 | 276 | 1510 | 0.080 | ng | | 98 |
| 37) Benzo(b)fluoranthene | 22.876 | 252 | 1707 | 0.090 | ng | # | 62 |
| 38) Benzo(k)fluoranthene | 22.923 | 252 | 1958 | 0.098 | ng | # | 62 |
| 39) Benzo(a)pyrene | 23.458 | 252 | 1419 | 0.089 | ng | # | 51 |
| 40) Dibenzo(a,h)anthracene | 25.861 | 278 | 1163 | 0.079 | ng | # | 59 |
| 41) Benzo(g,h,i)perylene | 26.539 | 276 | 1482 | 0.089 | ng | # | 84 |

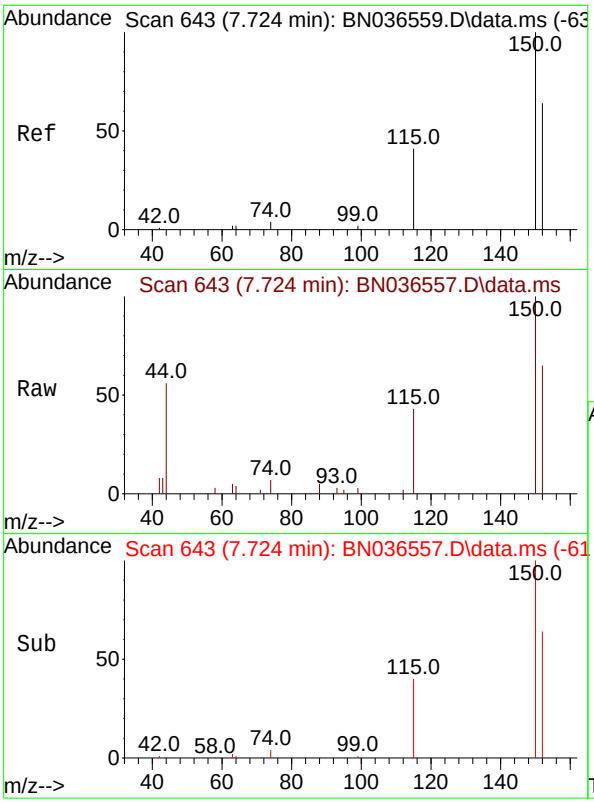
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : BN036557.D
Acq On : 10 Mar 2025 11:42
Operator : RC/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.1

Quant Time: Mar 10 16:00:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:54:23 2025
Response via : Initial Calibration



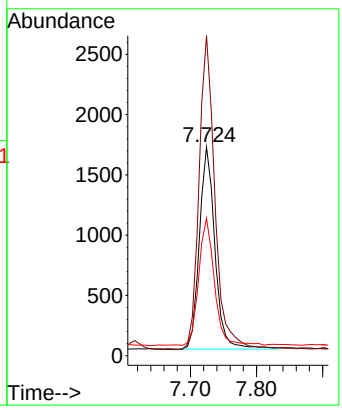


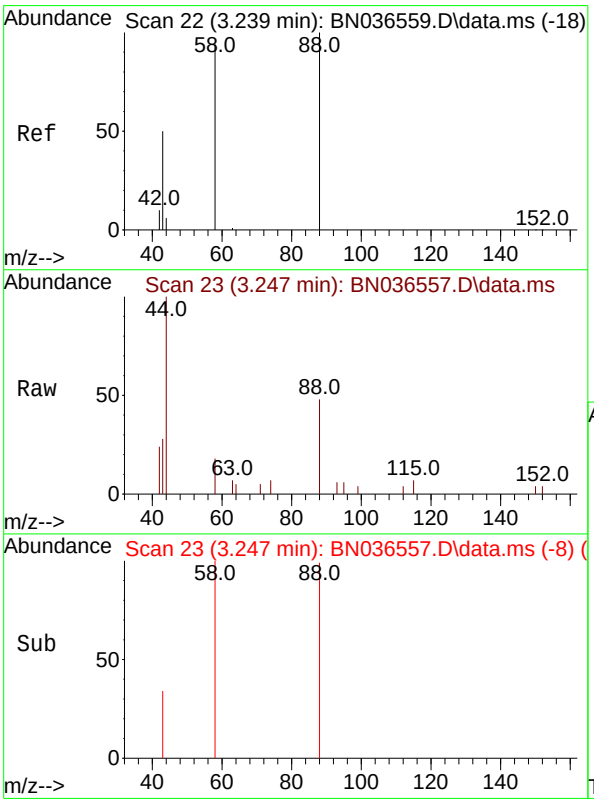

#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 6
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.1

Tgt Ion:152 Resp: 2755

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 153.3 | 123.7 | 185.5 |
| 115 | 65.8 | 54.3 | 81.5 |

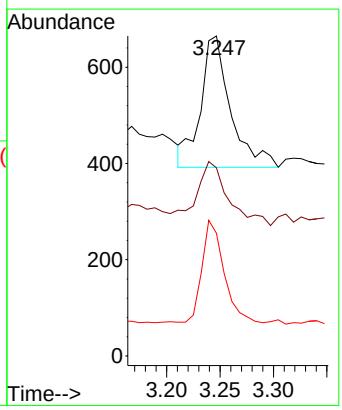


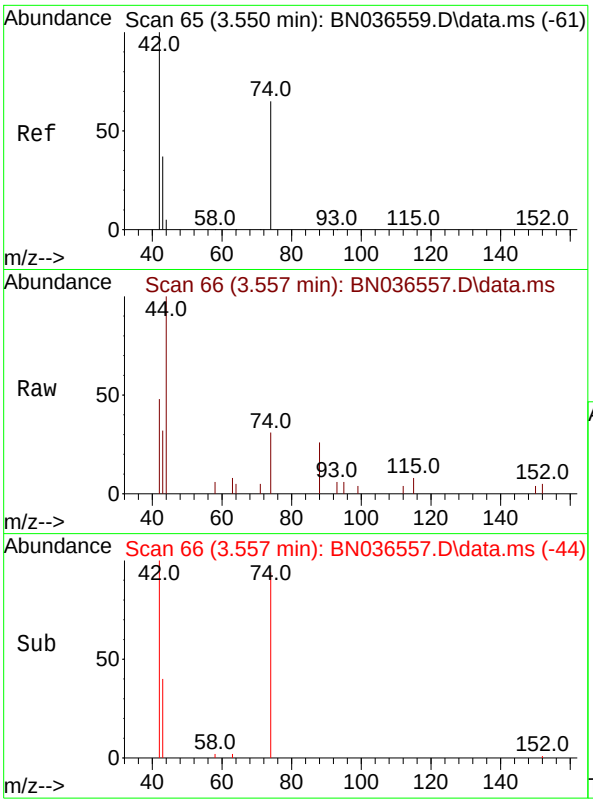




#2
1,4-Dioxane
Concen: 0.175 ng
RT: 3.247 min Scan# 23
Delta R.T. 0.007 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion: 88 Resp: 534

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 53.0 | 37.8 | 56.8 |
| 58 | 57.3 | 67.4 | 101.2# |



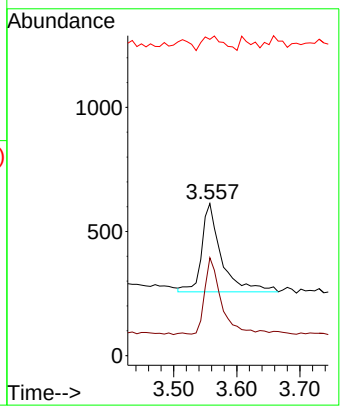


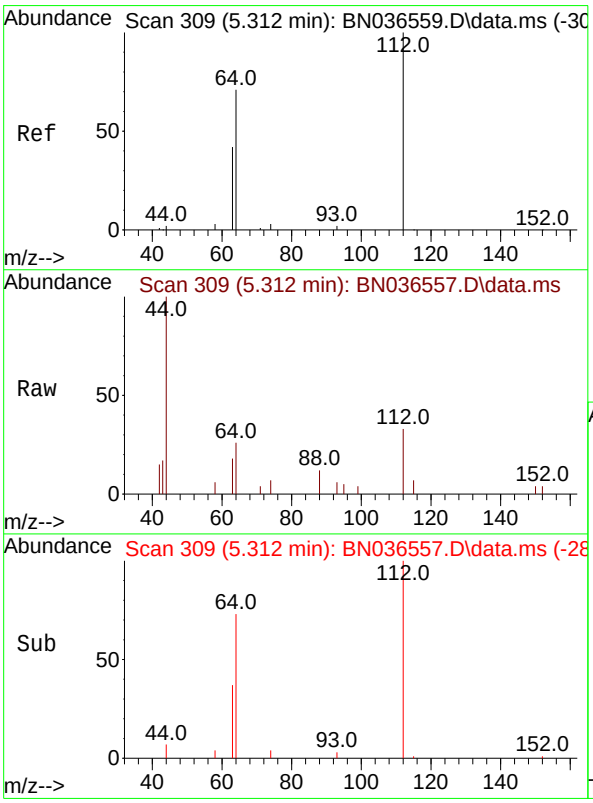

#3
n-Nitrosodimethylamine
Concen: 0.124 ng
RT: 3.557 min Scan# 6
Delta R.T. 0.007 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.1

Tgt Ion: 42 Resp: 766

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 73.0 | 60.6 | 90.8 |
| 44 | 16.6 | 6.3 | 9.5# |

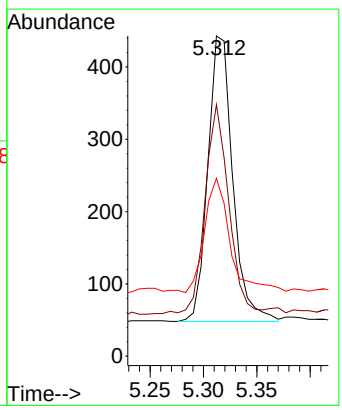


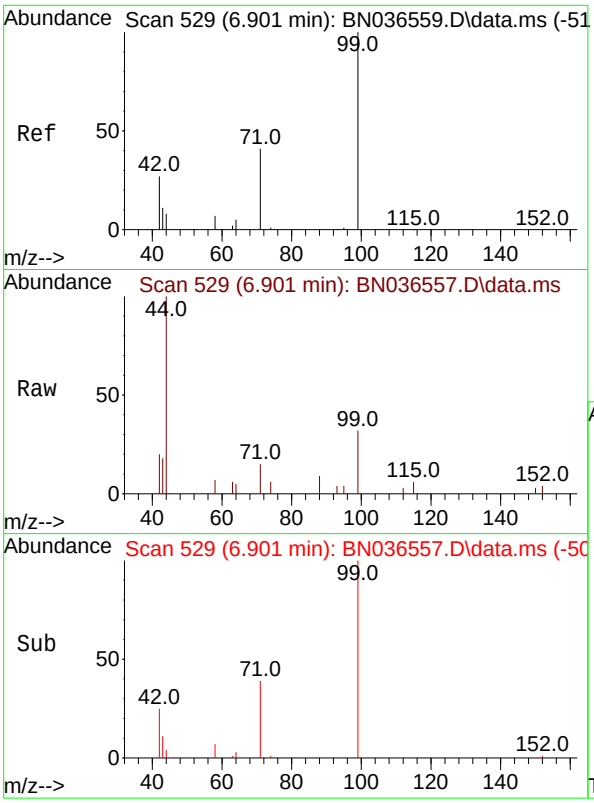




#4
2-Fluorophenol
Concen: 0.100 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:112 Resp: 641

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 70.4 | 53.1 | 79.7 |
| 63 | 40.9 | 31.8 | 47.8 |



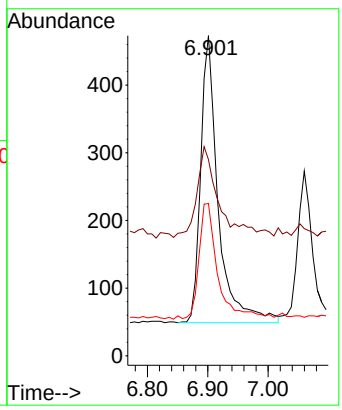


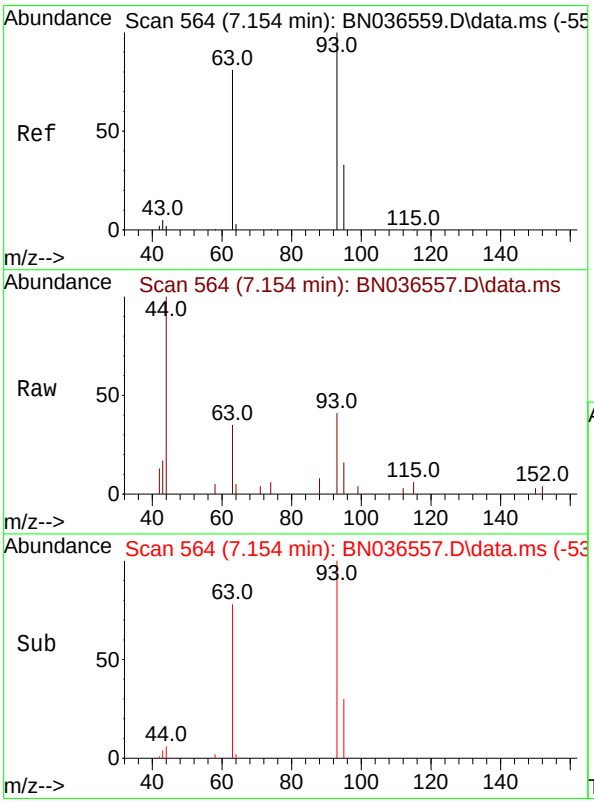

#5
Phenol-d6
Concen: 0.108 ng
RT: 6.901 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.1

Tgt Ion: 99 Resp: 856

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 39.8 | 26.5 | 39.7# |
| 71 | 42.8 | 34.1 | 51.1 |

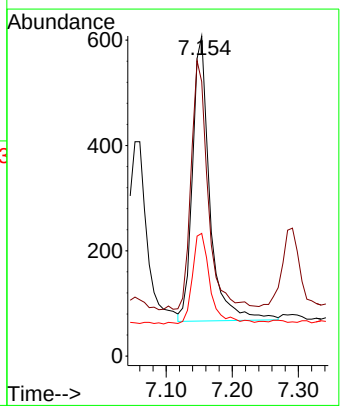


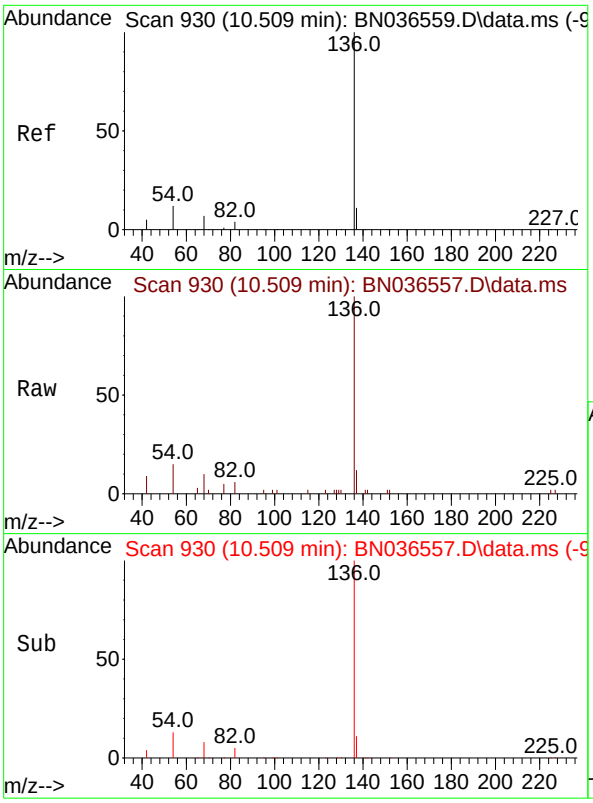




#6
bis(2-Chloroethyl)ether
Concen: 0.120 ng
RT: 7.154 min Scan# 564
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion: 93 Resp: 982

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 86.7 | 67.7 | 101.5 |
| 95 | 33.0 | 25.6 | 38.4 |



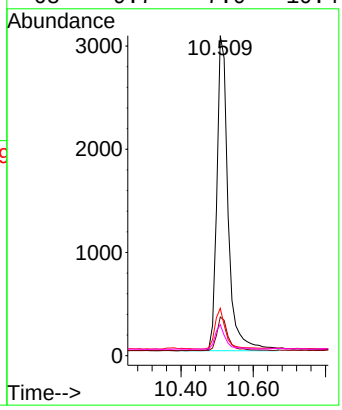


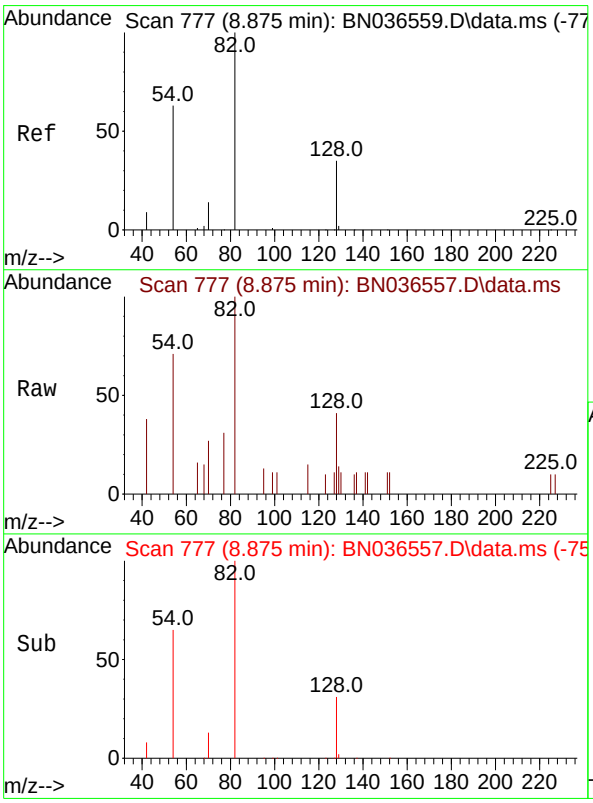

#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.1

Tgt Ion:136 Resp: 6575

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 12.1 | 10.3 | 15.5 |
| 54 | 14.8 | 11.5 | 17.3 |
| 68 | 9.7 | 7.0 | 10.4 |

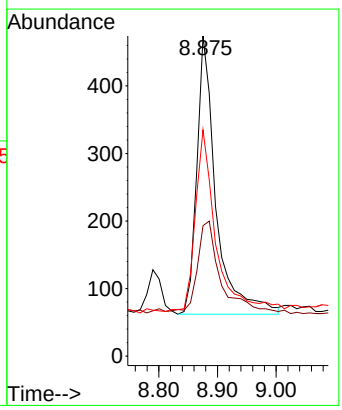


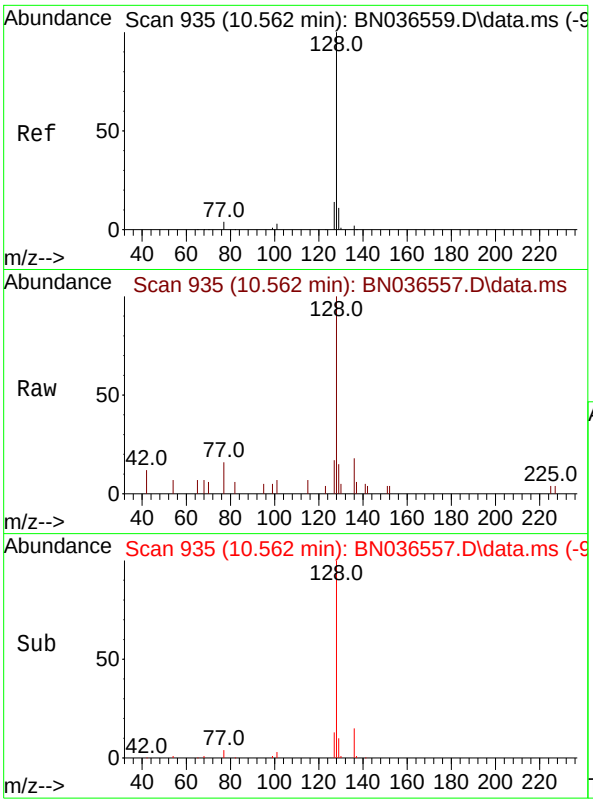




#8
Nitrobenzene-d5
Concen: 0.131 ng
RT: 8.875 min Scan# 777
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion: 82 Resp: 940

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 40.7 | 30.6 | 45.8 |
| 54 | 70.7 | 52.2 | 78.4 |



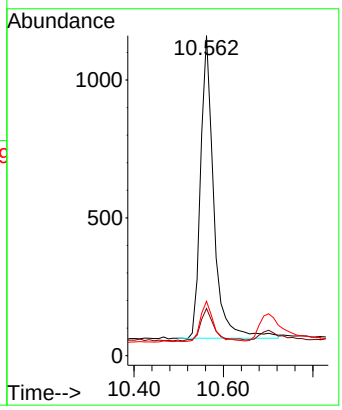


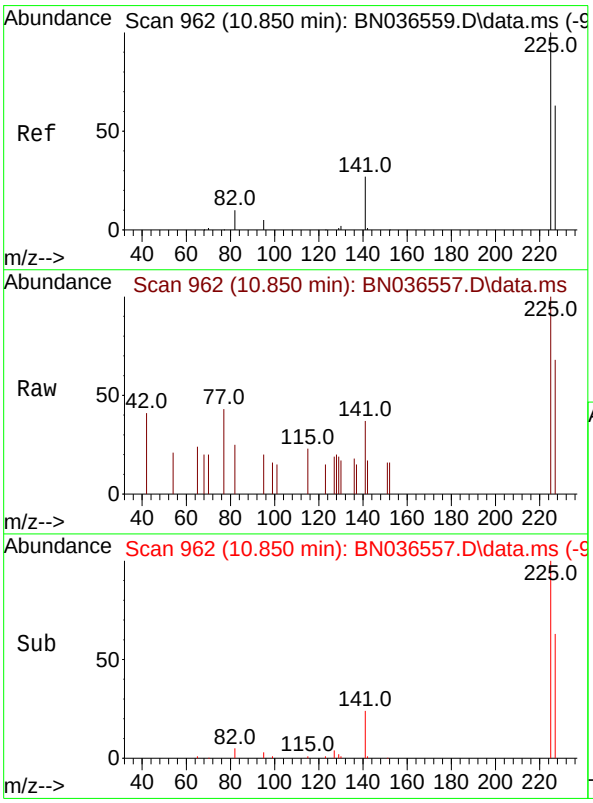

#9
Naphthalene
Concen: 0.117 ng
RT: 10.562 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.1

Tgt Ion:128 Resp: 2254

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 14.7 | 9.8 | 14.6# |
| 127 | 17.0 | 11.8 | 17.8 |

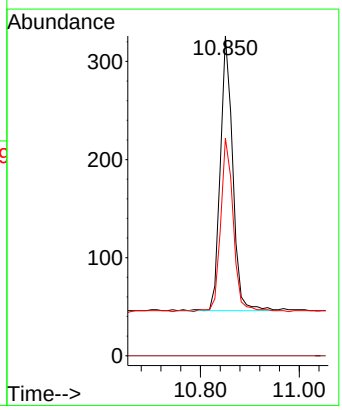


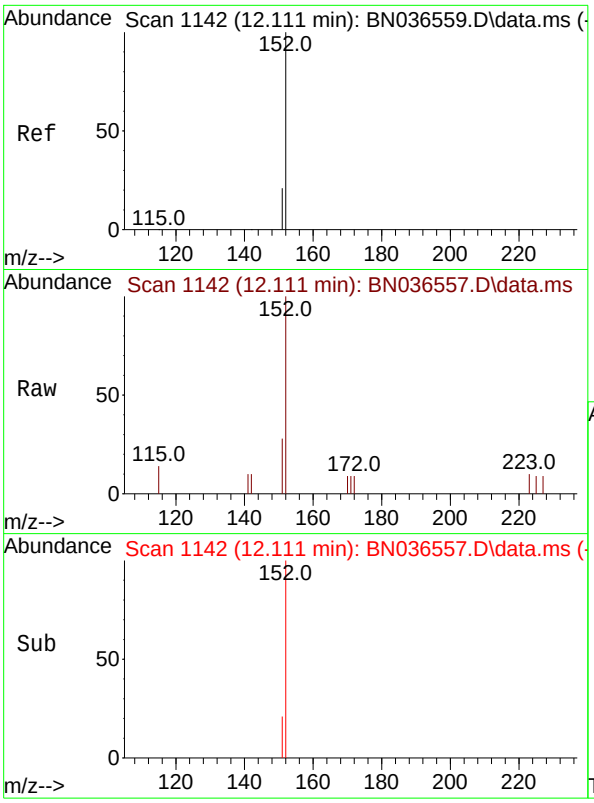




#10
Hexachlorobutadiene
Concen: 0.107 ng
RT: 10.850 min Scan# 962
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:225 Resp: 486

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 0.0 | 0.0 | 0.0 |
| 227 | 64.8 | 51.8 | 77.8 |



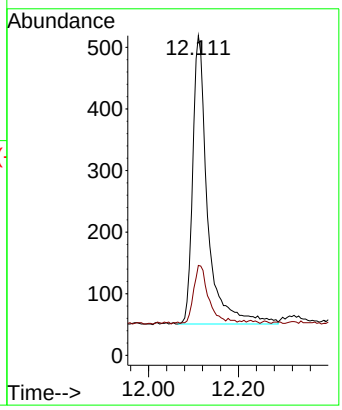


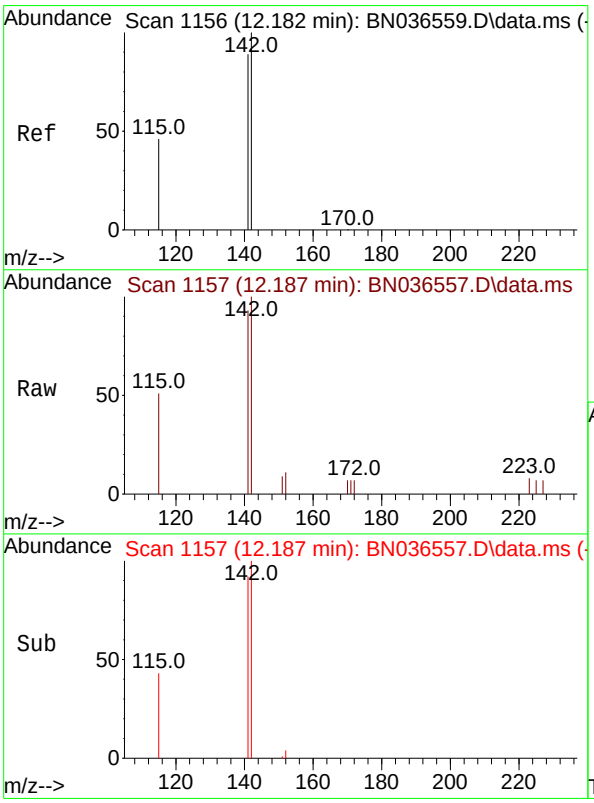

#11
2-Methylnaphthalene-d10
Concen: 0.110 ng
RT: 12.111 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.1

Tgt Ion:152 Resp: 1079

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 19.5 | 17.0 | 25.6 |

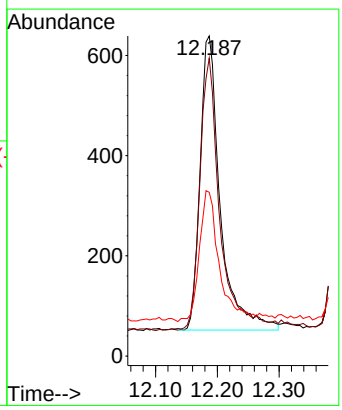


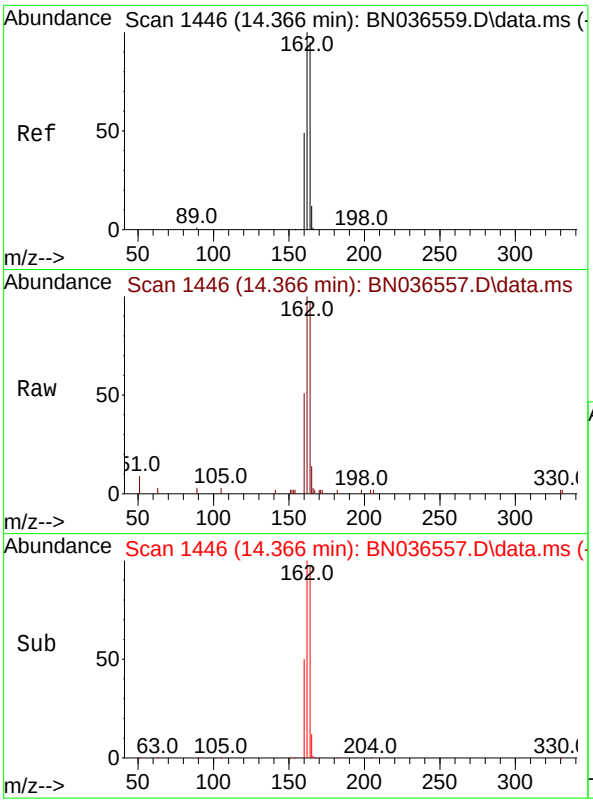




#12
2-Methylnaphthalene
Concen: 0.108 ng
RT: 12.187 min Scan# 1157
Delta R.T. 0.005 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:142 Resp: 1331

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 93.1 | 71.7 | 107.5 |
| 115 | 51.2 | 38.3 | 57.5 |



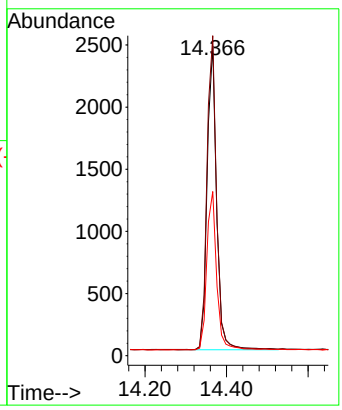


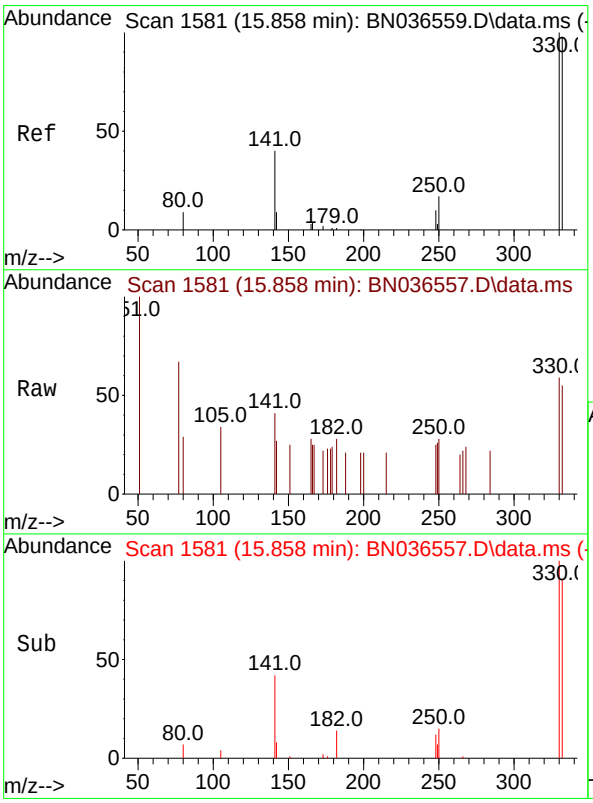

#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.1

Tgt Ion:164 Resp: 3958

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 103.3 | 84.2 | 126.2 |
| 160 | 53.0 | 42.2 | 63.2 |

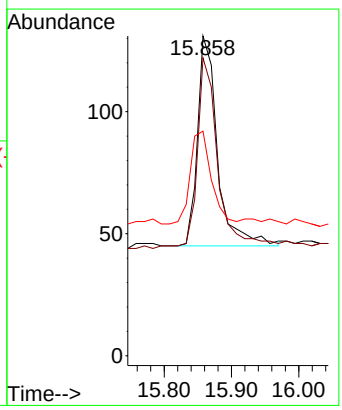


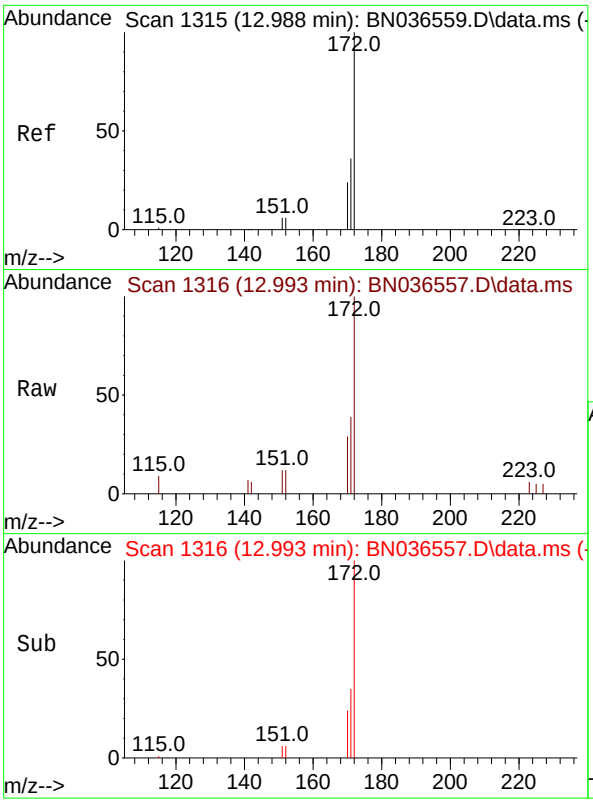




#14
2,4,6-Tribromophenol
Concen: 0.100 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:330 Resp: 179

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 96.1 | 75.2 | 112.8 |
| 141 | 46.4 | 43.4 | 65.2 |



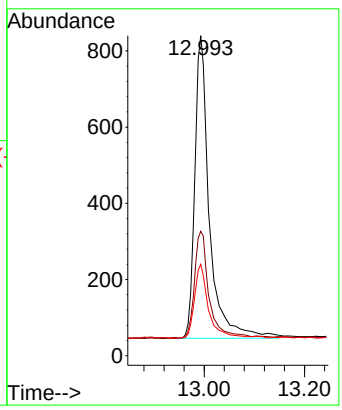


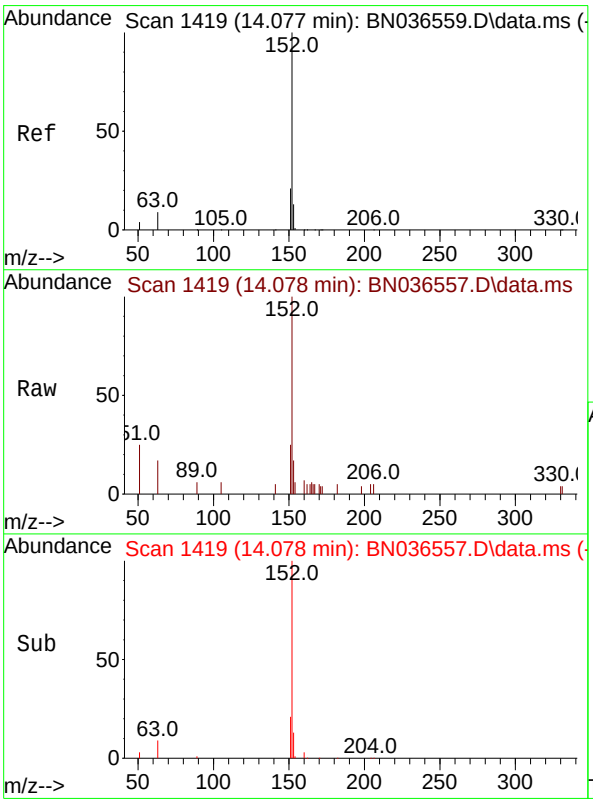

#15
2-Fluorobiphenyl
Concen: 0.095 ng
RT: 12.993 min Scan# 1
Delta R.T. 0.005 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.1

Tgt Ion:172 Resp: 2185

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 38.9 | 29.5 | 44.3 |
| 170 | 28.6 | 20.2 | 30.4 |

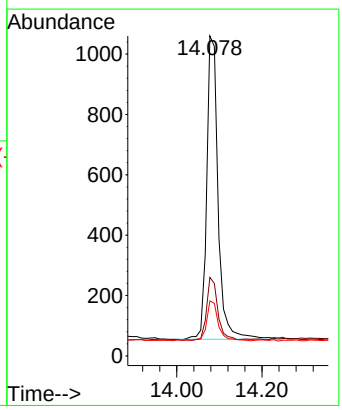


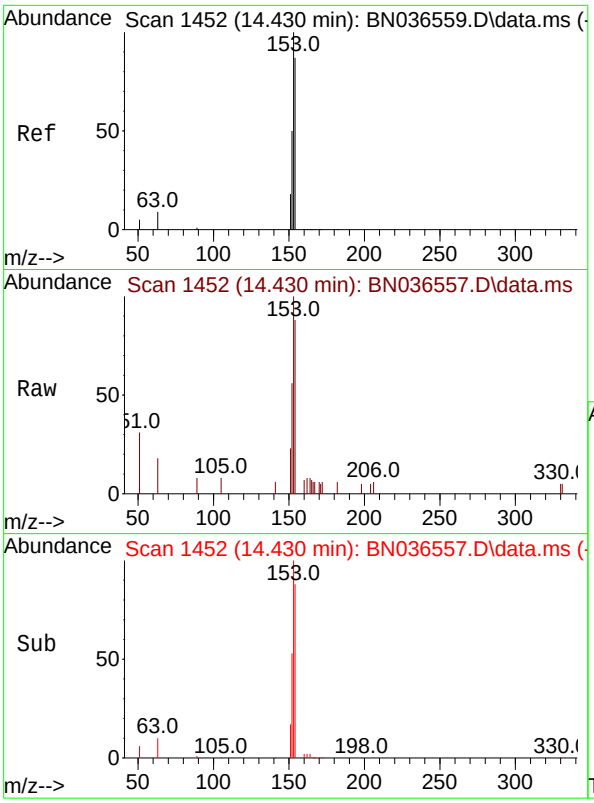




#16
Acenaphthylene
Concen: 0.100 ng
RT: 14.078 min Scan# 1419
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:152 Resp: 1862

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.2 | 16.2 | 24.4 |
| 153 | 14.1 | 10.6 | 15.8 |



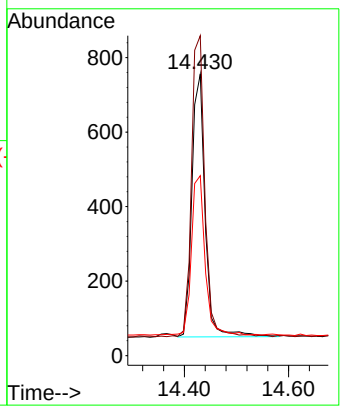


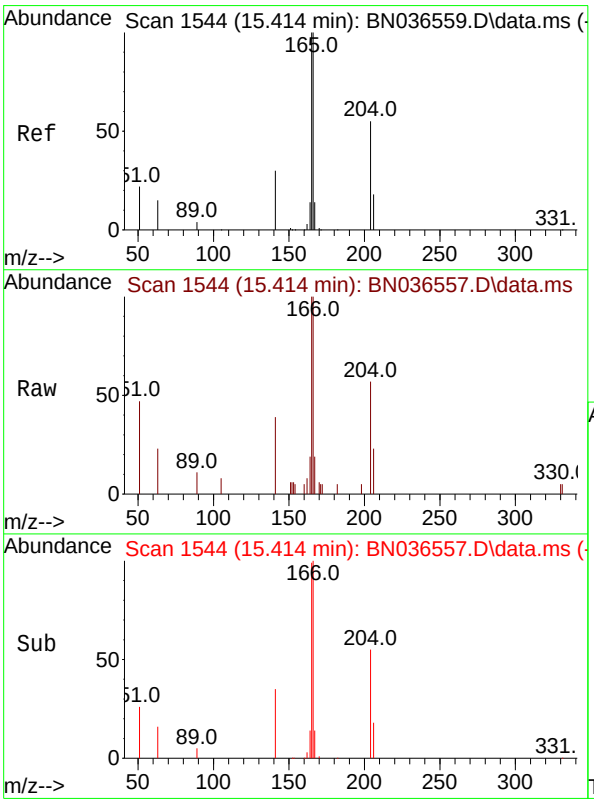

#17
Acenaphthene
Concen: 0.102 ng
RT: 14.430 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.1

Tgt Ion:154 Resp: 1244

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 115.9 | 94.1 | 141.1 |
| 152 | 62.5 | 49.8 | 74.6 |

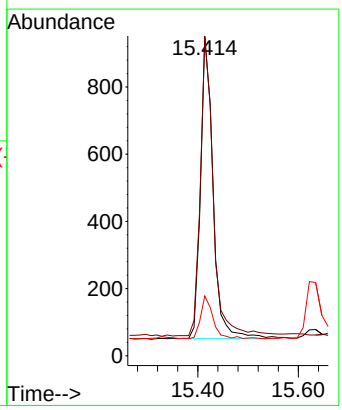


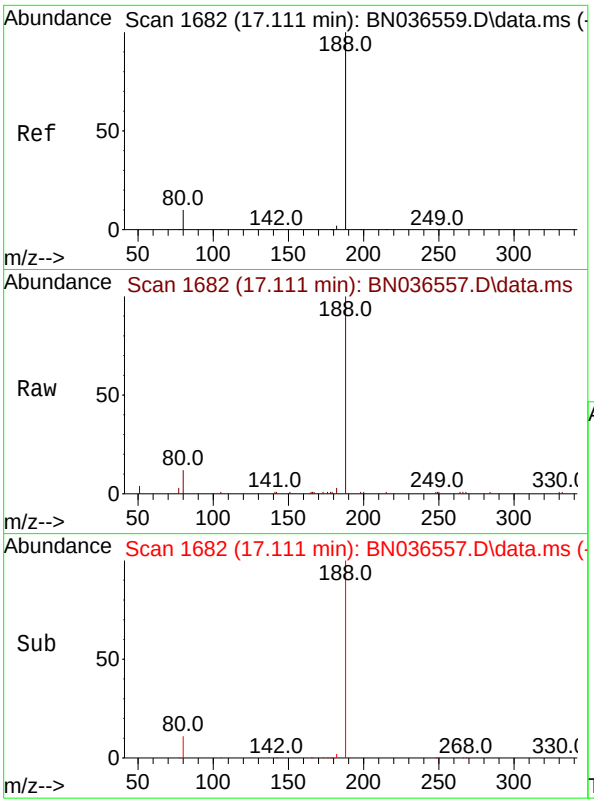




#18
Fluorene
Concen: 0.097 ng
RT: 15.414 min Scan# 1544
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:166 Resp: 1612

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 100.9 | 79.8 | 119.8 |
| 167 | 13.9 | 10.6 | 15.8 |



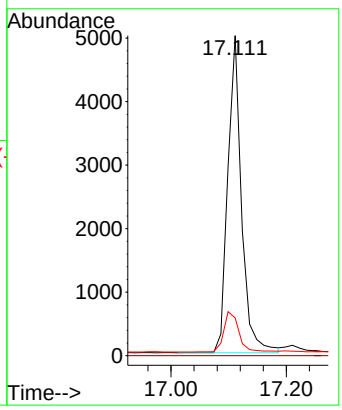


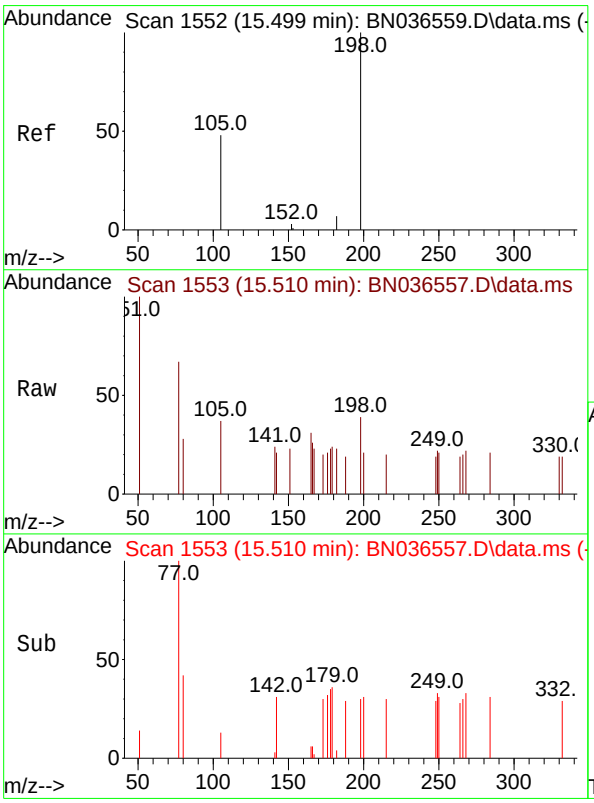

#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.111 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.1

Tgt Ion:188 Resp: 8269

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 11.8 | 8.8 | 13.2 |

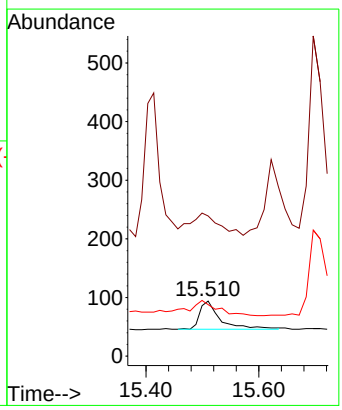


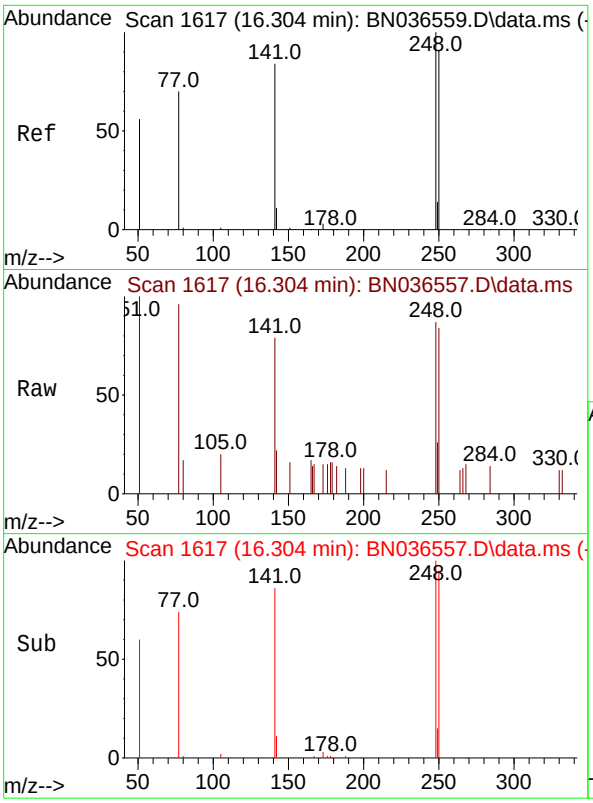




#20
4,6-Dinitro-2-methylphenol
Concen: 0.204 ng
RT: 15.510 min Scan# 1553
Delta R.T. 0.011 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:198 Resp: 122

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 198 | 100 | | |
| 51 | 254.3 | 107.9 | 161.9# |
| 105 | 93.6 | 56.2 | 84.2# |



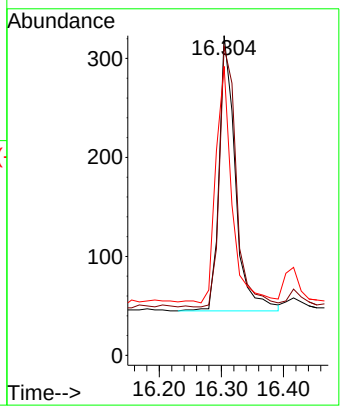


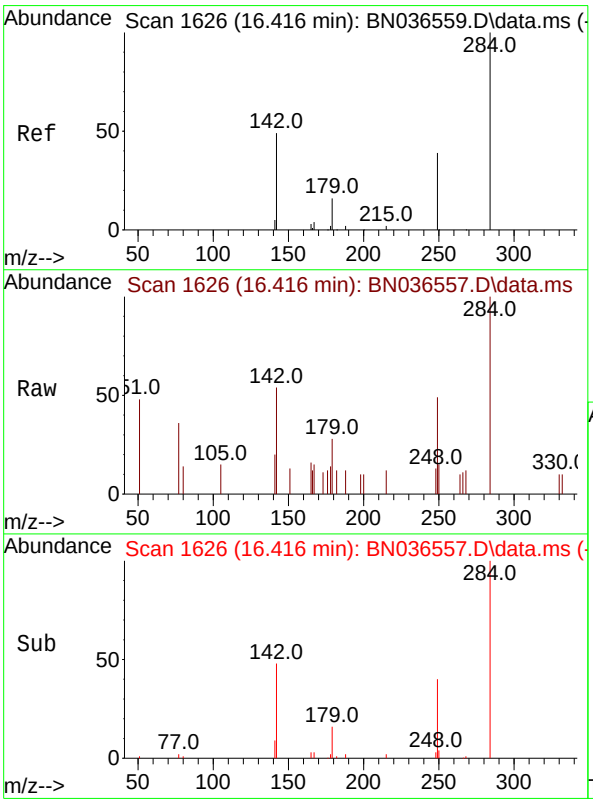

#21
4-Bromophenyl-phenylether
Concen: 0.097 ng
RT: 16.304 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.1

Tgt Ion:248 Resp: 502

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 96.6 | 73.0 | 109.6 |
| 141 | 90.4 | 68.6 | 103.0 |

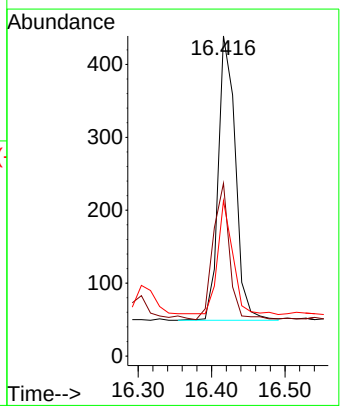


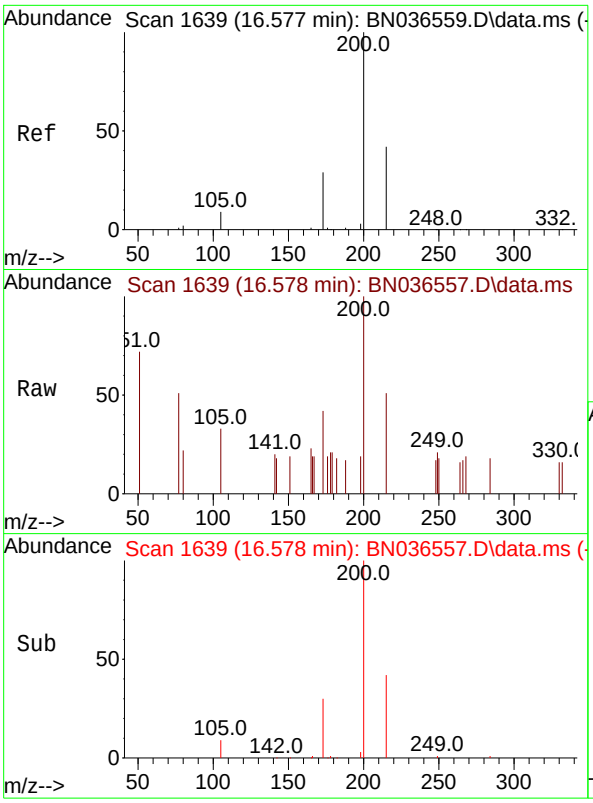




#22
Hexachlorobenzene
Concen: 0.101 ng
RT: 16.416 min Scan# 1626
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:284 Resp: 632

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 45.7 | 37.0 | 55.4 |
| 249 | 37.2 | 28.1 | 42.1 |



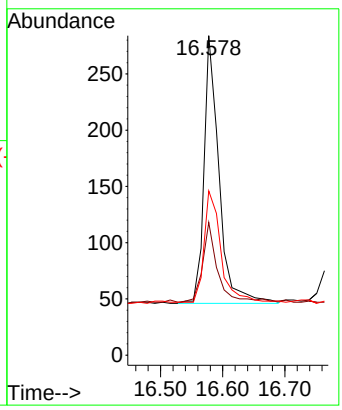


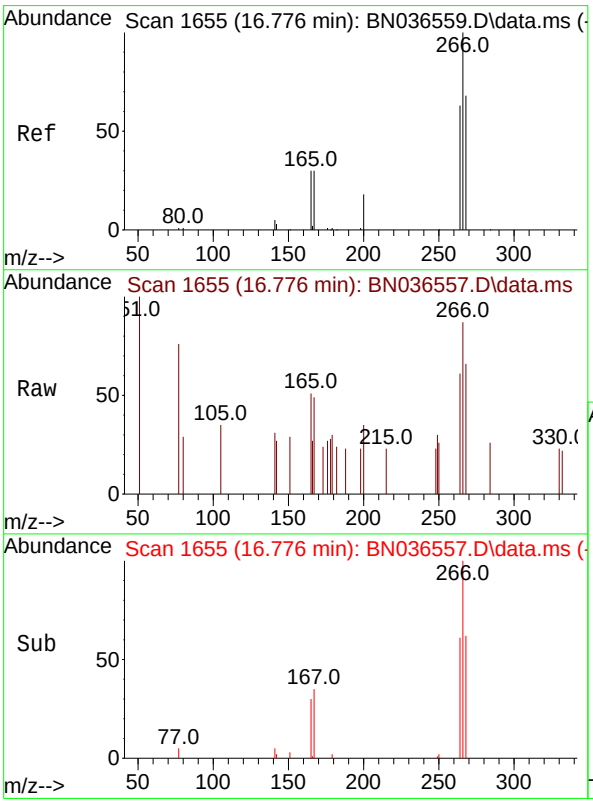

#23
Atrazine
Concen: 0.096 ng
RT: 16.578 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.1

Tgt Ion:200 Resp: 400

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 173 | 41.5 | 27.3 | 40.9# |
| 215 | 51.4 | 36.8 | 55.2 |

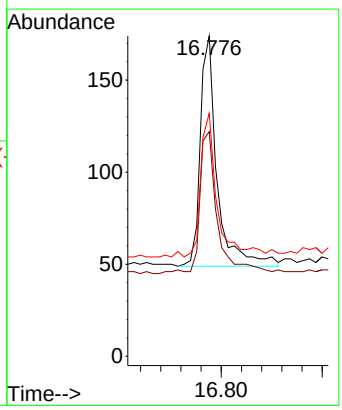


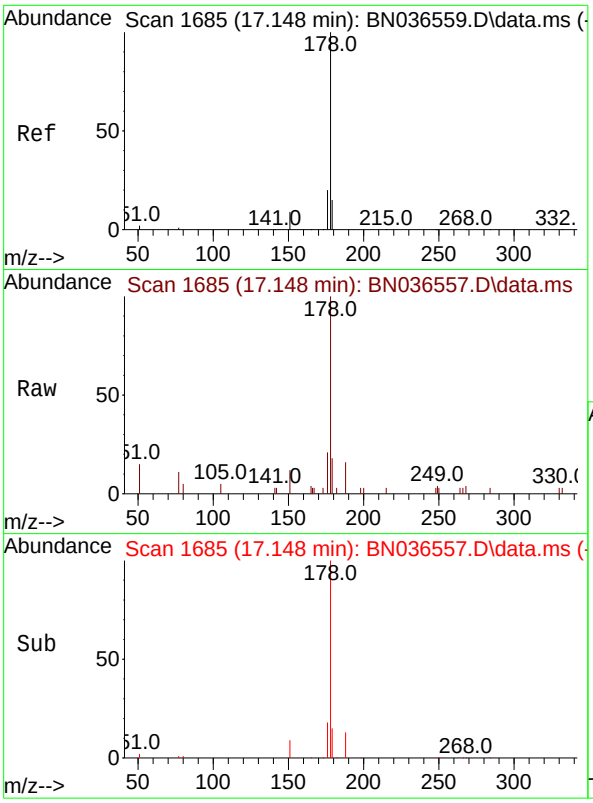




#24
Pentachlorophenol
Concen: 0.102 ng
RT: 16.776 min Scan# 1655
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:266 Resp: 290

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 264 | 64.8 | 49.6 | 74.4 |
| 268 | 62.8 | 50.9 | 76.3 |



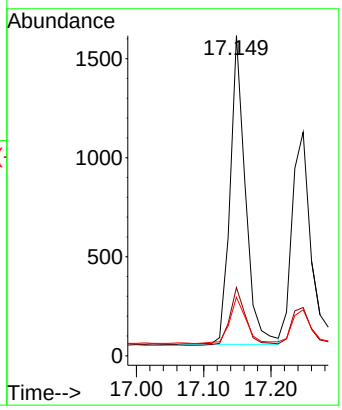


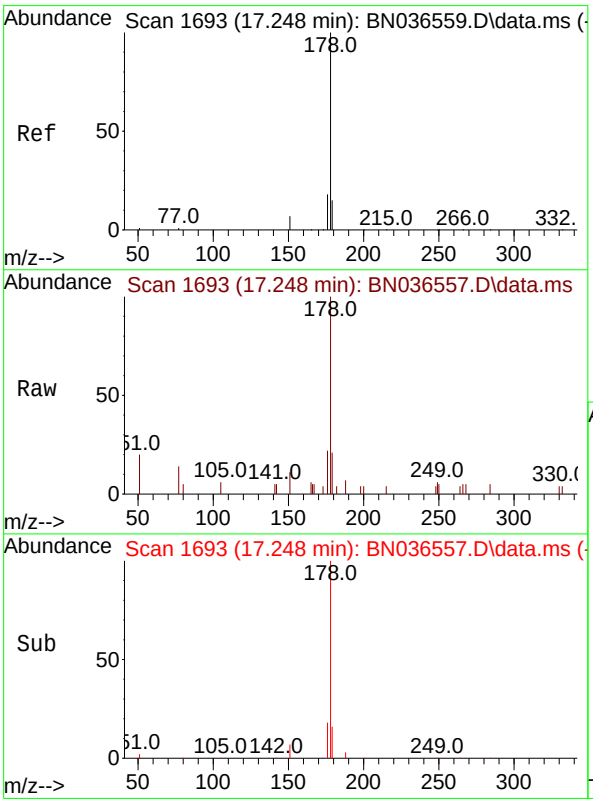

#25
Phenanthrene
Concen: 0.099 ng
RT: 17.148 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.1

Tgt Ion:178 Resp: 2459

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.6 | 15.9 | 23.9 |
| 179 | 16.1 | 12.2 | 18.4 |

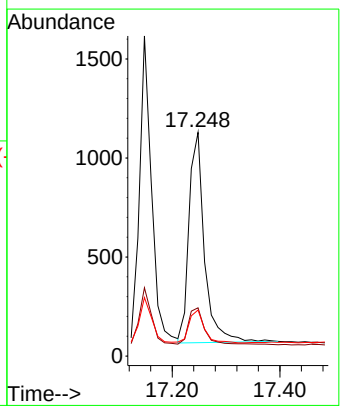


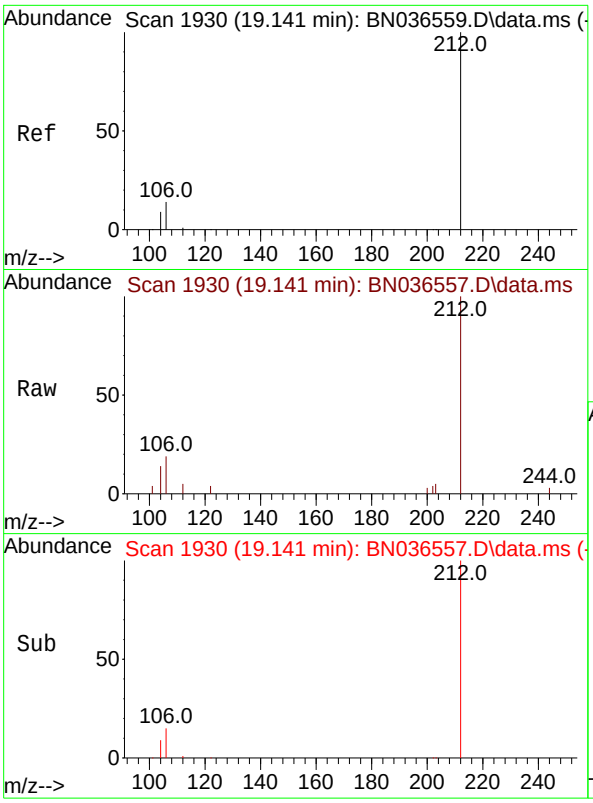




#26
Anthracene
Concen: 0.095 ng
RT: 17.248 min Scan# 1693
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:178 Resp: 2121

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.3 | 15.4 | 23.2 |
| 179 | 15.7 | 12.6 | 18.8 |



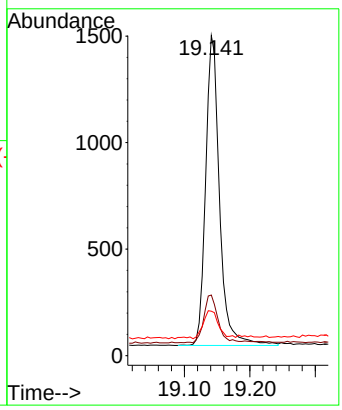


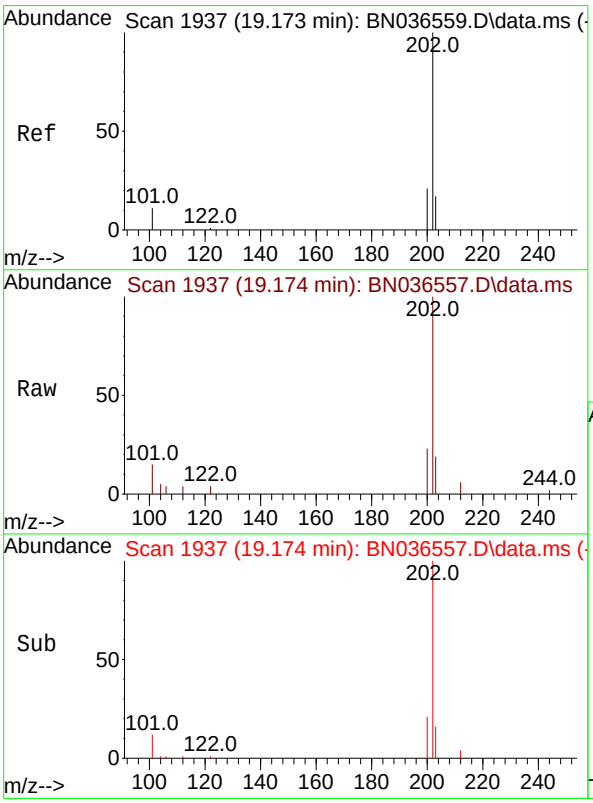

#27
Fluoranthene-d10
Concen: 0.101 ng
RT: 19.141 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.1

Tgt Ion:212 Resp: 2144

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 15.5 | 11.8 | 17.6 |
| 104 | 9.7 | 7.3 | 10.9 |

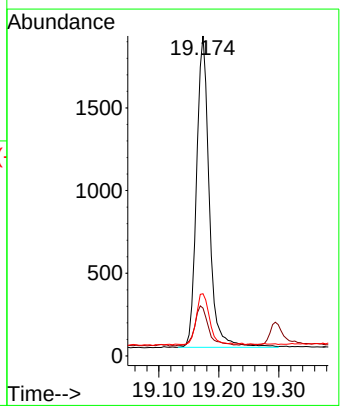


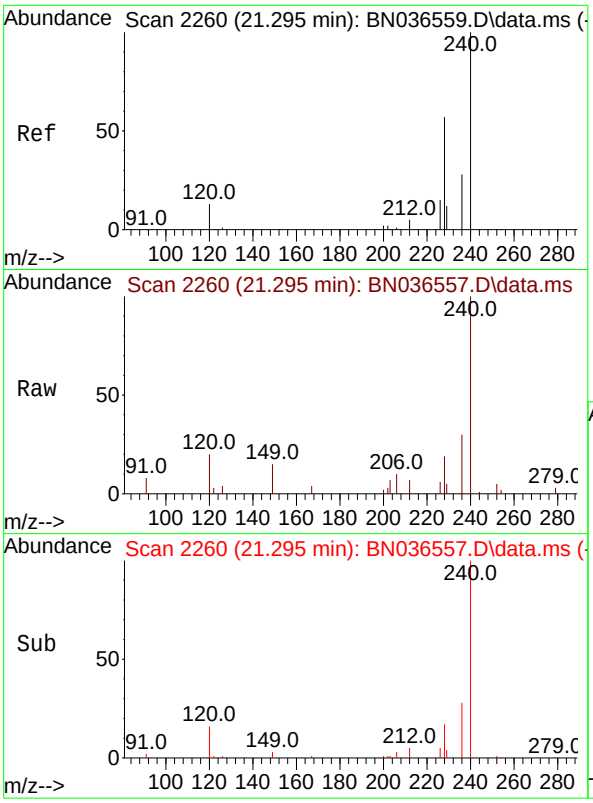




#28
Fluoranthene
Concen: 0.099 ng
RT: 19.174 min Scan# 1937
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:202 Resp: 2772

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 14.0 | 9.4 | 14.0 |
| 203 | 17.0 | 13.5 | 20.3 |



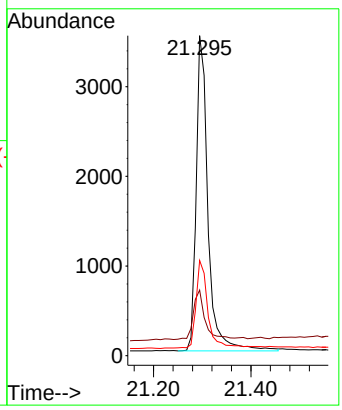


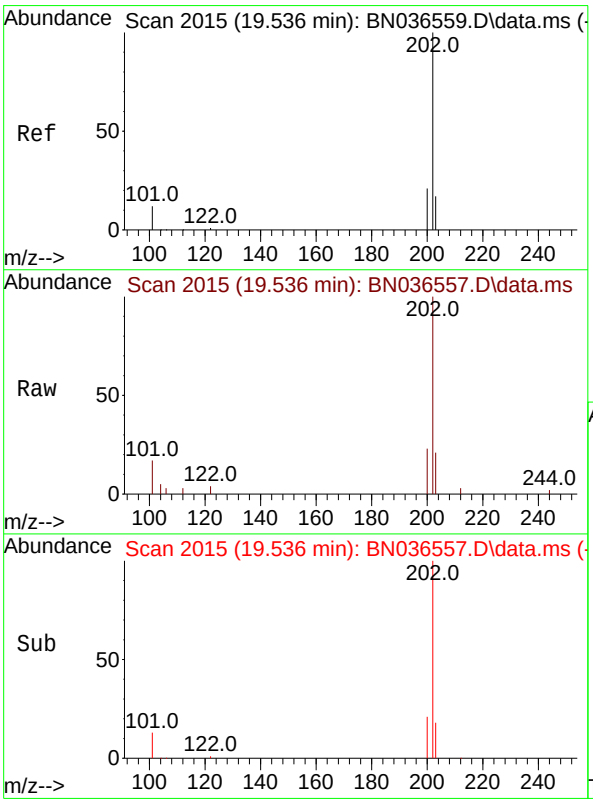

#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.1

Tgt Ion:240 Resp: 5886

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 20.5 | 14.6 | 22.0 |
| 236 | 29.8 | 24.1 | 36.1 |

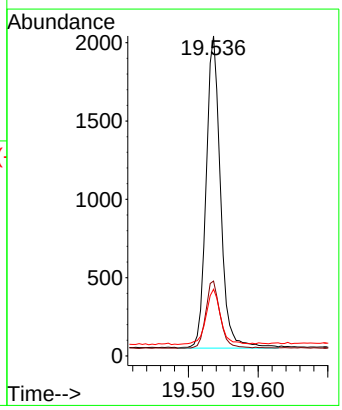


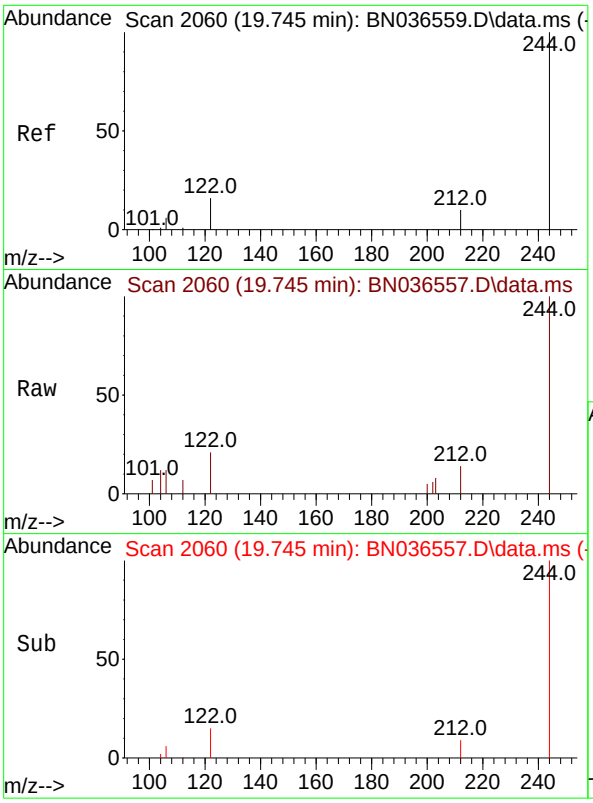




#30
Pyrene
Concen: 0.099 ng
RT: 19.536 min Scan# 2015
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:202 Resp: 2862

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.3 | 17.1 | 25.7 |
| 203 | 17.9 | 14.1 | 21.1 |



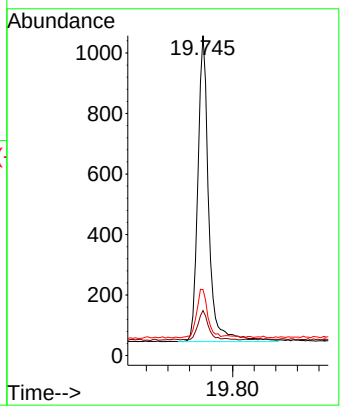


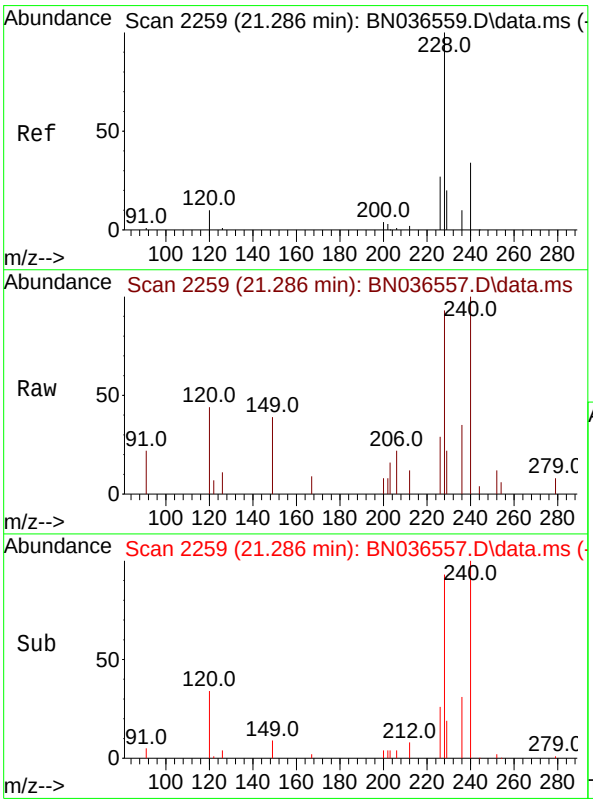

#31
Terphenyl-d14
Concen: 0.100 ng
RT: 19.745 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.1

Tgt Ion:244 Resp: 1416

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 14.1 | 9.6 | 14.4 |
| 122 | 20.6 | 13.9 | 20.9 |

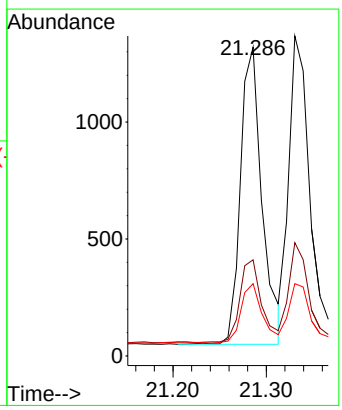


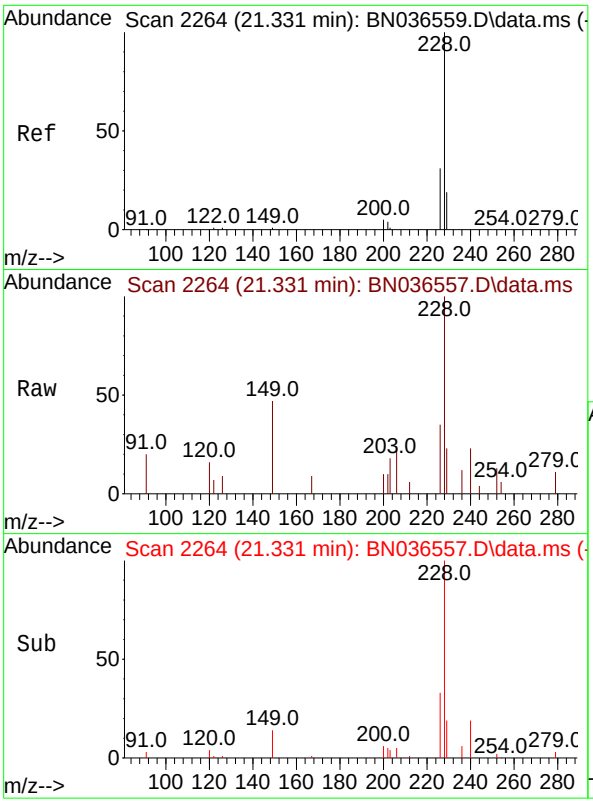




#32
Benzo(a)anthracene
Concen: 0.100 ng
RT: 21.286 min Scan# 2259
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:228 Resp: 2044

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 31.1 | 22.5 | 33.7 |
| 229 | 23.4 | 16.6 | 25.0 |



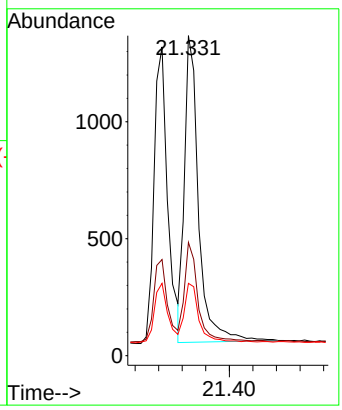


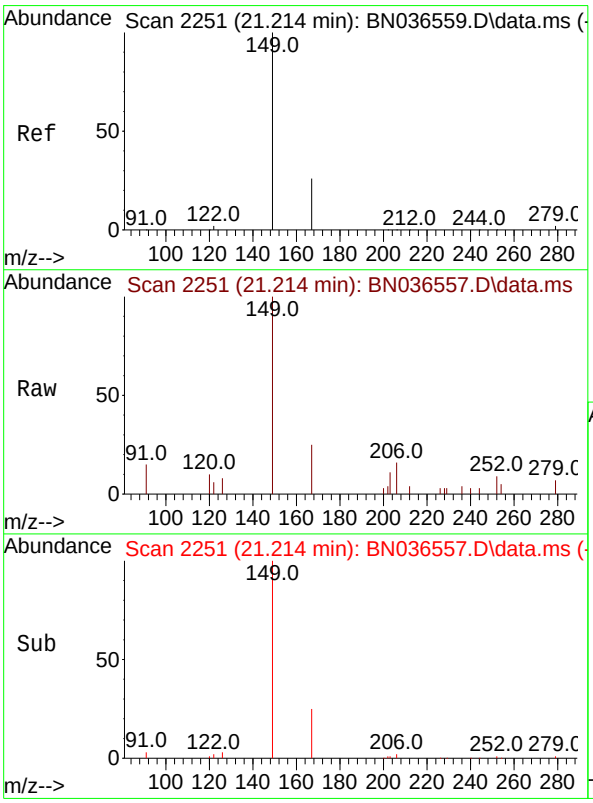

#33
Chrysene
Concen: 0.098 ng
RT: 21.331 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.1

Tgt Ion:228 Resp: 2187

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 35.4 | 25.3 | 37.9 |
| 229 | 22.6 | 15.8 | 23.8 |

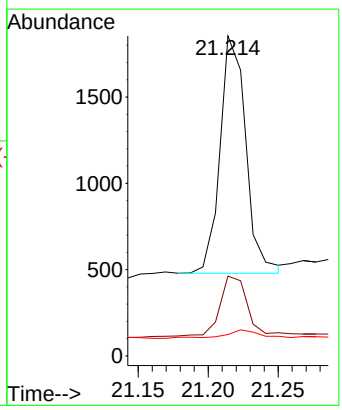


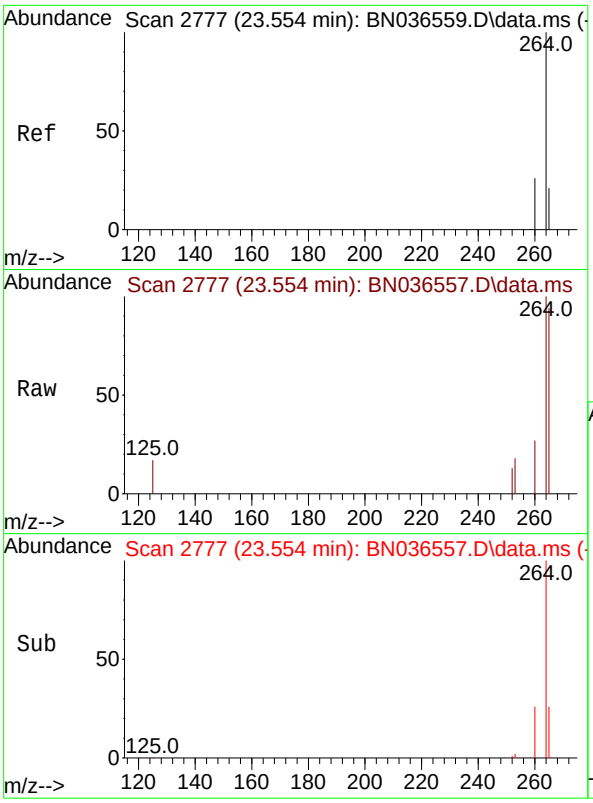




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.121 ng
RT: 21.214 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:149 Resp: 1760

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 27.9 | 20.7 | 31.1 |
| 279 | 4.9 | 3.6 | 5.4 |



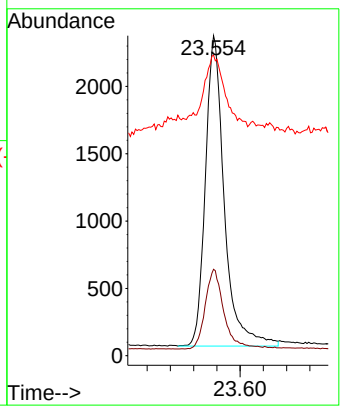


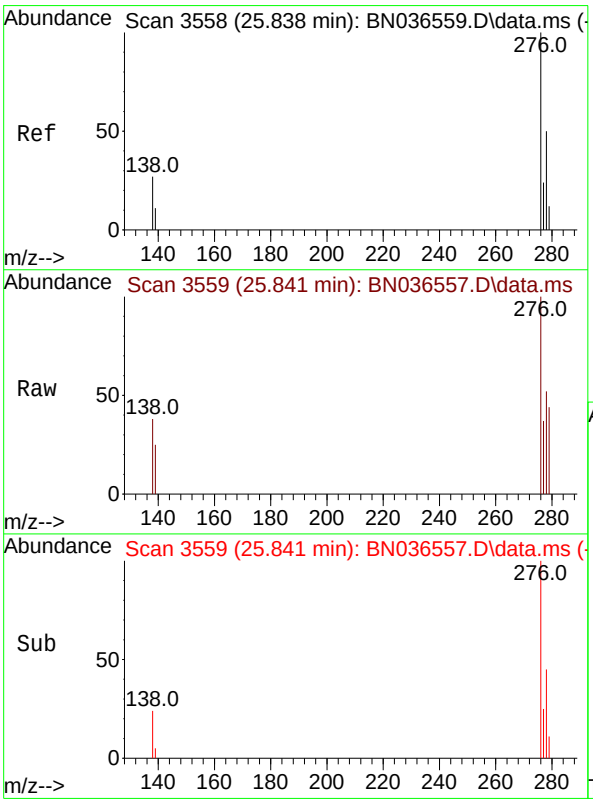

#35
Perylene-d12
Concen: 0.400 ng
RT: 23.554 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.1

Tgt Ion:264 Resp: 5207

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 27.0 | 22.6 | 33.8 |
| 265 | 93.9 | 88.1 | 132.1 |

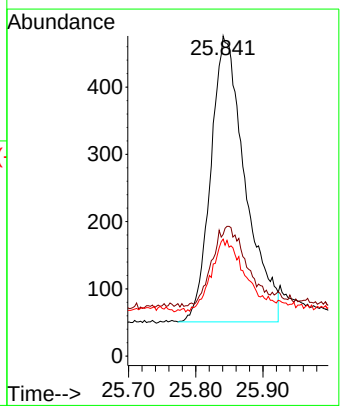


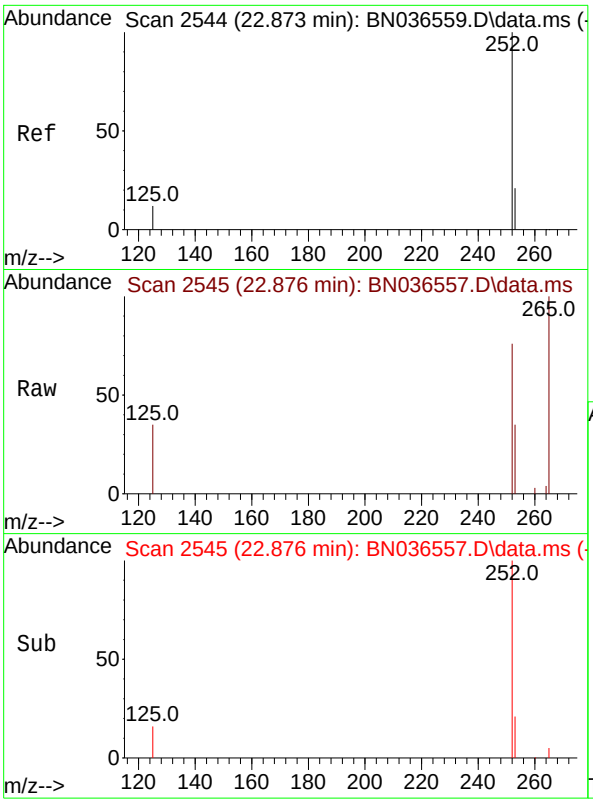




#36
Indeno(1,2,3-cd)pyrene
Concen: 0.080 ng
RT: 25.841 min Scan# 3559
Delta R.T. 0.003 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:276 Resp: 1510

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 27.6 | 23.4 | 35.2 |
| 277 | 24.2 | 20.0 | 30.0 |



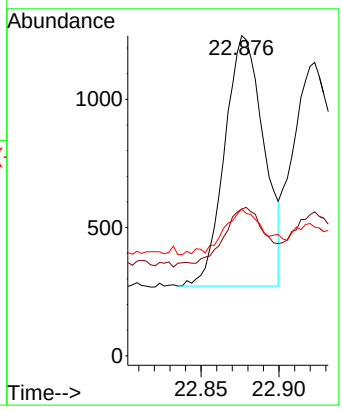


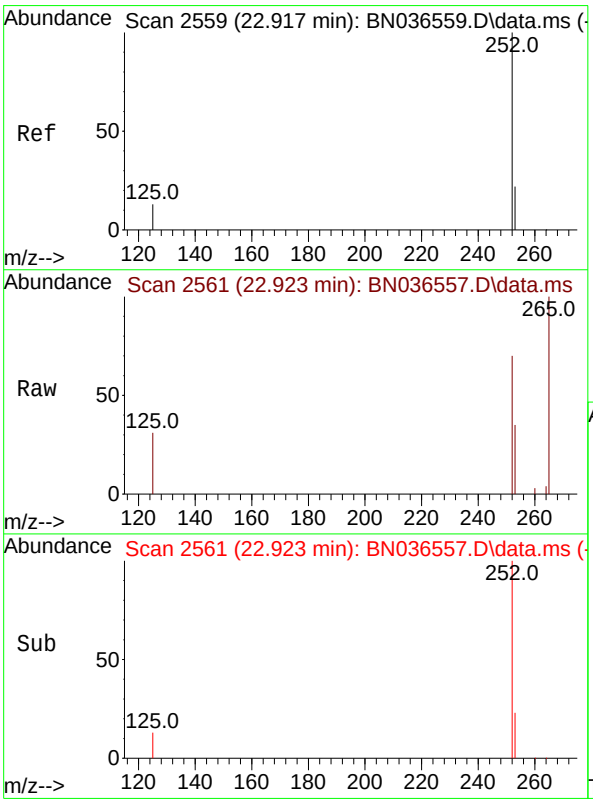

#37
Benzo(b)fluoranthene
Concen: 0.090 ng
RT: 22.876 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.1

Tgt Ion:252 Resp: 1707

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 45.8 | 23.9 | 35.9# |
| 125 | 45.8 | 17.4 | 26.2# |

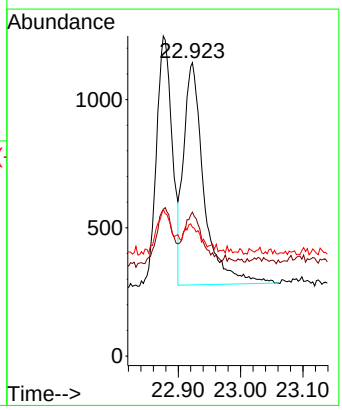


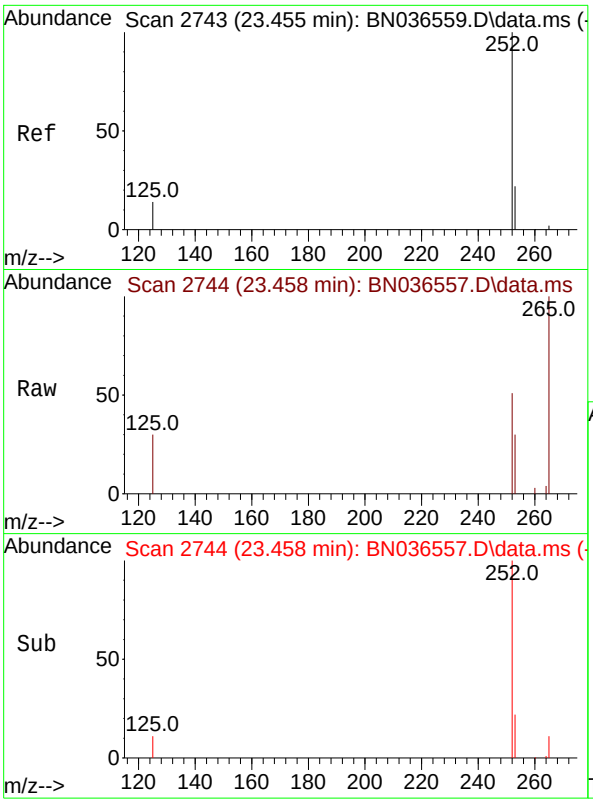




#38
Benzo(k)fluoranthene
Concen: 0.098 ng
RT: 22.923 min Scan# 2561
Delta R.T. 0.006 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:252 Resp: 1958

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 49.0 | 24.6 | 36.8# |
| 125 | 43.9 | 17.8 | 26.8# |



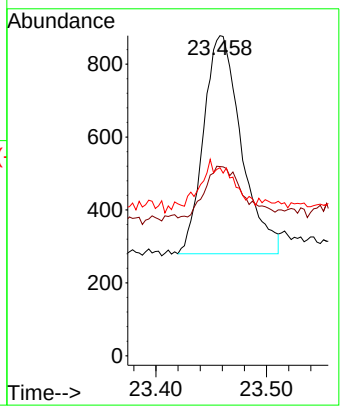


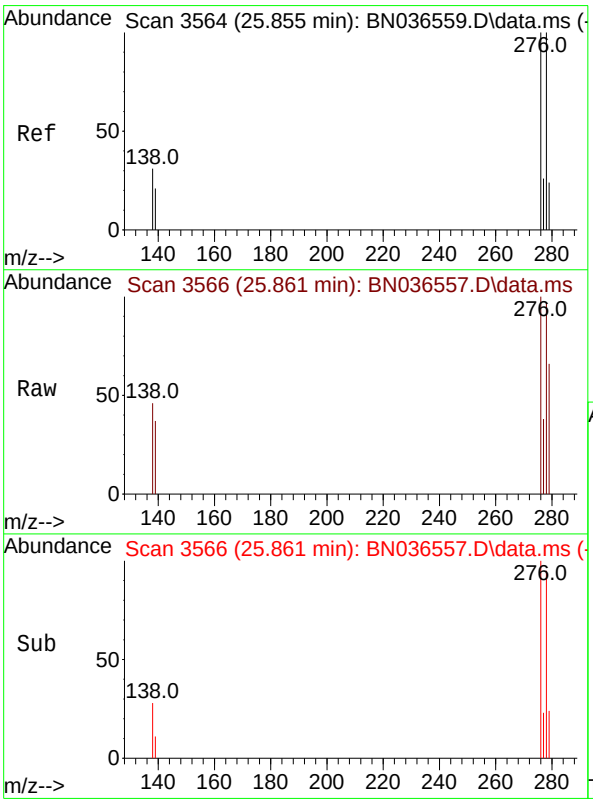

#39
Benzo(a)pyrene
Concen: 0.089 ng
RT: 23.458 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.1

Tgt Ion:252 Resp: 1419

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 59.1 | 27.8 | 41.8# |
| 125 | 58.8 | 22.7 | 34.1# |

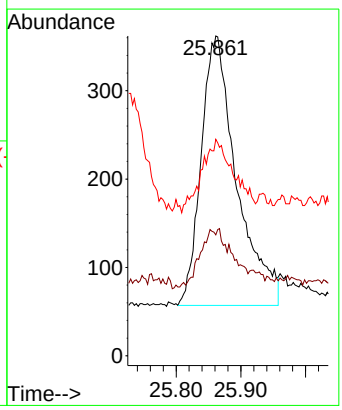


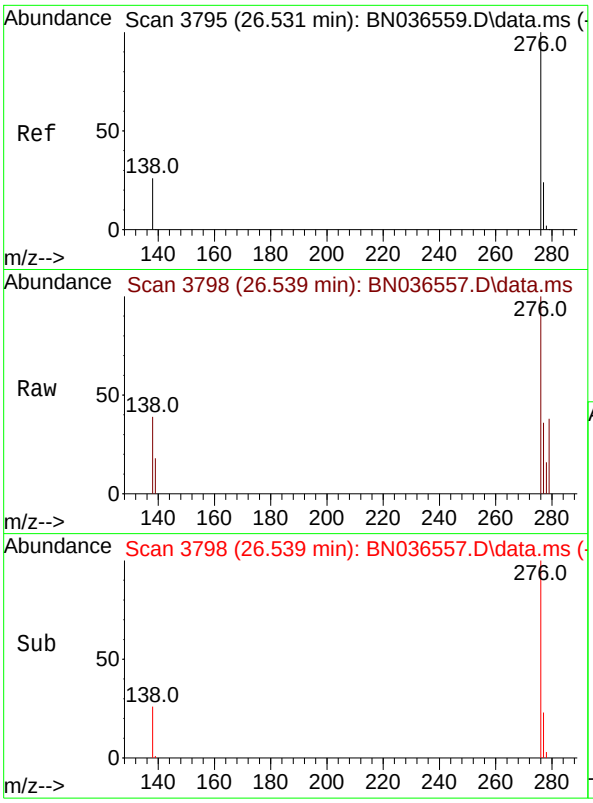




#40
Dibenzo(a,h)anthracene
Concen: 0.079 ng
RT: 25.861 min Scan# 3566
Delta R.T. 0.006 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:278 Resp: 1163

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 37.8 | 20.8 | 31.2# |
| 279 | 67.7 | 28.8 | 43.2# |



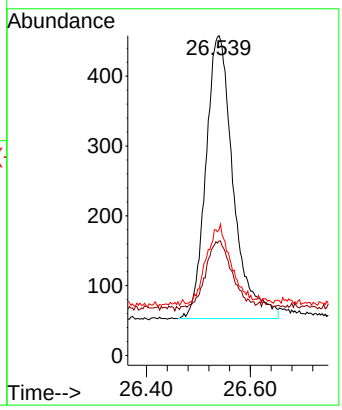



#41
Benzo(g,h,i)perylene
Concen: 0.089 ng
RT: 26.539 min Scan# 3
Delta R.T. 0.009 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.1

Tgt Ion:276 Resp: 1482

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 35.8 | 22.2 | 33.4# |
| 138 | 39.3 | 24.1 | 36.1# |



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036558.D
Acq On : 10 Mar 2025 12:18
Operator : RC/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.2

Quant Time: Mar 10 16:00:58 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:54:23 2025
Response via : Initial Calibration

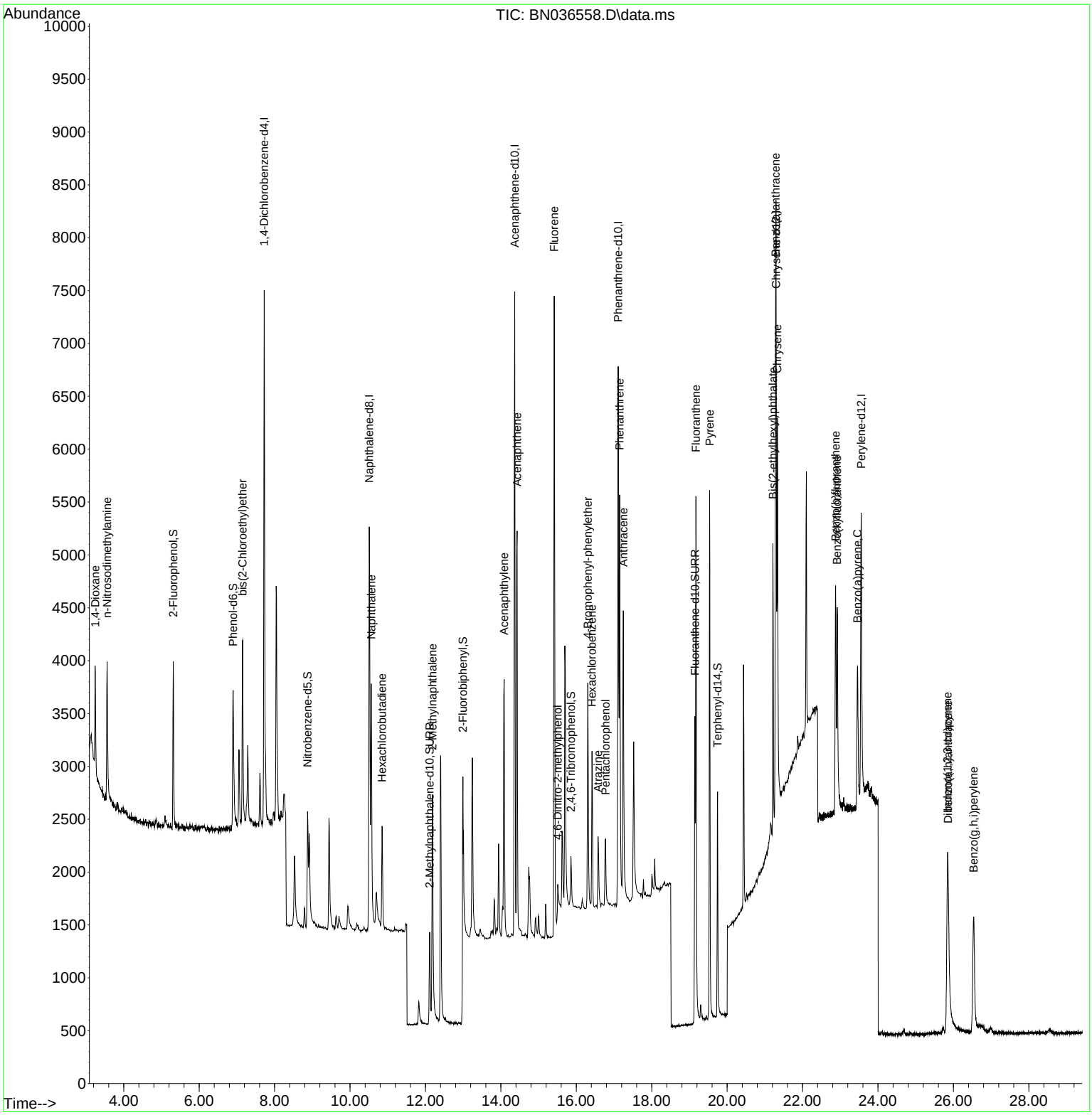
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.724 | 152 | 2504 | 0.400 | ng | | 0.00 |
| 7) Naphthalene-d8 | 10.509 | 136 | 5844 | 0.400 | ng | | 0.00 |
| 13) Acenaphthene-d10 | 14.366 | 164 | 3516 | 0.400 | ng | | 0.00 |
| 19) Phenanthrene-d10 | 17.111 | 188 | 7506 | 0.400 | ng | | 0.00 |
| 29) Chrysene-d12 | 21.295 | 240 | 4730 | 0.400 | ng | | 0.00 |
| 35) Perylene-d12 | 23.554 | 264 | 4241 | 0.400 | ng | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 4) 2-Fluorophenol | 5.312 | 112 | 1137 | 0.195 | ng | | 0.00 |
| 5) Phenol-d6 | 6.901 | 99 | 1323 | 0.184 | ng | | 0.00 |
| 8) Nitrobenzene-d5 | 8.875 | 82 | 1156 | 0.182 | ng | | 0.00 |
| 11) 2-Methylnaphthalene-d10 | 12.111 | 152 | 1603 | 0.184 | ng | | 0.00 |
| 14) 2,4,6-Tribromophenol | 15.858 | 330 | 282 | 0.177 | ng | | 0.00 |
| 15) 2-Fluorobiphenyl | 12.993 | 172 | 3485 | 0.170 | ng | | 0.00 |
| 27) Fluoranthene-d10 | 19.146 | 212 | 3583 | 0.186 | ng | | 0.00 |
| 31) Terphenyl-d14 | 19.745 | 244 | 2283 | 0.201 | ng | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.247 | 88 | 700 | 0.252 | ng | | 91 |
| 3) n-Nitrosodimethylamine | 3.557 | 42 | 1094 | 0.195 | ng | | 92 |
| 6) bis(2-Chloroethyl)ether | 7.154 | 93 | 1440 | 0.193 | ng | | 99 |
| 9) Naphthalene | 10.562 | 128 | 3286 | 0.191 | ng | | 97 |
| 10) Hexachlorobutadiene | 10.850 | 225 | 828 | 0.205 | ng | # | 97 |
| 12) 2-Methylnaphthalene | 12.187 | 142 | 2034 | 0.186 | ng | | 97 |
| 16) Acenaphthylene | 14.088 | 152 | 3087 | 0.186 | ng | | 100 |
| 17) Acenaphthene | 14.430 | 154 | 2038 | 0.188 | ng | | 99 |
| 18) Fluorene | 15.414 | 166 | 2813 | 0.191 | ng | | 99 |
| 20) 4,6-Dinitro-2-methylph... | 15.510 | 198 | 214 | 0.258 | ng | # | 69 |
| 21) 4-Bromophenyl-phenylether | 16.304 | 248 | 853 | 0.181 | ng | | 93 |
| 22) Hexachlorobenzene | 16.416 | 284 | 1079 | 0.190 | ng | | 99 |
| 23) Atrazine | 16.578 | 200 | 716 | 0.190 | ng | | 97 |
| 24) Pentachlorophenol | 16.776 | 266 | 435 | 0.168 | ng | | 98 |
| 25) Phenanthrene | 17.148 | 178 | 4171 | 0.185 | ng | | 100 |
| 26) Anthracene | 17.248 | 178 | 3645 | 0.179 | ng | | 99 |
| 28) Fluoranthene | 19.174 | 202 | 4666 | 0.184 | ng | | 99 |
| 30) Pyrene | 19.536 | 202 | 4742 | 0.205 | ng | | 100 |
| 32) Benzo(a)anthracene | 21.286 | 228 | 3111 | 0.189 | ng | | 97 |
| 33) Chrysene | 21.331 | 228 | 3568 | 0.199 | ng | | 97 |
| 34) Bis(2-ethylhexyl)phtha... | 21.214 | 149 | 2601 | 0.222 | ng | # | 97 |
| 36) Indeno(1,2,3-cd)pyrene | 25.844 | 276 | 2790 | 0.182 | ng | | 98 |
| 37) Benzo(b)fluoranthene | 22.876 | 252 | 2883 | 0.187 | ng | # | 83 |
| 38) Benzo(k)fluoranthene | 22.917 | 252 | 2962 | 0.183 | ng | # | 86 |
| 39) Benzo(a)pyrene | 23.458 | 252 | 2443 | 0.188 | ng | # | 76 |
| 40) Dibenzo(a,h)anthracene | 25.858 | 278 | 2080 | 0.175 | ng | # | 83 |
| 41) Benzo(g,h,i)perylene | 26.536 | 276 | 2573 | 0.189 | ng | | 95 |

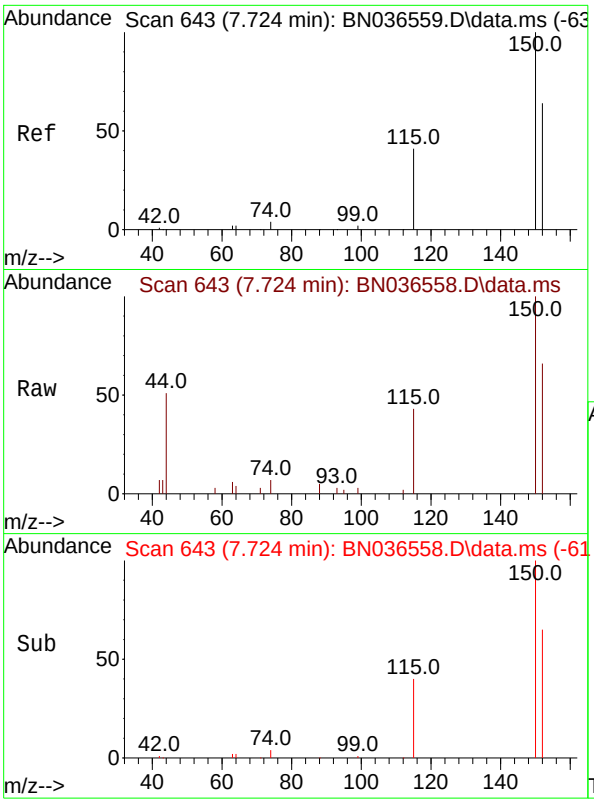
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036558.D
Acq On : 10 Mar 2025 12:18
Operator : RC/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.2

Quant Time: Mar 10 16:00:58 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:54:23 2025
Response via : Initial Calibration



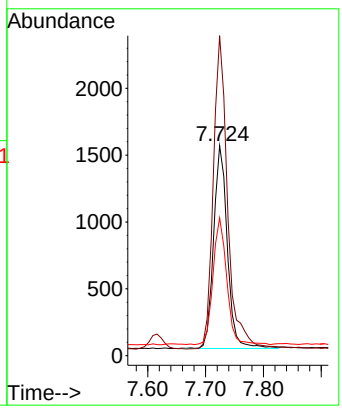


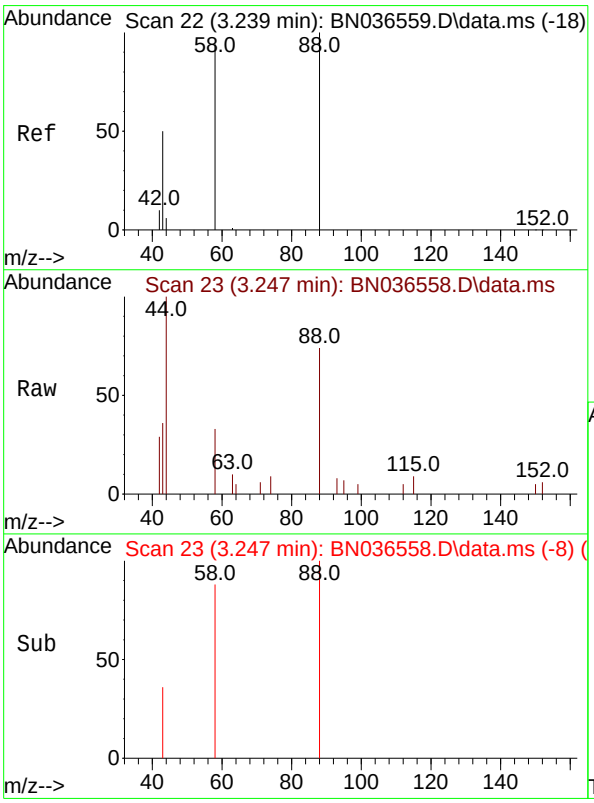

#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 6
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.2

Tgt Ion:152 Resp: 2504

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 152.3 | 123.7 | 185.5 |
| 115 | 65.5 | 54.3 | 81.5 |

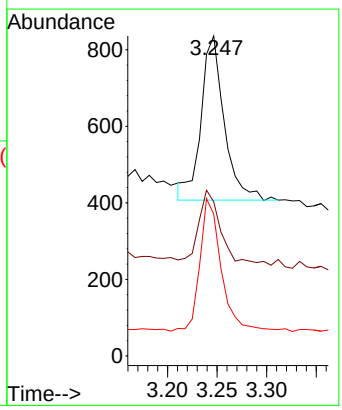


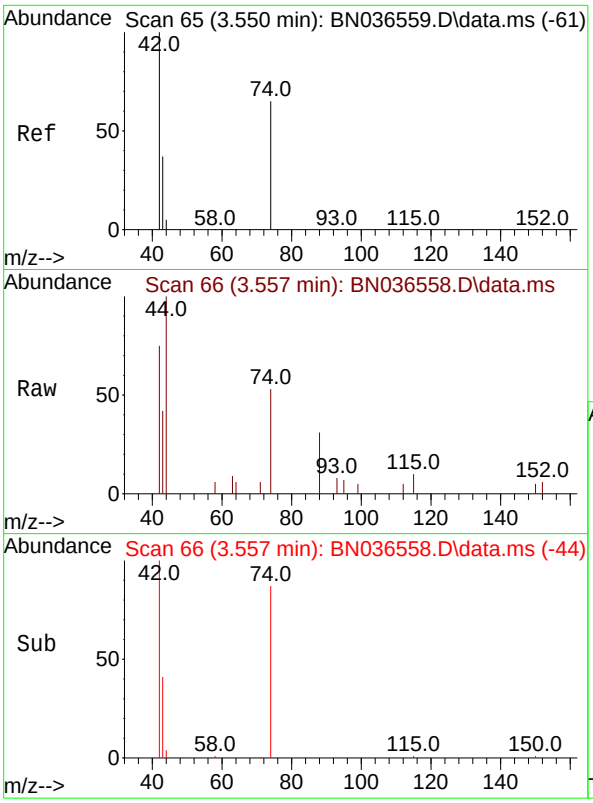




#2
1,4-Dioxane
Concen: 0.252 ng
RT: 3.247 min Scan# 23
Delta R.T. 0.007 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion: 88 Resp: 700

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 44.4 | 37.8 | 56.8 |
| 58 | 73.7 | 67.4 | 101.2 |



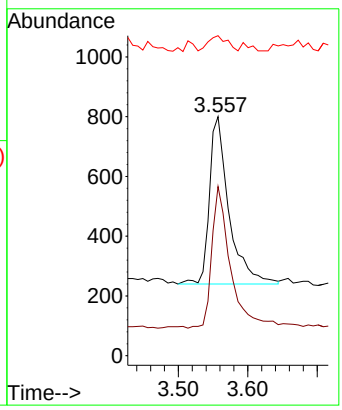


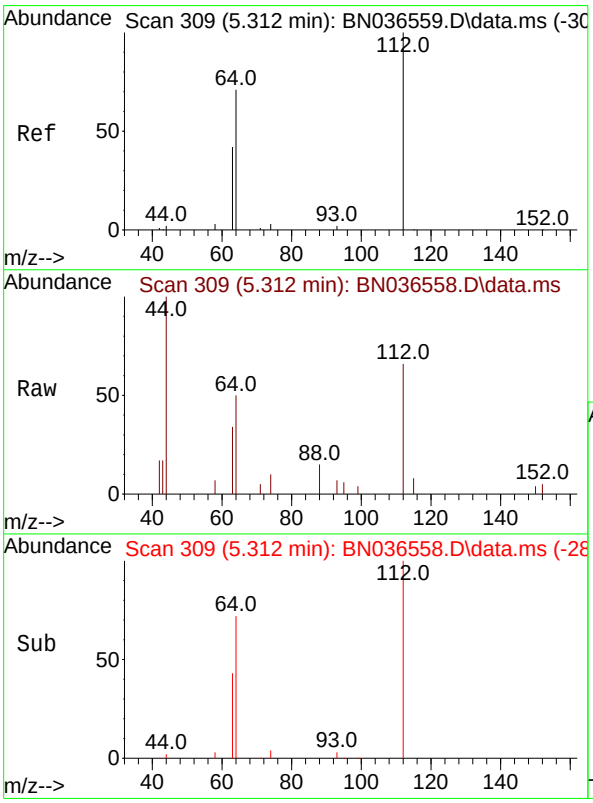

#3
n-Nitrosodimethylamine
Concen: 0.195 ng
RT: 3.557 min Scan# 6
Delta R.T. 0.007 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.2

Tgt Ion: 42 Resp: 1094

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 83.2 | 60.6 | 90.8 |
| 44 | 8.5 | 6.3 | 9.5 |

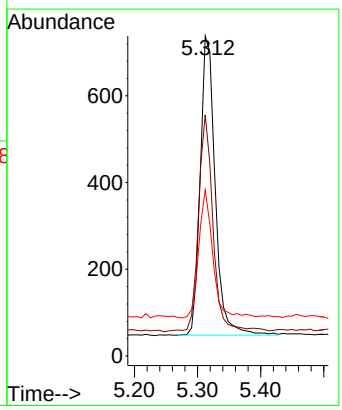


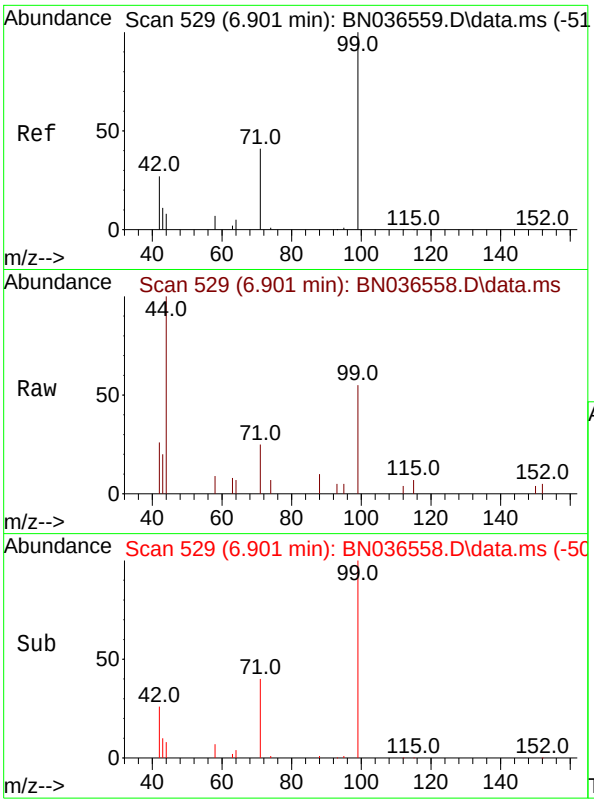




#4
2-Fluorophenol
Concen: 0.195 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:112 Resp: 1137

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 70.6 | 53.1 | 79.7 |
| 63 | 40.3 | 31.8 | 47.8 |



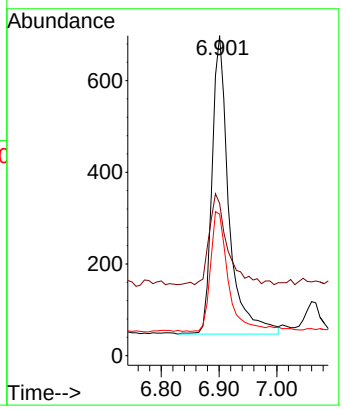


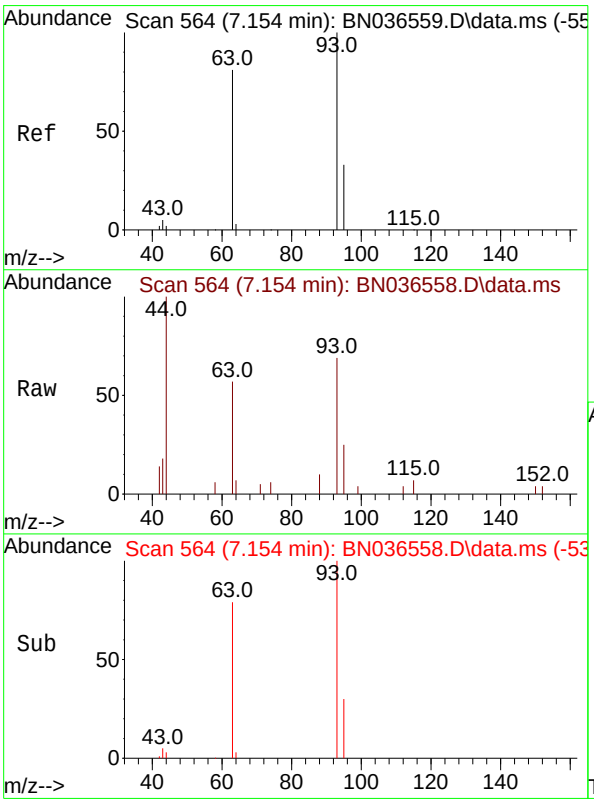

#5
Phenol-d6
Concen: 0.184 ng
RT: 6.901 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.2

Tgt Ion: 99 Resp: 1323

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 32.7 | 26.5 | 39.7 |
| 71 | 41.3 | 34.1 | 51.1 |

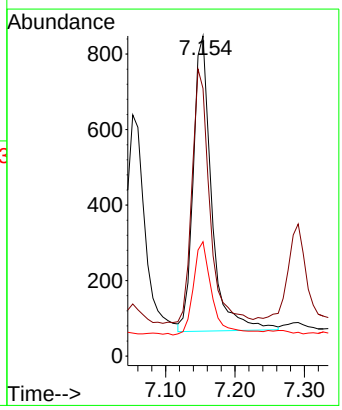


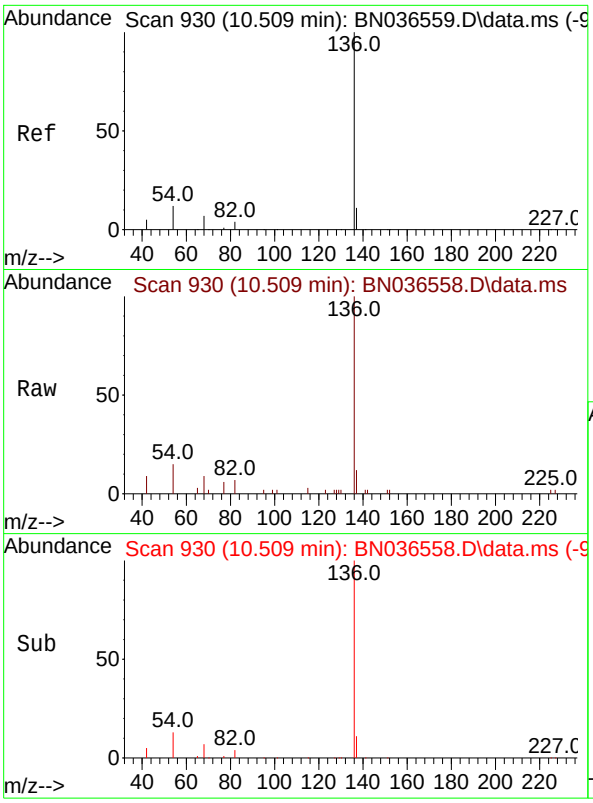




#6
bis(2-Chloroethyl)ether
Concen: 0.193 ng
RT: 7.154 min Scan# 564
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion: 93 Resp: 1440

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 82.9 | 67.7 | 101.5 |
| 95 | 31.9 | 25.6 | 38.4 |



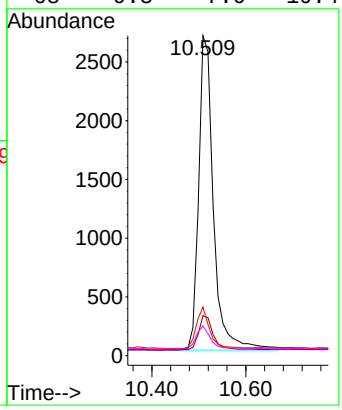


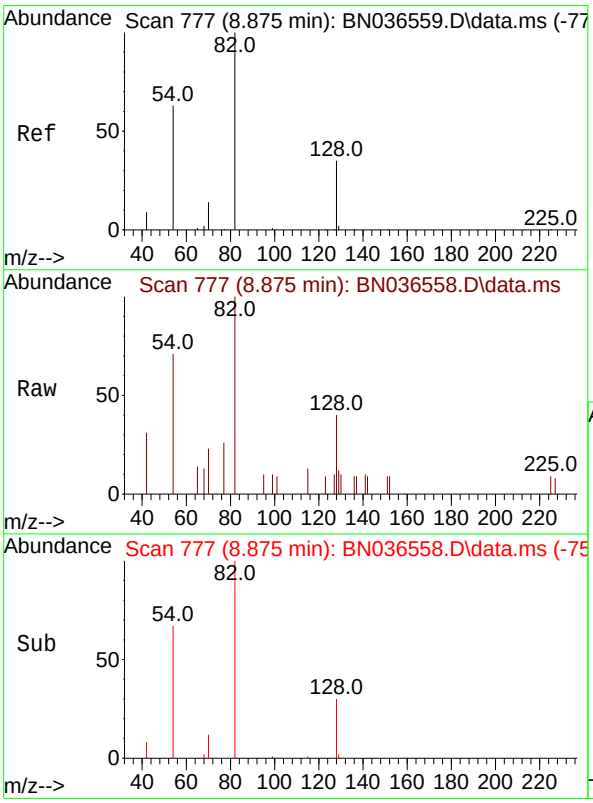

#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.2

Tgt Ion:136 Resp: 5844

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 12.5 | 10.3 | 15.5 |
| 54 | 15.1 | 11.5 | 17.3 |
| 68 | 9.3 | 7.0 | 10.4 |

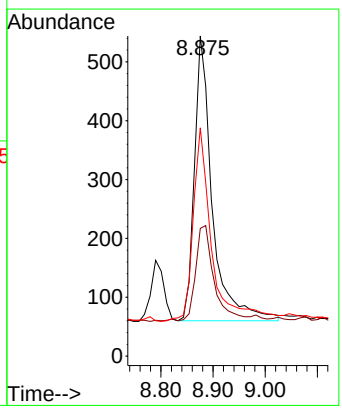


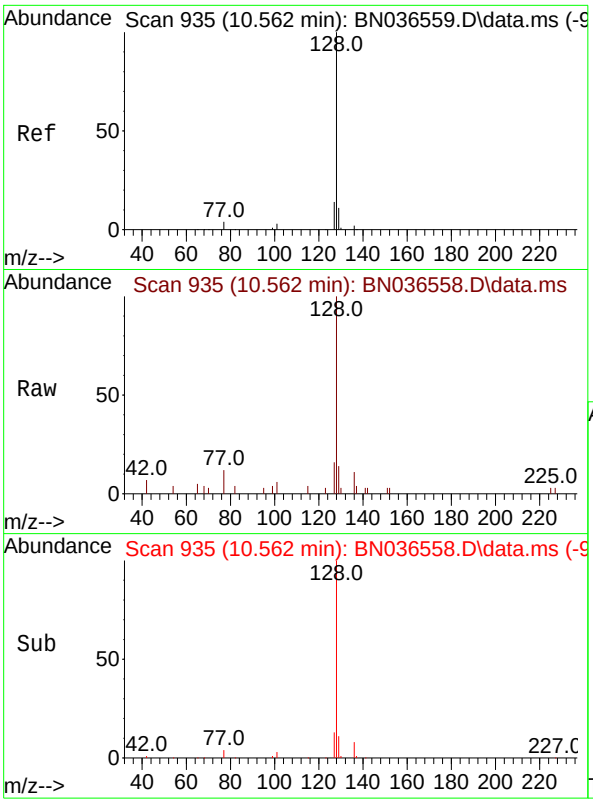




#8
Nitrobenzene-d5
Concen: 0.182 ng
RT: 8.875 min Scan# 777
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion: 82 Resp: 1156

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 39.9 | 30.6 | 45.8 |
| 54 | 71.3 | 52.2 | 78.4 |



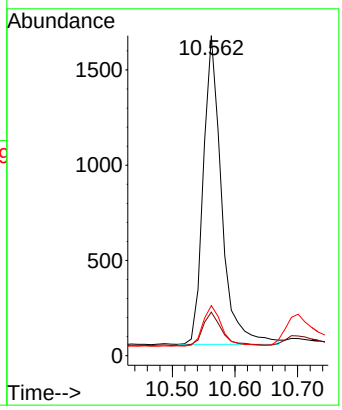


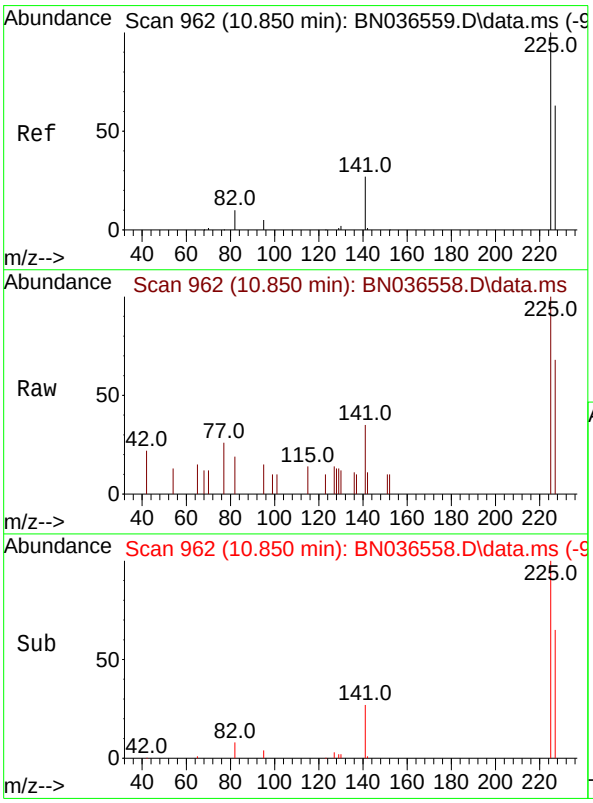

#9
Naphthalene
Concen: 0.191 ng
RT: 10.562 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.2

Tgt Ion:128 Resp: 3286

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 13.6 | 9.8 | 14.6 |
| 127 | 15.7 | 11.8 | 17.8 |

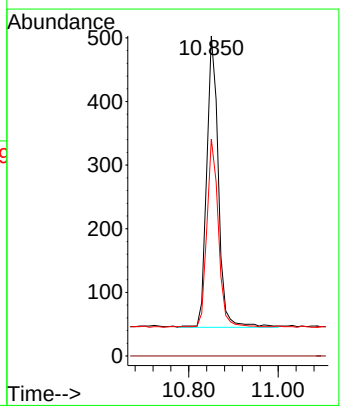


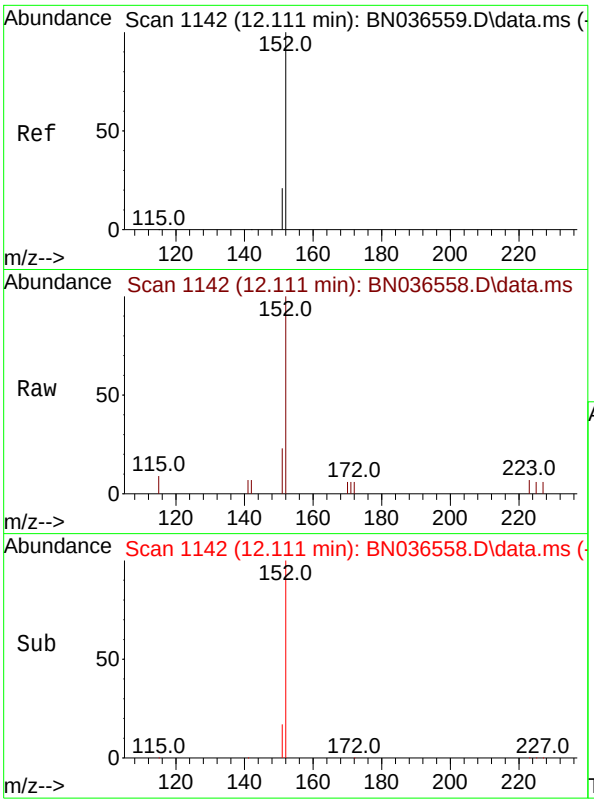




#10
Hexachlorobutadiene
Concen: 0.205 ng
RT: 10.850 min Scan# 962
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:225 Resp: 828

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 0.0 | 0.0 | 0.0 |
| 227 | 62.6 | 51.8 | 77.8 |



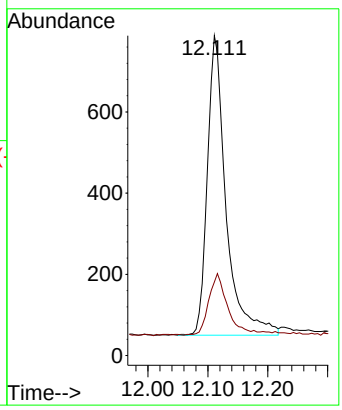


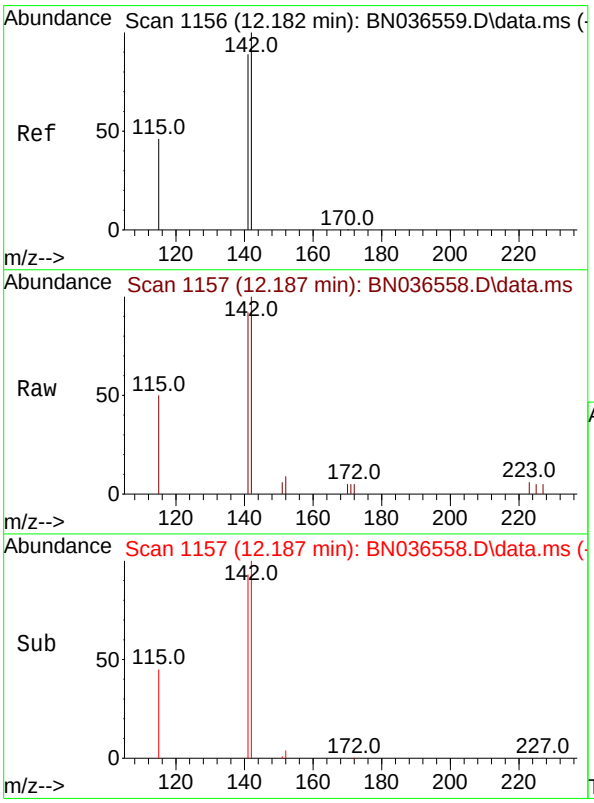

#11
2-Methylnaphthalene-d10
Concen: 0.184 ng
RT: 12.111 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.2

Tgt Ion:152 Resp: 1603

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 21.0 | 17.0 | 25.6 |

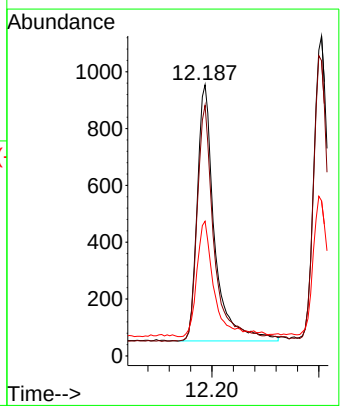


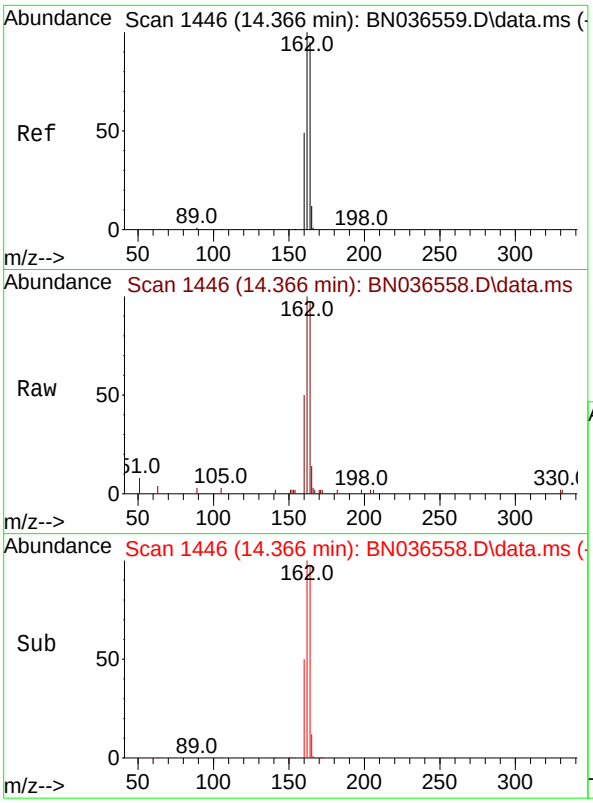




#12
2-Methylnaphthalene
Concen: 0.186 ng
RT: 12.187 min Scan# 1157
Delta R.T. 0.005 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:142 Resp: 2034

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 92.5 | 71.7 | 107.5 |
| 115 | 49.7 | 38.3 | 57.5 |



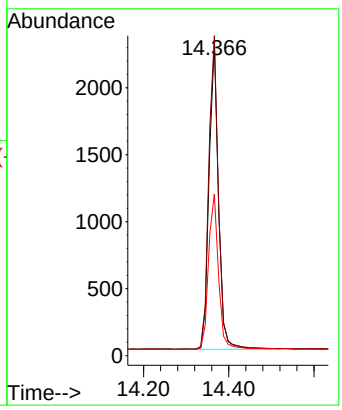


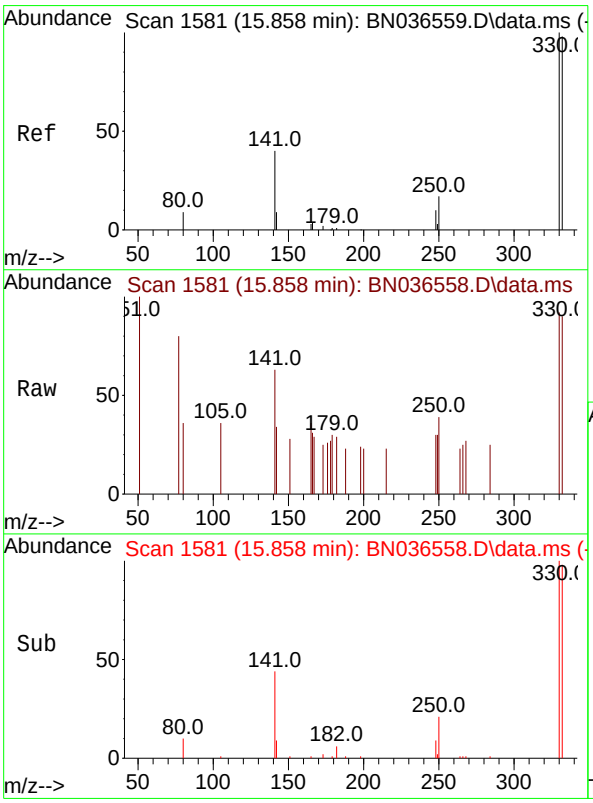

#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.2

Tgt Ion:164 Resp: 3516

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 102.6 | 84.2 | 126.2 |
| 160 | 51.8 | 42.2 | 63.2 |

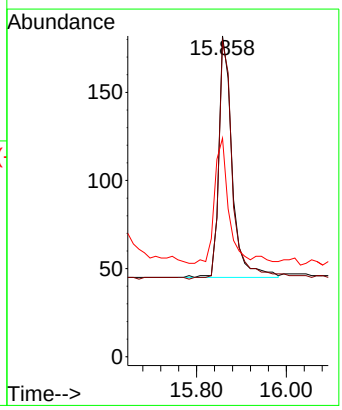


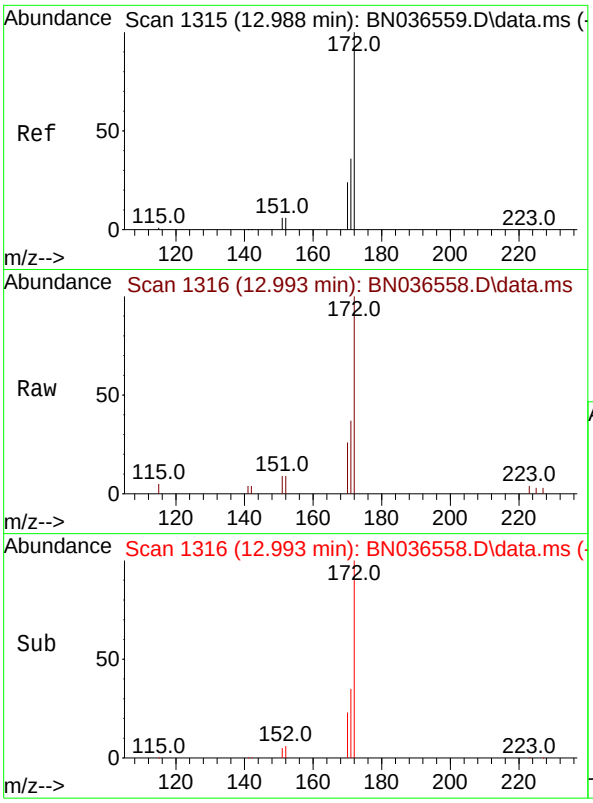




#14
2,4,6-Tribromophenol
Concen: 0.177 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:330 Resp: 282

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 103.5 | 75.2 | 112.8 |
| 141 | 53.9 | 43.4 | 65.2 |



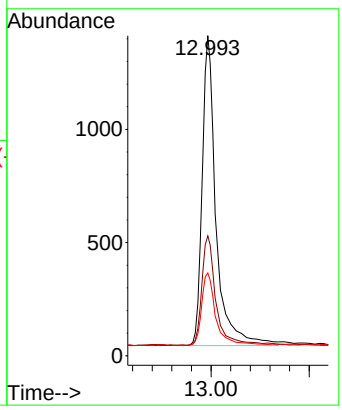


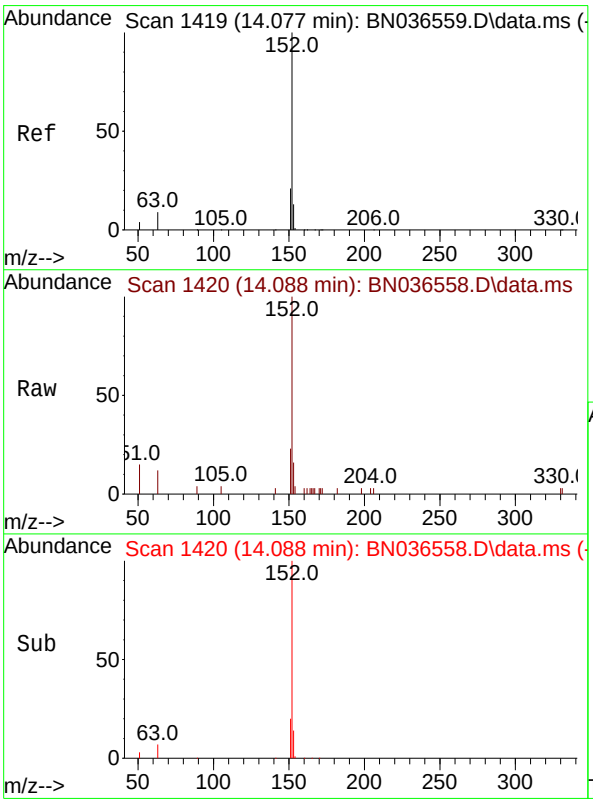

#15
2-Fluorobiphenyl
Concen: 0.170 ng
RT: 12.993 min Scan# 1
Delta R.T. 0.005 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.2

Tgt Ion:172 Resp: 3485

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 37.5 | 29.5 | 44.3 |
| 170 | 25.9 | 20.2 | 30.4 |

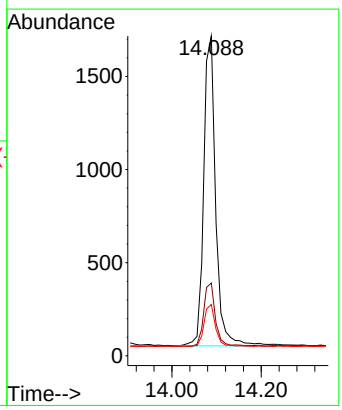


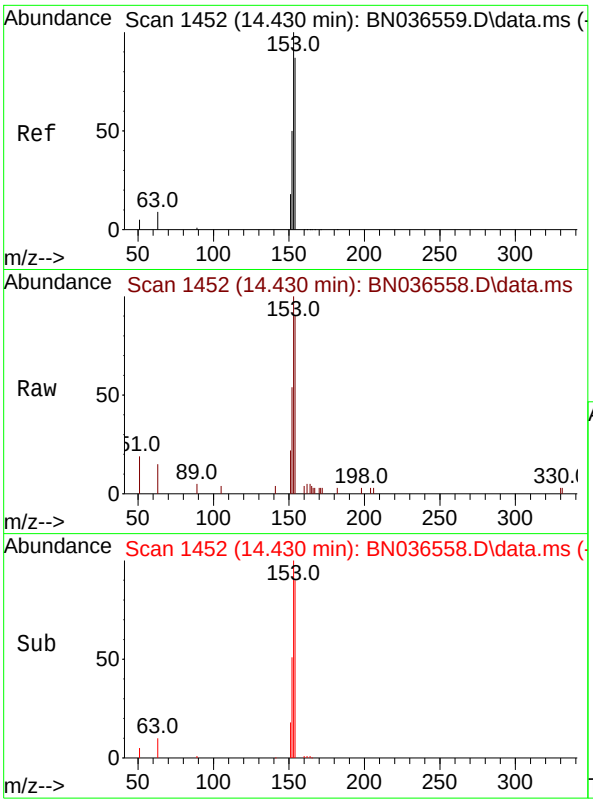




#16
Acenaphthylene
Concen: 0.186 ng
RT: 14.088 min Scan# 1420
Delta R.T. 0.011 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:152 Resp: 3087

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.4 | 16.2 | 24.4 |
| 153 | 13.0 | 10.6 | 15.8 |



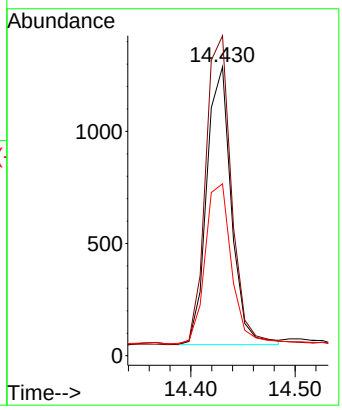


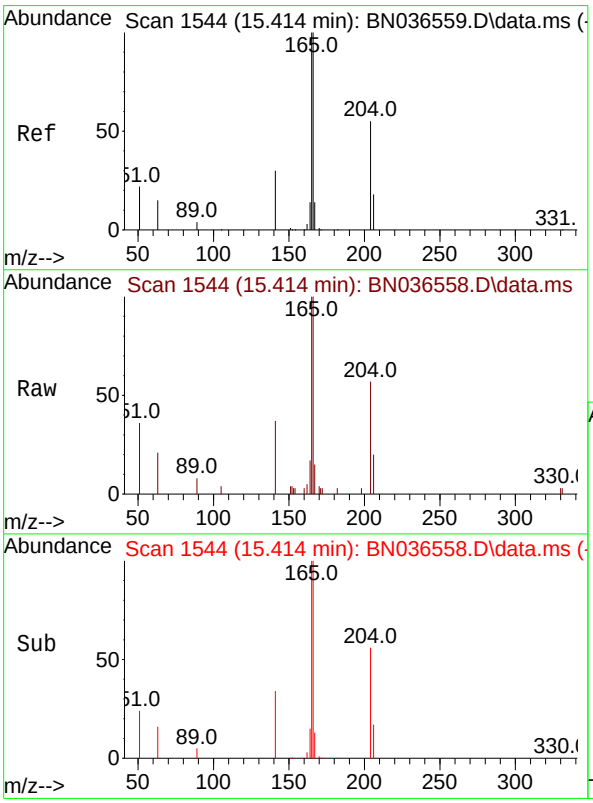

#17
Acenaphthene
Concen: 0.188 ng
RT: 14.430 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.2

Tgt Ion:154 Resp: 2038

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 117.8 | 94.1 | 141.1 |
| 152 | 63.1 | 49.8 | 74.6 |

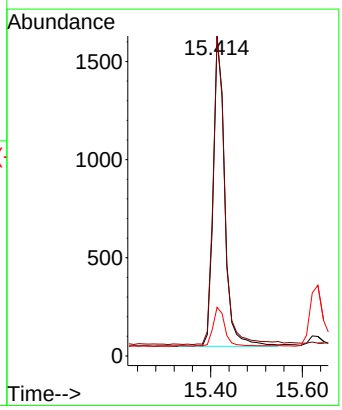


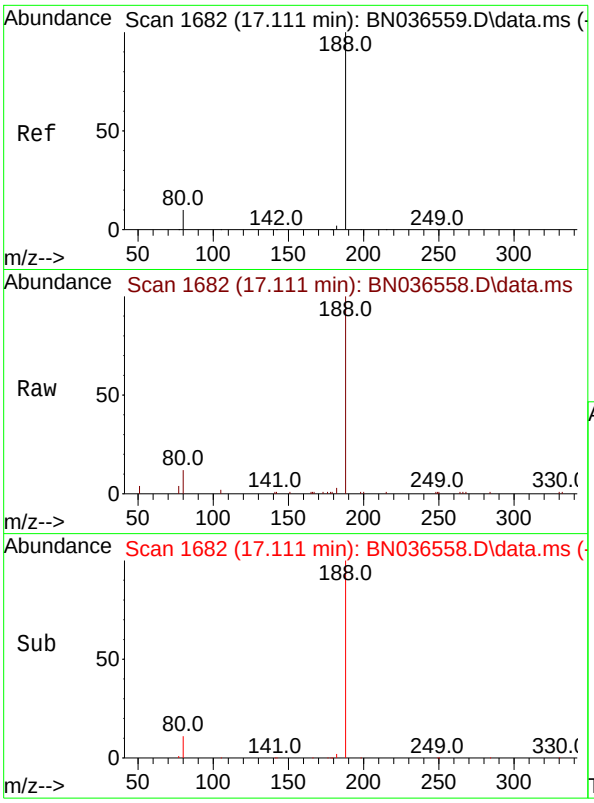




#18
Fluorene
Concen: 0.191 ng
RT: 15.414 min Scan# 1544
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:166 Resp: 2813

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 101.1 | 79.8 | 119.8 |
| 167 | 12.6 | 10.6 | 15.8 |



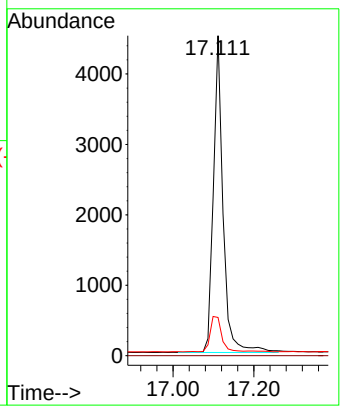


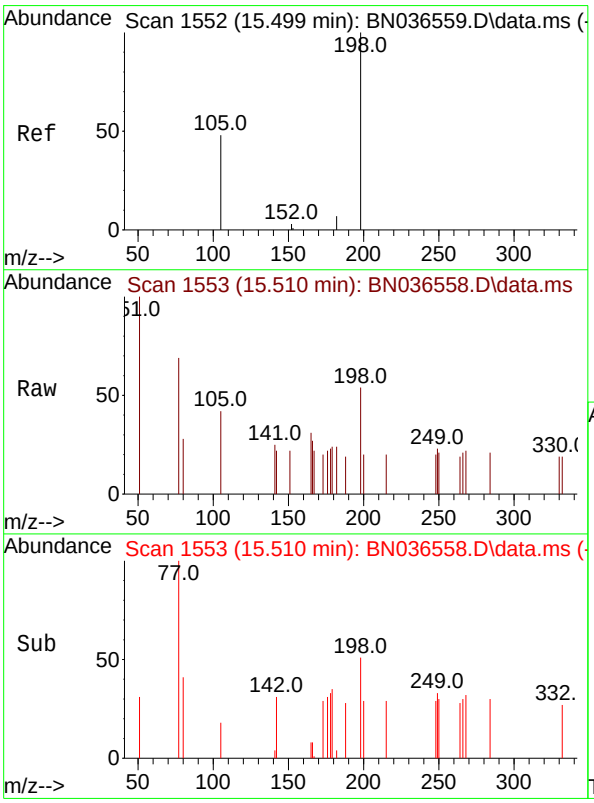

#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.111 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.2

Tgt Ion:188 Resp: 7506

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 11.9 | 8.8 | 13.2 |

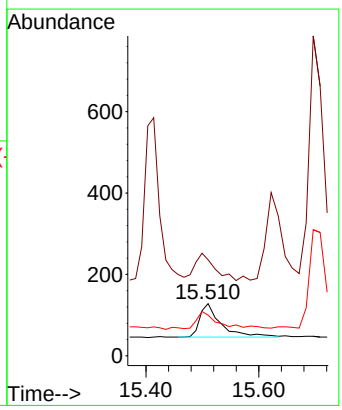


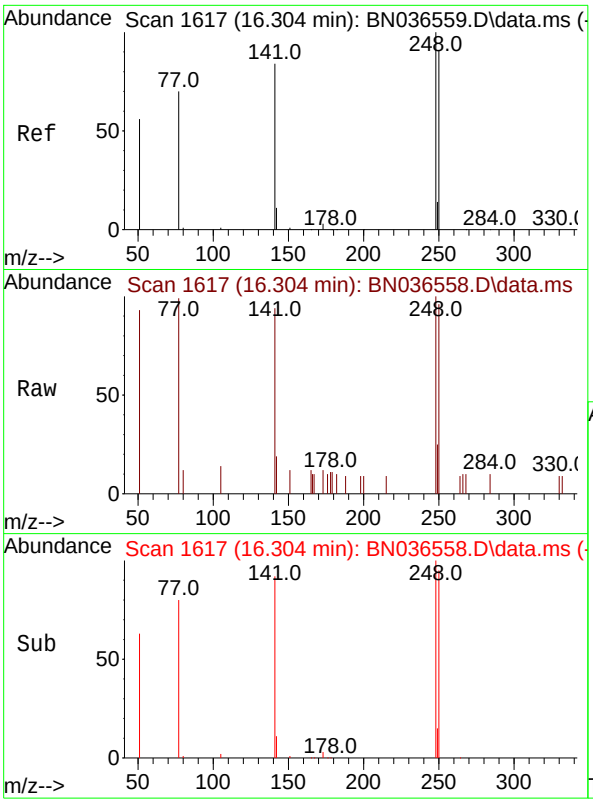




#20
4,6-Dinitro-2-methylphenol
Concen: 0.258 ng
RT: 15.510 min Scan# 1553
Delta R.T. 0.011 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:198 Resp: 214

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 198 | 100 | | |
| 51 | 184.4 | 107.9 | 161.9# |
| 105 | 78.1 | 56.2 | 84.2 |



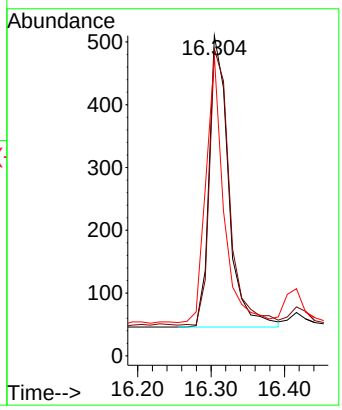


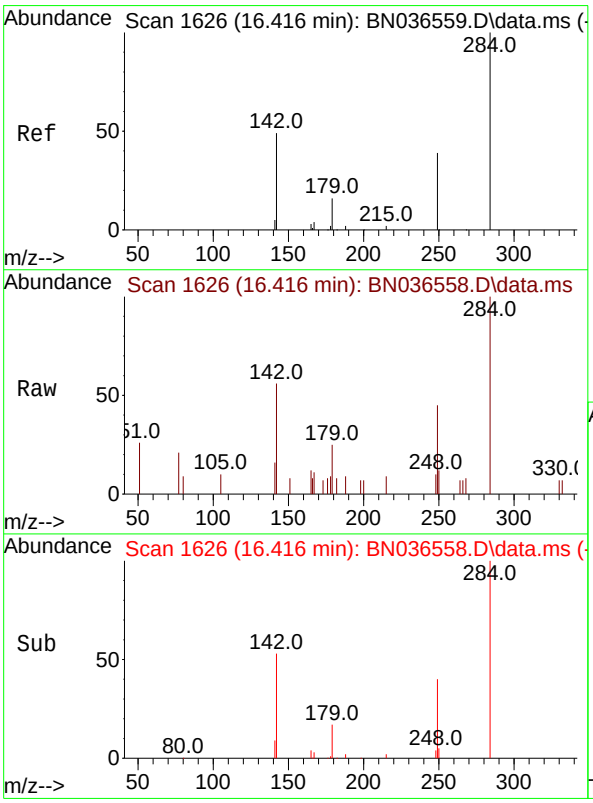

#21
4-Bromophenyl-phenylether
Concen: 0.181 ng
RT: 16.304 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.2

Tgt Ion:248 Resp: 853

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 95.9 | 73.0 | 109.6 |
| 141 | 93.7 | 68.6 | 103.0 |

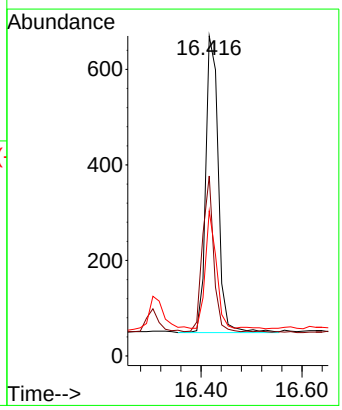


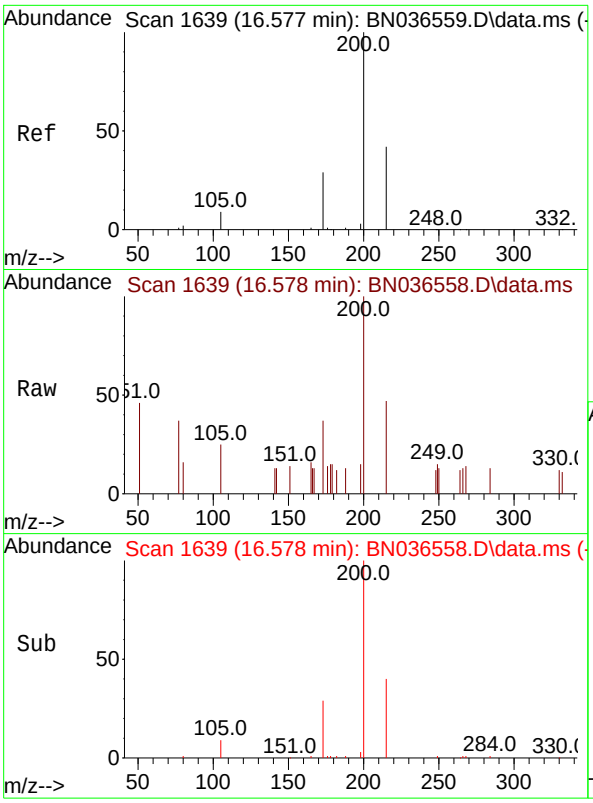




#22
Hexachlorobenzene
Concen: 0.190 ng
RT: 16.416 min Scan# 1626
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:284 Resp: 1079

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 47.0 | 37.0 | 55.4 |
| 249 | 34.8 | 28.1 | 42.1 |



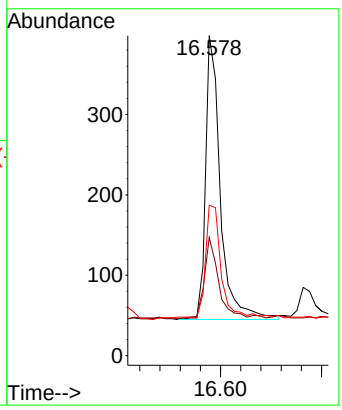


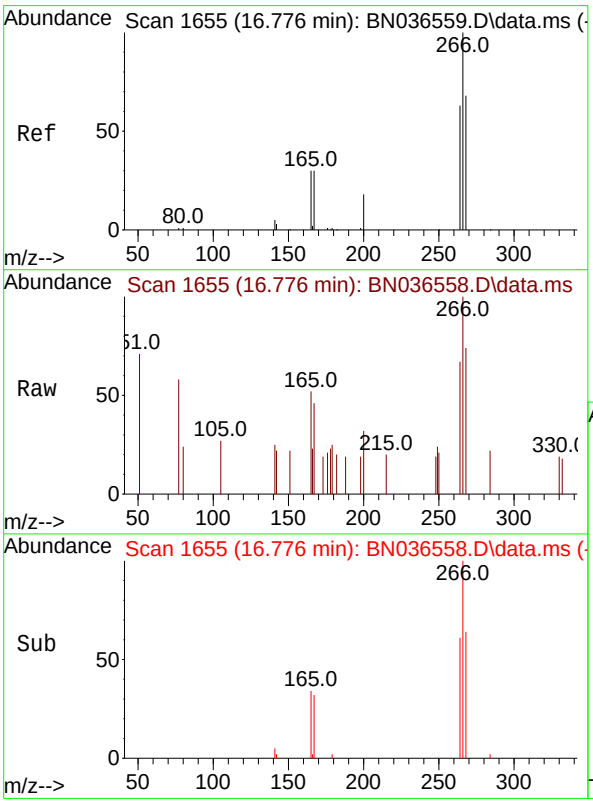

#23
Atrazine
Concen: 0.190 ng
RT: 16.578 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.2

Tgt Ion:200 Resp: 716

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 173 | 36.9 | 27.3 | 40.9 |
| 215 | 47.0 | 36.8 | 55.2 |

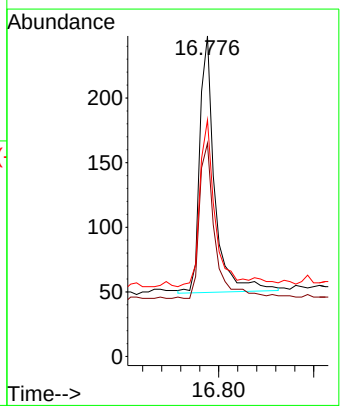


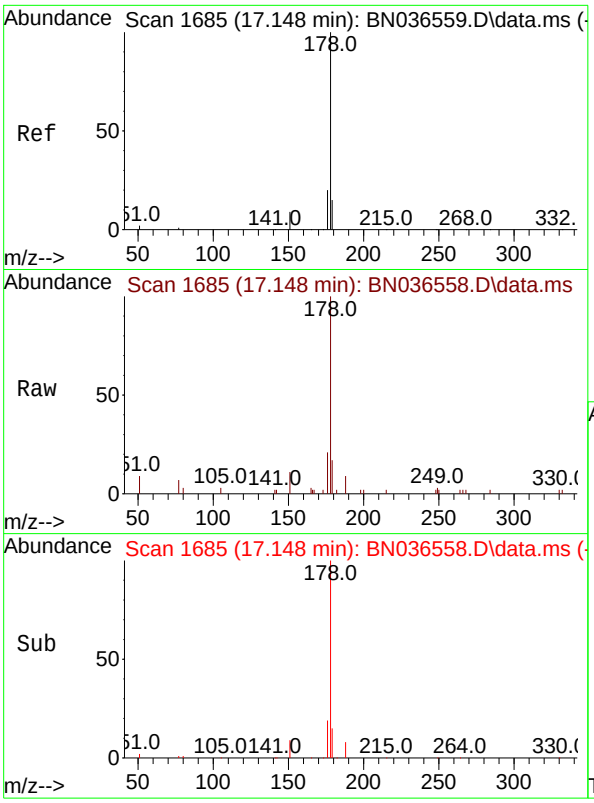




#24
Pentachlorophenol
Concen: 0.168 ng
RT: 16.776 min Scan# 1655
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:266 Resp: 435

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 264 | 63.4 | 49.6 | 74.4 |
| 268 | 65.7 | 50.9 | 76.3 |



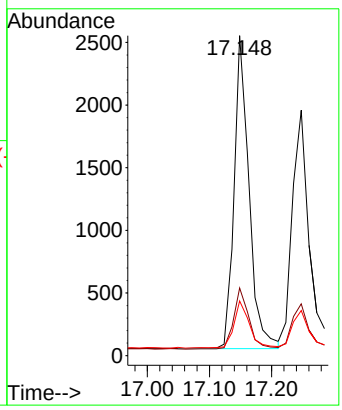


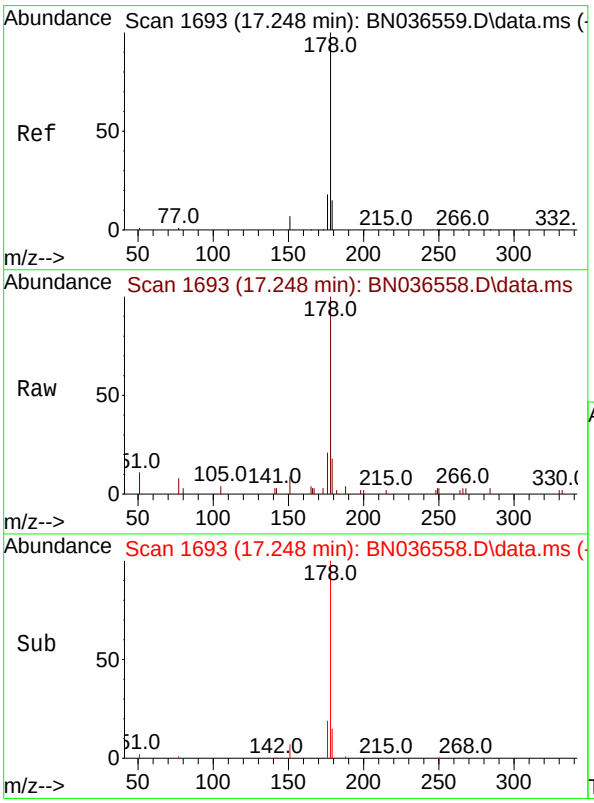

#25
Phenanthrene
Concen: 0.185 ng
RT: 17.148 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.2

Tgt Ion:178 Resp: 4171

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 20.0 | 15.9 | 23.9 |
| 179 | 15.5 | 12.2 | 18.4 |

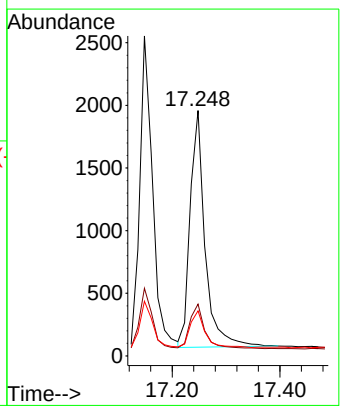


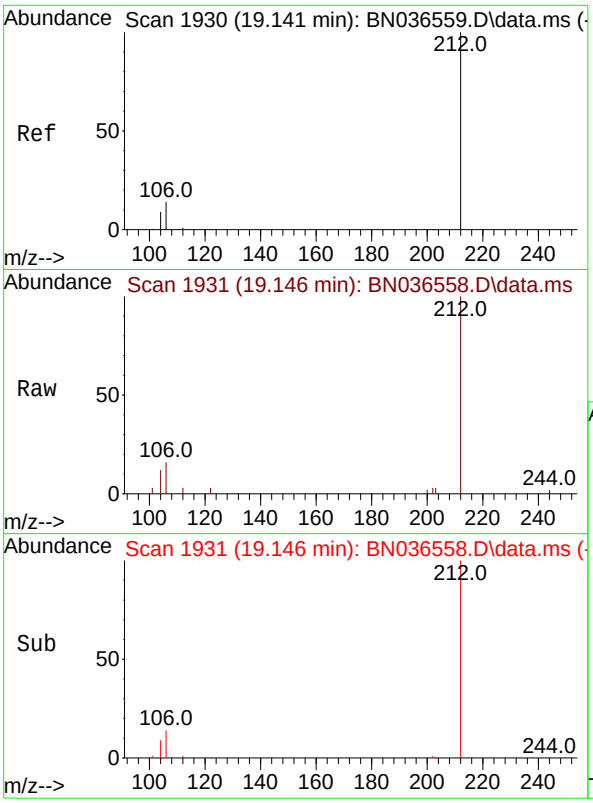




#26
Anthracene
Concen: 0.179 ng
RT: 17.248 min Scan# 1693
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:178 Resp: 3645

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.1 | 15.4 | 23.2 |
| 179 | 15.1 | 12.6 | 18.8 |



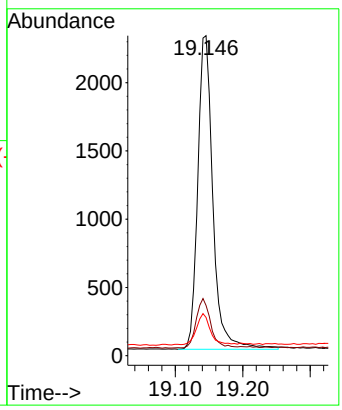


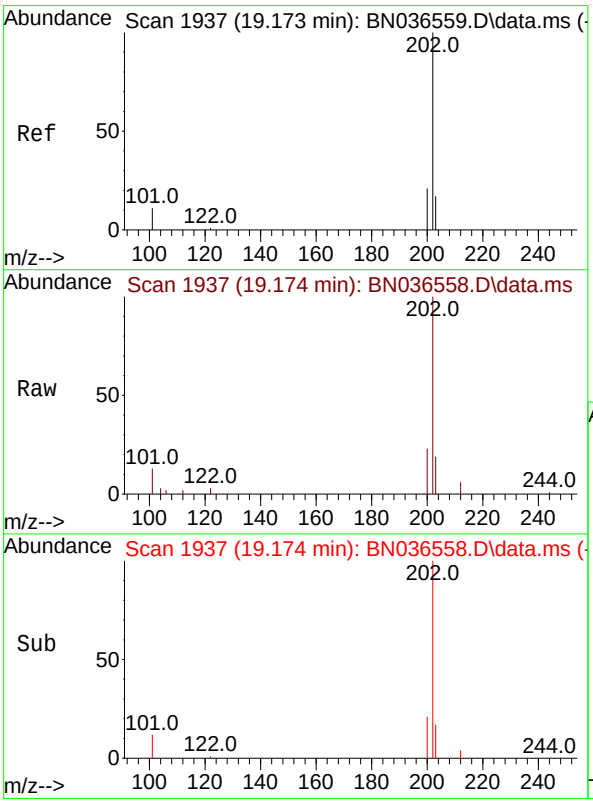

#27
Fluoranthene-d10
Concen: 0.186 ng
RT: 19.146 min Scan# 1
Delta R.T. 0.005 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.2

Tgt Ion:212 Resp: 3583

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 15.0 | 11.8 | 17.6 |
| 104 | 9.3 | 7.3 | 10.9 |

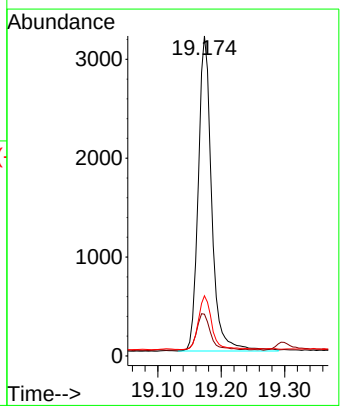


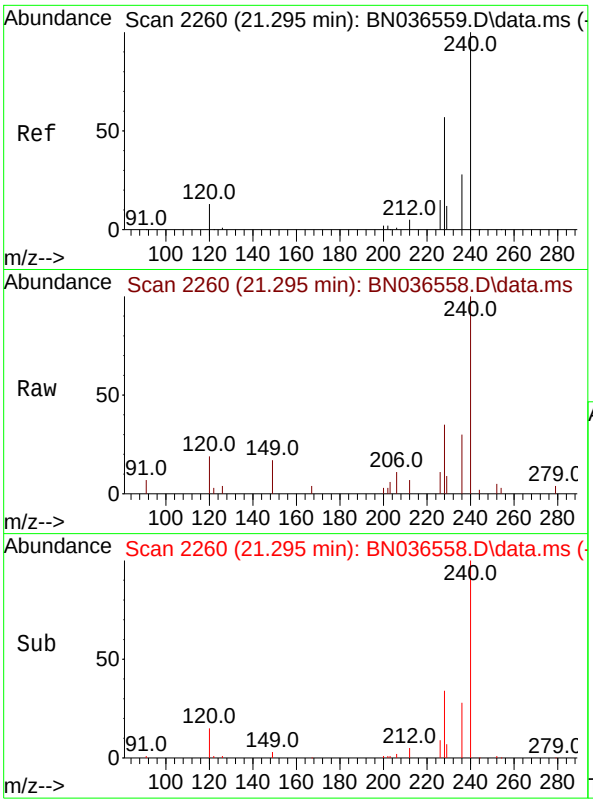




#28
Fluoranthene
Concen: 0.184 ng
RT: 19.174 min Scan# 1937
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:202 Resp: 4666

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 12.1 | 9.4 | 14.0 |
| 203 | 17.1 | 13.5 | 20.3 |



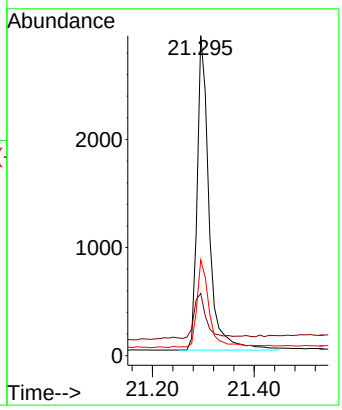


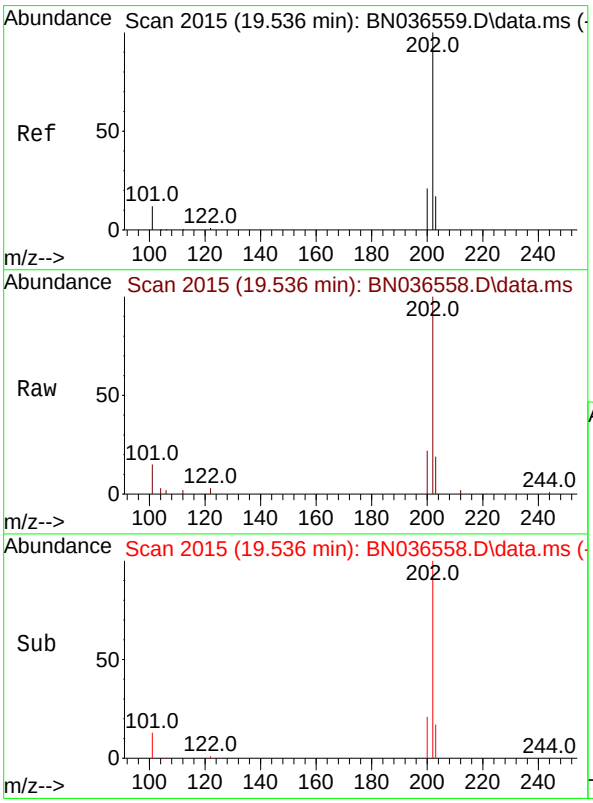

#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.2

Tgt Ion:240 Resp: 4730

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 19.5 | 14.6 | 22.0 |
| 236 | 29.9 | 24.1 | 36.1 |

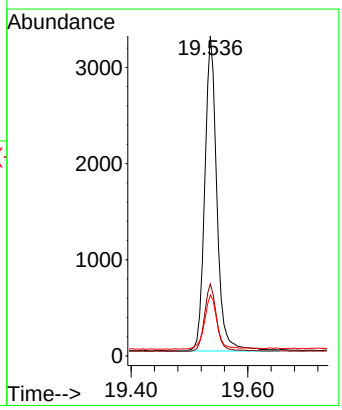


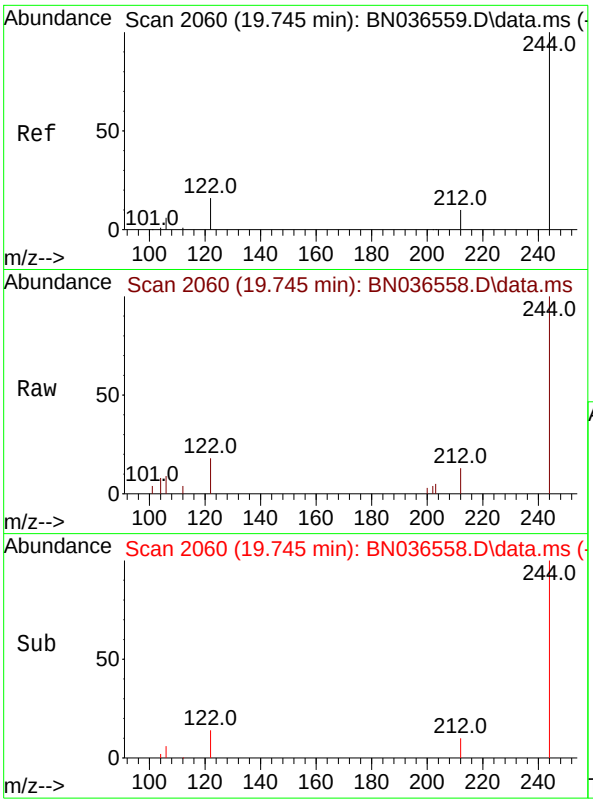




#30
Pyrene
Concen: 0.205 ng
RT: 19.536 min Scan# 2015
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:202 Resp: 4742

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.1 | 17.1 | 25.7 |
| 203 | 17.7 | 14.1 | 21.1 |



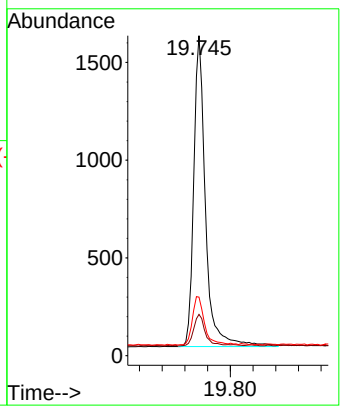


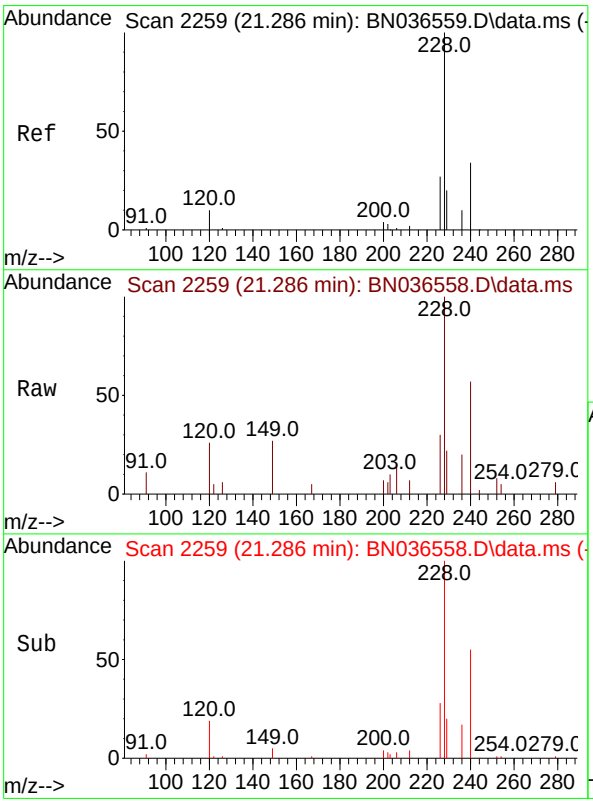

#31
Terphenyl-d14
Concen: 0.201 ng
RT: 19.745 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.2

Tgt Ion:244 Resp: 2283

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 12.9 | 9.6 | 14.4 |
| 122 | 18.3 | 13.9 | 20.9 |

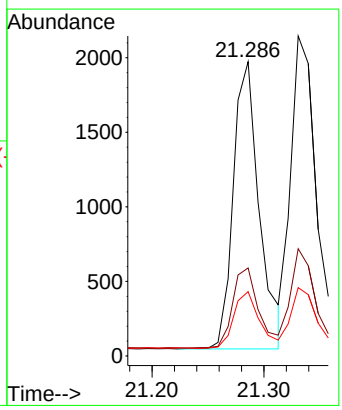


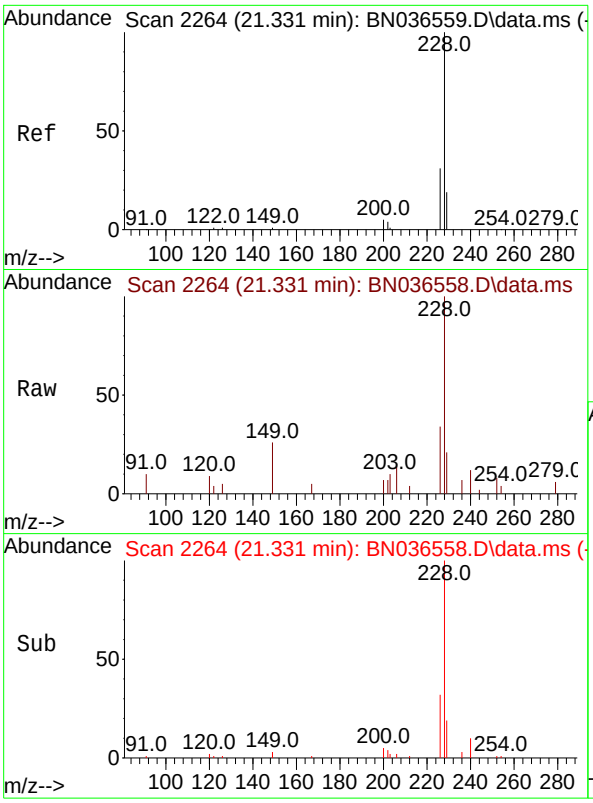




#32
Benzo(a)anthracene
Concen: 0.189 ng
RT: 21.286 min Scan# 2259
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:228 Resp: 3111

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 29.9 | 22.5 | 33.7 |
| 229 | 21.9 | 16.6 | 25.0 |



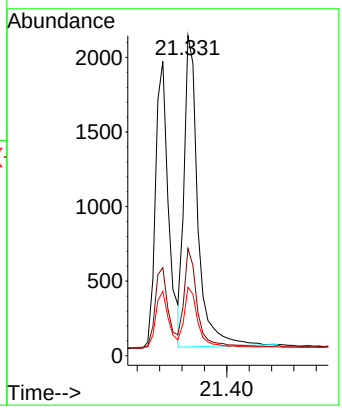


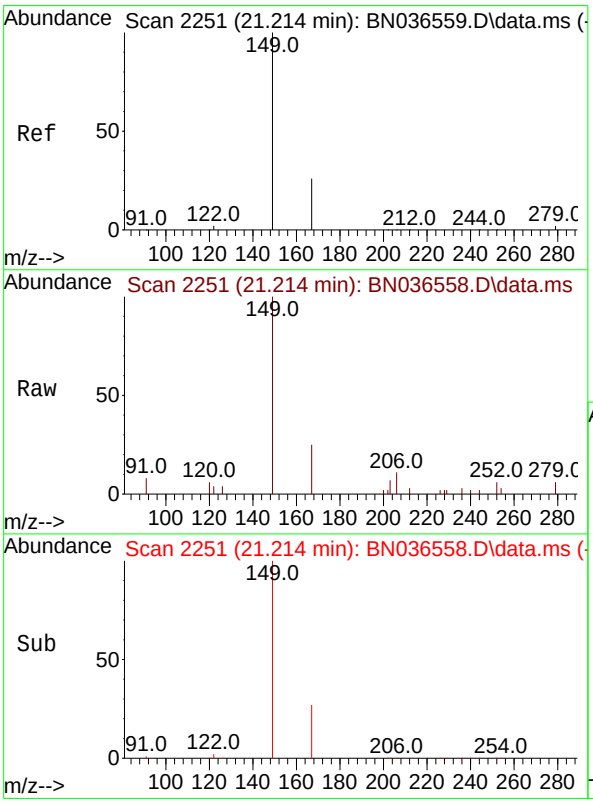

#33
Chrysene
Concen: 0.199 ng
RT: 21.331 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.2

Tgt Ion:228 Resp: 3568

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 33.5 | 25.3 | 37.9 |
| 229 | 21.4 | 15.8 | 23.8 |

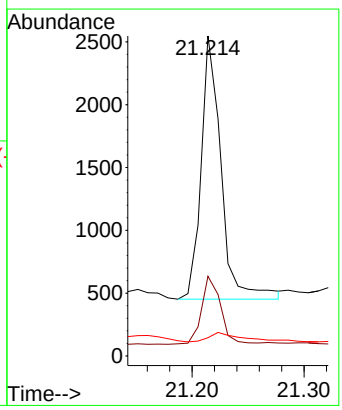


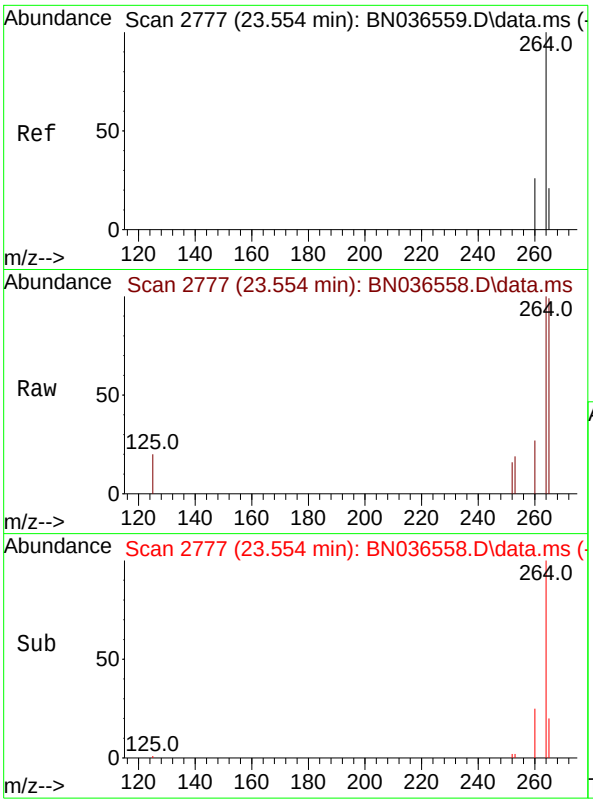




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.222 ng
RT: 21.214 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:149 Resp: 2601

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 24.7 | 20.7 | 31.1 |
| 279 | 5.7 | 3.6 | 5.4# |



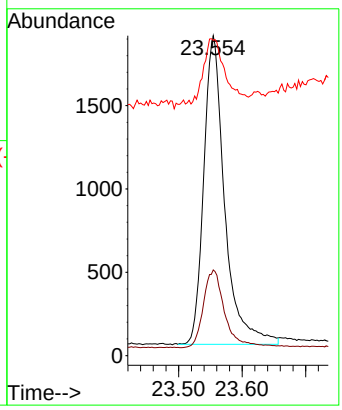


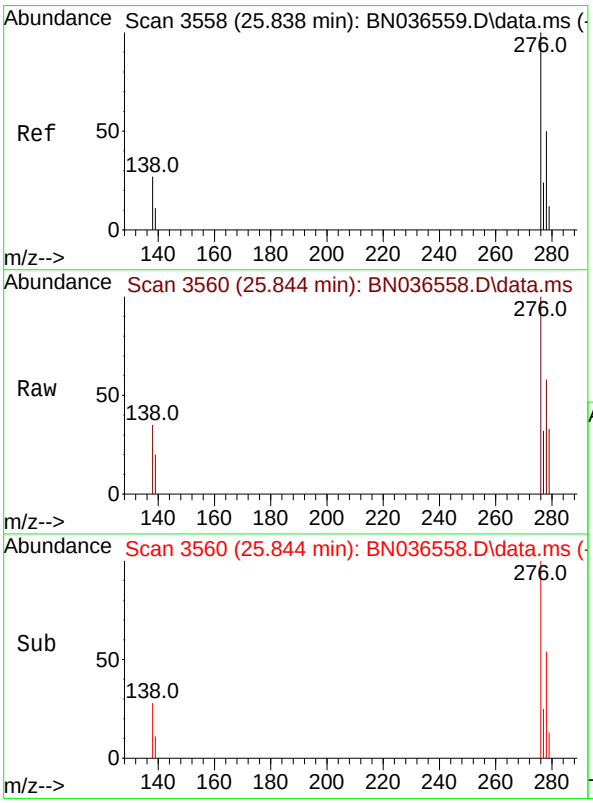

#35
Perylene-d12
Concen: 0.400 ng
RT: 23.554 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.2

Tgt Ion:264 Resp: 4241

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 26.8 | 22.6 | 33.8 |
| 265 | 98.5 | 88.1 | 132.1 |

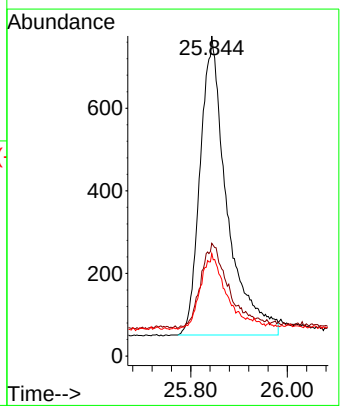


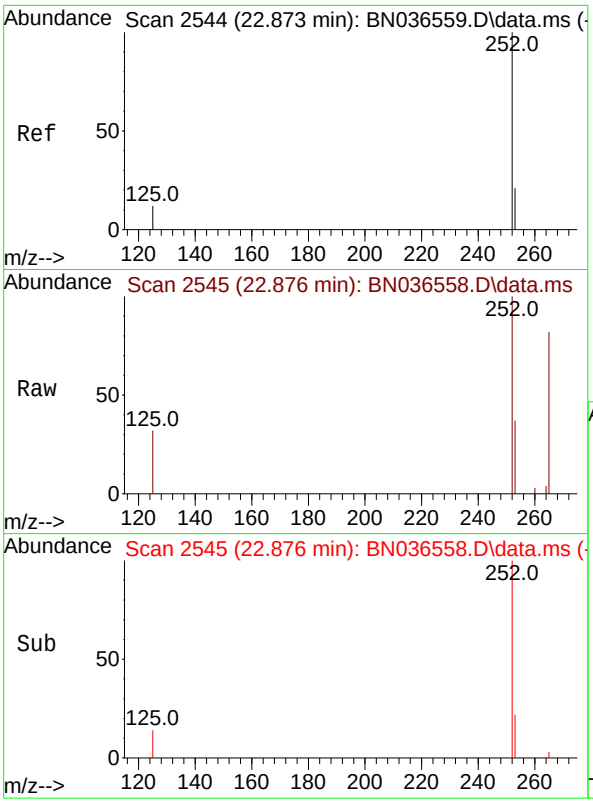




#36
Indeno(1,2,3-cd)pyrene
Concen: 0.182 ng
RT: 25.844 min Scan# 3560
Delta R.T. 0.006 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:276 Resp: 2790

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 29.1 | 23.4 | 35.2 |
| 277 | 23.4 | 20.0 | 30.0 |



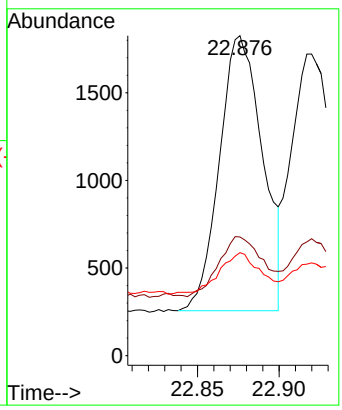


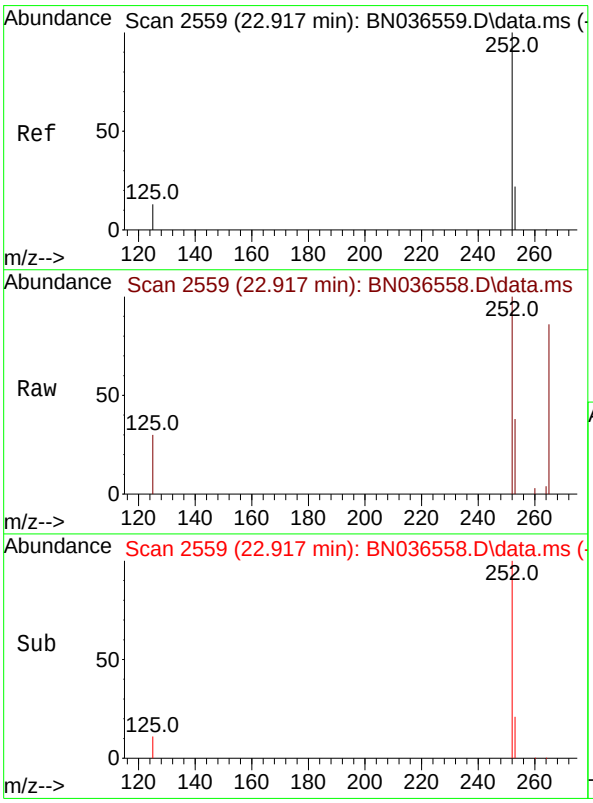

#37
Benzo(b)fluoranthene
Concen: 0.187 ng
RT: 22.876 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.2

Tgt Ion:252 Resp: 2883

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 37.1 | 23.9 | 35.9# |
| 125 | 32.2 | 17.4 | 26.2# |

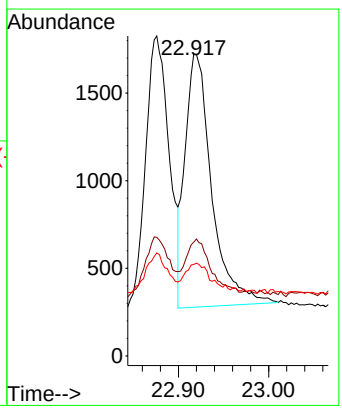


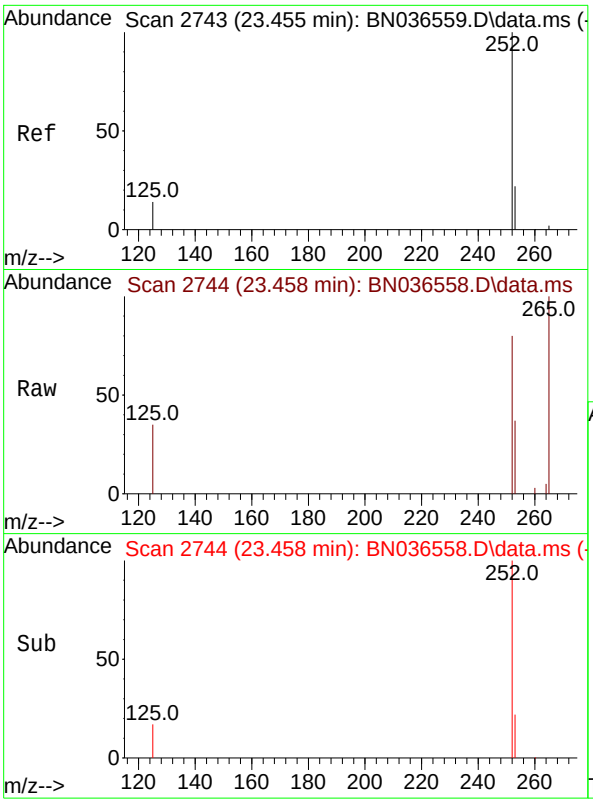




#38
Benzo(k)fluoranthene
Concen: 0.183 ng
RT: 22.917 min Scan# 2559
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:252 Resp: 2962

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 37.7 | 24.6 | 36.8# |
| 125 | 30.3 | 17.8 | 26.8# |



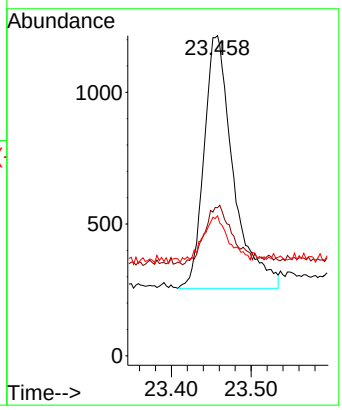


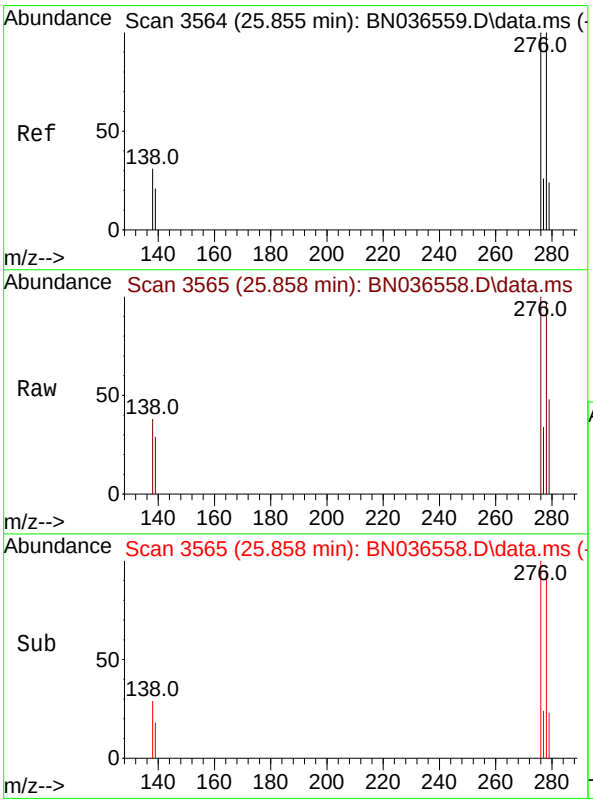

#39
Benzo(a)pyrene
Concen: 0.188 ng
RT: 23.458 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.2

Tgt Ion:252 Resp: 2443

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 46.3 | 27.8 | 41.8# |
| 125 | 43.7 | 22.7 | 34.1# |

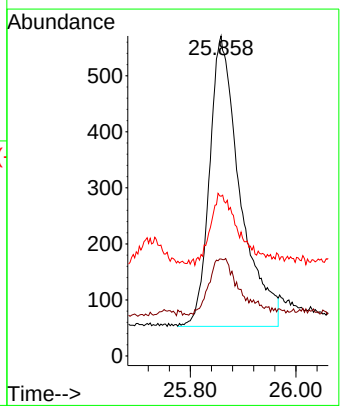


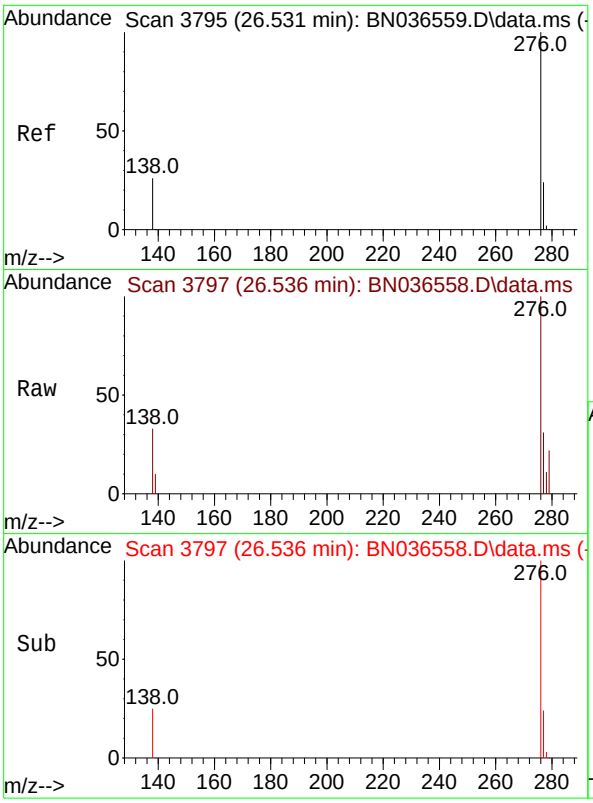




#40
Dibenzo(a,h)anthracene
Concen: 0.175 ng
RT: 25.858 min Scan# 3565
Delta R.T. 0.003 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:278 Resp: 2080

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 30.3 | 20.8 | 31.2 |
| 279 | 49.9 | 28.8 | 43.2# |



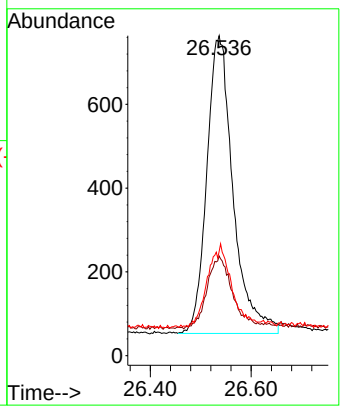



#41
Benzo(g,h,i)perylene
Concen: 0.189 ng
RT: 26.536 min Scan# 3
Delta R.T. 0.006 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.2

Tgt Ion:276 Resp: 2573

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 31.2 | 22.2 | 33.4 |
| 138 | 32.6 | 24.1 | 36.1 |



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036757.D
Acq On : 28 Mar 2025 03:46
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 22 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Quant Time: Mar 28 05:36:56 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.703 | 152 | 1974 | 0.400 | ng | | -0.02 |
| 7) Naphthalene-d8 | 10.488 | 136 | 4607 | 0.400 | ng | | -0.02 |
| 13) Acenaphthene-d10 | 14.334 | 164 | 2750 | 0.400 | ng | | -0.03 |
| 19) Phenanthrene-d10 | 17.087 | 188 | 5937 | 0.400 | ng | | -0.02 |
| 29) Chrysene-d12 | 21.277 | 240 | 5680 | 0.400 | ng | | #-0.02 |
| 35) Perylene-d12 | 23.519 | 264 | 5140 | 0.400 | ng | | #-0.03 |
| System Monitoring Compounds | | | | | | | |
| 4) 2-Fluorophenol | 5.291 | 112 | 1543 | 0.335 | ng | | -0.02 |
| 5) Phenol-d6 | 6.872 | 99 | 1947 | 0.343 | ng | | -0.03 |
| 8) Nitrobenzene-d5 | 8.854 | 82 | 1705 | 0.340 | ng | | -0.02 |
| 11) 2-Methylnaphthalene-d10 | 12.080 | 152 | 2347 | 0.342 | ng | | -0.03 |
| 14) 2,4,6-Tribromophenol | 15.833 | 330 | 507 | 0.406 | ng | | -0.02 |
| 15) 2-Fluorobiphenyl | 12.963 | 172 | 5537 | 0.346 | ng | | -0.03 |
| 27) Fluoranthene-d10 | 19.118 | 212 | 6252 | 0.411 | ng | | -0.02 |
| 31) Terphenyl-d14 | 19.722 | 244 | 4254 | 0.313 | ng | | -0.02 |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.225 | 88 | 873 | 0.399 | ng | | 97 |
| 3) n-Nitrosodimethylamine | 3.536 | 42 | 1735 | 0.392 | ng | | 95 |
| 6) bis(2-Chloroethyl)ether | 7.125 | 93 | 2072 | 0.353 | ng | | 98 |
| 9) Naphthalene | 10.530 | 128 | 4865 | 0.359 | ng | | 99 |
| 10) Hexachlorobutadiene | 10.829 | 225 | 1140 | 0.357 | ng | # | 99 |
| 12) 2-Methylnaphthalene | 12.157 | 142 | 3049 | 0.354 | ng | | 98 |
| 16) Acenaphthylene | 14.056 | 152 | 4680 | 0.361 | ng | | 99 |
| 17) Acenaphthene | 14.398 | 154 | 3124 | 0.368 | ng | | 100 |
| 18) Fluorene | 15.393 | 166 | 4263 | 0.371 | ng | | 99 |
| 20) 4,6-Dinitro-2-methylph... | 15.478 | 198 | 472 | 0.457 | ng | | 83 |
| 21) 4-Bromophenyl-phenylether | 16.280 | 248 | 1382 | 0.372 | ng | | 91 |
| 22) Hexachlorobenzene | 16.391 | 284 | 1636 | 0.364 | ng | | 97 |
| 23) Atrazine | 16.553 | 200 | 1154 | 0.387 | ng | | 97 |
| 24) Pentachlorophenol | 16.739 | 266 | 868 | 0.424 | ng | | 97 |
| 25) Phenanthrene | 17.124 | 178 | 6866 | 0.386 | ng | | 100 |
| 26) Anthracene | 17.223 | 178 | 6014 | 0.374 | ng | | 99 |
| 28) Fluoranthene | 19.150 | 202 | 8476 | 0.424 | ng | | 99 |
| 30) Pyrene | 19.513 | 202 | 9024 | 0.325 | ng | | 100 |
| 32) Benzo(a)anthracene | 21.259 | 228 | 7146 | 0.362 | ng | | 99 |
| 33) Chrysene | 21.313 | 228 | 8272 | 0.383 | ng | | 99 |
| 34) Bis(2-ethylhexyl)phtha... | 21.196 | 149 | 5431 | 0.386 | ng | # | 99 |
| 36) Indeno(1,2,3-cd)pyrene | 25.782 | 276 | 7314 | 0.394 | ng | | 95 |
| 37) Benzo(b)fluoranthene | 22.841 | 252 | 7293 | 0.390 | ng | | 95 |
| 38) Benzo(k)fluoranthene | 22.841 | 252 | 7293 | 0.372 | ng | | 94 |
| 39) Benzo(a)pyrene | 23.420 | 252 | 6291 | 0.399 | ng | | 95 |
| 40) Dibenzo(a,h)anthracene | 25.803 | 278 | 5522 | 0.382 | ng | | 91 |
| 41) Benzo(g,h,i)perylene | 26.475 | 276 | 6376 | 0.386 | ng | | 94 |

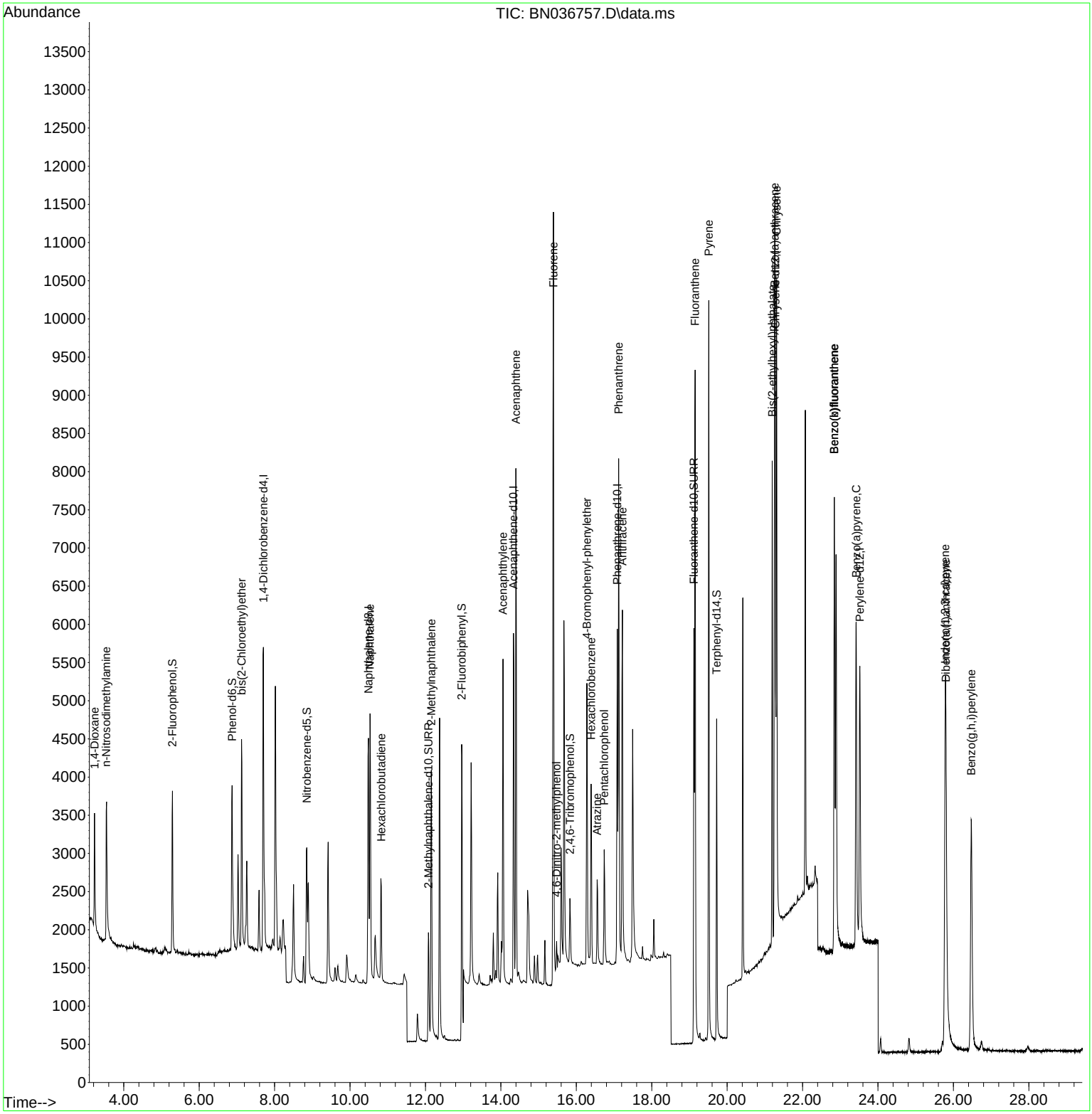
(#) = qualifier out of range (m) = manual integration (+) = signals summed

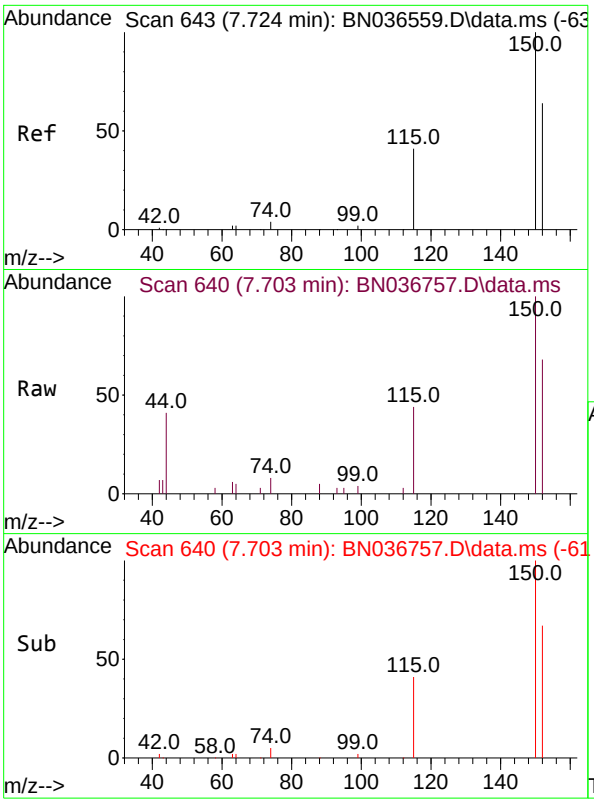
Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036757.D
Acq On : 28 Mar 2025 03:46
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 22 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Quant Time: Mar 28 05:36:56 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration



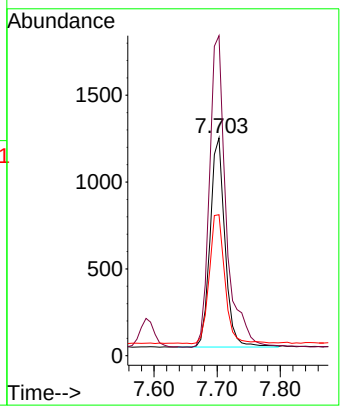


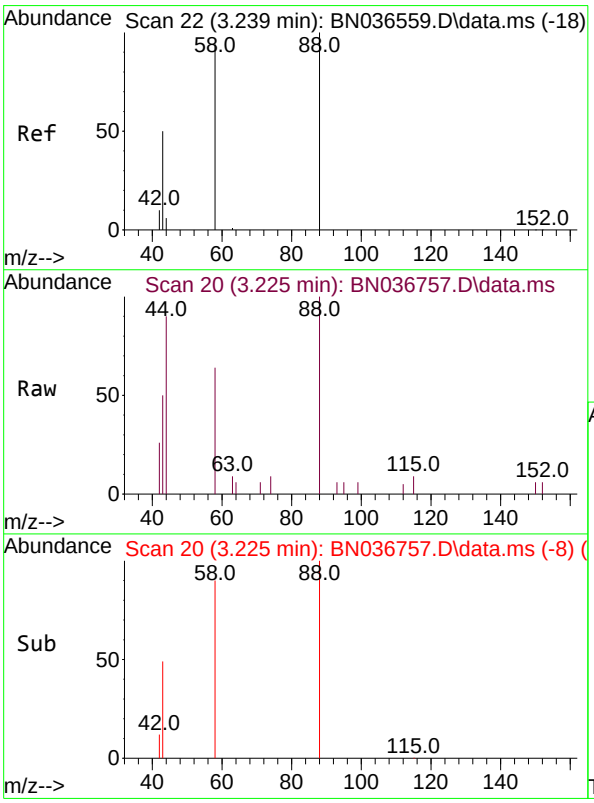

#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.703 min Scan# 64
Delta R.T. -0.021 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:152 Resp: 1974

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 147.0 | 123.7 | 185.5 |
| 115 | 64.8 | 54.3 | 81.5 |

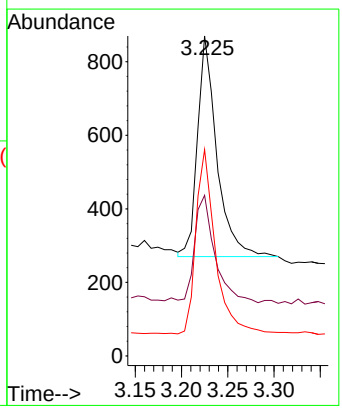


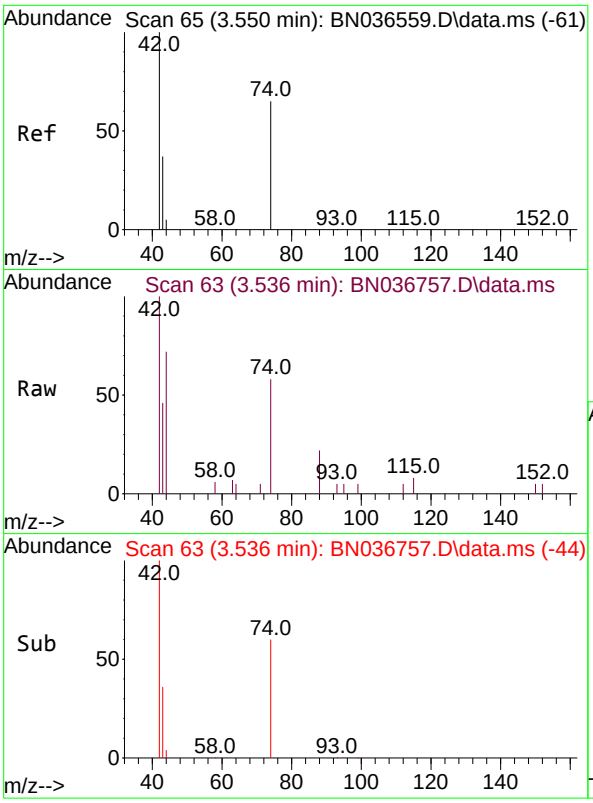




#2
1,4-Dioxane
Concen: 0.399 ng
RT: 3.225 min Scan# 20
Delta R.T. -0.014 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion: 88 Resp: 873

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 51.8 | 37.8 | 56.8 |
| 58 | 83.6 | 67.4 | 101.2 |



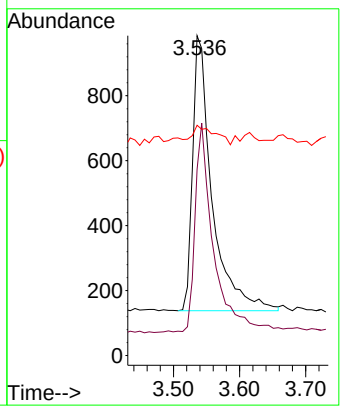


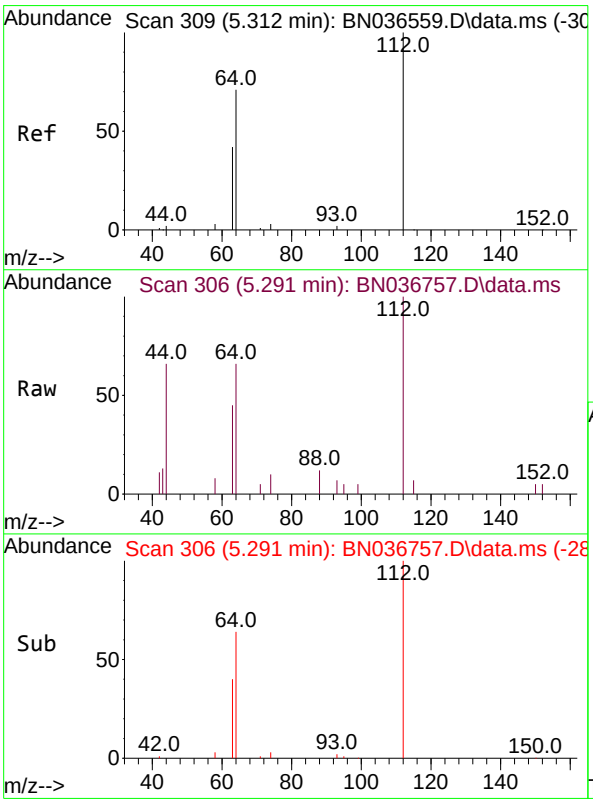

#3
n-Nitrosodimethylamine
Concen: 0.392 ng
RT: 3.536 min Scan# 6
Delta R.T. -0.014 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion: 42 Resp: 1735

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 70.8 | 60.6 | 90.8 |
| 44 | 8.1 | 6.3 | 9.5 |

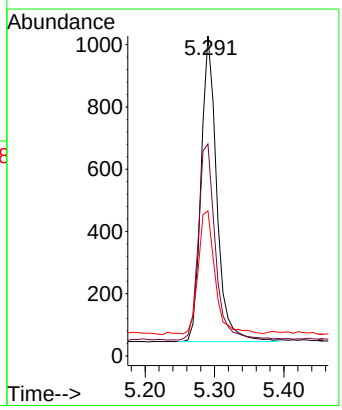


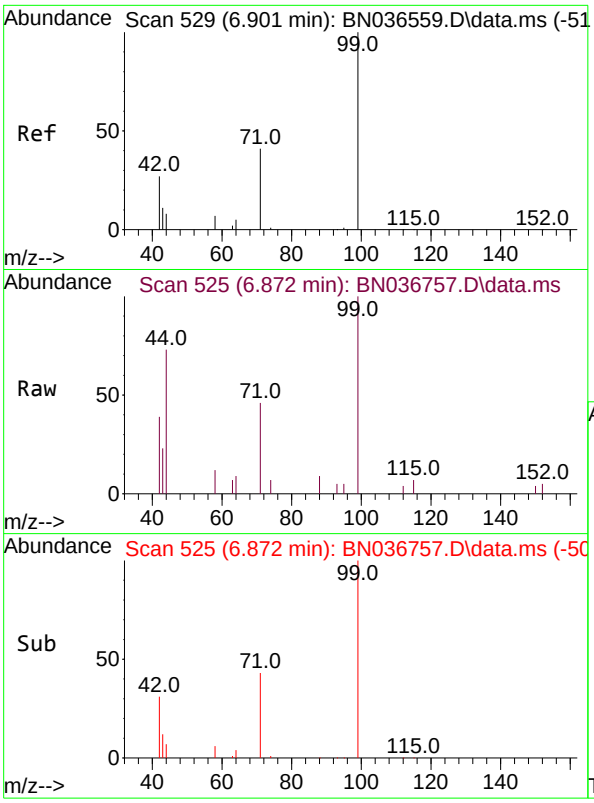




#4
2-Fluorophenol
Concen: 0.335 ng
RT: 5.291 min Scan# 306
Delta R.T. -0.022 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:112 Resp: 1543

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 69.8 | 53.1 | 79.7 |
| 63 | 43.0 | 31.8 | 47.8 |



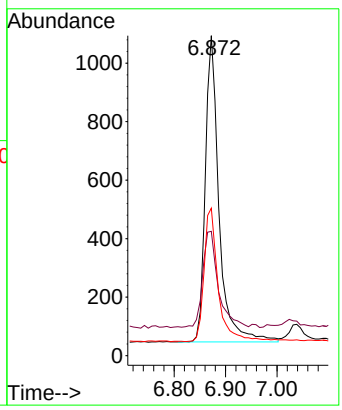


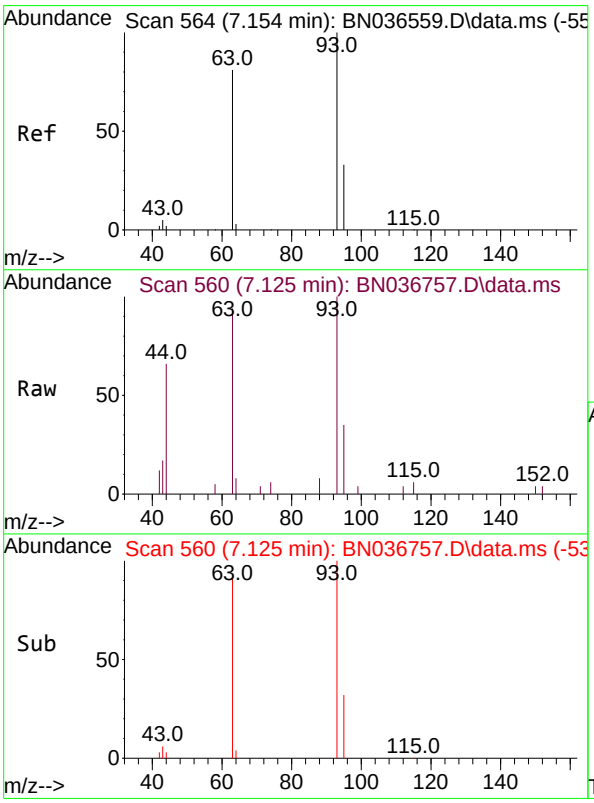

#5
Phenol-d6
Concen: 0.343 ng
RT: 6.872 min Scan# 5
Delta R.T. -0.029 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion: 99 Resp: 1947

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 35.4 | 26.5 | 39.7 |
| 71 | 46.1 | 34.1 | 51.1 |

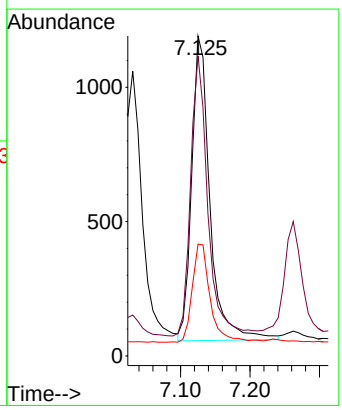


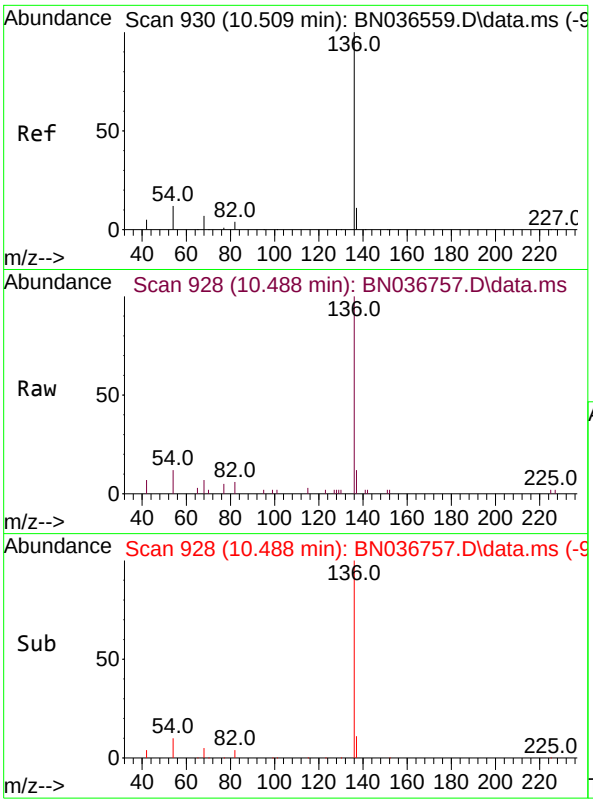




#6
bis(2-Chloroethyl)ether
Concen: 0.353 ng
RT: 7.125 min Scan# 560
Delta R.T. -0.029 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion: 93 Resp: 2072

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 86.9 | 67.7 | 101.5 |
| 95 | 31.7 | 25.6 | 38.4 |



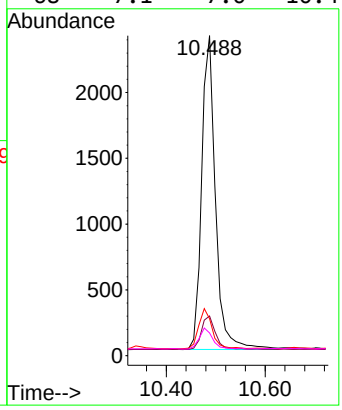


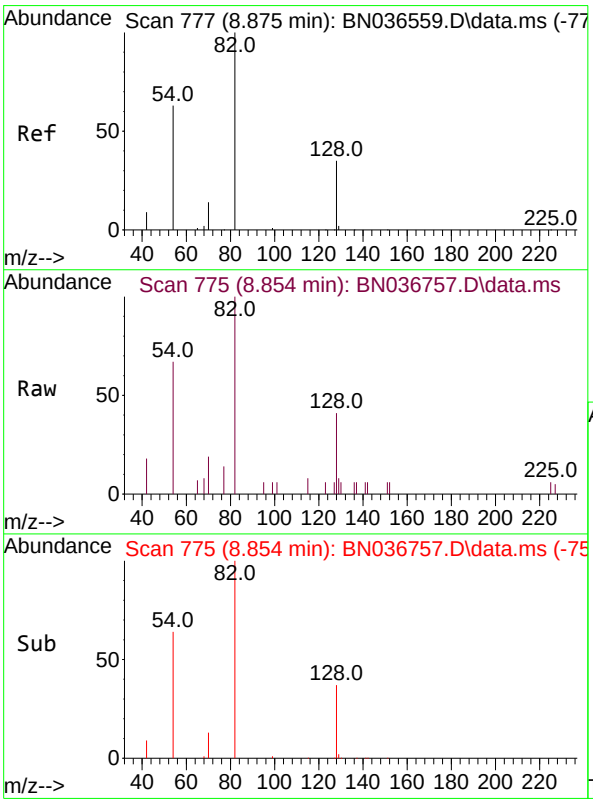

#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.488 min Scan# 9
Delta R.T. -0.021 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:136 Resp: 4607

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 12.4 | 10.3 | 15.5 |
| 54 | 11.6 | 11.5 | 17.3 |
| 68 | 7.1 | 7.0 | 10.4 |

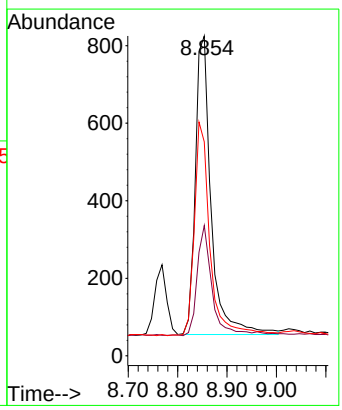


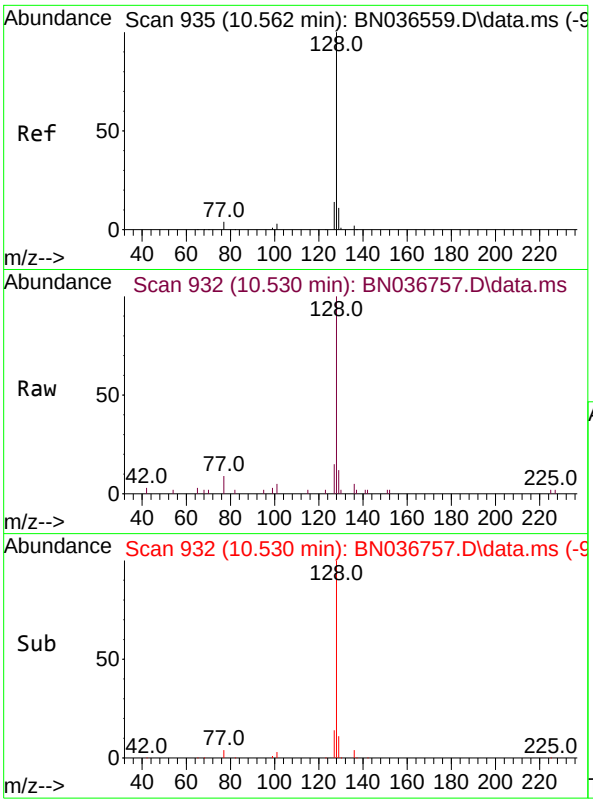




#8
Nitrobenzene-d5
Concen: 0.340 ng
RT: 8.854 min Scan# 775
Delta R.T. -0.021 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion: 82 Resp: 1705

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 40.7 | 30.6 | 45.8 |
| 54 | 66.9 | 52.2 | 78.4 |



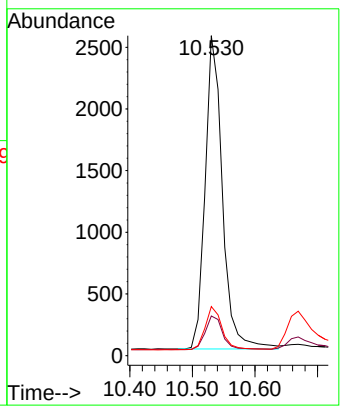


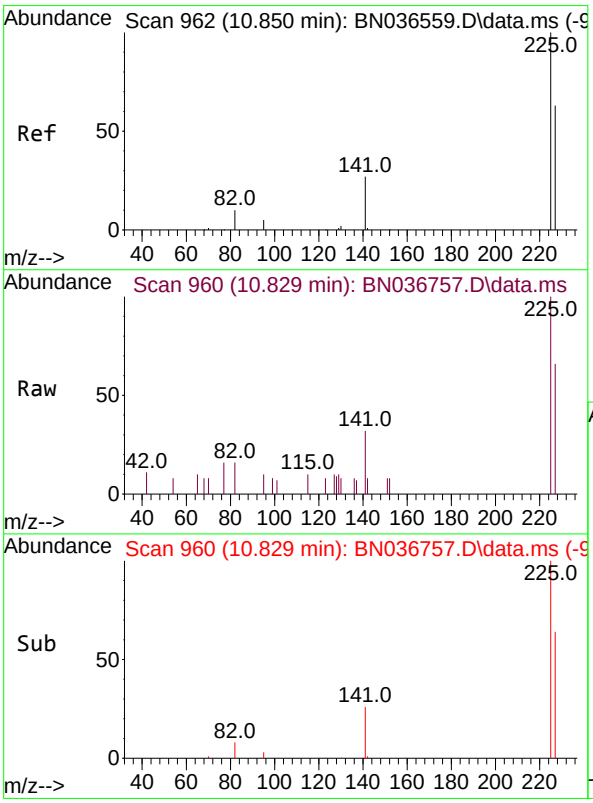

#9
Naphthalene
Concen: 0.359 ng
RT: 10.530 min Scan# 9
Delta R.T. -0.032 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:128 Resp: 4865

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 12.4 | 9.8 | 14.6 |
| 127 | 15.3 | 11.8 | 17.8 |

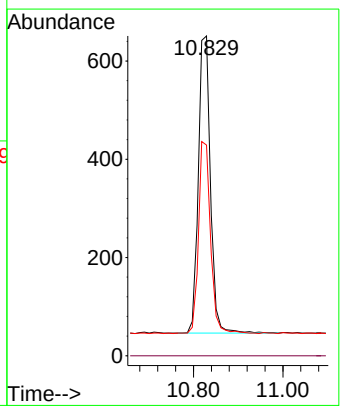


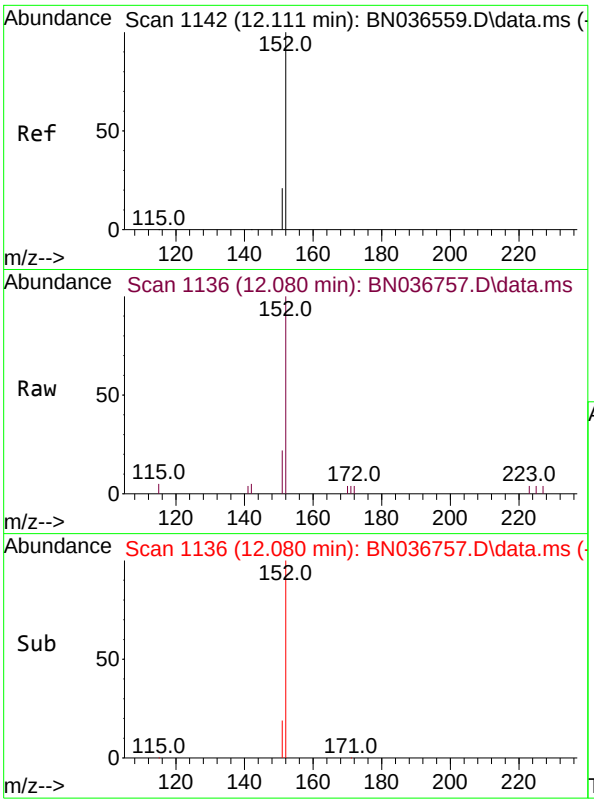




#10
Hexachlorobutadiene
Concen: 0.357 ng
RT: 10.829 min Scan# 960
Delta R.T. -0.021 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:225 Resp: 1140

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 0.0 | 0.0 | 0.0 |
| 227 | 64.3 | 51.8 | 77.8 |



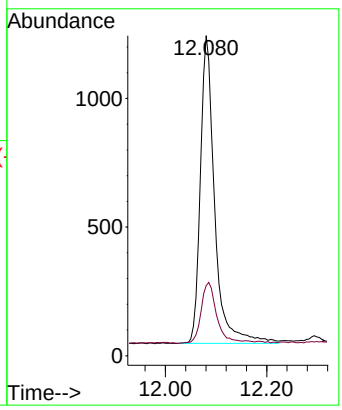


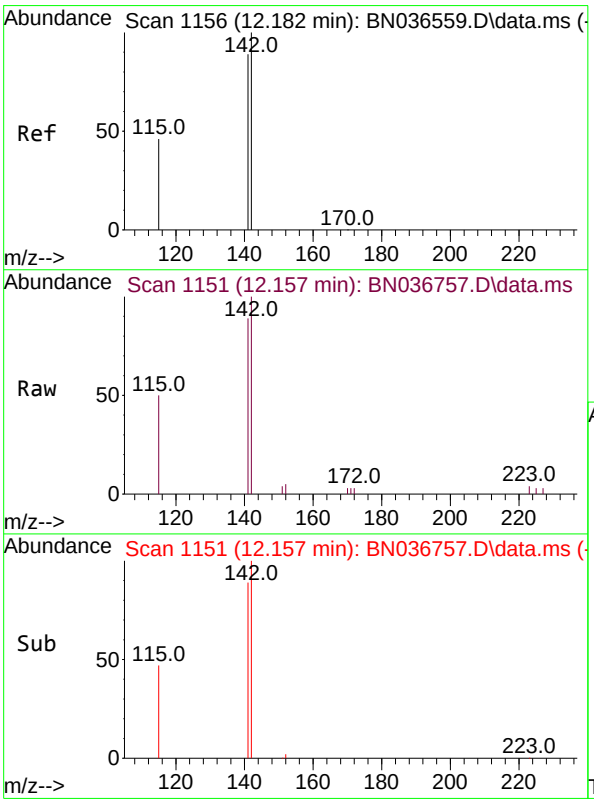

#11
2-Methylnaphthalene-d10
Concen: 0.342 ng
RT: 12.080 min Scan# 11
Delta R.T. -0.030 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:152 Resp: 2347

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 21.6 | 17.0 | 25.6 |

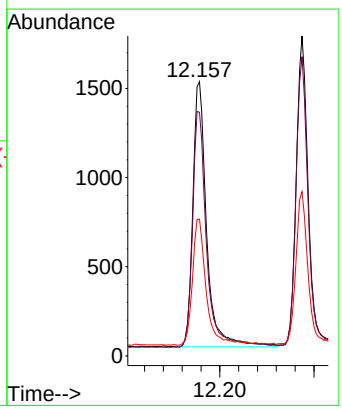


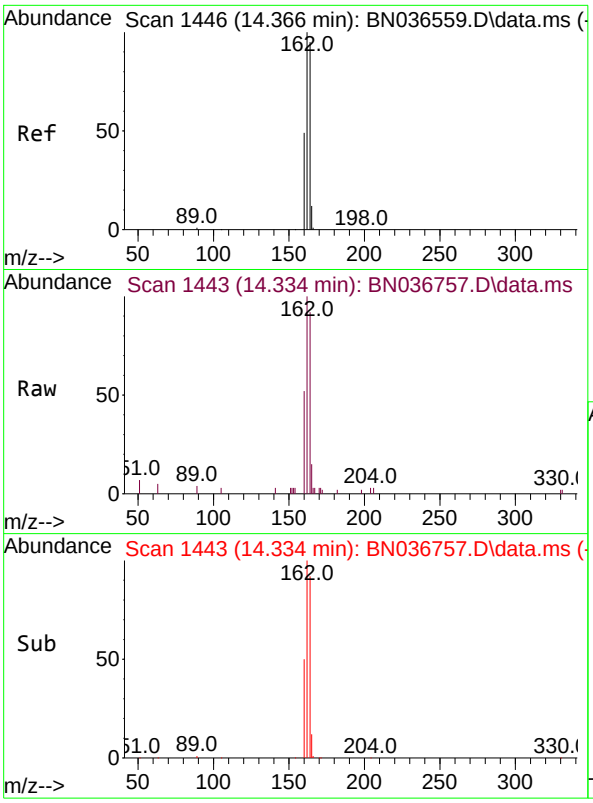




#12
2-Methylnaphthalene
Concen: 0.354 ng
RT: 12.157 min Scan# 1151
Delta R.T. -0.025 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:142 Resp: 3049

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 88.8 | 71.7 | 107.5 |
| 115 | 49.9 | 38.3 | 57.5 |



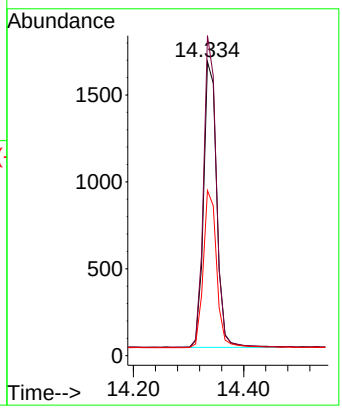


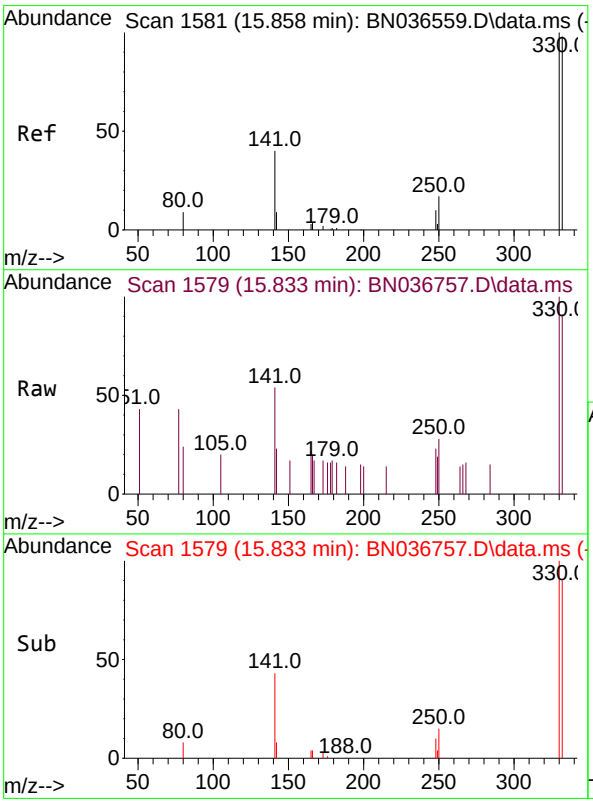

#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.334 min Scan# 14
Delta R.T. -0.032 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:164 Resp: 2750

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 108.9 | 84.2 | 126.2 |
| 160 | 56.2 | 42.2 | 63.2 |

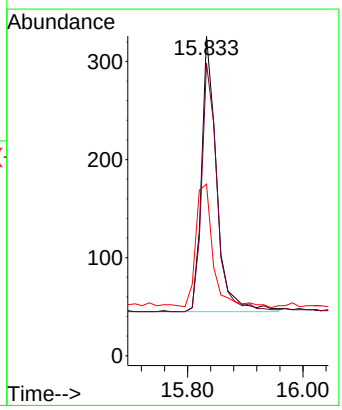


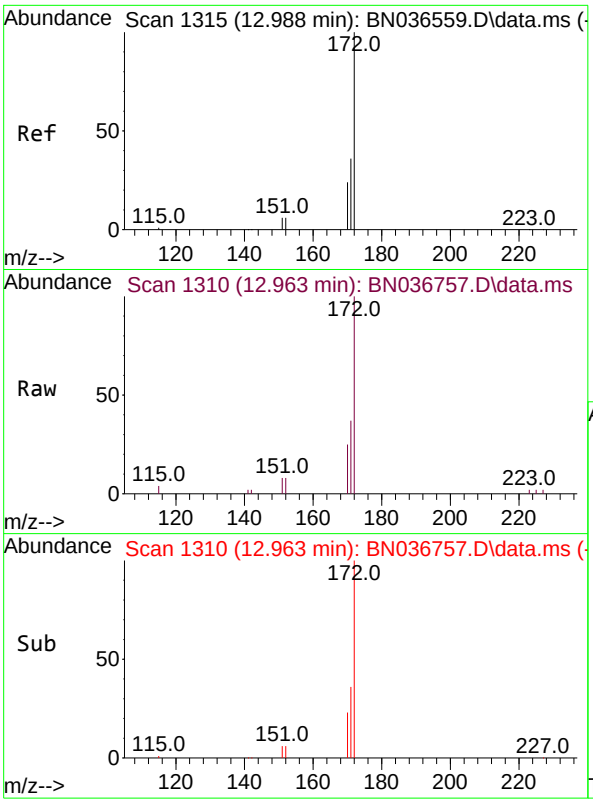




#14
2,4,6-Tribromophenol
Concen: 0.406 ng
RT: 15.833 min Scan# 1579
Delta R.T. -0.025 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:330 Resp: 507

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 92.9 | 75.2 | 112.8 |
| 141 | 52.3 | 43.4 | 65.2 |



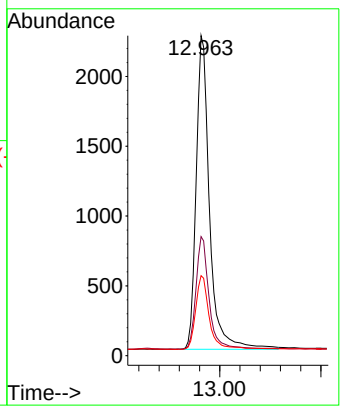


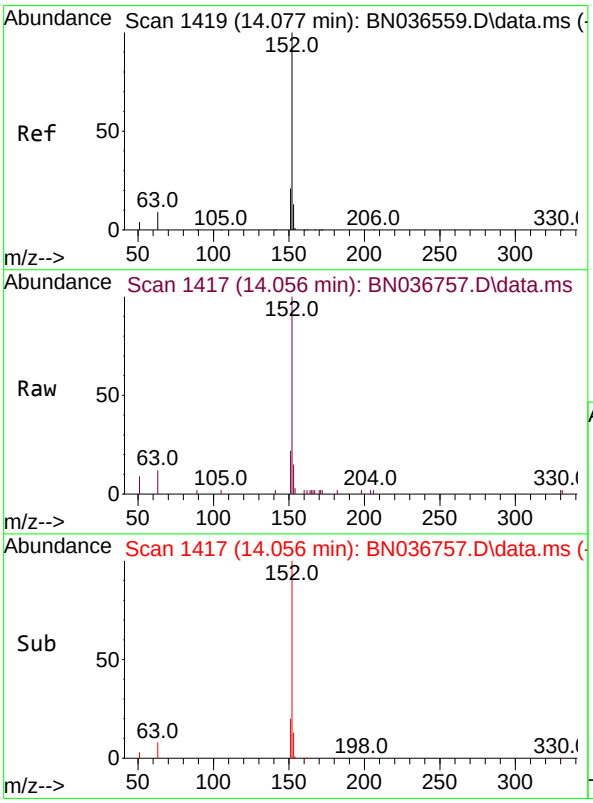

#15
2-Fluorobiphenyl
Concen: 0.346 ng
RT: 12.963 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:172 Resp: 5537

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 37.2 | 29.5 | 44.3 |
| 170 | 25.0 | 20.2 | 30.4 |

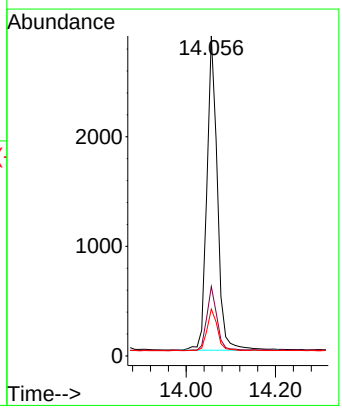


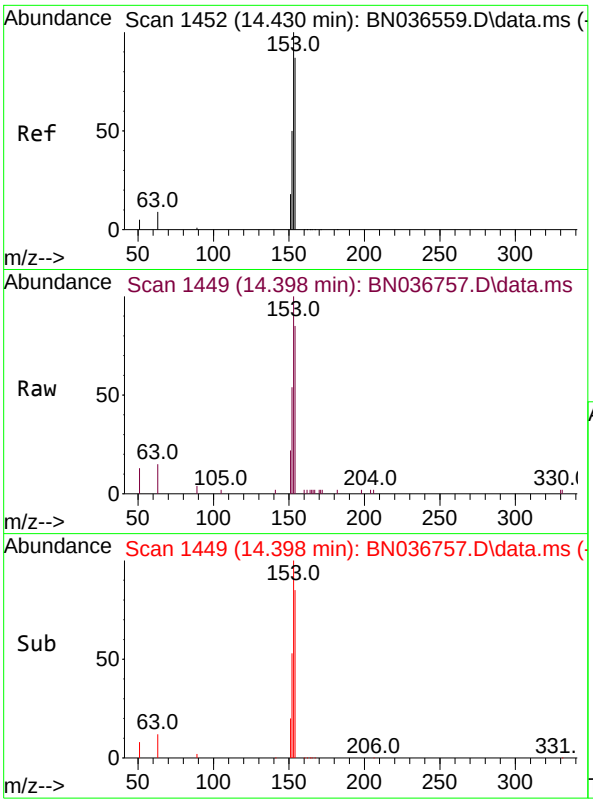




#16
Acenaphthylene
Concen: 0.361 ng
RT: 14.056 min Scan# 1417
Delta R.T. -0.021 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:152 Resp: 4680

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 19.7 | 16.2 | 24.4 |
| 153 | 13.4 | 10.6 | 15.8 |



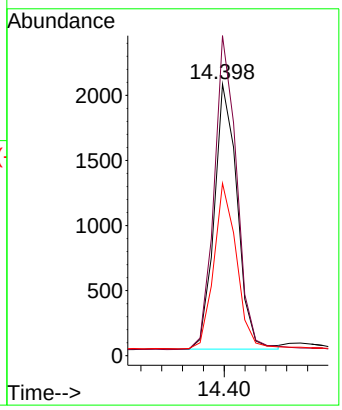


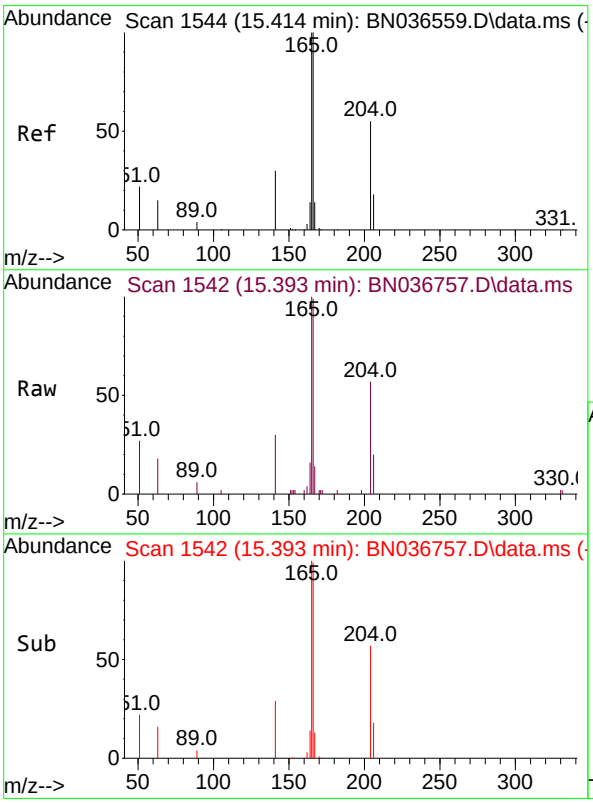

#17
Acenaphthene
Concen: 0.368 ng
RT: 14.398 min Scan# 14
Delta R.T. -0.032 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:154 Resp: 3124

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 117.8 | 94.1 | 141.1 |
| 152 | 62.6 | 49.8 | 74.6 |

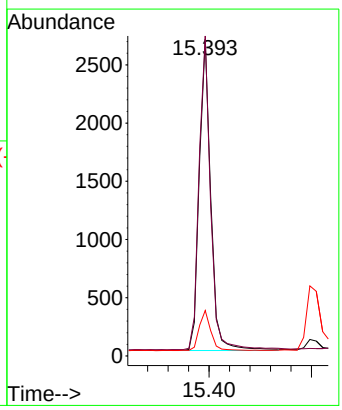


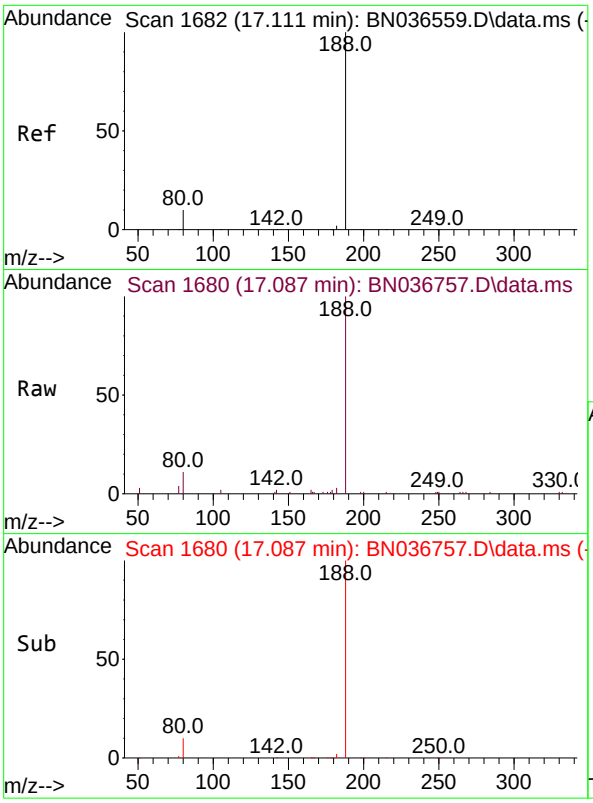




#18
Fluorene
Concen: 0.371 ng
RT: 15.393 min Scan# 1542
Delta R.T. -0.021 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:166 Resp: 4263

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 100.3 | 79.8 | 119.8 |
| 167 | 12.7 | 10.6 | 15.8 |



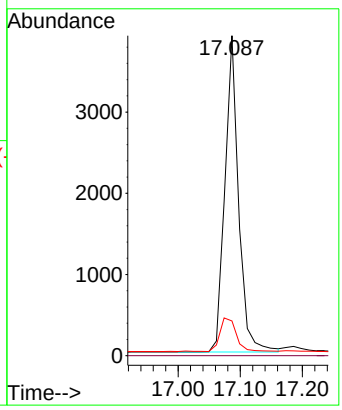


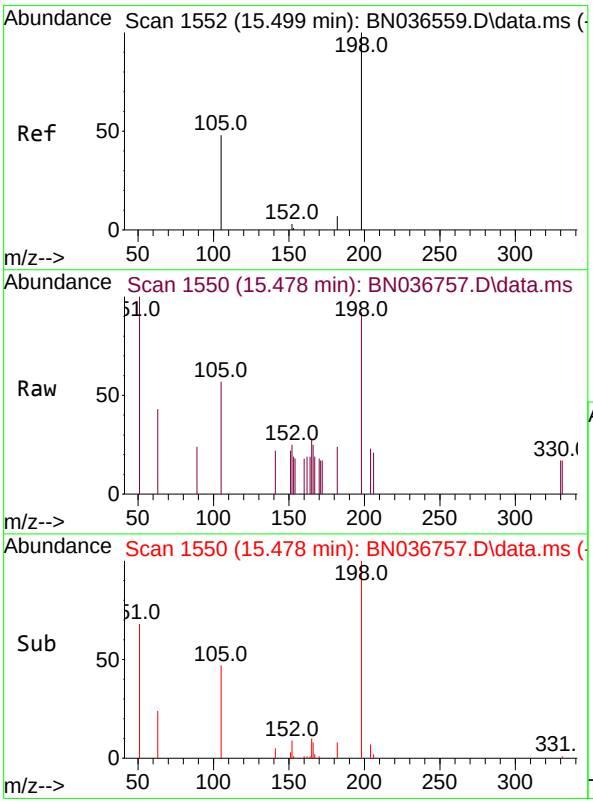

#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.087 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:188 Resp: 5937

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 10.8 | 8.8 | 13.2 |

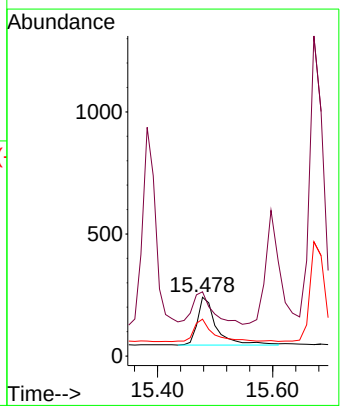


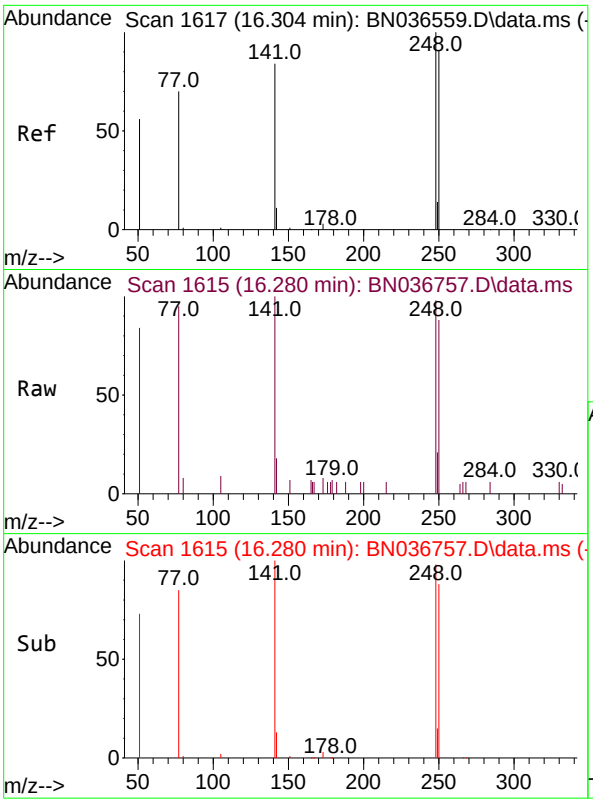




#20
4,6-Dinitro-2-methylphenol
Concen: 0.457 ng
RT: 15.478 min Scan# 1550
Delta R.T. -0.021 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:198 Resp: 472

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 198 | 100 | | |
| 51 | 109.1 | 107.9 | 161.9 |
| 105 | 62.7 | 56.2 | 84.2 |



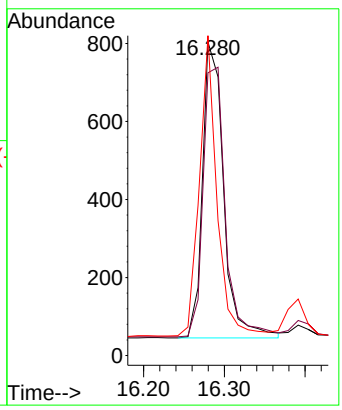


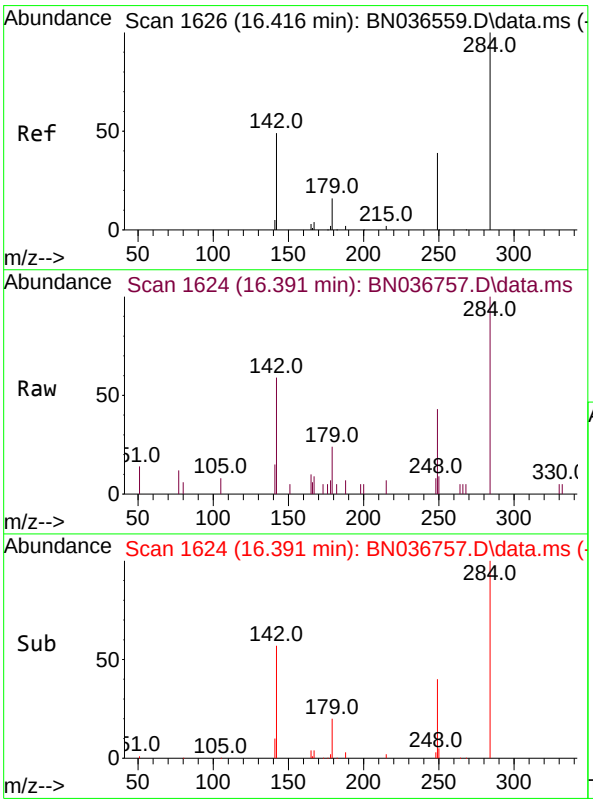

#21
4-Bromophenyl-phenylether
Concen: 0.372 ng
RT: 16.280 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:248 Resp: 1382

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 90.2 | 73.0 | 109.6 |
| 141 | 102.0 | 68.6 | 103.0 |

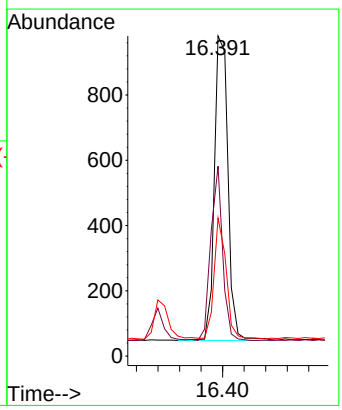


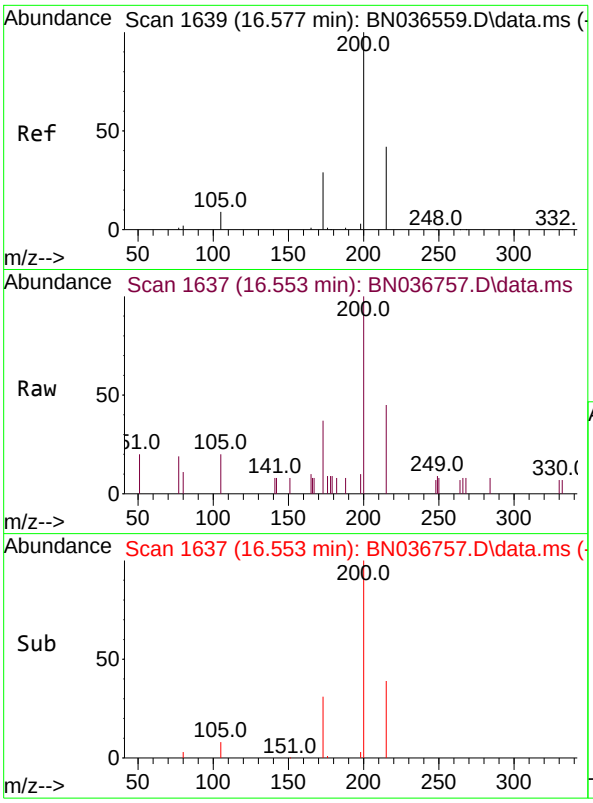




#22
Hexachlorobenzene
Concen: 0.364 ng
RT: 16.391 min Scan# 1624
Delta R.T. -0.025 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:284 Resp: 1636

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 49.6 | 37.0 | 55.4 |
| 249 | 35.2 | 28.1 | 42.1 |



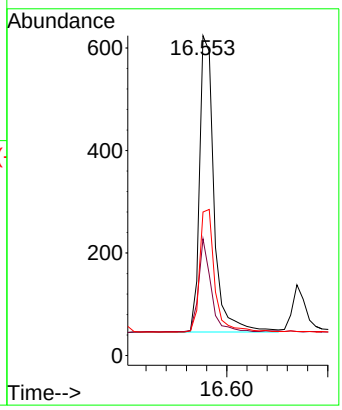


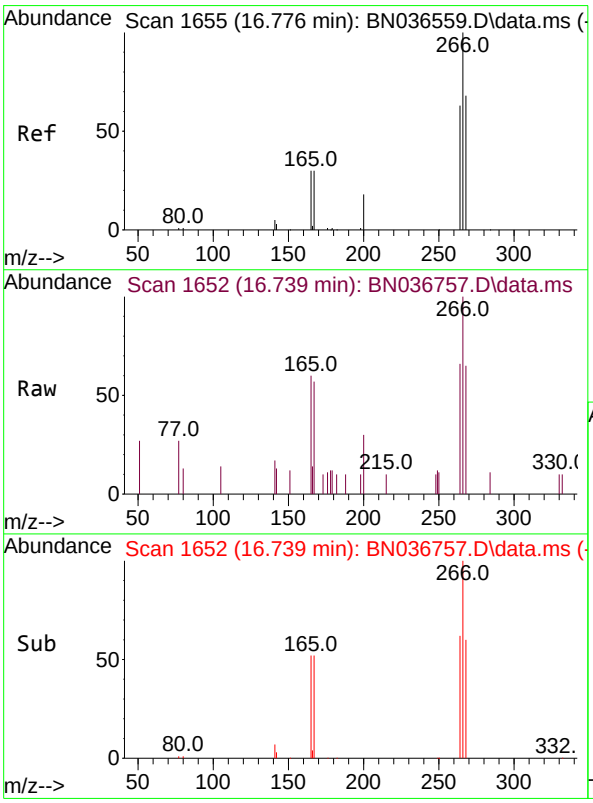

#23
Atrazine
Concen: 0.387 ng
RT: 16.553 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:200 Resp: 1154

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 173 | 36.5 | 27.3 | 40.9 |
| 215 | 44.9 | 36.8 | 55.2 |

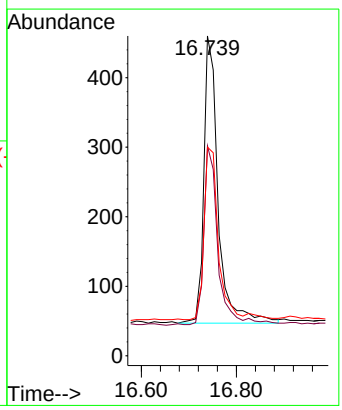


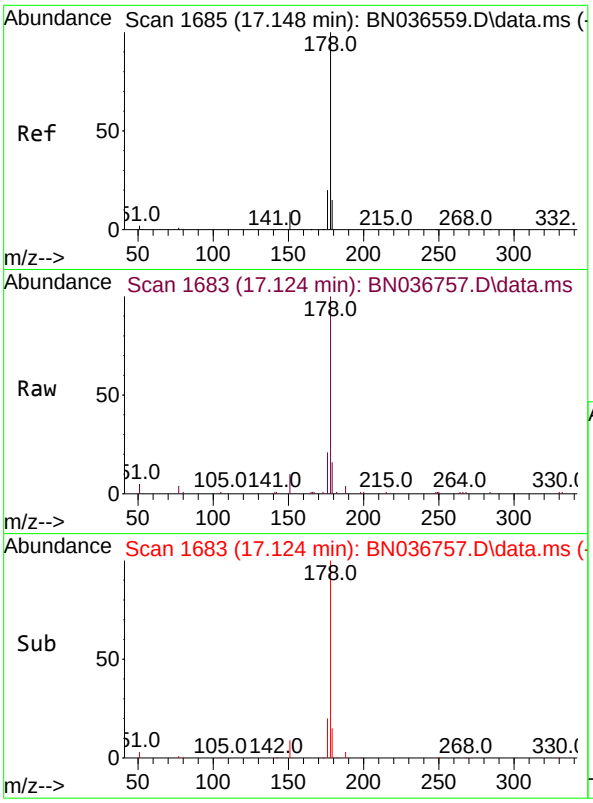




#24
Pentachlorophenol
Concen: 0.424 ng
RT: 16.739 min Scan# 1652
Delta R.T. -0.037 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:266 Resp: 868

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 264 | 62.2 | 49.6 | 74.4 |
| 268 | 59.4 | 50.9 | 76.3 |



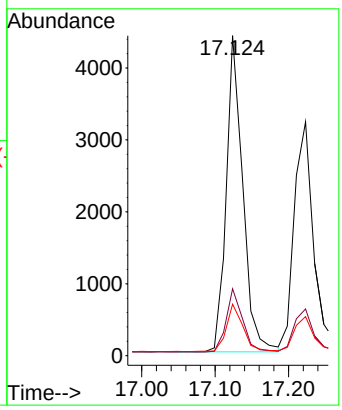


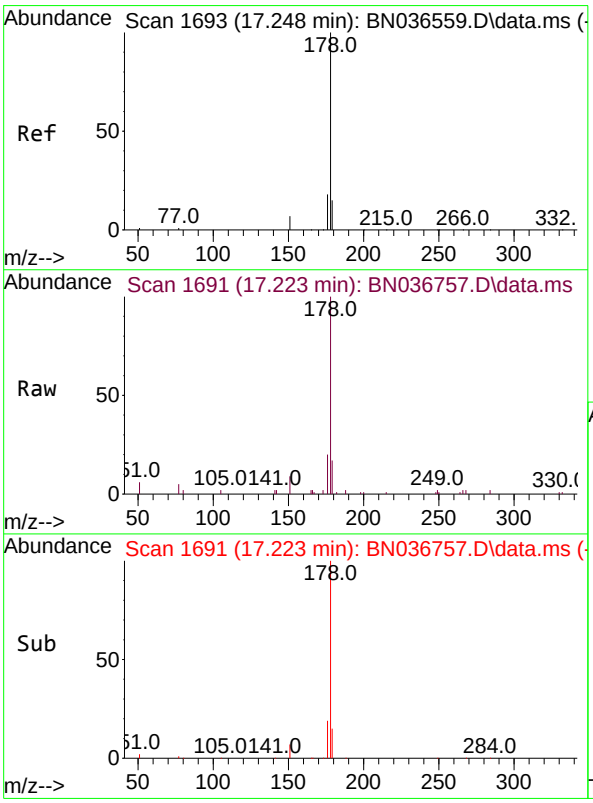

#25
Phenanthrene
Concen: 0.386 ng
RT: 17.124 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:178 Resp: 6866

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.7 | 15.9 | 23.9 |
| 179 | 15.3 | 12.2 | 18.4 |

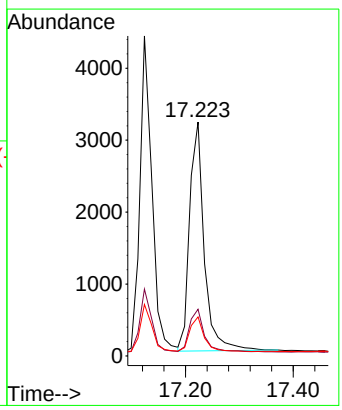


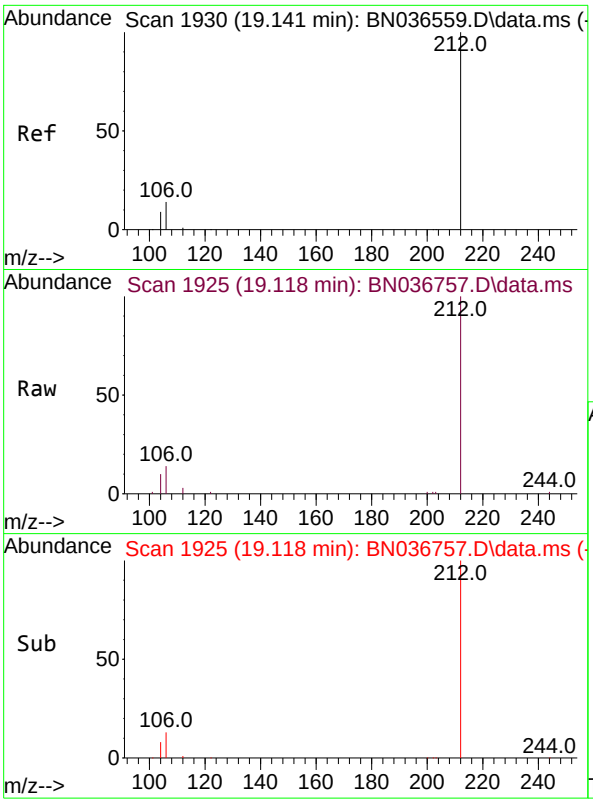




#26
Anthracene
Concen: 0.374 ng
RT: 17.223 min Scan# 1691
Delta R.T. -0.025 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:178 Resp: 6014

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.1 | 15.4 | 23.2 |
| 179 | 15.0 | 12.6 | 18.8 |



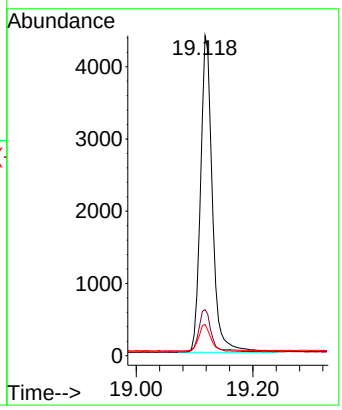


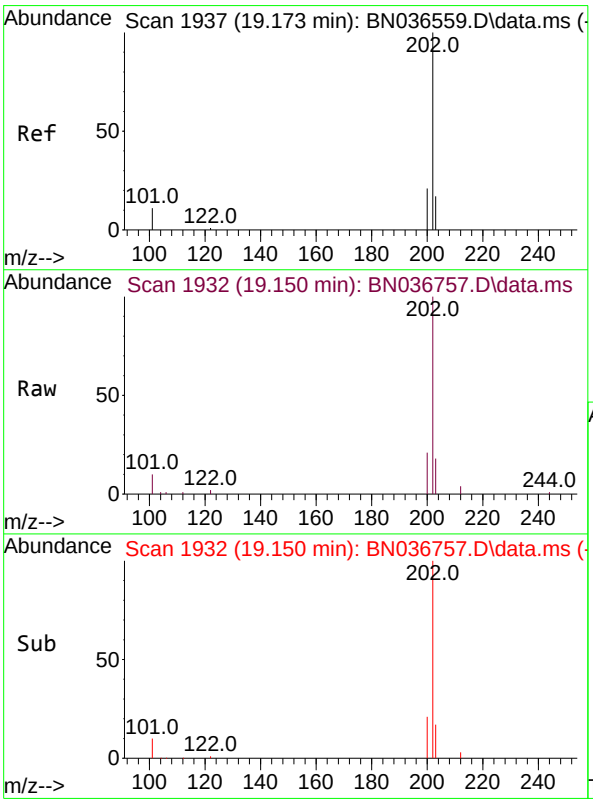

#27
Fluoranthene-d10
Concen: 0.411 ng
RT: 19.118 min Scan# 1
Delta R.T. -0.023 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:212 Resp: 6252

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 13.6 | 11.8 | 17.6 |
| 104 | 8.6 | 7.3 | 10.9 |

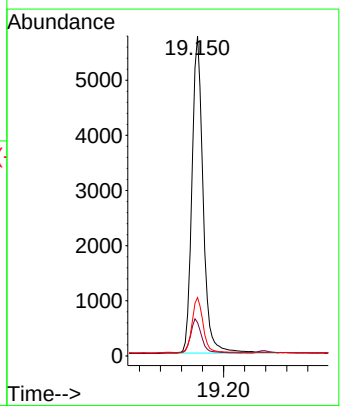


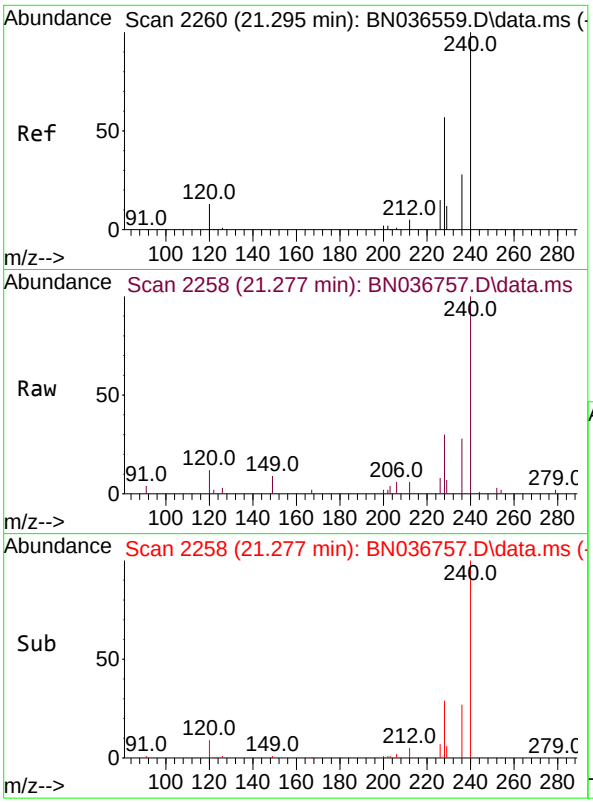




#28
Fluoranthene
Concen: 0.424 ng
RT: 19.150 min Scan# 1932
Delta R.T. -0.023 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:202 Resp: 8476

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 11.0 | 9.4 | 14.0 |
| 203 | 17.2 | 13.5 | 20.3 |



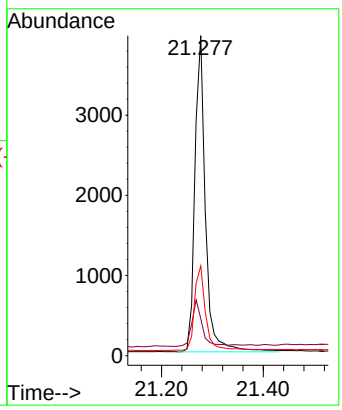


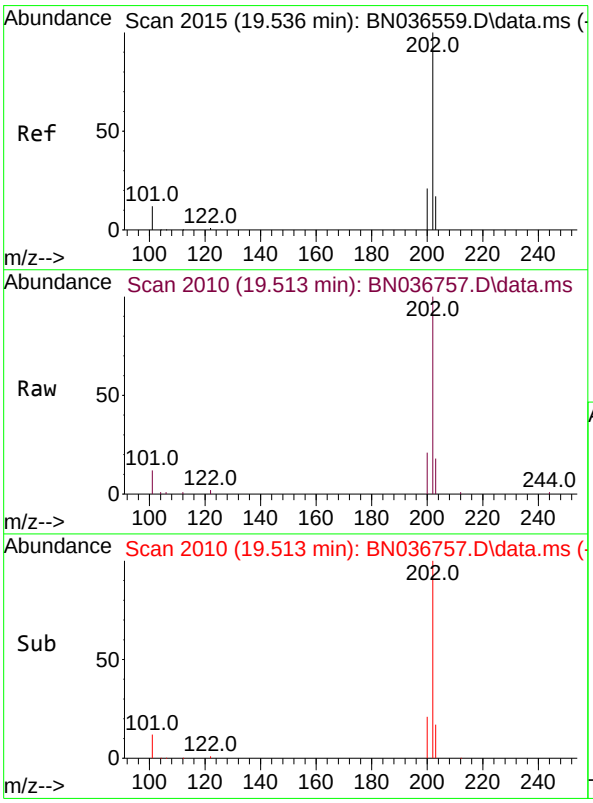

#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:240 Resp: 5680

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 11.6 | 14.6 | 22.0# |
| 236 | 28.0 | 24.1 | 36.1 |

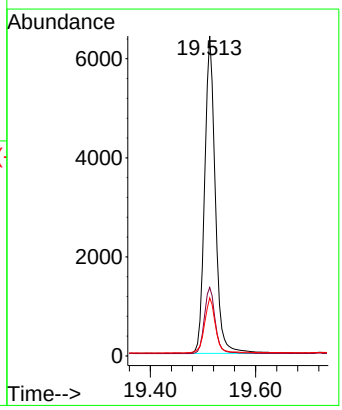


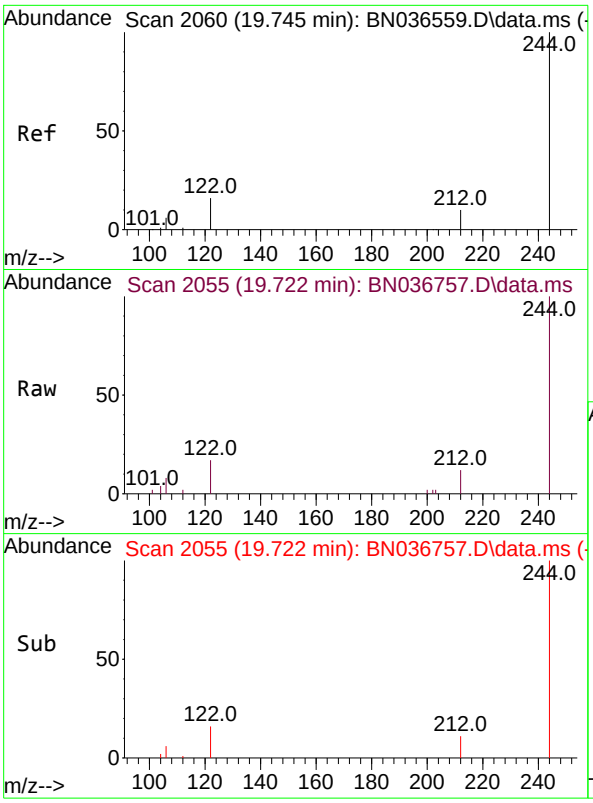




#30
Pyrene
Concen: 0.325 ng
RT: 19.513 min Scan# 2010
Delta R.T. -0.023 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:202 Resp: 9024

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.2 | 17.1 | 25.7 |
| 203 | 17.5 | 14.1 | 21.1 |



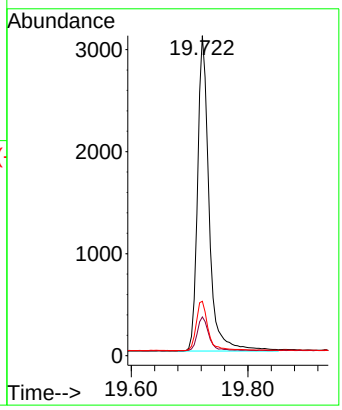


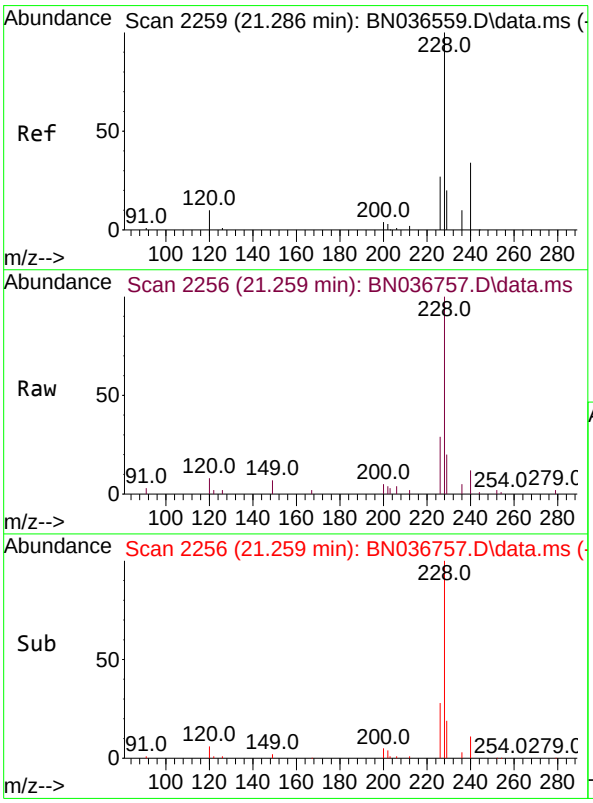

#31
Terphenyl-d14
Concen: 0.313 ng
RT: 19.722 min Scan# 2
Delta R.T. -0.023 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:244 Resp: 4254

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 12.1 | 9.6 | 14.4 |
| 122 | 17.0 | 13.9 | 20.9 |

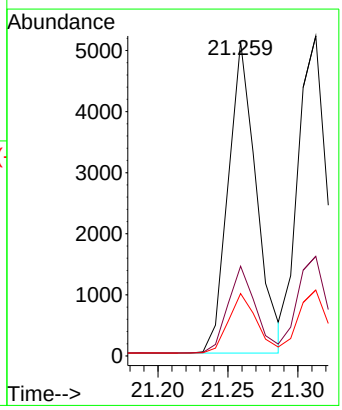


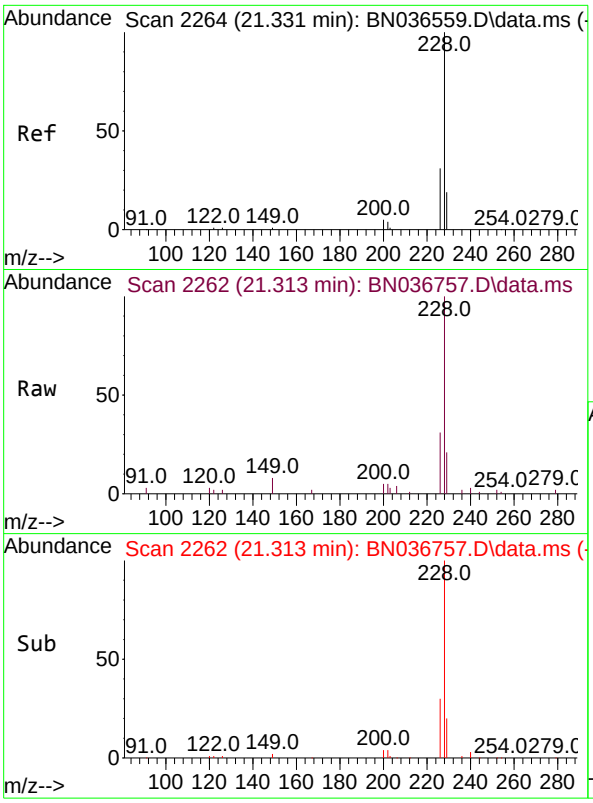




#32
Benzo(a)anthracene
Concen: 0.362 ng
RT: 21.259 min Scan# 2256
Delta R.T. -0.027 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:228 Resp: 7146

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 28.5 | 22.5 | 33.7 |
| 229 | 19.8 | 16.6 | 25.0 |



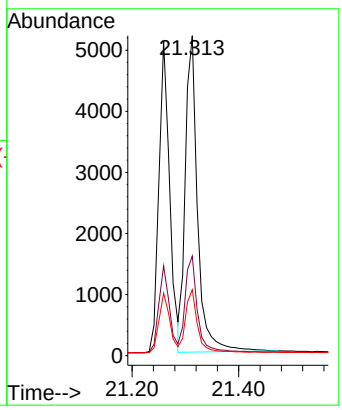


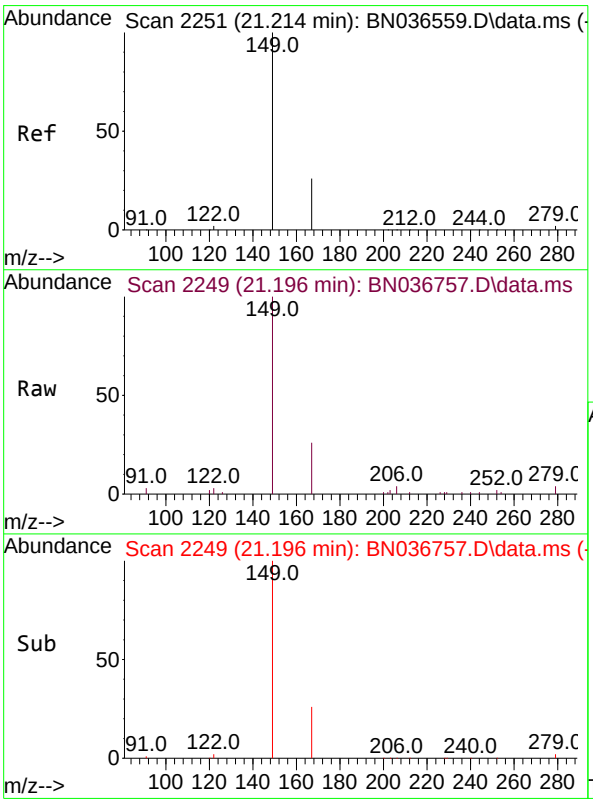

#33
Chrysene
Concen: 0.383 ng
RT: 21.313 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:228 Resp: 8272

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 31.1 | 25.3 | 37.9 |
| 229 | 20.6 | 15.8 | 23.8 |

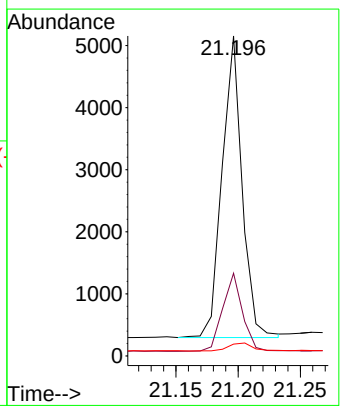


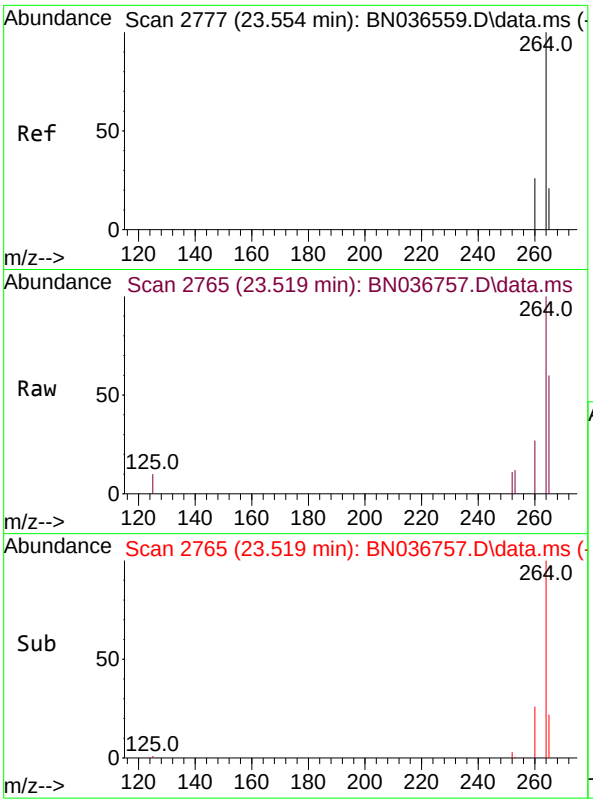




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.386 ng
RT: 21.196 min Scan# 2249
Delta R.T. -0.018 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:149 Resp: 5431

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 25.8 | 20.7 | 31.1 |
| 279 | 3.4 | 3.6 | 5.4# |



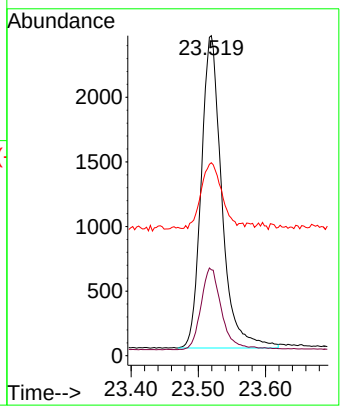


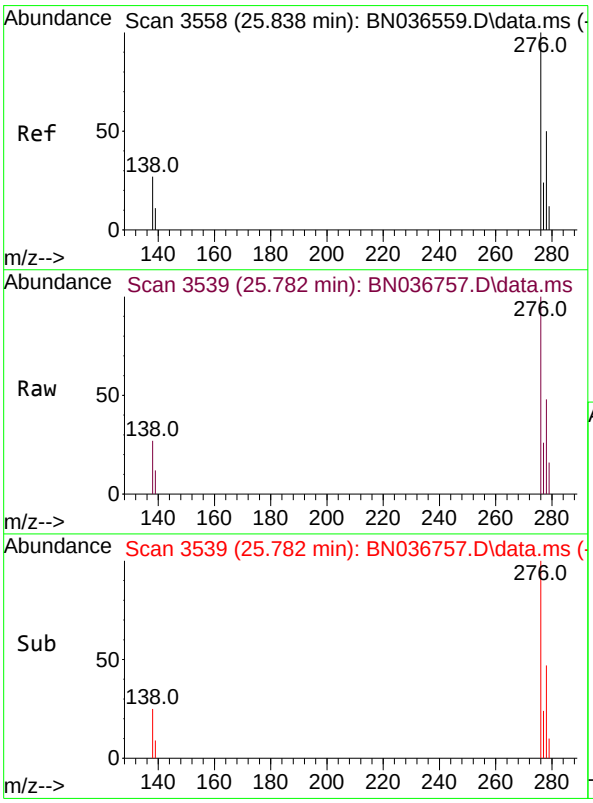

#35
Perylene-d12
Concen: 0.400 ng
RT: 23.519 min Scan# 2
Delta R.T. -0.035 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:264 Resp: 5140

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 26.8 | 22.6 | 33.8 |
| 265 | 60.3 | 88.1 | 132.1# |

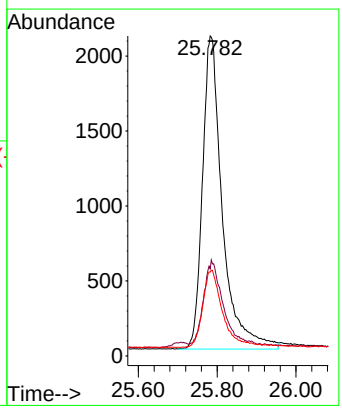


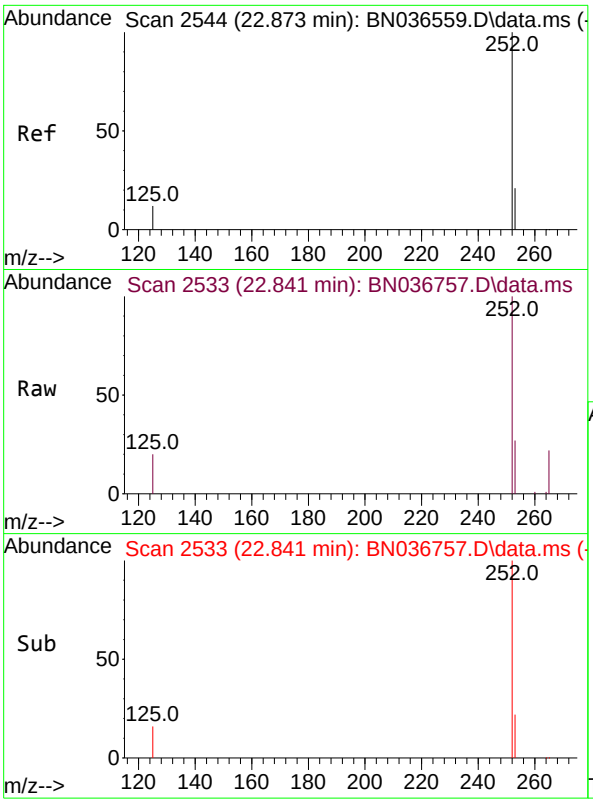




#36
Indeno(1,2,3-cd)pyrene
Concen: 0.394 ng
RT: 25.782 min Scan# 3539
Delta R.T. -0.055 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:276 Resp: 7314

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 24.9 | 23.4 | 35.2 |
| 277 | 24.6 | 20.0 | 30.0 |



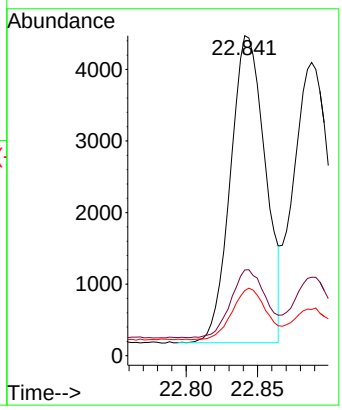


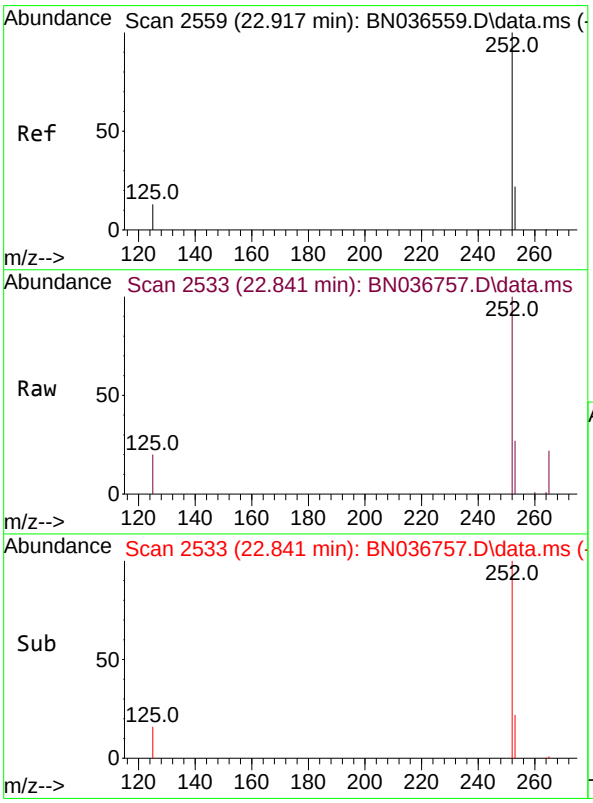

#37
Benzo(b)fluoranthene
Concen: 0.390 ng
RT: 22.841 min Scan# 2
Delta R.T. -0.032 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:252 Resp: 7293

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 26.8 | 23.9 | 35.9 |
| 125 | 20.4 | 17.4 | 26.2 |

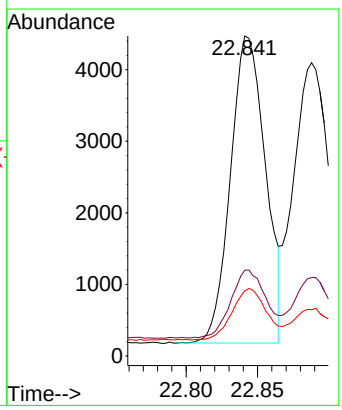


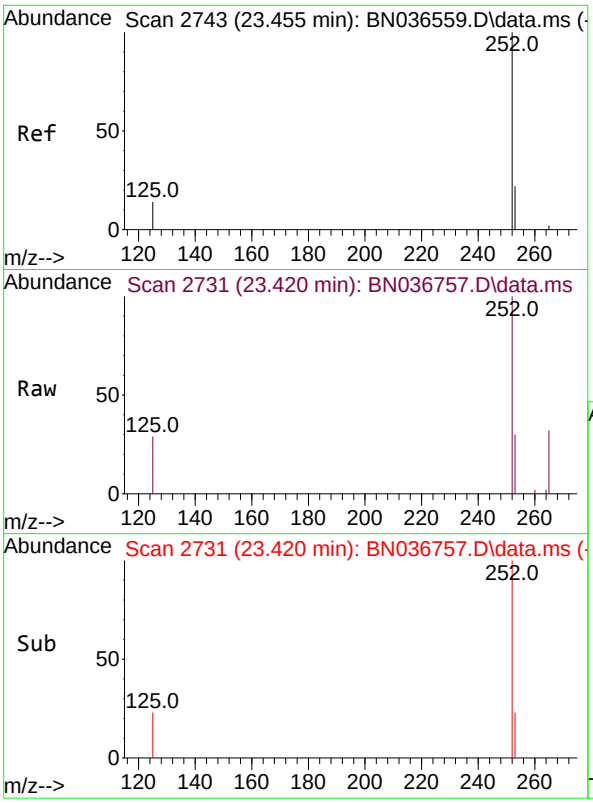




#38
Benzo(k)fluoranthene
Concen: 0.372 ng
RT: 22.841 min Scan# 2533
Delta R.T. -0.076 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:252 Resp: 7293

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 26.8 | 24.6 | 36.8 |
| 125 | 20.4 | 17.8 | 26.8 |



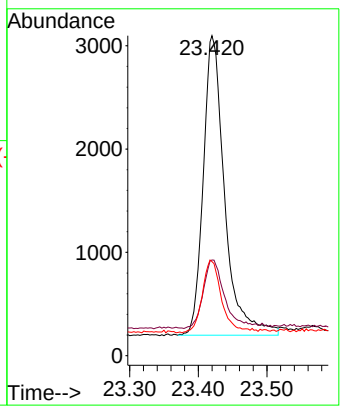


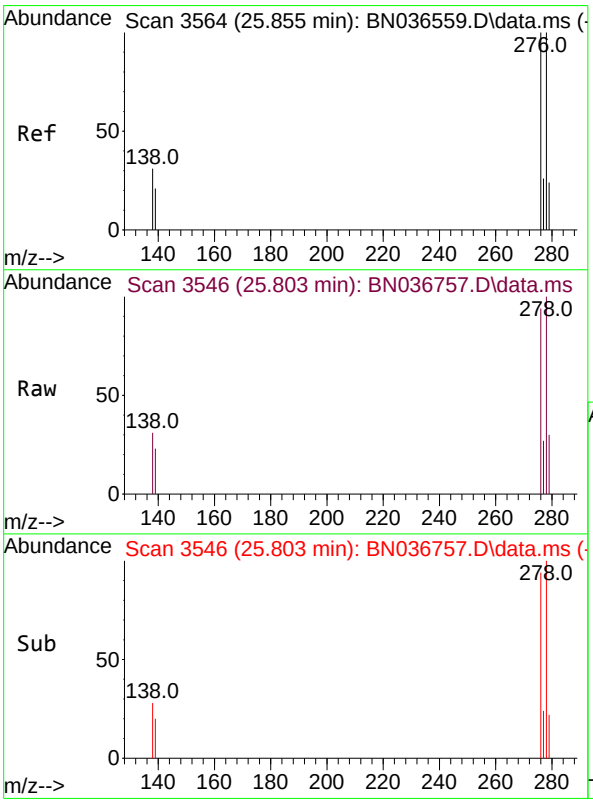

#39
Benzo(a)pyrene
Concen: 0.399 ng
RT: 23.420 min Scan# 2
Delta R.T. -0.035 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:252 Resp: 6291

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 29.9 | 27.8 | 41.8 |
| 125 | 29.4 | 22.7 | 34.1 |

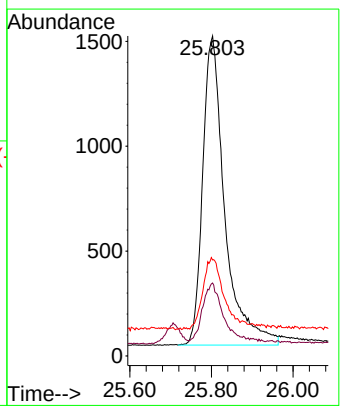


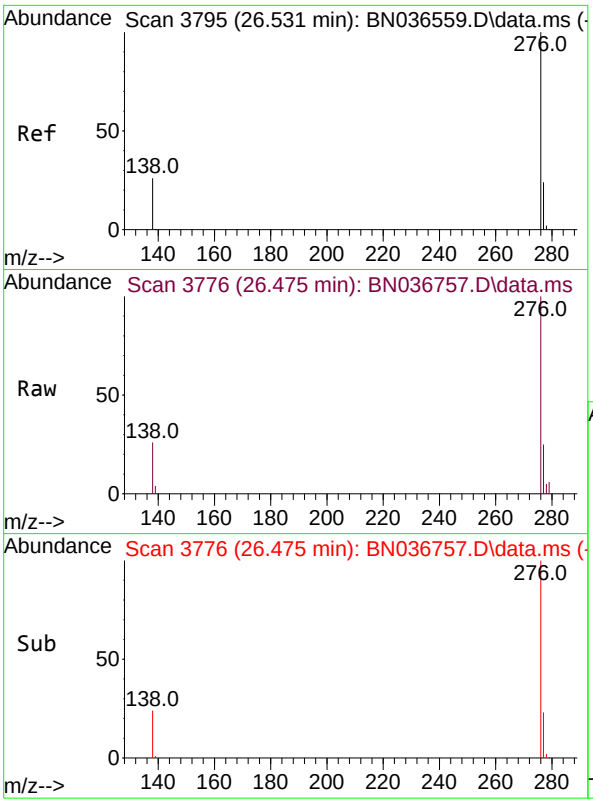




#40
Dibenzo(a,h)anthracene
Concen: 0.382 ng
RT: 25.803 min Scan# 3546
Delta R.T. -0.052 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:278 Resp: 5522

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 22.8 | 20.8 | 31.2 |
| 279 | 30.0 | 28.8 | 43.2 |



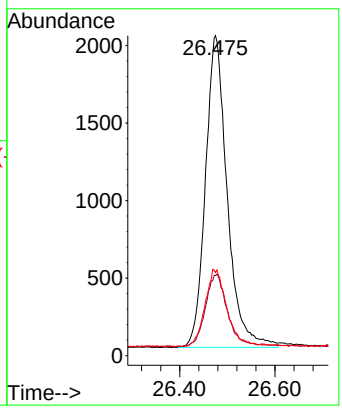



#41
Benzo(g,h,i)perylene
Concen: 0.386 ng
RT: 26.475 min Scan# 3
Delta R.T. -0.055 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:276 Resp: 6376

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 25.1 | 22.2 | 33.4 |
| 138 | 26.0 | 24.1 | 36.1 |



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036769.D
Acq On : 28 Mar 2025 12:47
Operator : RC/JU
Sample : Q1629-04MS
Misc :
ALS Vial : 34 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
TT188S1-20250320MS

Quant Time: Mar 28 13:09:57 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

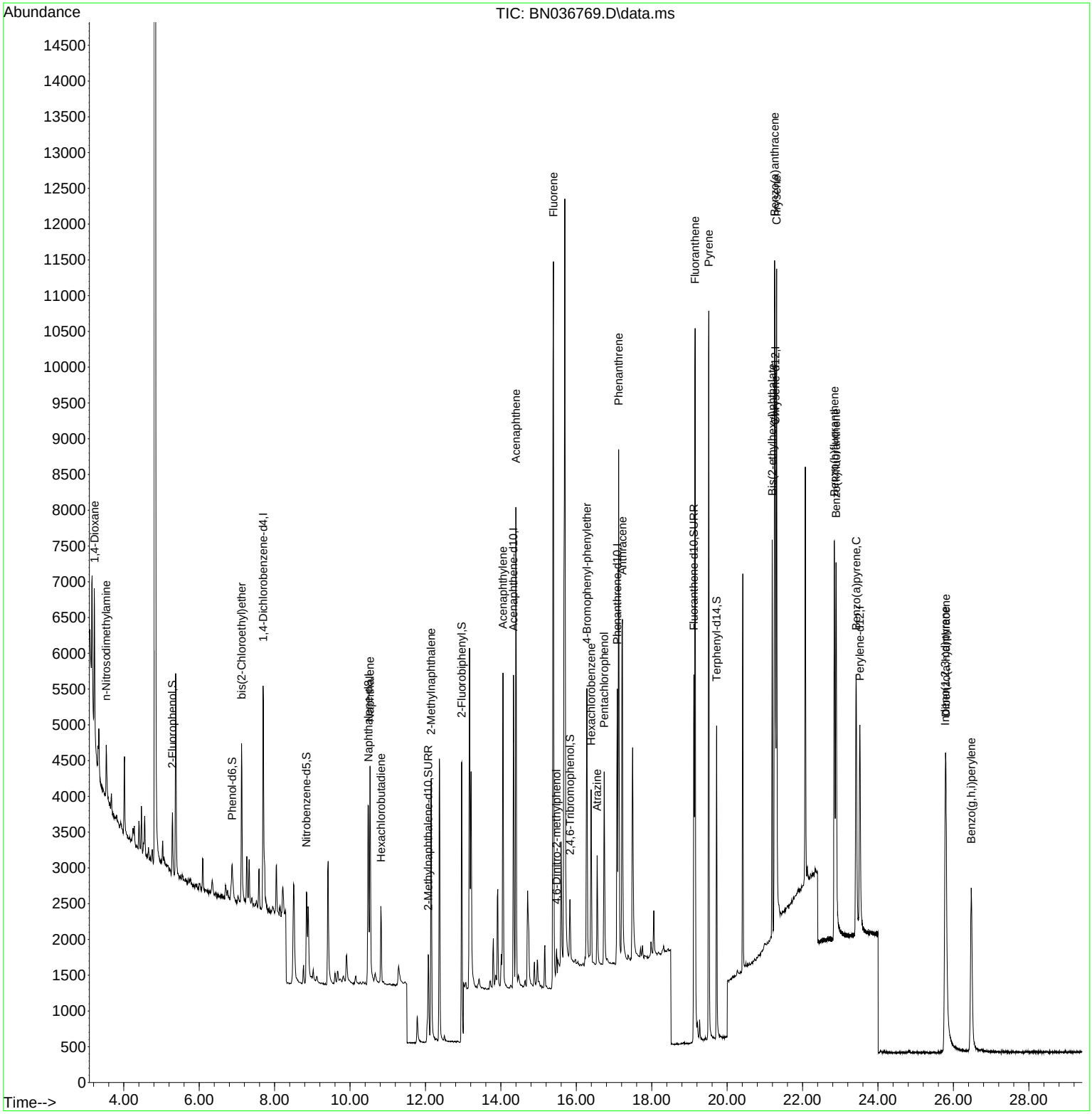
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.696 | 152 | 1547 | 0.400 | ng | -0.03 |
| 7) Naphthalene-d8 | 10.488 | 136 | 3800 | 0.400 | ng | #-0.02 |
| 13) Acenaphthene-d10 | 14.334 | 164 | 2504 | 0.400 | ng | -0.03 |
| 19) Phenanthrene-d10 | 17.087 | 188 | 5519 | 0.400 | ng | -0.02 |
| 29) Chrysene-d12 | 21.277 | 240 | 4772 | 0.400 | ng | #-0.02 |
| 35) Perylene-d12 | 23.519 | 264 | 4206 | 0.400 | ng | #-0.03 |
| **System Monitoring Compounds** | | | | | | |
| 4) 2-Fluorophenol | 5.291 | 112 | 621 | 0.172 | ng | -0.02 |
| 5) Phenol-d6 | 6.872 | 99 | 461 | 0.104 | ng | -0.03 |
| 8) Nitrobenzene-d5 | 8.843 | 82 | 1270 | 0.307 | ng | -0.03 |
| 11) 2-Methylnaphthalene-d10 | 12.075 | 152 | 2453 | 0.434 | ng | -0.04 |
| 14) 2,4,6-Tribromophenol | 15.833 | 330 | 500 | 0.440 | ng | -0.02 |
| 15) 2-Fluorobiphenyl | 12.963 | 172 | 5081 | 0.349 | ng | -0.03 |
| 27) Fluoranthene-d10 | 19.118 | 212 | 5936 | 0.420 | ng | -0.02 |
| 31) Terphenyl-d14 | 19.722 | 244 | 4521 | 0.395 | ng | -0.02 |
| **Target Compounds** | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.225 | 88 | 1076 | 0.627 | ng | # 70 |
| 3) n-Nitrosodimethylamine | 3.536 | 42 | 692 | 0.199 | ng | # 97 |
| 6) bis(2-Chloroethyl)ether | 7.125 | 93 | 1606 | 0.349 | ng | 96 |
| 9) Naphthalene | 10.530 | 128 | 4212 | 0.377 | ng | 98 |
| 10) Hexachlorobutadiene | 10.818 | 225 | 873 | 0.332 | ng | # 100 |
| 12) 2-Methylnaphthalene | 12.151 | 142 | 2787 | 0.392 | ng | 98 |
| 16) Acenaphthylene | 14.056 | 152 | 4729 | 0.400 | ng | 99 |
| 17) Acenaphthene | 14.398 | 154 | 3057 | 0.395 | ng | 98 |
| 18) Fluorene | 15.393 | 166 | 4486 | 0.429 | ng | 99 |
| 20) 4,6-Dinitro-2-methylph... | 15.478 | 198 | 460 | 0.472 | ng | # 77 |
| 21) 4-Bromophenyl-phenylether | 16.280 | 248 | 1436 | 0.415 | ng | 94 |
| 22) Hexachlorobenzene | 16.391 | 284 | 1647 | 0.395 | ng | 97 |
| 23) Atrazine | 16.553 | 200 | 1296 | 0.467 | ng | 99 |
| 24) Pentachlorophenol | 16.739 | 266 | 1338 | 0.703 | ng | 98 |
| 25) Phenanthrene | 17.124 | 178 | 7316 | 0.442 | ng | 99 |
| 26) Anthracene | 17.223 | 178 | 6668 | 0.446 | ng | 99 |
| 28) Fluoranthene | 19.150 | 202 | 8988 | 0.483 | ng | 99 |
| 30) Pyrene | 19.513 | 202 | 9497 | 0.407 | ng | 100 |
| 32) Benzo(a)anthracene | 21.259 | 228 | 7243 | 0.437 | ng | 99 |
| 33) Chrysene | 21.313 | 228 | 8271 | 0.456 | ng | 98 |
| 34) Bis(2-ethylhexyl)phtha... | 21.196 | 149 | 4790 | 0.405 | ng | # 99 |
| 36) Indeno(1,2,3-cd)pyrene | 25.785 | 276 | 6488 | 0.427 | ng | 98 |
| 37) Benzo(b)fluoranthene | 22.844 | 252 | 7114 | 0.465 | ng | 93 |
| 38) Benzo(k)fluoranthene | 22.888 | 252 | 7550 | 0.470 | ng | 93 |
| 39) Benzo(a)pyrene | 23.420 | 252 | 6131 | 0.476 | ng | # 91 |
| 40) Dibenzo(a,h)anthracene | 25.800 | 278 | 4935 | 0.418 | ng | 92 |
| 41) Benzo(g,h,i)perylene | 26.475 | 276 | 5010 | 0.371 | ng | 98 |

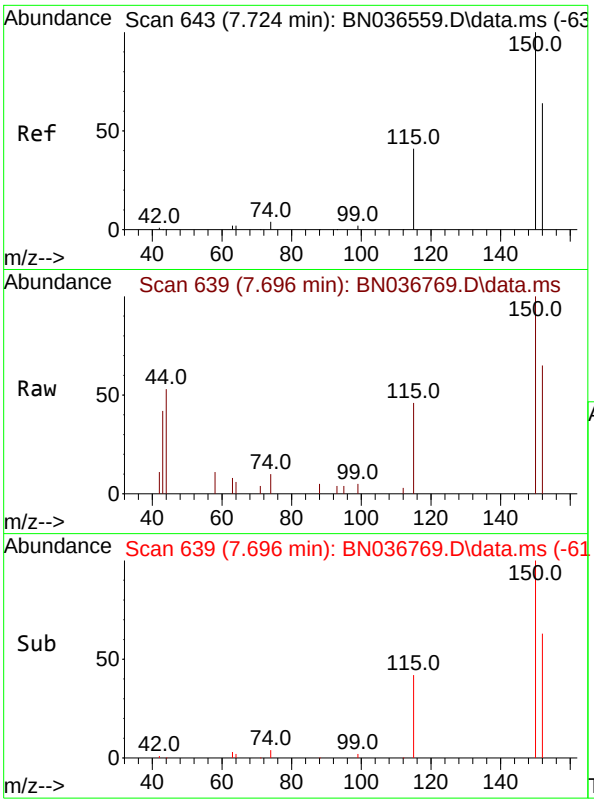
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036769.D
Acq On : 28 Mar 2025 12:47
Operator : RC/JU
Sample : Q1629-04MS
Misc :
ALS Vial : 34 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
TT188S1-20250320MS

Quant Time: Mar 28 13:09:57 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration



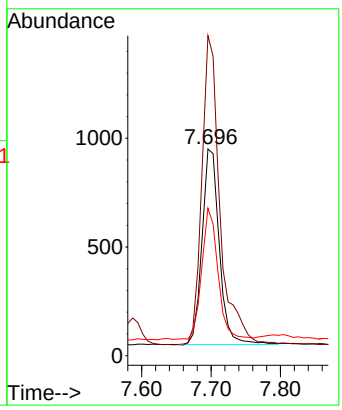


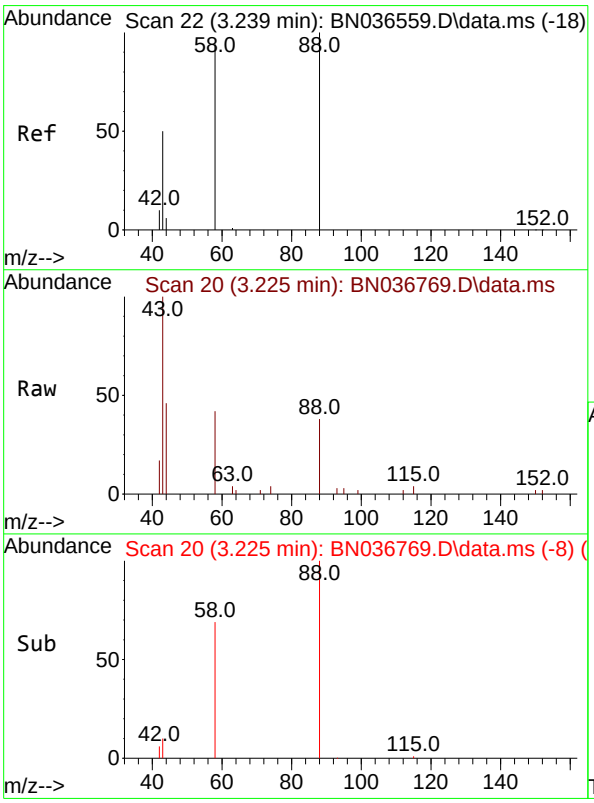

#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.696 min Scan# 6
Delta R.T. -0.028 min
Lab File: BN036769.D
Acq: 28 Mar 2025 12:47

**Instrument :**
BNA_N
**ClientSampleId :**
TT188S1-20250320MS

Tgt Ion:152 Resp: 1547

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 154.8 | 123.7 | 185.5 |
| 115 | 71.4 | 54.3 | 81.5 |

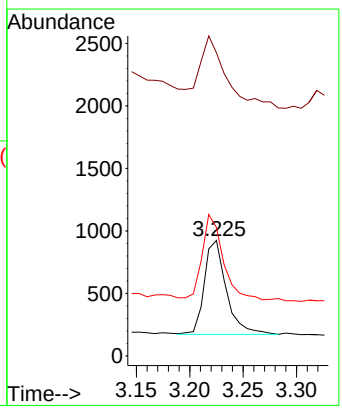


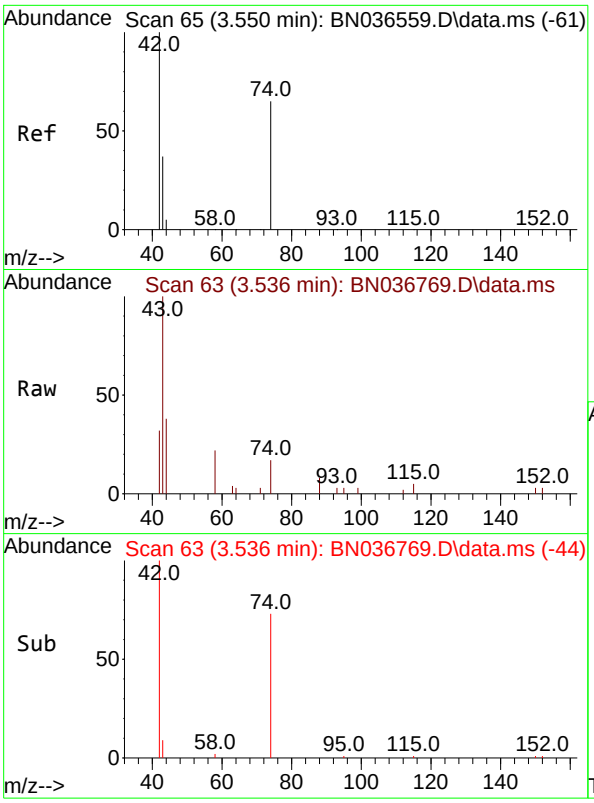




#2
1,4-Dioxane
Concen: 0.627 ng
RT: 3.225 min Scan# 20
Delta R.T. -0.014 min
Lab File: BN036769.D
Acq: 28 Mar 2025 12:47

Tgt Ion: 88 Resp: 1076

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 94.3 | 37.8 | 56.8# |
| 58 | 91.4 | 67.4 | 101.2 |



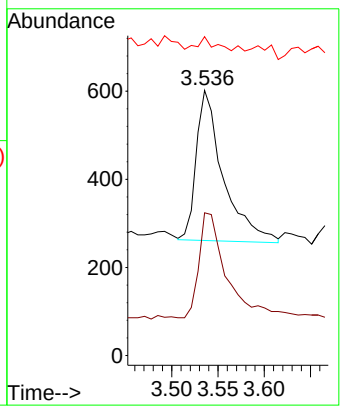


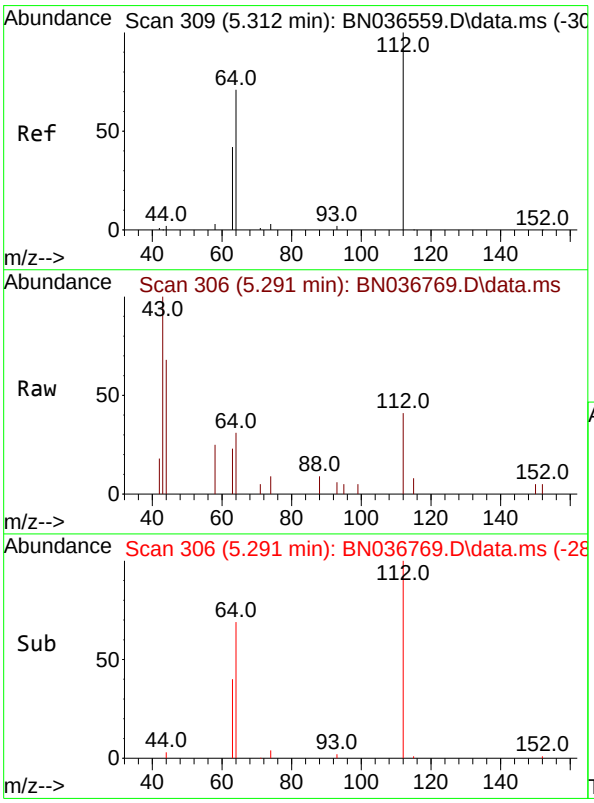

#3
n-Nitrosodimethylamine
Concen: 0.199 ng
RT: 3.536 min Scan# 6
Delta R.T. -0.014 min
Lab File: BN036769.D
Acq: 28 Mar 2025 12:47

**Instrument :**
BNA_N
**ClientSampleId :**
TT188S1-20250320MS

Tgt Ion: 42 Resp: 692

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 73.3 | 60.6 | 90.8 |
| 44 | 5.2 | 6.3 | 9.5# |

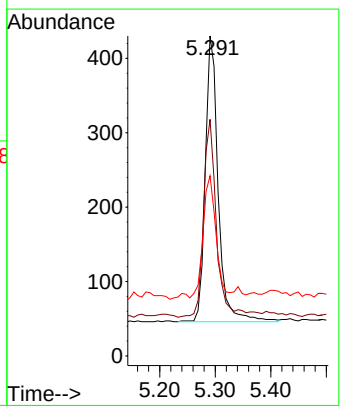


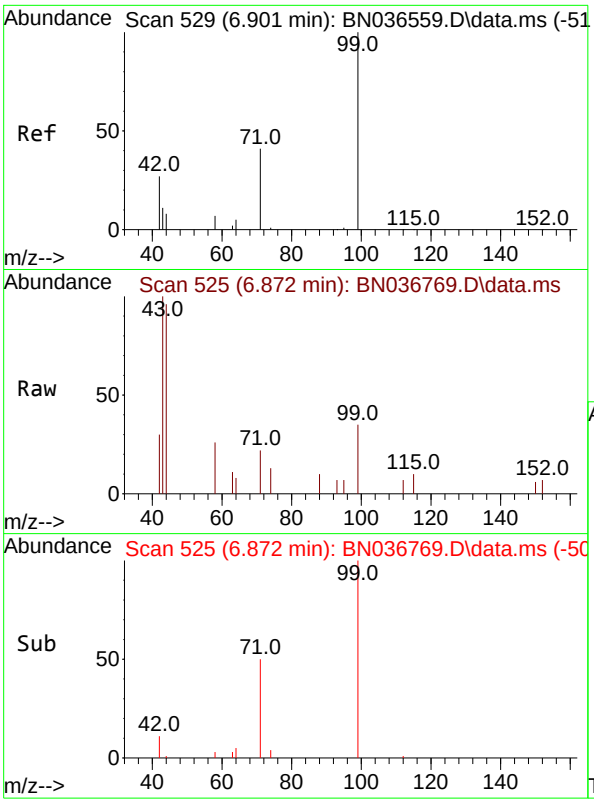




#4
2-Fluorophenol
Concen: 0.172 ng
RT: 5.291 min Scan# 306
Delta R.T. -0.022 min
Lab File: BN036769.D
Acq: 28 Mar 2025 12:47

Tgt Ion:112 Resp: 621

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 70.4 | 53.1 | 79.7 |
| 63 | 42.4 | 31.8 | 47.8 |



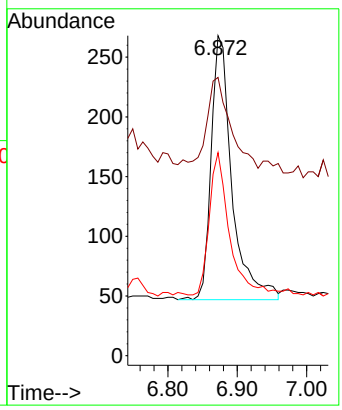


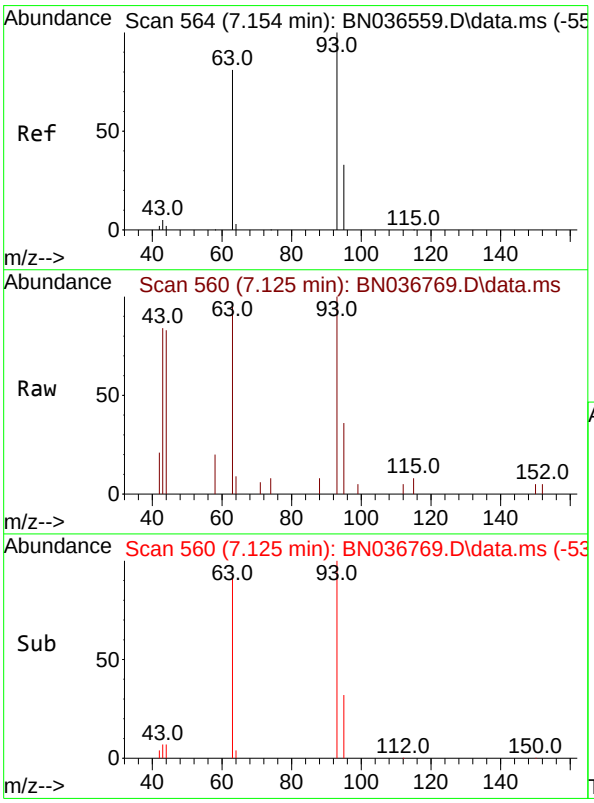

#5
Phenol-d6
Concen: 0.104 ng
RT: 6.872 min Scan# 5
Delta R.T. -0.029 min
Lab File: BN036769.D
Acq: 28 Mar 2025 12:47

**Instrument :**
BNA_N
**ClientSampleId :**
TT188S1-20250320MS

Tgt Ion: 99 Resp: 461

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 38.0 | 26.5 | 39.7 |
| 71 | 52.7 | 34.1 | 51.1# |

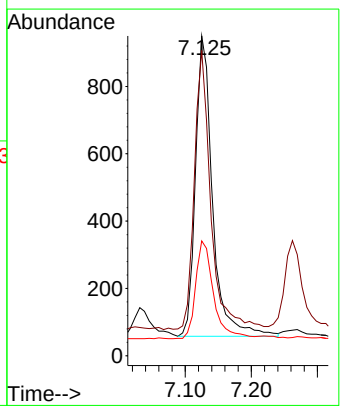


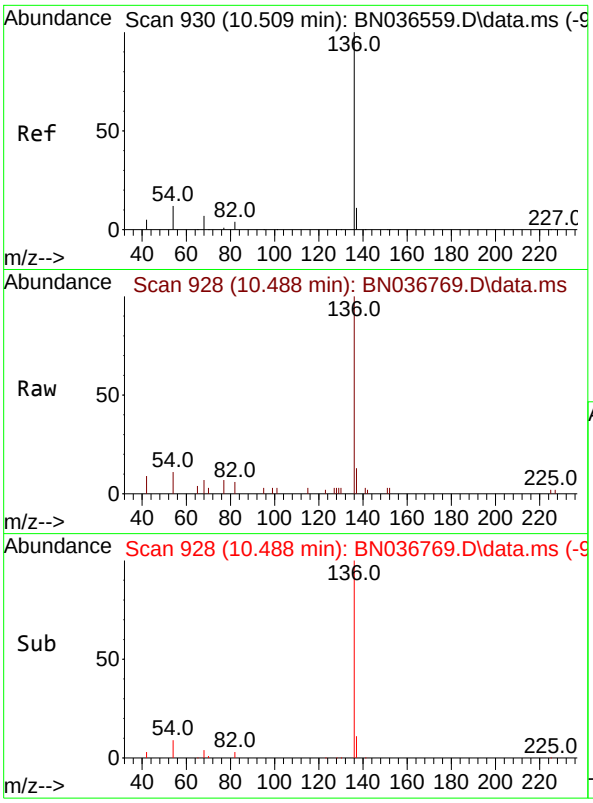




#6
bis(2-Chloroethyl)ether
Concen: 0.349 ng
RT: 7.125 min Scan# 560
Delta R.T. -0.029 min
Lab File: BN036769.D
Acq: 28 Mar 2025 12:47

Tgt Ion: 93 Resp: 1606

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 88.9 | 67.7 | 101.5 |
| 95 | 34.0 | 25.6 | 38.4 |



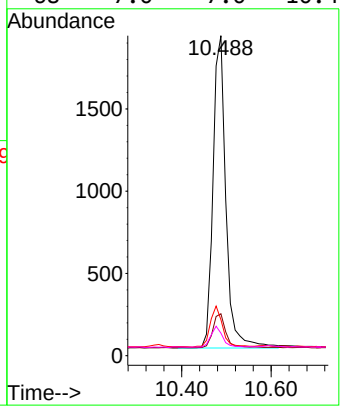


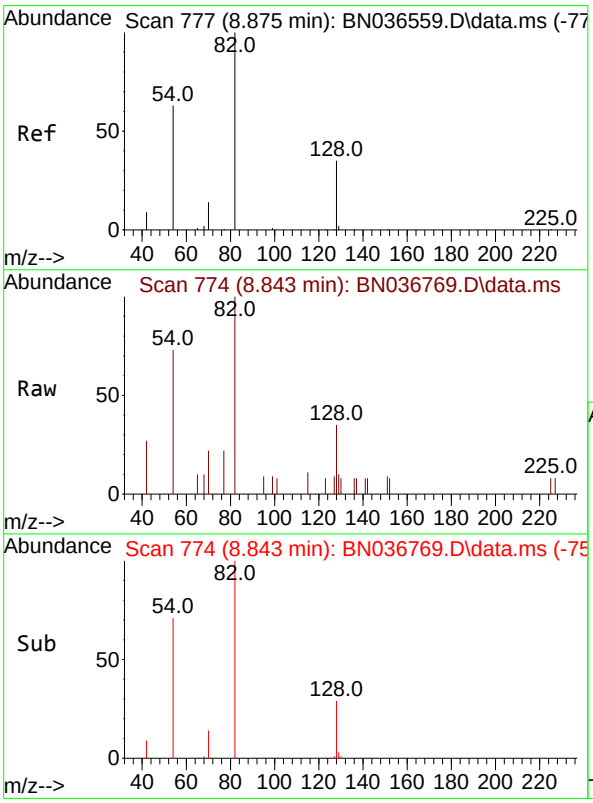

#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.488 min Scan# 9
Delta R.T. -0.021 min
Lab File: BN036769.D
Acq: 28 Mar 2025 12:47

**Instrument :**
BNA_N
**ClientSampleId :**
TT188S1-20250320MS

Tgt Ion:136 Resp: 3800

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 13.1 | 10.3 | 15.5 |
| 54 | 11.3 | 11.5 | 17.3# |
| 68 | 7.0 | 7.0 | 10.4 |

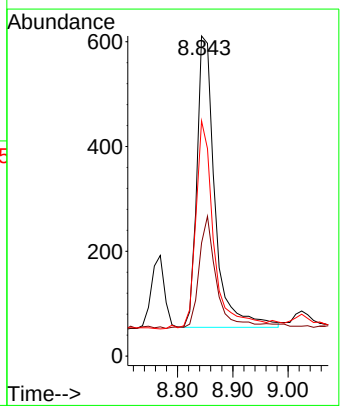


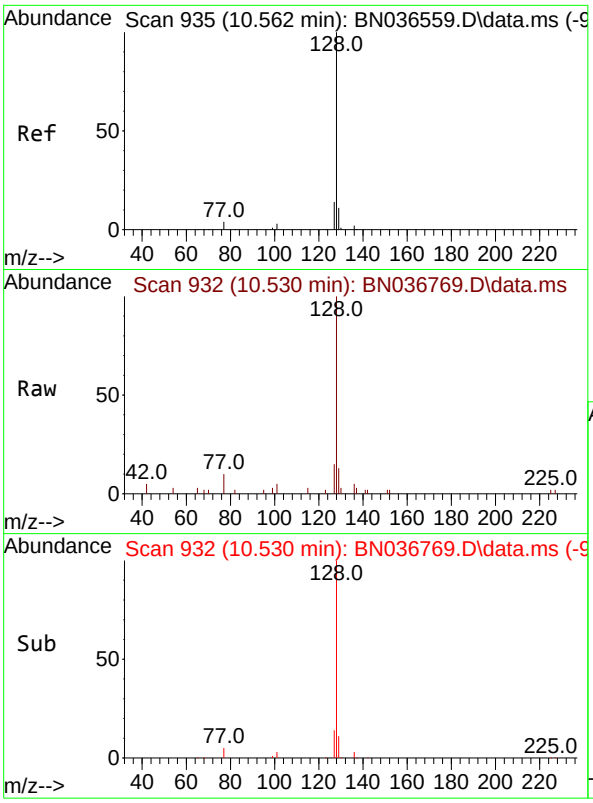




#8
Nitrobenzene-d5
Concen: 0.307 ng
RT: 8.843 min Scan# 774
Delta R.T. -0.032 min
Lab File: BN036769.D
Acq: 28 Mar 2025 12:47

Tgt Ion: 82 Resp: 1270

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 35.4 | 30.6 | 45.8 |
| 54 | 73.5 | 52.2 | 78.4 |



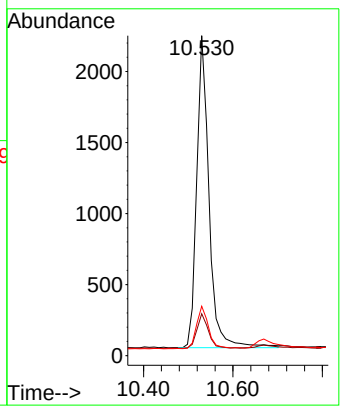


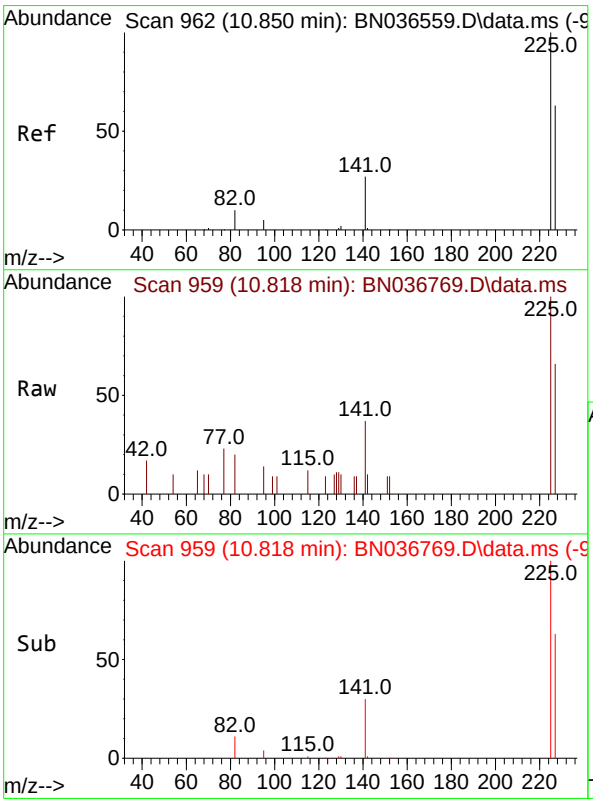

#9
Naphthalene
Concen: 0.377 ng
RT: 10.530 min Scan# 9
Delta R.T. -0.032 min
Lab File: BN036769.D
Acq: 28 Mar 2025 12:47

**Instrument :**
BNA_N
**ClientSampleId :**
TT188S1-20250320MS

Tgt Ion:128 Resp: 4212

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 13.1 | 9.8 | 14.6 |
| 127 | 15.5 | 11.8 | 17.8 |

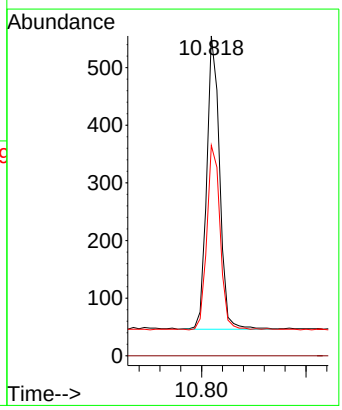


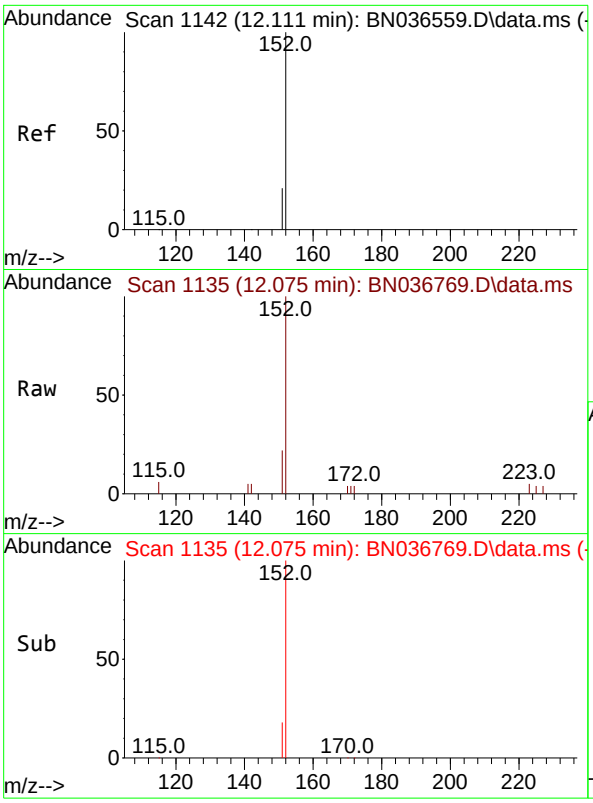




#10
Hexachlorobutadiene
Concen: 0.332 ng
RT: 10.818 min Scan# 959
Delta R.T. -0.032 min
Lab File: BN036769.D
Acq: 28 Mar 2025 12:47

Tgt Ion:225 Resp: 873

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 0.0 | 0.0 | 0.0 |
| 227 | 65.2 | 51.8 | 77.8 |



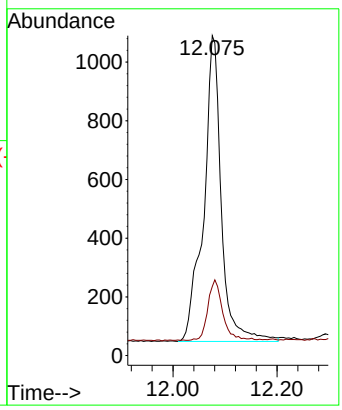


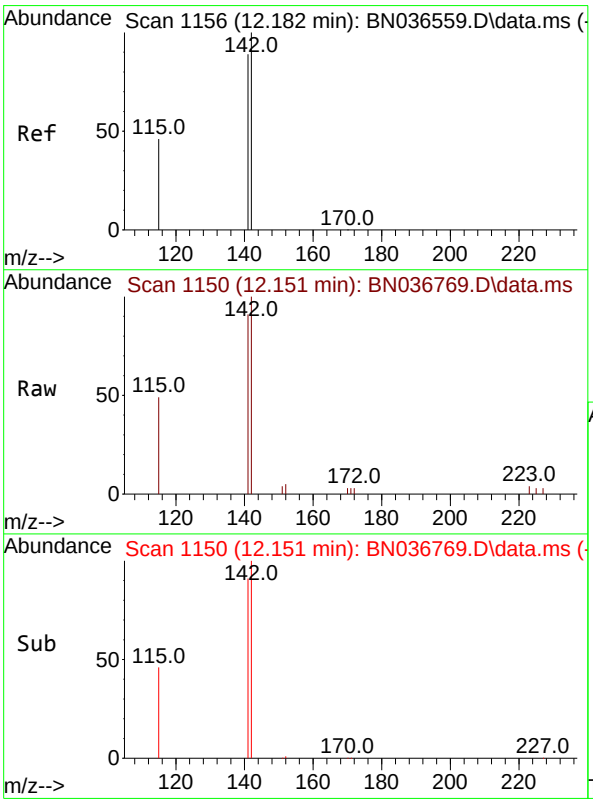

#11
2-Methylnaphthalene-d10
Concen: 0.434 ng
RT: 12.075 min Scan# 11
Delta R.T. -0.035 min
Lab File: BN036769.D
Acq: 28 Mar 2025 12:47

**Instrument :**
BNA_N
**ClientSampleId :**
TT188S1-20250320MS

Tgt Ion:152 Resp: 2453

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 16.6 | 17.0 | 25.6# |

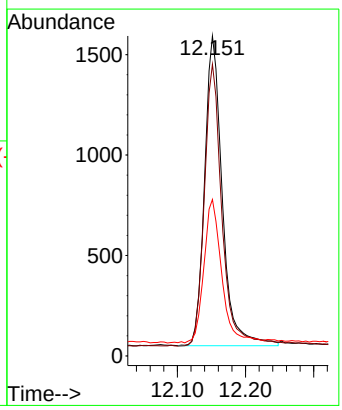


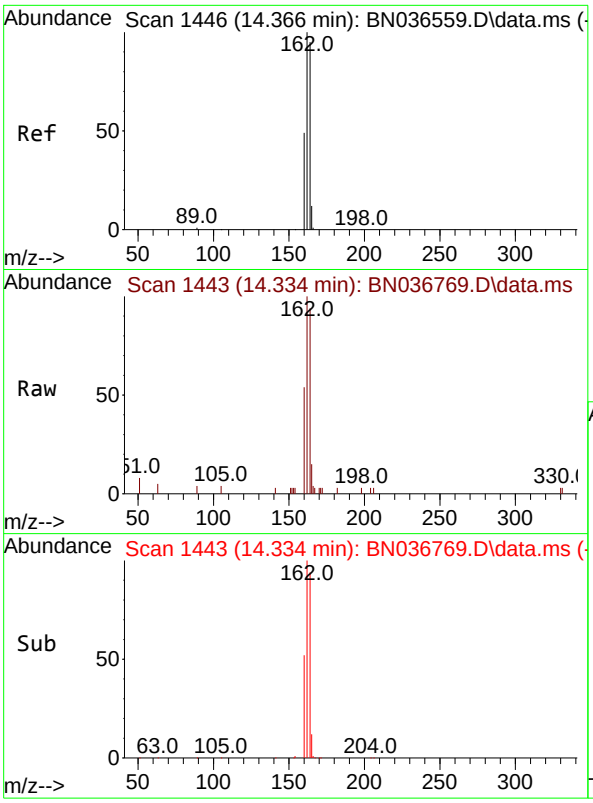




#12
2-Methylnaphthalene
Concen: 0.392 ng
RT: 12.151 min Scan# 1150
Delta R.T. -0.030 min
Lab File: BN036769.D
Acq: 28 Mar 2025 12:47

Tgt Ion:142 Resp: 2787

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 91.1 | 71.7 | 107.5 |
| 115 | 48.9 | 38.3 | 57.5 |



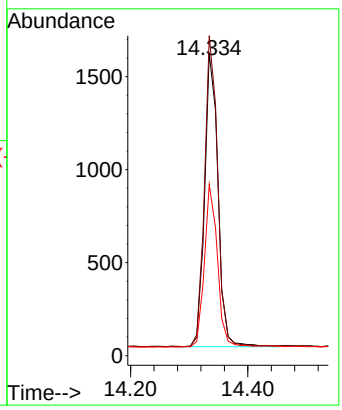


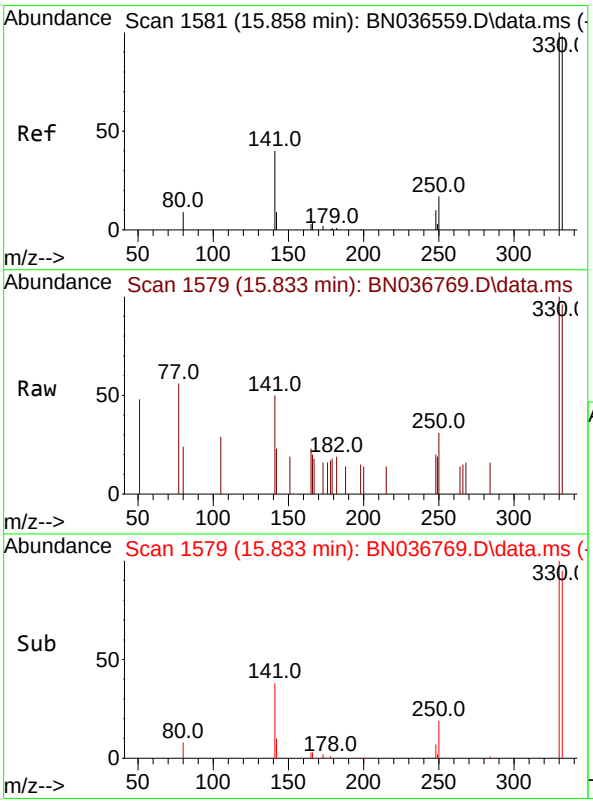

#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.334 min Scan# 14
Delta R.T. -0.032 min
Lab File: BN036769.D
Acq: 28 Mar 2025 12:47

**Instrument :**
BNA_N
**ClientSampleId :**
TT188S1-20250320MS

Tgt Ion:164 Resp: 2504

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 105.8 | 84.2 | 126.2 |
| 160 | 56.7 | 42.2 | 63.2 |

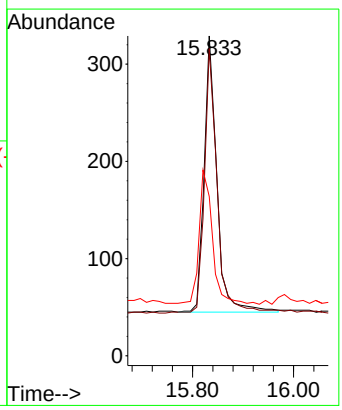


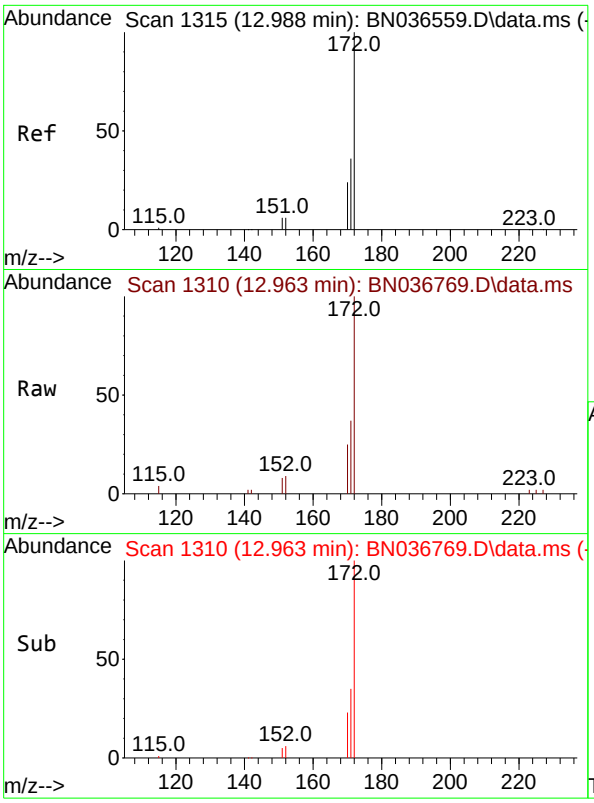




#14
2,4,6-Tribromophenol
Concen: 0.440 ng
RT: 15.833 min Scan# 1579
Delta R.T. -0.025 min
Lab File: BN036769.D
Acq: 28 Mar 2025 12:47

Tgt Ion:330 Resp: 500

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 95.4 | 75.2 | 112.8 |
| 141 | 51.0 | 43.4 | 65.2 |



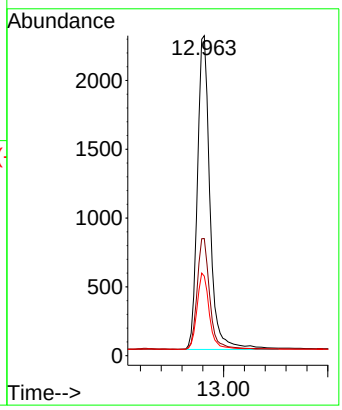


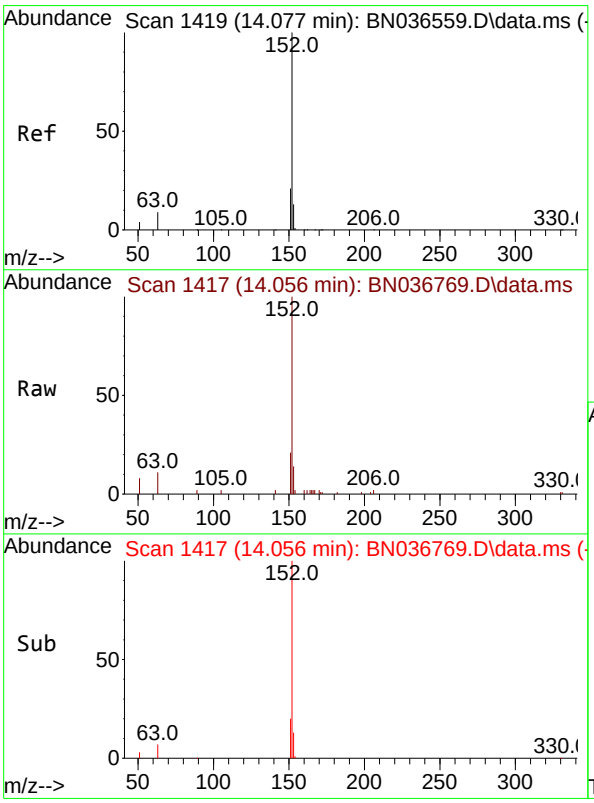

#15
2-Fluorobiphenyl
Concen: 0.349 ng
RT: 12.963 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036769.D
Acq: 28 Mar 2025 12:47

**Instrument :**
BNA_N
**ClientSampleId :**
TT188S1-20250320MS

Tgt Ion:172 Resp: 5081

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 36.6 | 29.5 | 44.3 |
| 170 | 24.8 | 20.2 | 30.4 |

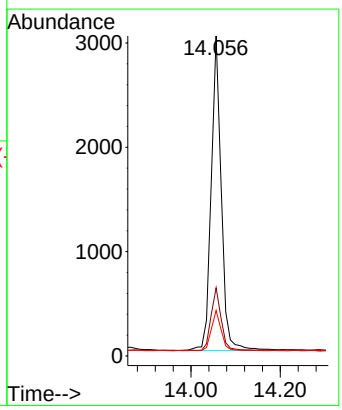


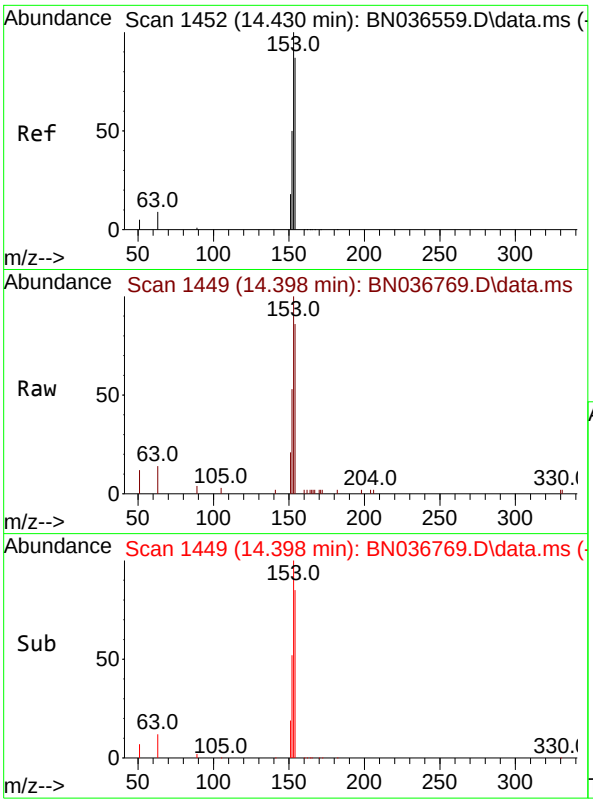




#16
Acenaphthylene
Concen: 0.400 ng
RT: 14.056 min Scan# 1417
Delta R.T. -0.021 min
Lab File: BN036769.D
Acq: 28 Mar 2025 12:47

Tgt Ion:152 Resp: 4729

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 19.8 | 16.2 | 24.4 |
| 153 | 13.0 | 10.6 | 15.8 |



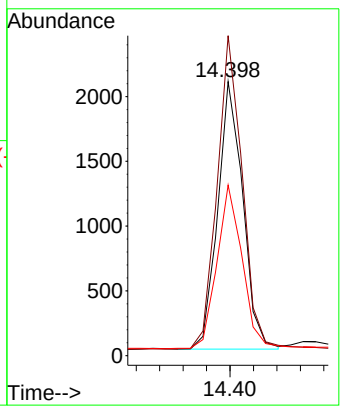


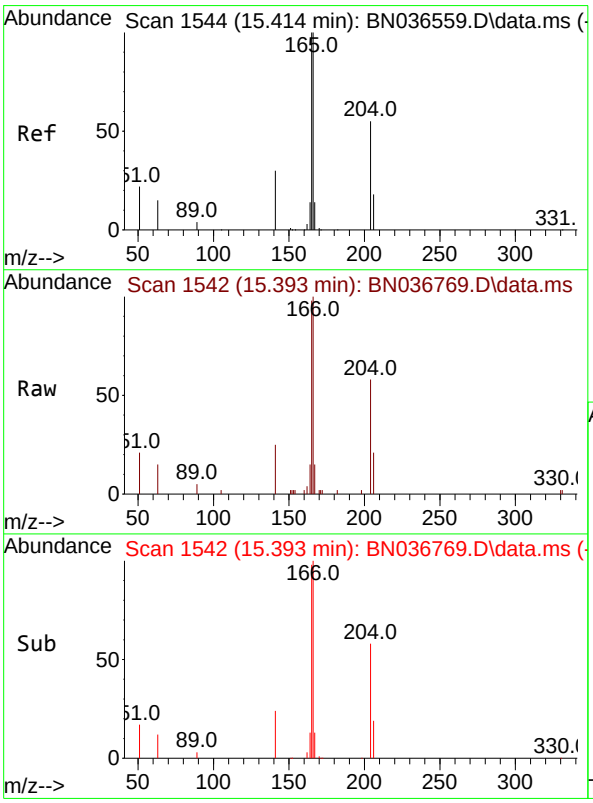

#17
Acenaphthene
Concen: 0.395 ng
RT: 14.398 min Scan# 14
Delta R.T. -0.032 min
Lab File: BN036769.D
Acq: 28 Mar 2025 12:47

**Instrument :**
BNA_N
**ClientSampleId :**
TT188S1-20250320MS

Tgt Ion:154 Resp: 3057

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 120.2 | 94.1 | 141.1 |
| 152 | 62.7 | 49.8 | 74.6 |

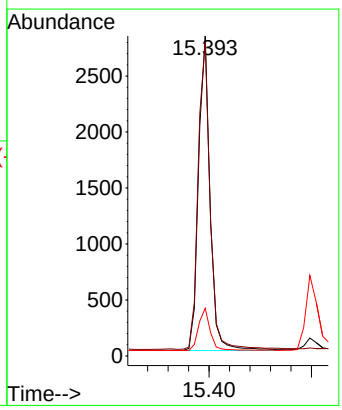


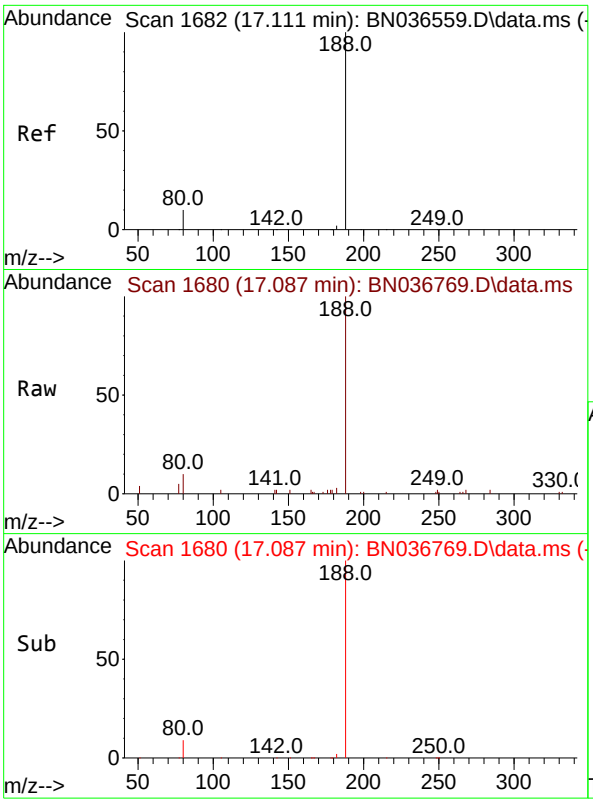




#18
Fluorene
Concen: 0.429 ng
RT: 15.393 min Scan# 1542
Delta R.T. -0.021 min
Lab File: BN036769.D
Acq: 28 Mar 2025 12:47

Tgt Ion:166 Resp: 4486

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 101.2 | 79.8 | 119.8 |
| 167 | 13.8 | 10.6 | 15.8 |



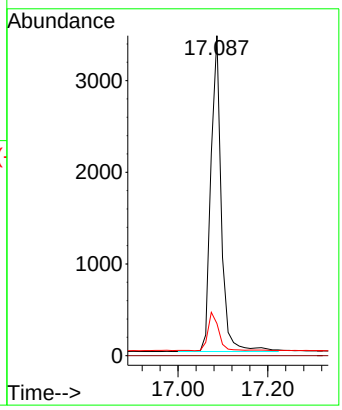


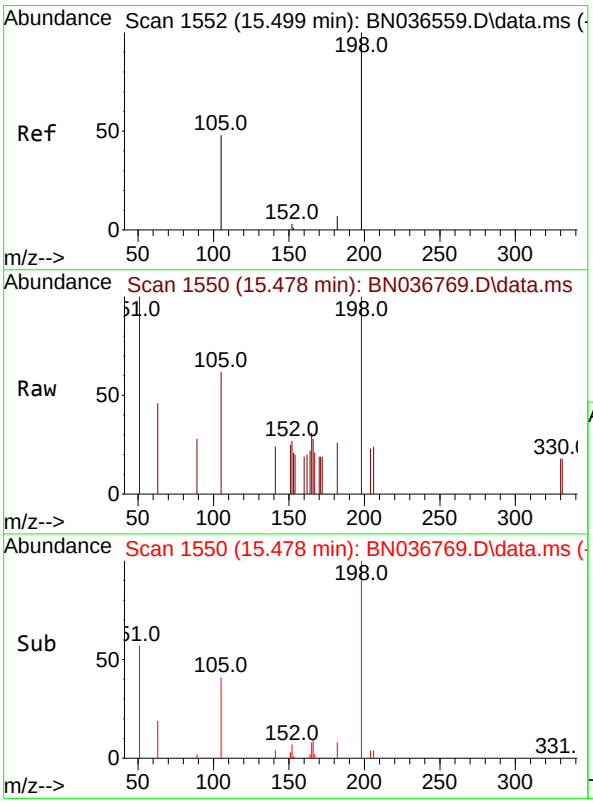

#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.087 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036769.D
Acq: 28 Mar 2025 12:47

**Instrument :**
BNA_N
**ClientSampleId :**
TT188S1-20250320MS

Tgt Ion:188 Resp: 5519

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 10.1 | 8.8 | 13.2 |

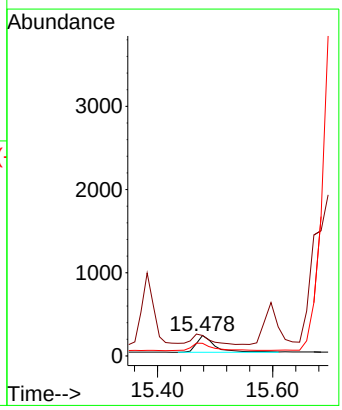


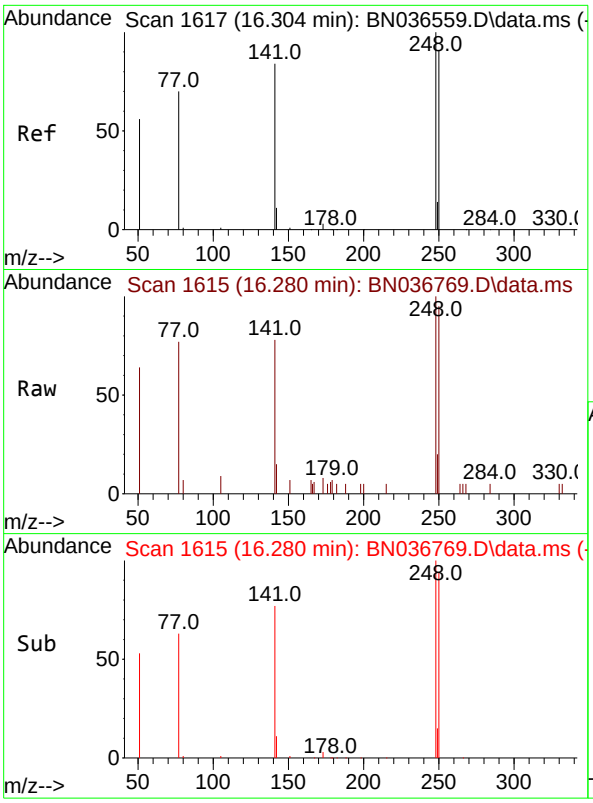




#20
4,6-Dinitro-2-methylphenol
Concen: 0.472 ng
RT: 15.478 min Scan# 1550
Delta R.T. -0.021 min
Lab File: BN036769.D
Acq: 28 Mar 2025 12:47

Tgt Ion:198 Resp: 460

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 198 | 100 | | |
| 51 | 100.0 | 107.9 | 161.9# |
| 105 | 61.5 | 56.2 | 84.2 |



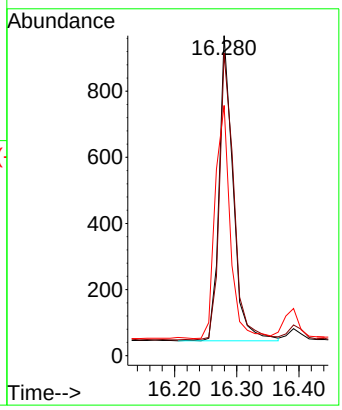


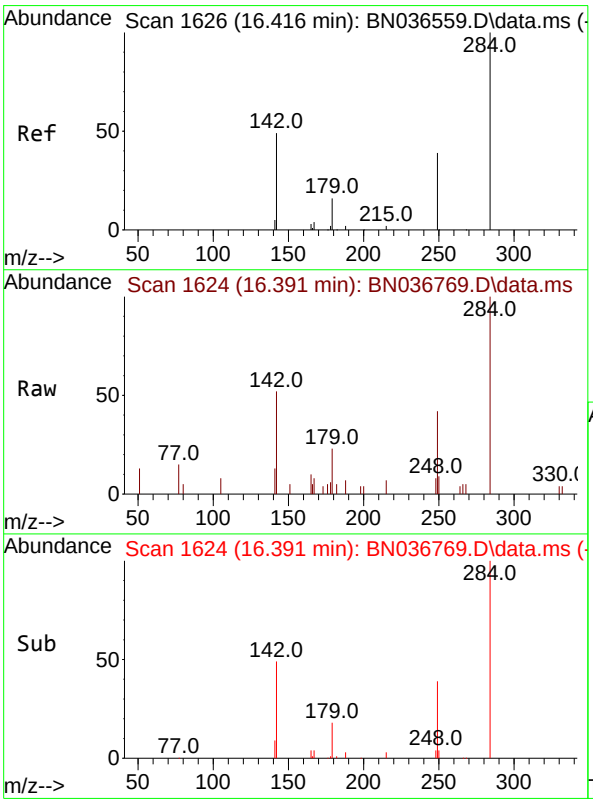

#21
4-Bromophenyl-phenylether
Concen: 0.415 ng
RT: 16.280 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036769.D
Acq: 28 Mar 2025 12:47

**Instrument :**
BNA_N
**ClientSampleId :**
TT188S1-20250320MS

Tgt Ion:248 Resp: 1436

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 94.5 | 73.0 | 109.6 |
| 141 | 78.2 | 68.6 | 103.0 |

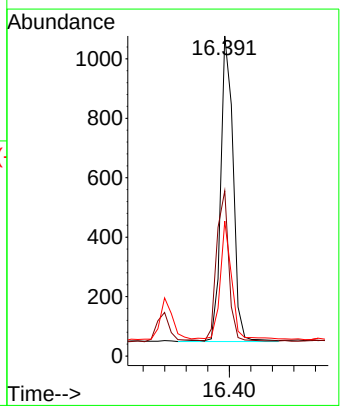


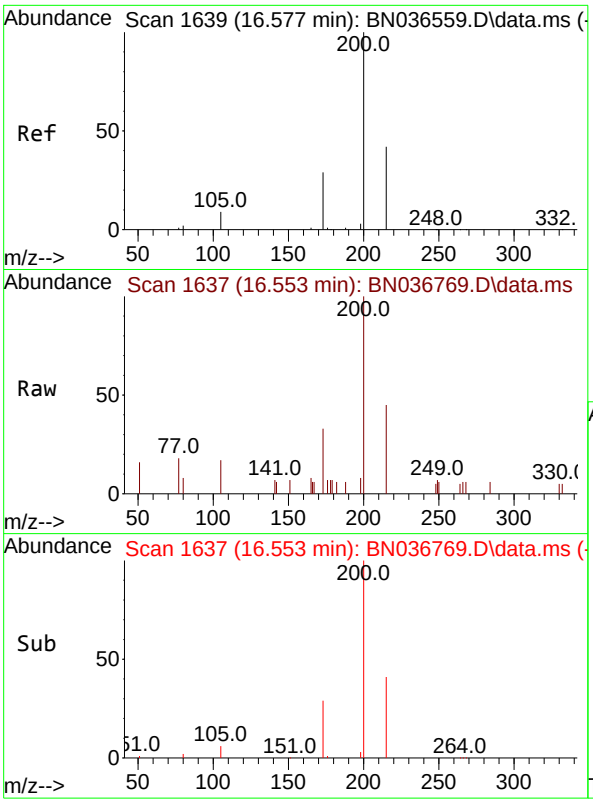




#22
Hexachlorobenzene
Concen: 0.395 ng
RT: 16.391 min Scan# 1624
Delta R.T. -0.025 min
Lab File: BN036769.D
Acq: 28 Mar 2025 12:47

Tgt Ion:284 Resp: 1647

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 48.1 | 37.0 | 55.4 |
| 249 | 36.3 | 28.1 | 42.1 |



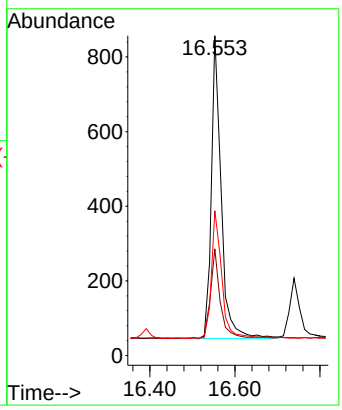


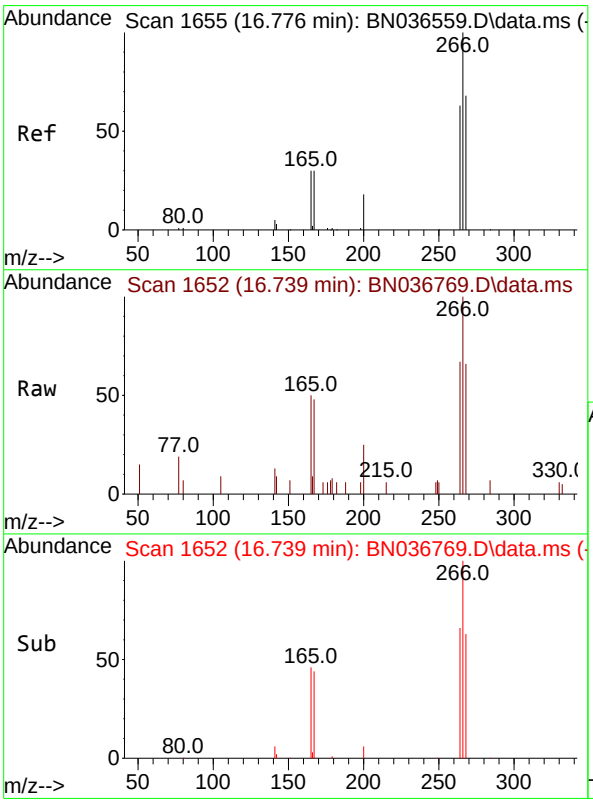

#23
Atrazine
Concen: 0.467 ng
RT: 16.553 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036769.D
Acq: 28 Mar 2025 12:47

**Instrument :**
BNA_N
**ClientSampleId :**
TT188S1-20250320MS

Tgt Ion:200 Resp: 1296

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 173 | 33.4 | 27.3 | 40.9 |
| 215 | 45.3 | 36.8 | 55.2 |

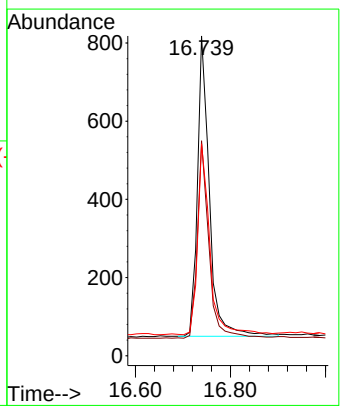


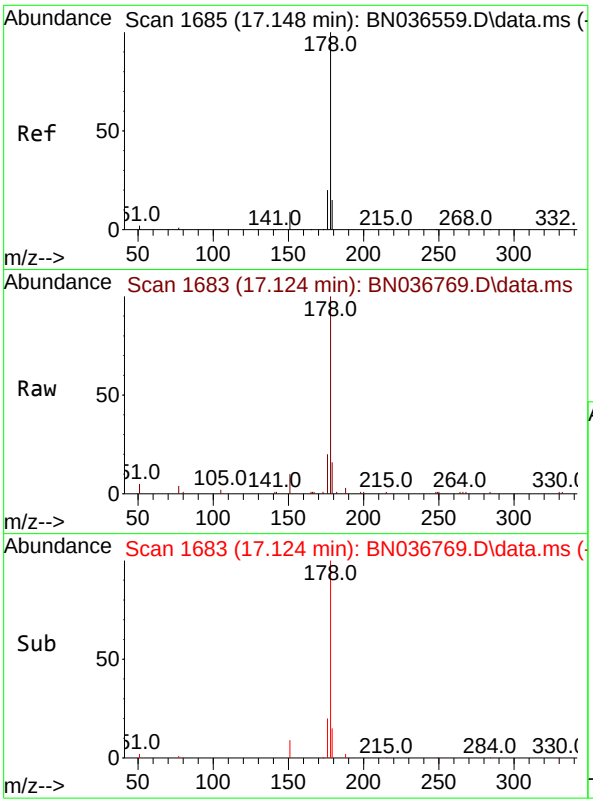




#24
Pentachlorophenol
Concen: 0.703 ng
RT: 16.739 min Scan# 1652
Delta R.T. -0.037 min
Lab File: BN036769.D
Acq: 28 Mar 2025 12:47

Tgt Ion:266 Resp: 1338

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 264 | 63.8 | 49.6 | 74.4 |
| 268 | 65.2 | 50.9 | 76.3 |



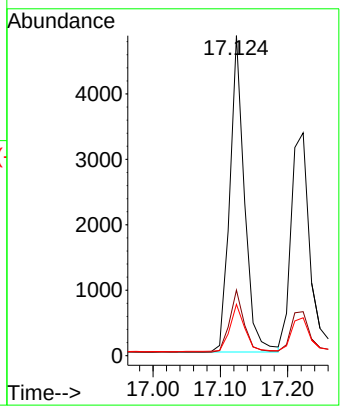


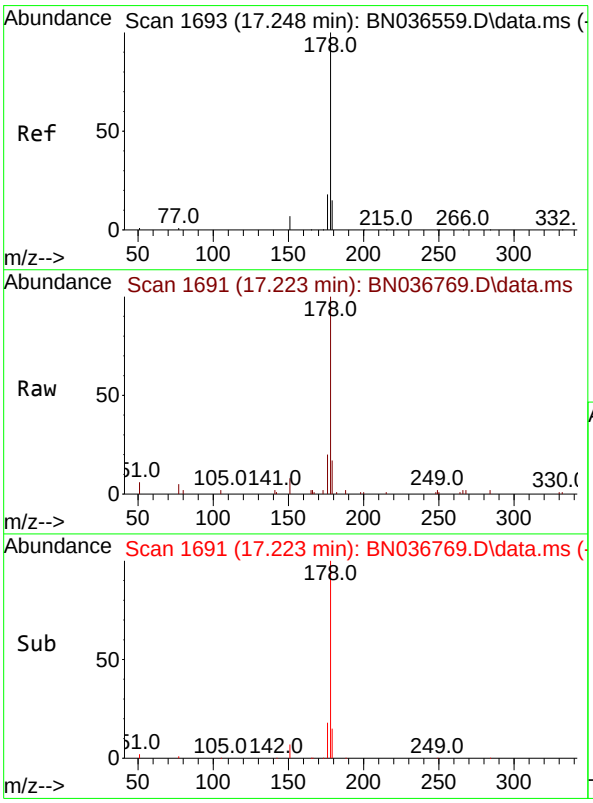

#25
Phenanthrene
Concen: 0.442 ng
RT: 17.124 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036769.D
Acq: 28 Mar 2025 12:47

**Instrument :**
BNA_N
**ClientSampleId :**
TT188S1-20250320MS

Tgt Ion:178 Resp: 7316

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.4 | 15.9 | 23.9 |
| 179 | 15.6 | 12.2 | 18.4 |

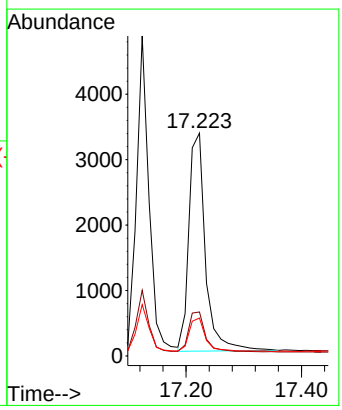


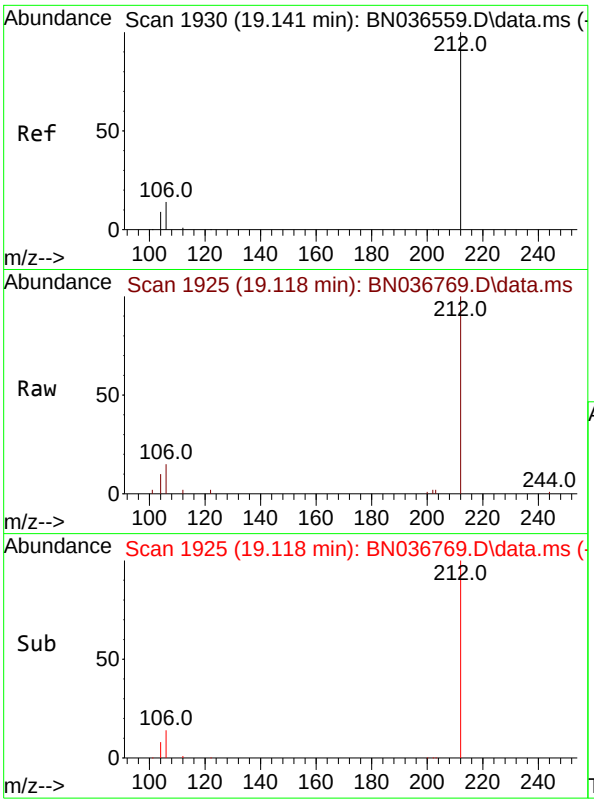




#26
Anthracene
Concen: 0.446 ng
RT: 17.223 min Scan# 1691
Delta R.T. -0.025 min
Lab File: BN036769.D
Acq: 28 Mar 2025 12:47

Tgt Ion:178 Resp: 6668

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.8 | 15.4 | 23.2 |
| 179 | 15.1 | 12.6 | 18.8 |



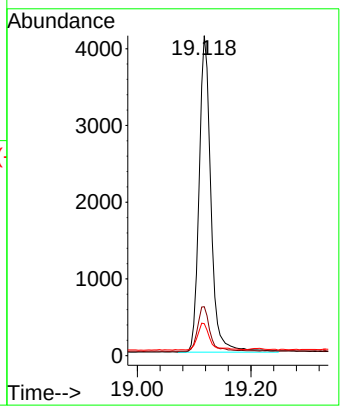


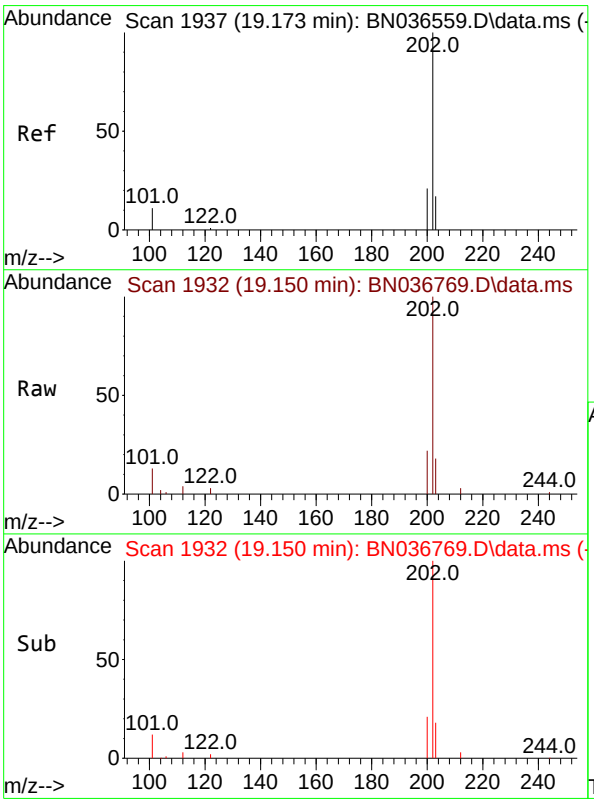

#27
Fluoranthene-d10
Concen: 0.420 ng
RT: 19.118 min Scan# 1
Delta R.T. -0.023 min
Lab File: BN036769.D
Acq: 28 Mar 2025 12:47

**Instrument :**
BNA_N
**ClientSampleId :**
TT188S1-20250320MS

Tgt Ion:212 Resp: 5936

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 14.7 | 11.8 | 17.6 |
| 104 | 8.7 | 7.3 | 10.9 |

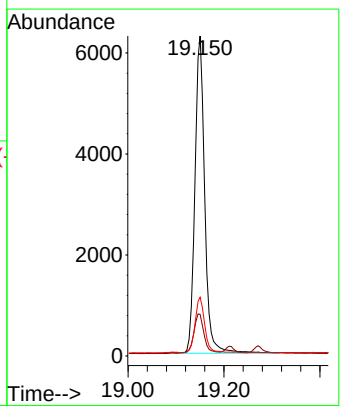


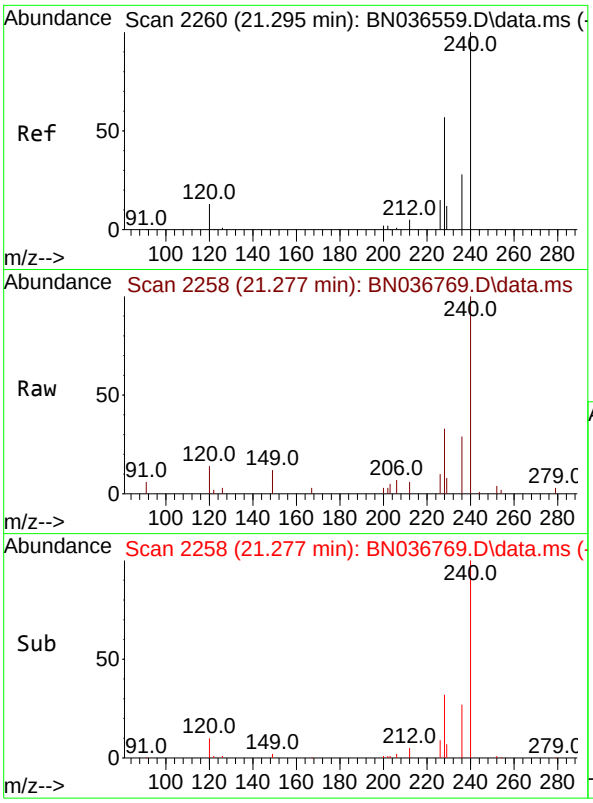




#28
Fluoranthene
Concen: 0.483 ng
RT: 19.150 min Scan# 1932
Delta R.T. -0.023 min
Lab File: BN036769.D
Acq: 28 Mar 2025 12:47

Tgt Ion:202 Resp: 8988

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 12.7 | 9.4 | 14.0 |
| 203 | 17.2 | 13.5 | 20.3 |



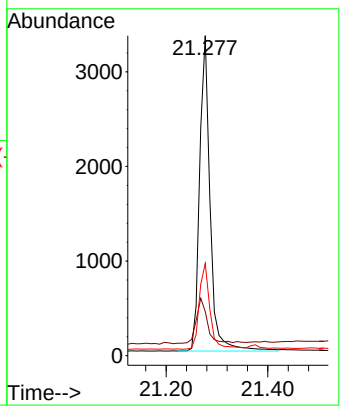


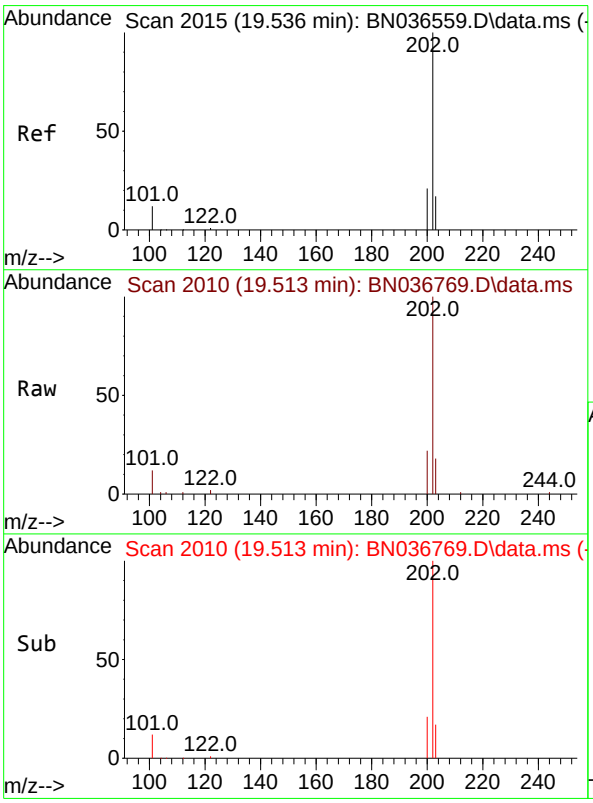

#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036769.D
Acq: 28 Mar 2025 12:47

**Instrument :**
BNA_N
**ClientSampleId :**
TT188S1-20250320MS

Tgt Ion:240 Resp: 4772

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 13.8 | 14.6 | 22.0# |
| 236 | 28.8 | 24.1 | 36.1 |

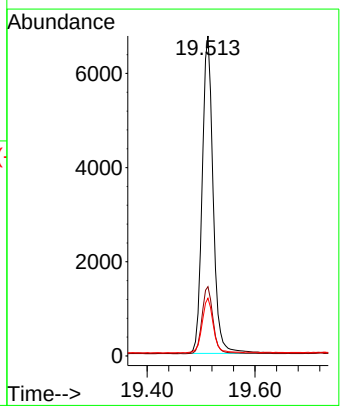


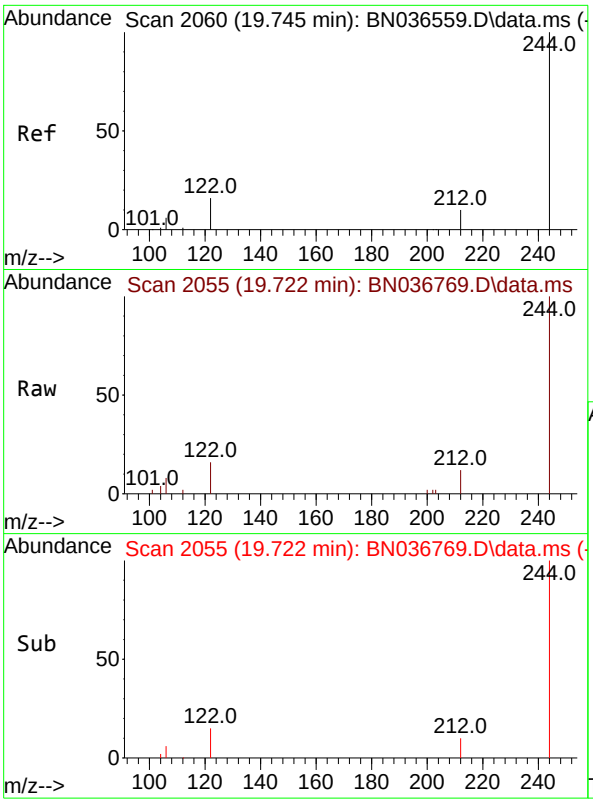




#30
Pyrene
Concen: 0.407 ng
RT: 19.513 min Scan# 2010
Delta R.T. -0.023 min
Lab File: BN036769.D
Acq: 28 Mar 2025 12:47

Tgt Ion:202 Resp: 9497

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.4 | 17.1 | 25.7 |
| 203 | 17.4 | 14.1 | 21.1 |



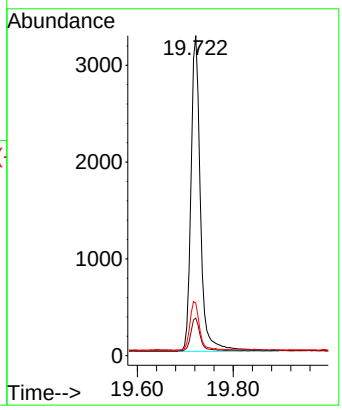


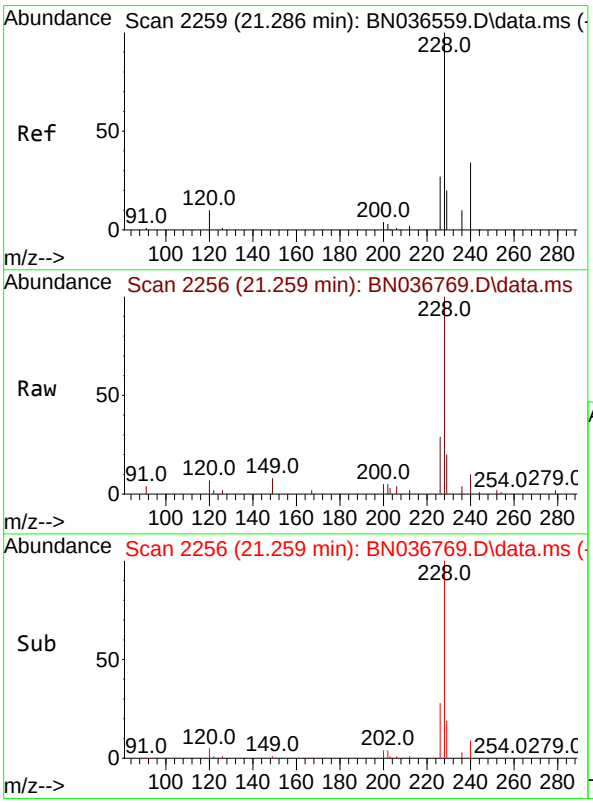

#31
Terphenyl-d14
Concen: 0.395 ng
RT: 19.722 min Scan# 2
Delta R.T. -0.023 min
Lab File: BN036769.D
Acq: 28 Mar 2025 12:47

**Instrument :**
BNA_N
**ClientSampleId :**
TT188S1-20250320MS

Tgt Ion:244 Resp: 4521

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 11.7 | 9.6 | 14.4 |
| 122 | 16.5 | 13.9 | 20.9 |

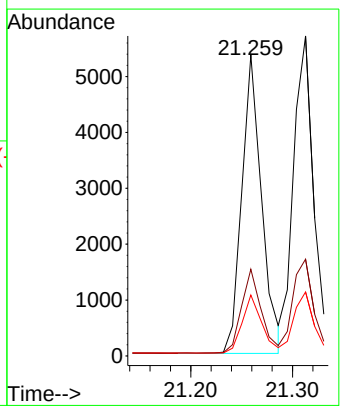


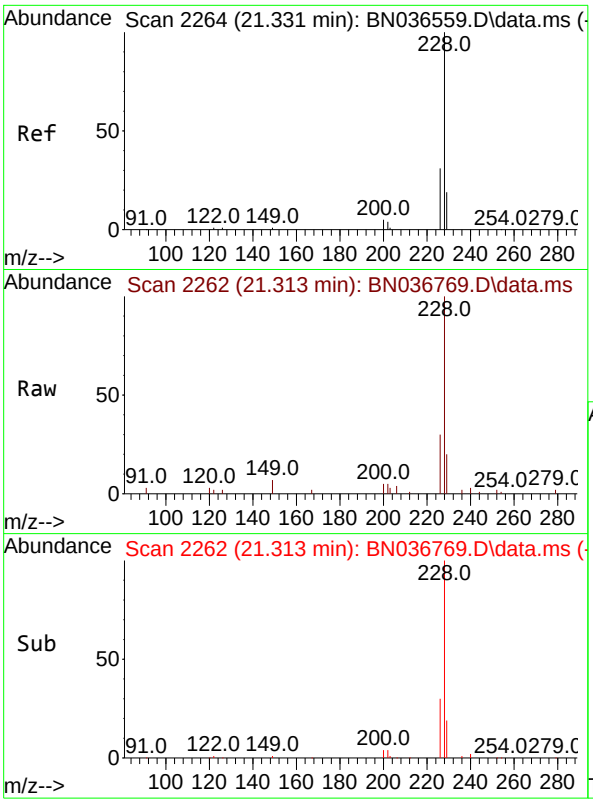




#32
Benzo(a)anthracene
Concen: 0.437 ng
RT: 21.259 min Scan# 2256
Delta R.T. -0.027 min
Lab File: BN036769.D
Acq: 28 Mar 2025 12:47

Tgt Ion:228 Resp: 7243

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 28.8 | 22.5 | 33.7 |
| 229 | 20.2 | 16.6 | 25.0 |



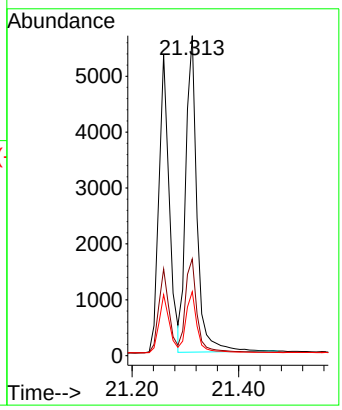


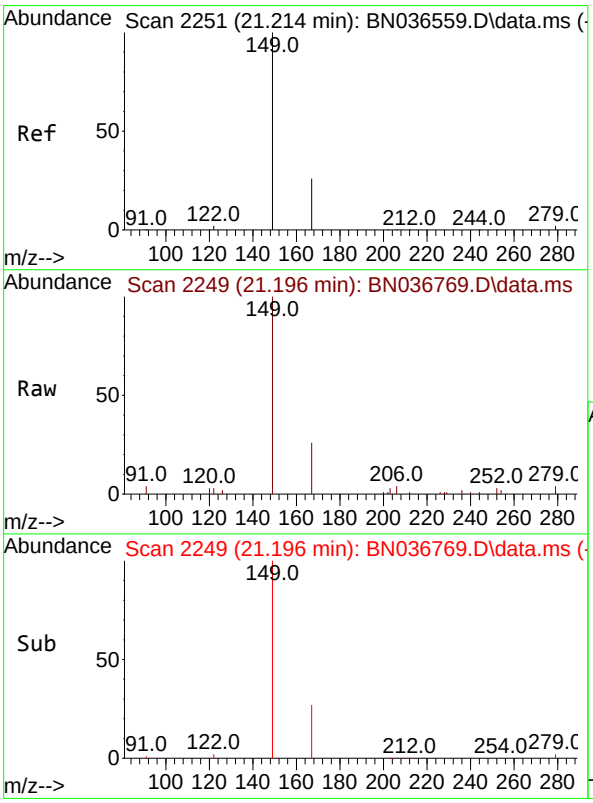

#33
Chrysene
Concen: 0.456 ng
RT: 21.313 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036769.D
Acq: 28 Mar 2025 12:47

**Instrument :**
BNA_N
**ClientSampleId :**
TT188S1-20250320MS

Tgt Ion:228 Resp: 8271

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 30.2 | 25.3 | 37.9 |
| 229 | 20.0 | 15.8 | 23.8 |

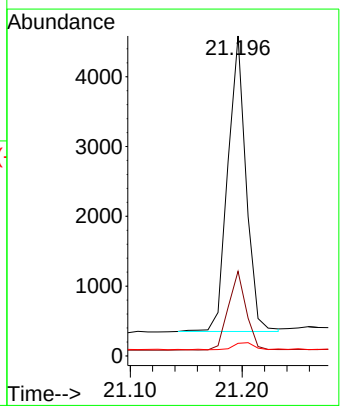


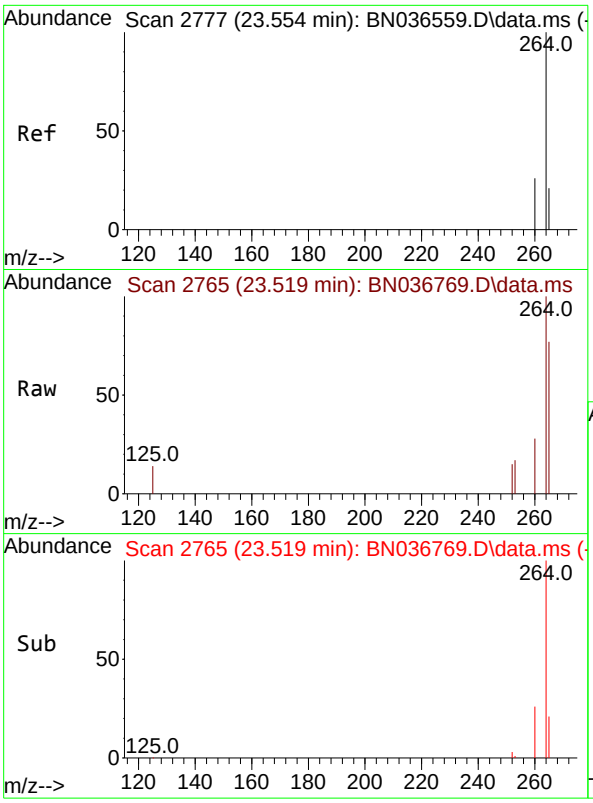




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.405 ng
RT: 21.196 min Scan# 2249
Delta R.T. -0.018 min
Lab File: BN036769.D
Acq: 28 Mar 2025 12:47

Tgt Ion:149 Resp: 4790

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 26.0 | 20.7 | 31.1 |
| 279 | 3.1 | 3.6 | 5.4# |



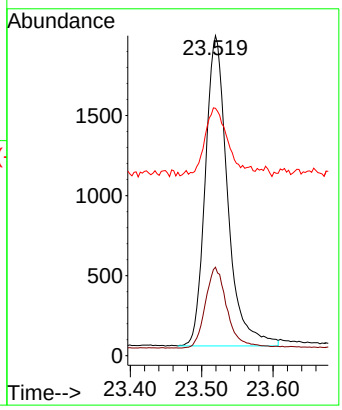


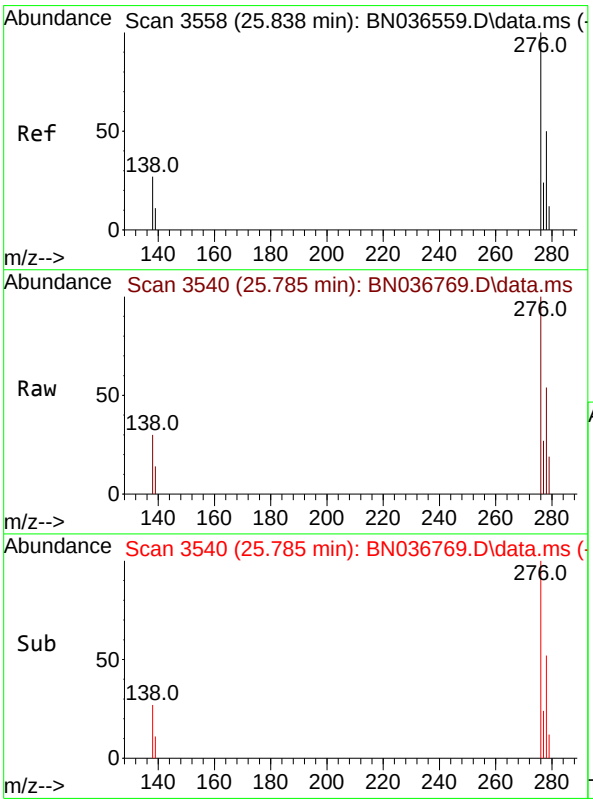

#35
Perylene-d12
Concen: 0.400 ng
RT: 23.519 min Scan# 2
Delta R.T. -0.035 min
Lab File: BN036769.D
Acq: 28 Mar 2025 12:47

**Instrument :**
BNA_N
**ClientSampleId :**
TT188S1-20250320MS

Tgt Ion:264 Resp: 4206

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 27.7 | 22.6 | 33.8 |
| 265 | 77.3 | 88.1 | 132.1# |

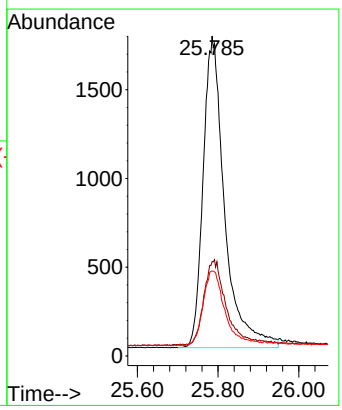


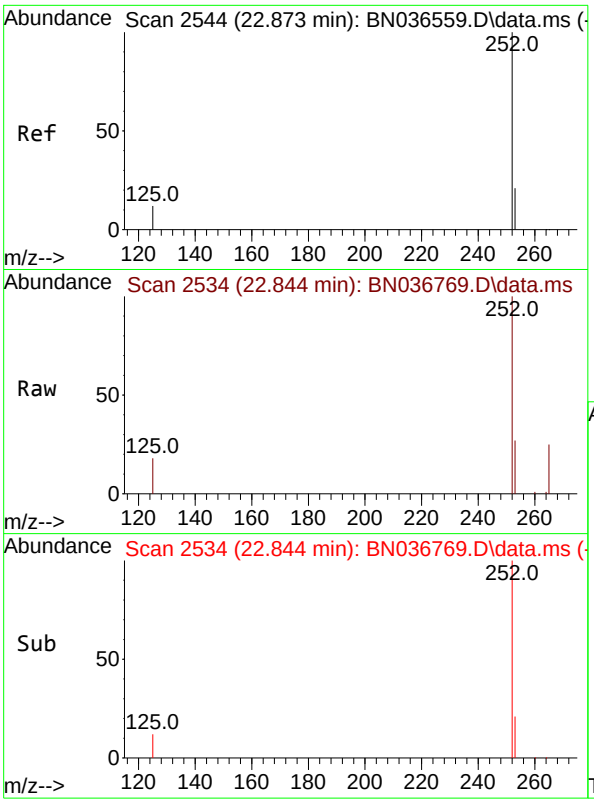




#36
Indeno(1,2,3-cd)pyrene
Concen: 0.427 ng
RT: 25.785 min Scan# 3540
Delta R.T. -0.052 min
Lab File: BN036769.D
Acq: 28 Mar 2025 12:47

Tgt Ion:276 Resp: 6488

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 27.3 | 23.4 | 35.2 |
| 277 | 24.7 | 20.0 | 30.0 |



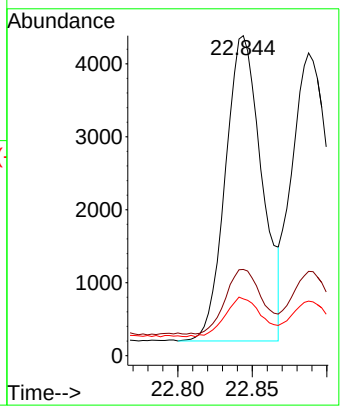


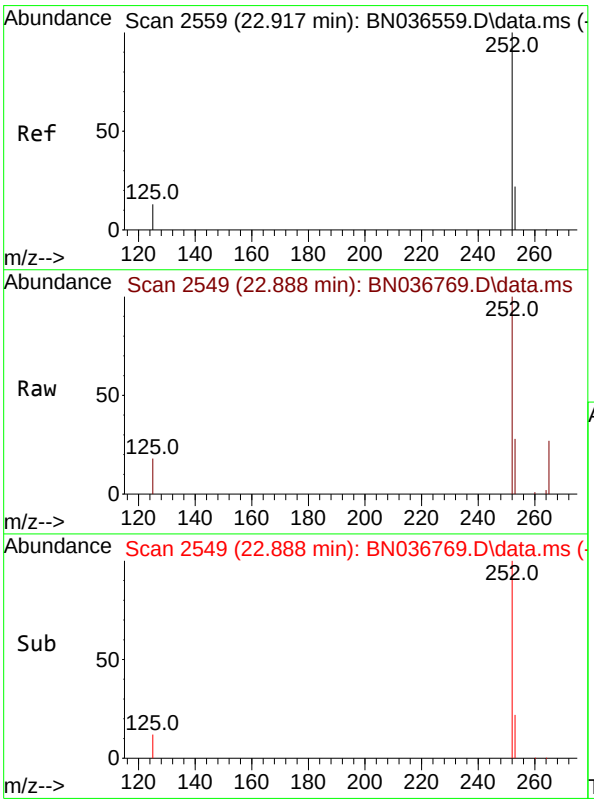

#37
Benzo(b)fluoranthene
Concen: 0.465 ng
RT: 22.844 min Scan# 2
Delta R.T. -0.029 min
Lab File: BN036769.D
Acq: 28 Mar 2025 12:47

**Instrument :**
BNA_N
**ClientSampleId :**
TT188S1-20250320MS

Tgt Ion:252 Resp: 7114

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 26.9 | 23.9 | 35.9 |
| 125 | 17.8 | 17.4 | 26.2 |

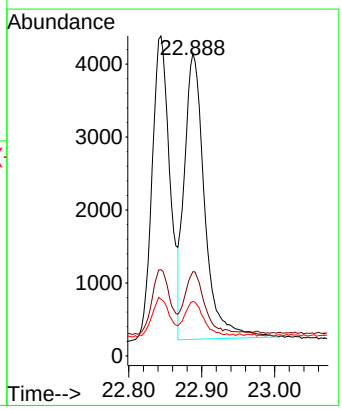


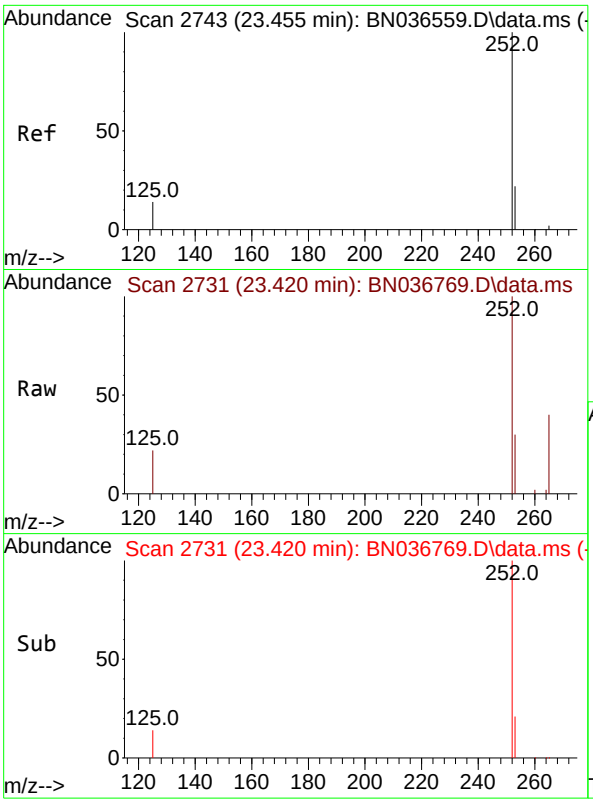




#38
Benzo(k)fluoranthene
Concen: 0.470 ng
RT: 22.888 min Scan# 2549
Delta R.T. -0.029 min
Lab File: BN036769.D
Acq: 28 Mar 2025 12:47

Tgt Ion:252 Resp: 7550

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 27.9 | 24.6 | 36.8 |
| 125 | 18.0 | 17.8 | 26.8 |



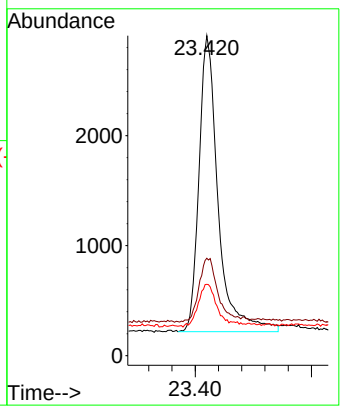


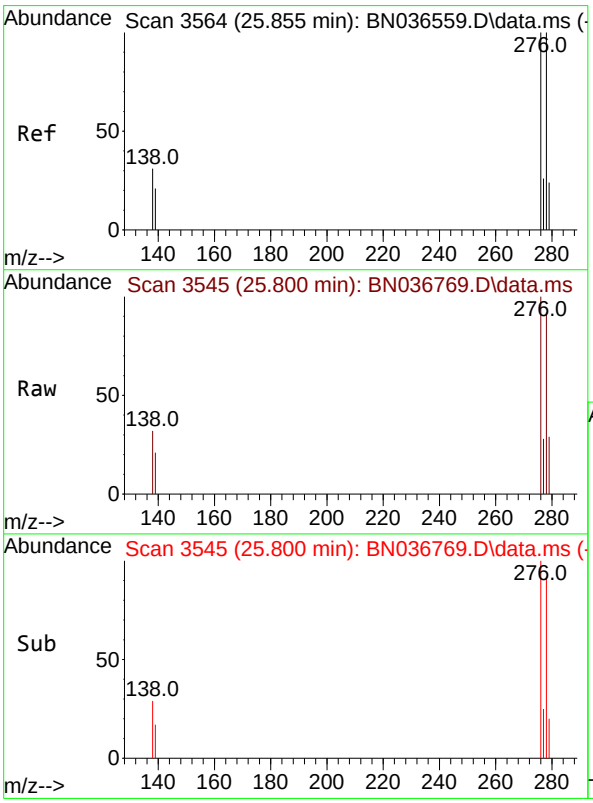

#39
Benzo(a)pyrene
Concen: 0.476 ng
RT: 23.420 min Scan# 2
Delta R.T. -0.035 min
Lab File: BN036769.D
Acq: 28 Mar 2025 12:47

**Instrument :**
BNA_N
**ClientSampleId :**
TT188S1-20250320MS

Tgt Ion:252 Resp: 6131

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 30.5 | 27.8 | 41.8 |
| 125 | 22.3 | 22.7 | 34.1# |

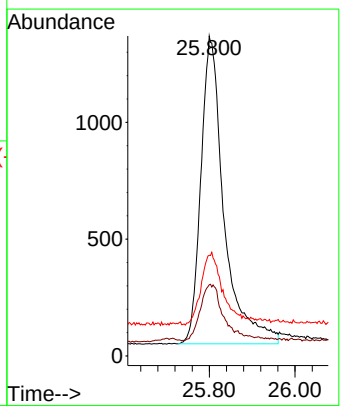


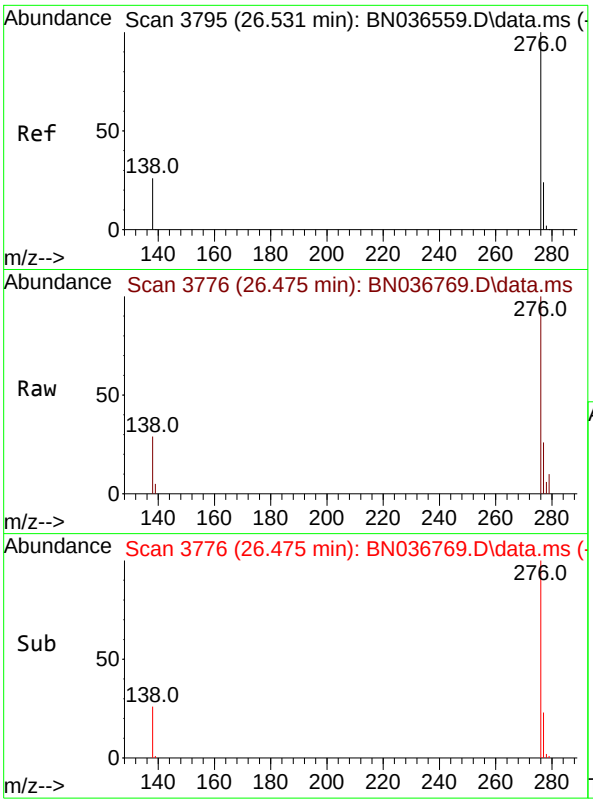




#40
Dibenzo(a,h)anthracene
Concen: 0.418 ng
RT: 25.800 min Scan# 3545
Delta R.T. -0.055 min
Lab File: BN036769.D
Acq: 28 Mar 2025 12:47

Tgt Ion:278 Resp: 4935

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 22.3 | 20.8 | 31.2 |
| 279 | 31.5 | 28.8 | 43.2 |



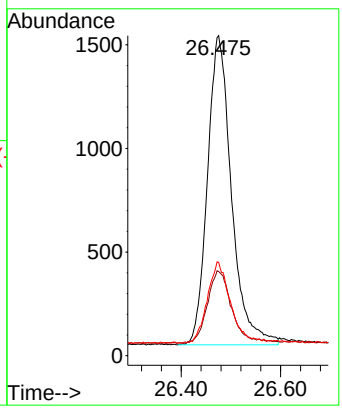



#41
Benzo(g,h,i)perylene
Concen: 0.371 ng
RT: 26.475 min Scan# 3
Delta R.T. -0.055 min
Lab File: BN036769.D
Acq: 28 Mar 2025 12:47

**Instrument :**
BNA_N
**ClientSampleId :**
TT188S1-20250320MS

Tgt Ion:276 Resp: 5010

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 26.3 | 22.2 | 33.4 |
| 138 | 29.1 | 24.1 | 36.1 |



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036770.D
Acq On : 28 Mar 2025 13:22
Operator : RC/JU
Sample : Q1629-05MSD
Misc :
ALS Vial : 35 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
TT188S1-20250320MSD

Quant Time: Mar 28 14:17:33 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.696 | 152 | 1415 | 0.400 | ng | -0.03 |
| 7) Naphthalene-d8 | 10.488 | 136 | 3434 | 0.400 | ng | #-0.02 |
| 13) Acenaphthene-d10 | 14.334 | 164 | 2160 | 0.400 | ng | -0.03 |
| 19) Phenanthrene-d10 | 17.087 | 188 | 4889 | 0.400 | ng | -0.02 |
| 29) Chrysene-d12 | 21.277 | 240 | 4383 | 0.400 | ng | #-0.02 |
| 35) Perylene-d12 | 23.516 | 264 | 3881 | 0.400 | ng | #-0.04 |
| System Monitoring Compounds | | | | | | |
| 4) 2-Fluorophenol | 5.291 | 112 | 530 | 0.161 | ng | -0.02 |
| 5) Phenol-d6 | 6.872 | 99 | 415 | 0.102 | ng | -0.03 |
| 8) Nitrobenzene-d5 | 8.854 | 82 | 1156 | 0.309 | ng | -0.02 |
| 11) 2-Methylnaphthalene-d10 | 12.075 | 152 | 2081 | 0.407 | ng | -0.04 |
| 14) 2,4,6-Tribromophenol | 15.833 | 330 | 421 | 0.430 | ng | -0.02 |
| 15) 2-Fluorobiphenyl | 12.963 | 172 | 4557 | 0.363 | ng | -0.03 |
| 27) Fluoranthene-d10 | 19.118 | 212 | 5348 | 0.427 | ng | -0.02 |
| 31) Terphenyl-d14 | 19.722 | 244 | 3904 | 0.372 | ng | -0.02 |
| Target Compounds | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.225 | 88 | 887 | 0.565 | ng | # 59 |
| 3) n-Nitrosodimethylamine | 3.536 | 42 | 534 | 0.168 | ng | # 96 |
| 6) bis(2-Chloroethyl)ether | 7.125 | 93 | 1239 | 0.294 | ng | 94 |
| 9) Naphthalene | 10.530 | 128 | 3214 | 0.318 | ng | 97 |
| 10) Hexachlorobutadiene | 10.819 | 225 | 699 | 0.294 | ng | # 98 |
| 12) 2-Methylnaphthalene | 12.152 | 142 | 2096 | 0.326 | ng | 98 |
| 16) Acenaphthylene | 14.056 | 152 | 3550 | 0.348 | ng | 99 |
| 17) Acenaphthene | 14.398 | 154 | 2270 | 0.340 | ng | 99 |
| 18) Fluorene | 15.393 | 166 | 3209 | 0.356 | ng | 99 |
| 20) 4,6-Dinitro-2-methylph... | 15.478 | 198 | 349 | 0.425 | ng | 83 |
| 21) 4-Bromophenyl-phenylether | 16.280 | 248 | 1077 | 0.352 | ng | 96 |
| 22) Hexachlorobenzene | 16.391 | 284 | 1179 | 0.319 | ng | 94 |
| 23) Atrazine | 16.553 | 200 | 1002 | 0.408 | ng | 100 |
| 24) Pentachlorophenol | 16.739 | 266 | 1036 | 0.614 | ng | 98 |
| 25) Phenanthrene | 17.124 | 178 | 5668 | 0.386 | ng | 100 |
| 26) Anthracene | 17.223 | 178 | 5004 | 0.378 | ng | 99 |
| 28) Fluoranthene | 19.150 | 202 | 6870 | 0.417 | ng | 99 |
| 30) Pyrene | 19.513 | 202 | 7205 | 0.336 | ng | 100 |
| 32) Benzo(a)anthracene | 21.259 | 228 | 5677 | 0.372 | ng | 99 |
| 33) Chrysene | 21.313 | 228 | 6461 | 0.388 | ng | 98 |
| 34) Bis(2-ethylhexyl)phtha... | 21.196 | 149 | 3896 | 0.359 | ng | # 99 |
| 36) Indeno(1,2,3-cd)pyrene | 25.785 | 276 | 5098 | 0.364 | ng | 96 |
| 37) Benzo(b)fluoranthene | 22.844 | 252 | 5361 | 0.380 | ng | 97 |
| 38) Benzo(k)fluoranthene | 22.888 | 252 | 5659 | 0.382 | ng | 95 |
| 39) Benzo(a)pyrene | 23.420 | 252 | 4598 | 0.387 | ng | 95 |
| 40) Dibenzo(a,h)anthracene | 25.803 | 278 | 3921 | 0.360 | ng | 95 |
| 41) Benzo(g,h,i)perylene | 26.469 | 276 | 3995 | 0.320 | ng | 96 |

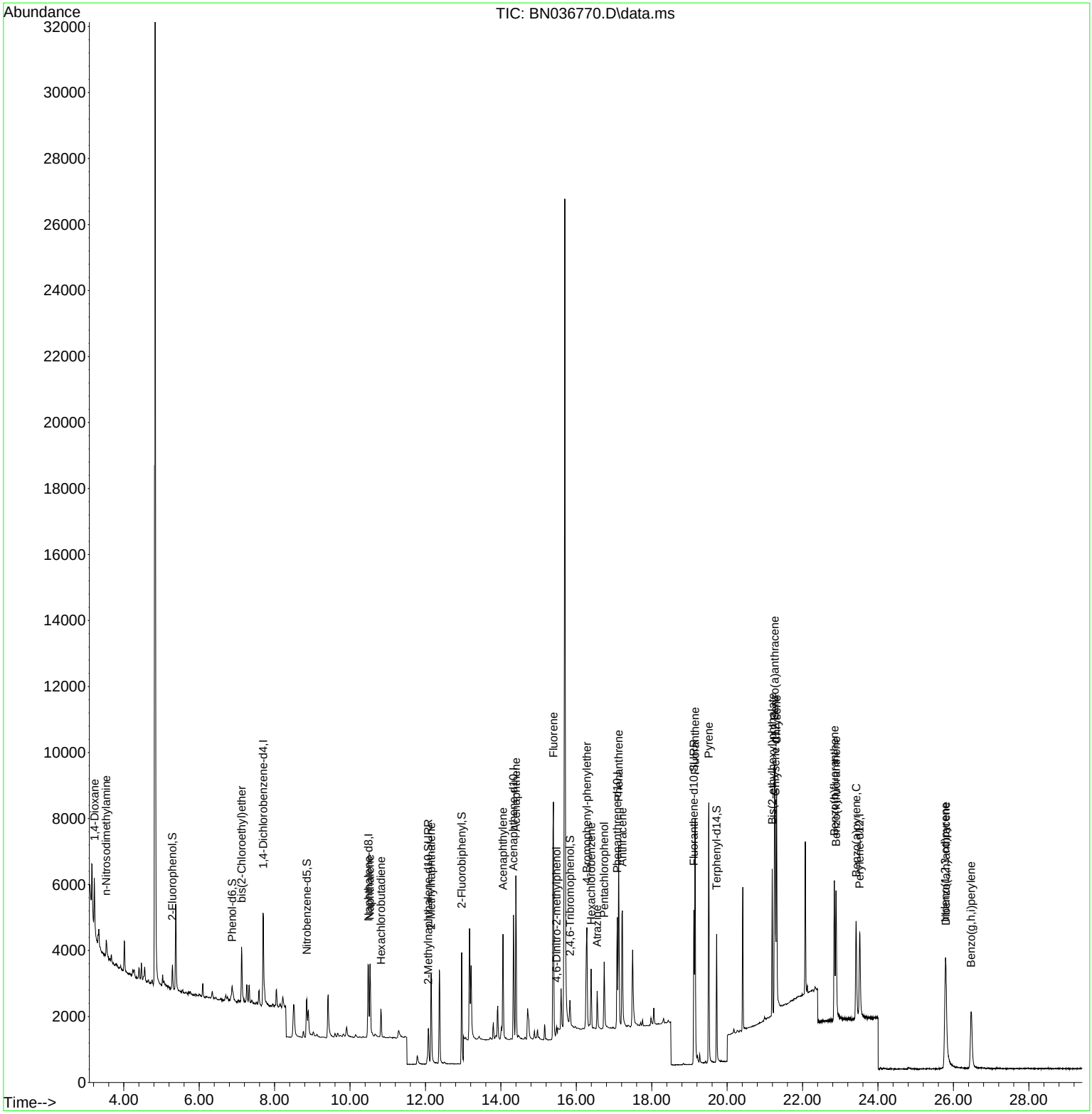
(#) = qualifier out of range (m) = manual integration (+) = signals summed

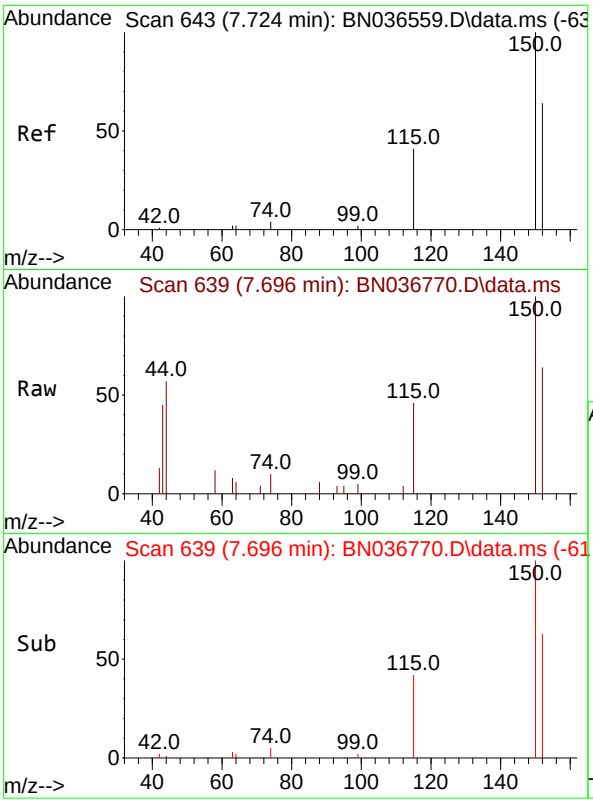
Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036770.D
Acq On : 28 Mar 2025 13:22
Operator : RC/JU
Sample : Q1629-05MSD
Misc :
ALS Vial : 35 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
TT188S1-20250320MSD

Quant Time: Mar 28 14:17:33 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration



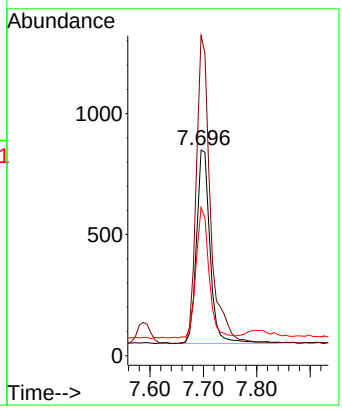


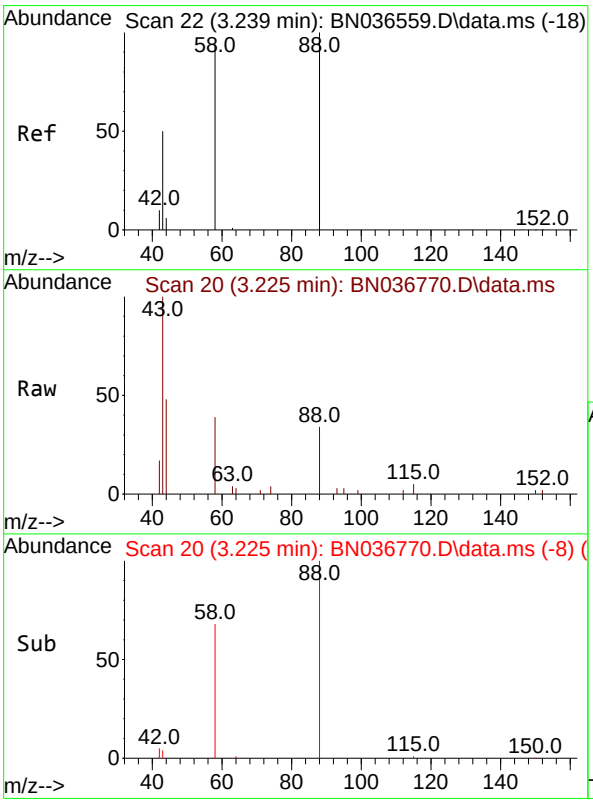

#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.696 min Scan# 6
Delta R.T. -0.028 min
Lab File: BN036770.D
Acq: 28 Mar 2025 13:22

**Instrument :**
BNA_N
**ClientSampleId :**
TT188S1-20250320MSD

Tgt Ion:152 Resp: 1415

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 155.7 | 123.7 | 185.5 |
| 115 | 72.1 | 54.3 | 81.5 |

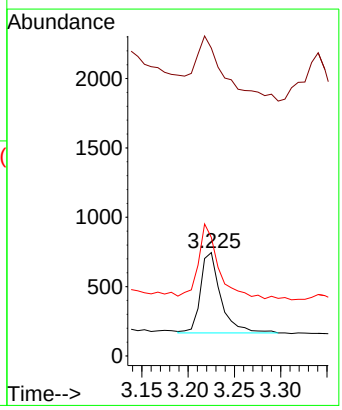


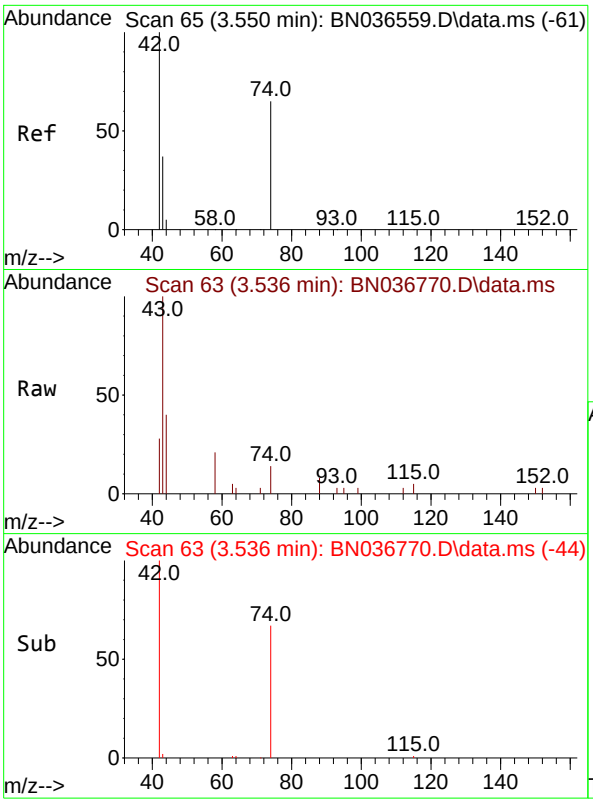




#2
1,4-Dioxane
Concen: 0.565 ng
RT: 3.225 min Scan# 20
Delta R.T. -0.014 min
Lab File: BN036770.D
Acq: 28 Mar 2025 13:22

Tgt Ion: 88 Resp: 887

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 114.2 | 37.8 | 56.8# |
| 58 | 91.4 | 67.4 | 101.2 |



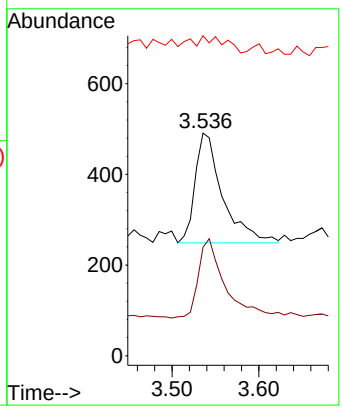


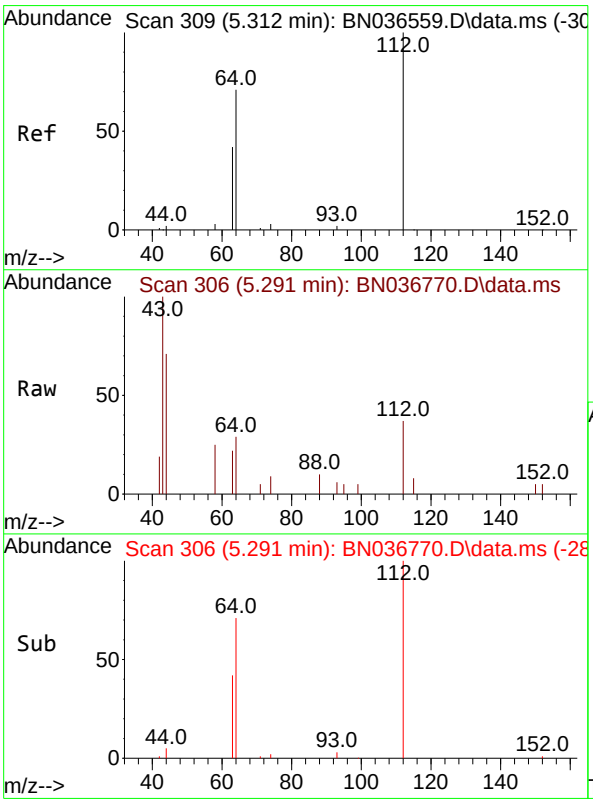

#3
n-Nitrosodimethylamine
Concen: 0.168 ng
RT: 3.536 min Scan# 6
Delta R.T. -0.014 min
Lab File: BN036770.D
Acq: 28 Mar 2025 13:22

**Instrument :**
BNA_N
**ClientSampleId :**
TT188S1-20250320MSD

Tgt Ion: 42 Resp: 534

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 73.0 | 60.6 | 90.8 |
| 44 | 12.9 | 6.3 | 9.5# |

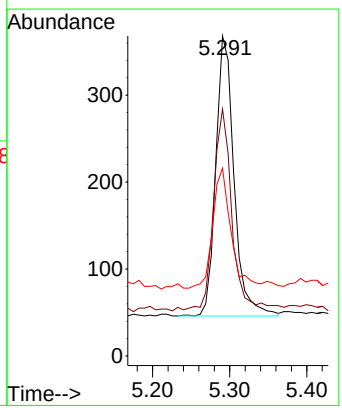


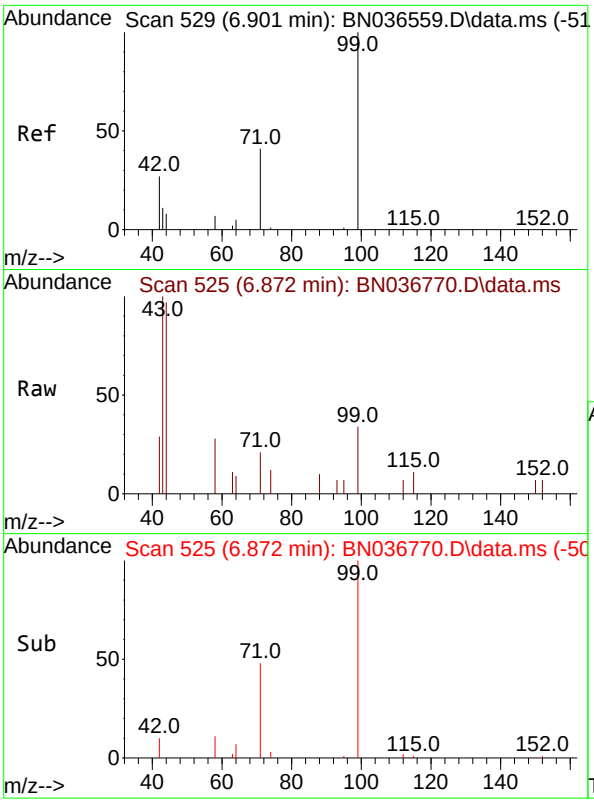




#4
2-Fluorophenol
Concen: 0.161 ng
RT: 5.291 min Scan# 306
Delta R.T. -0.021 min
Lab File: BN036770.D
Acq: 28 Mar 2025 13:22

Tgt Ion:112 Resp: 530

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 73.4 | 53.1 | 79.7 |
| 63 | 42.3 | 31.8 | 47.8 |



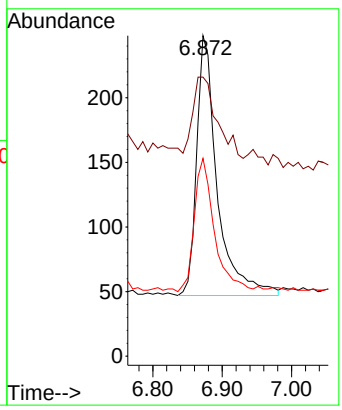


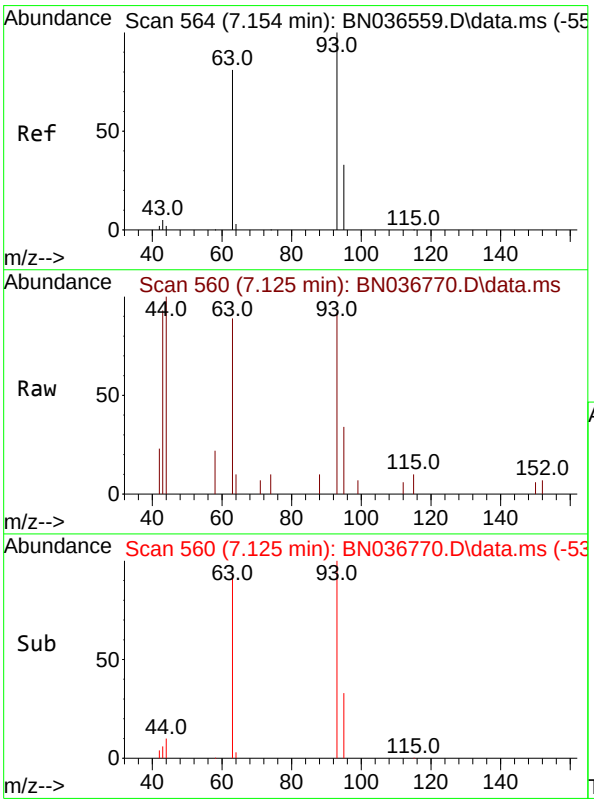

#5
Phenol-d6
Concen: 0.102 ng
RT: 6.872 min Scan# 5
Delta R.T. -0.029 min
Lab File: BN036770.D
Acq: 28 Mar 2025 13:22

**Instrument :**
BNA_N
**ClientSampleId :**
TT188S1-20250320MSD

Tgt Ion: 99 Resp: 415

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 37.6 | 26.5 | 39.7 |
| 71 | 47.5 | 34.1 | 51.1 |

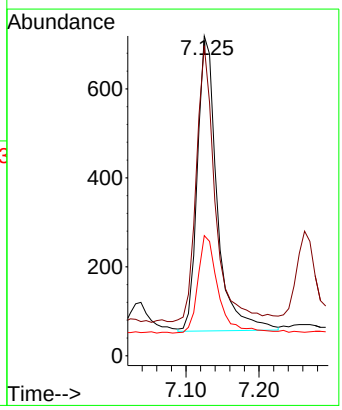


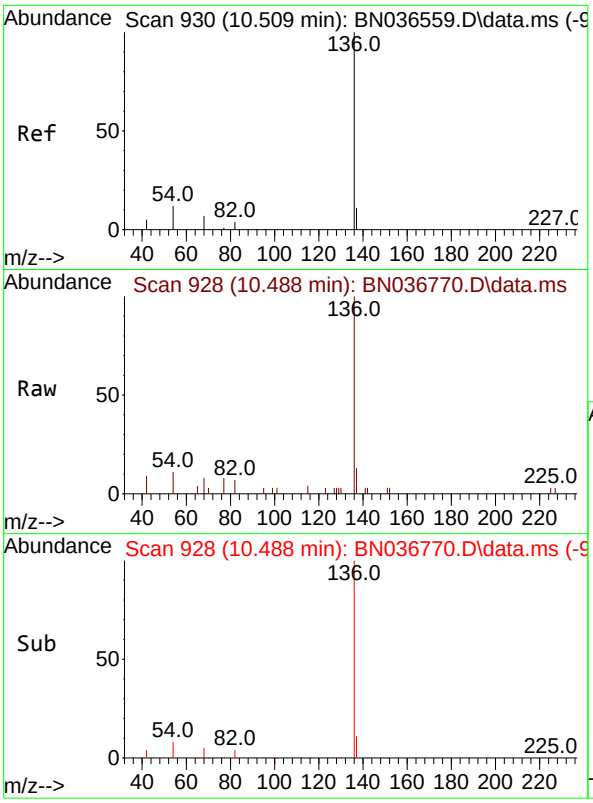




#6
bis(2-Chloroethyl)ether
Concen: 0.294 ng
RT: 7.125 min Scan# 560
Delta R.T. -0.029 min
Lab File: BN036770.D
Acq: 28 Mar 2025 13:22

Tgt Ion: 93 Resp: 1239

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 90.4 | 67.7 | 101.5 |
| 95 | 34.1 | 25.6 | 38.4 |



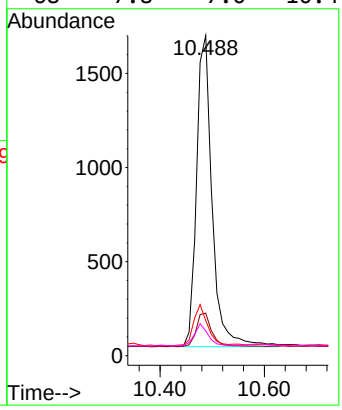


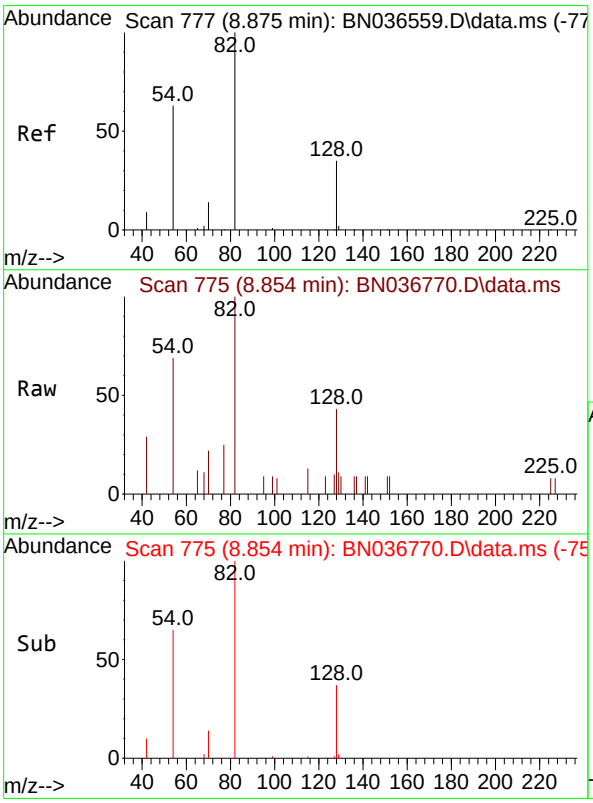

#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.488 min Scan# 9
Delta R.T. -0.021 min
Lab File: BN036770.D
Acq: 28 Mar 2025 13:22

**Instrument :**
BNA_N
**ClientSampleId :**
TT188S1-20250320MSD

Tgt Ion:136 Resp: 3434

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 13.3 | 10.3 | 15.5 |
| 54 | 11.0 | 11.5 | 17.3# |
| 68 | 7.8 | 7.0 | 10.4 |

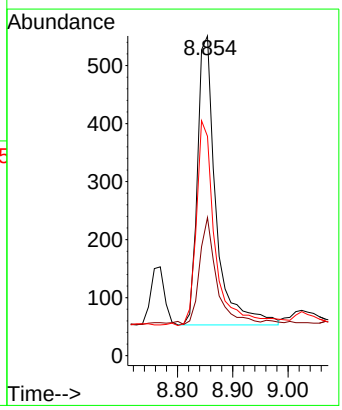


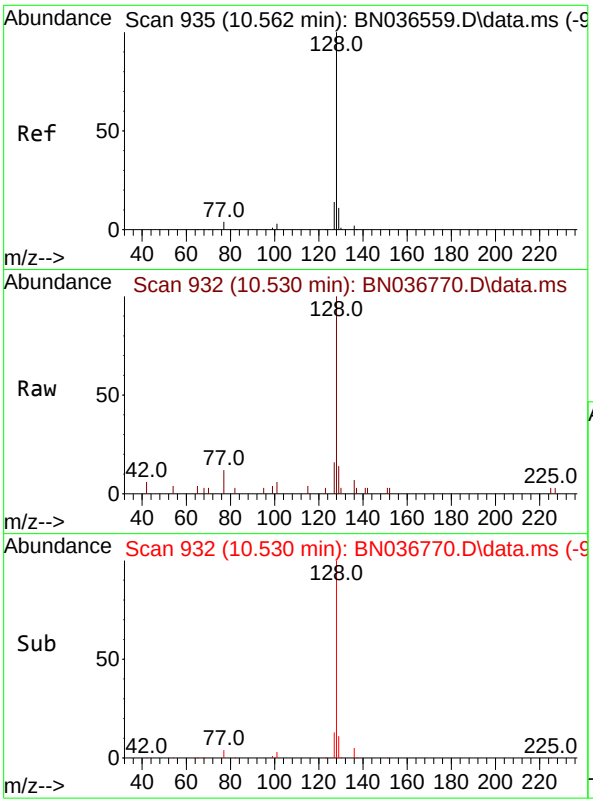




#8
Nitrobenzene-d5
Concen: 0.309 ng
RT: 8.854 min Scan# 775
Delta R.T. -0.021 min
Lab File: BN036770.D
Acq: 28 Mar 2025 13:22

Tgt Ion: 82 Resp: 1156

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 43.2 | 30.6 | 45.8 |
| 54 | 68.6 | 52.2 | 78.4 |



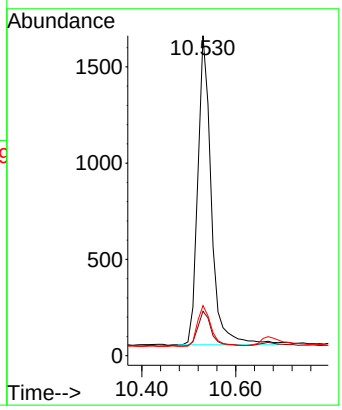


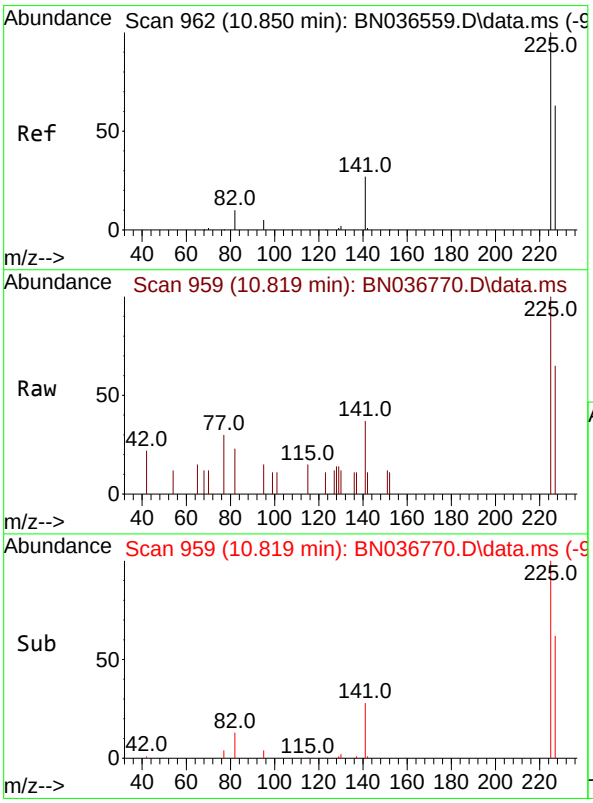

#9
Naphthalene
Concen: 0.318 ng
RT: 10.530 min Scan# 9
Delta R.T. -0.032 min
Lab File: BN036770.D
Acq: 28 Mar 2025 13:22

**Instrument :**
BNA_N
**ClientSampleId :**
TT188S1-20250320MSD

Tgt Ion:128 Resp: 3214

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 13.9 | 9.8 | 14.6 |
| 127 | 15.6 | 11.8 | 17.8 |

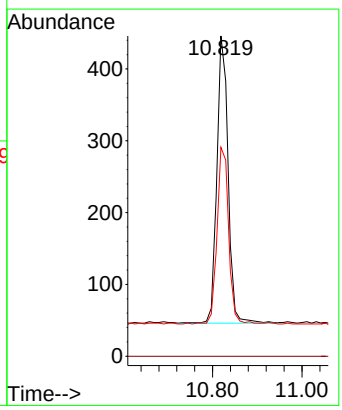


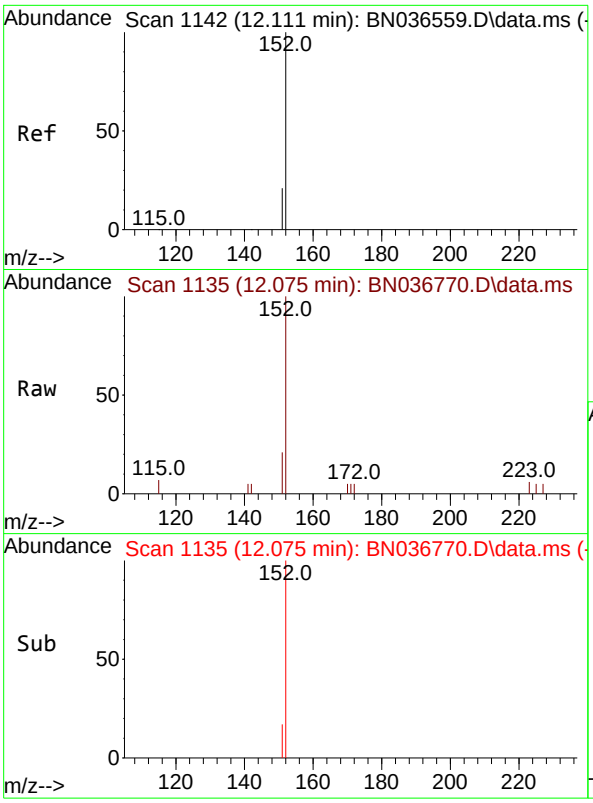




#10
Hexachlorobutadiene
Concen: 0.294 ng
RT: 10.819 min Scan# 959
Delta R.T. -0.032 min
Lab File: BN036770.D
Acq: 28 Mar 2025 13:22

Tgt Ion:225 Resp: 699

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 0.0 | 0.0 | 0.0 |
| 227 | 63.4 | 51.8 | 77.8 |



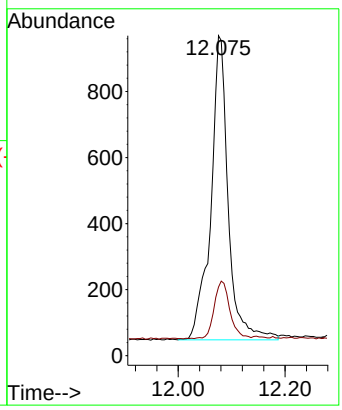


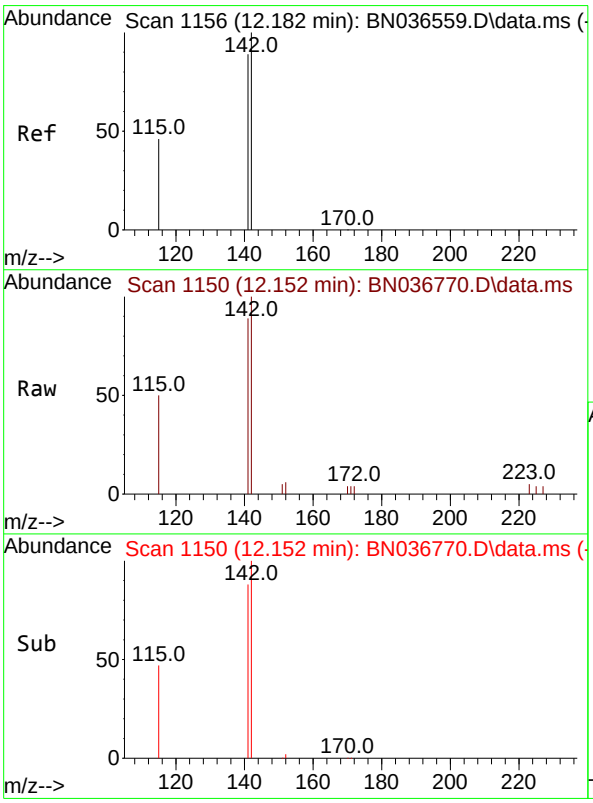

#11
2-Methylnaphthalene-d10
Concen: 0.407 ng
RT: 12.075 min Scan# 11
Delta R.T. -0.035 min
Lab File: BN036770.D
Acq: 28 Mar 2025 13:22

**Instrument :**
BNA_N
**ClientSampleId :**
TT188S1-20250320MSD

Tgt Ion:152 Resp: 2081

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 17.3 | 17.0 | 25.6 |

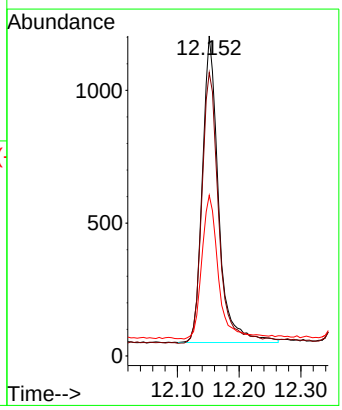


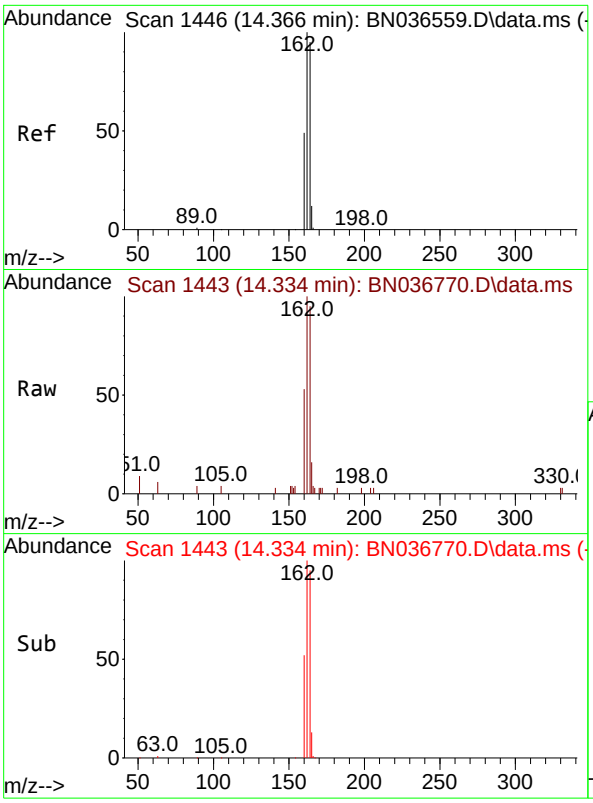




#12
2-Methylnaphthalene
Concen: 0.326 ng
RT: 12.152 min Scan# 1150
Delta R.T. -0.030 min
Lab File: BN036770.D
Acq: 28 Mar 2025 13:22

Tgt Ion:142 Resp: 2096

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 88.5 | 71.7 | 107.5 |
| 115 | 50.2 | 38.3 | 57.5 |



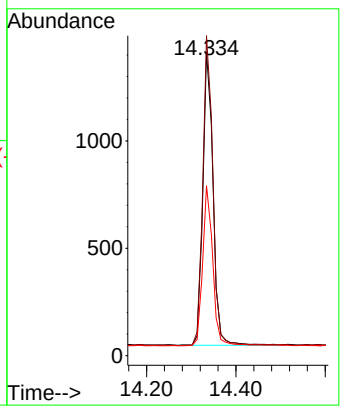


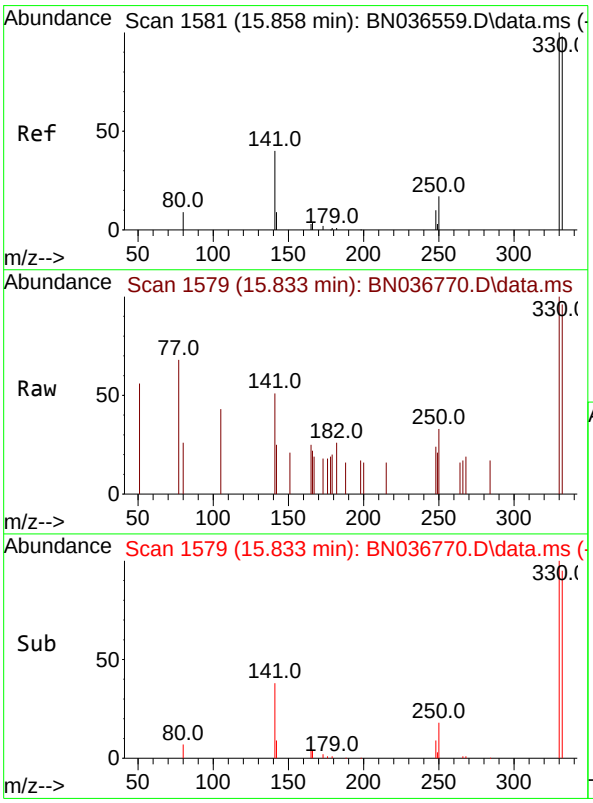

#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.334 min Scan# 14
Delta R.T. -0.032 min
Lab File: BN036770.D
Acq: 28 Mar 2025 13:22

**Instrument :**
BNA_N
**ClientSampleId :**
TT188S1-20250320MSD

Tgt Ion:164 Resp: 2160

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 105.4 | 84.2 | 126.2 |
| 160 | 55.9 | 42.2 | 63.2 |

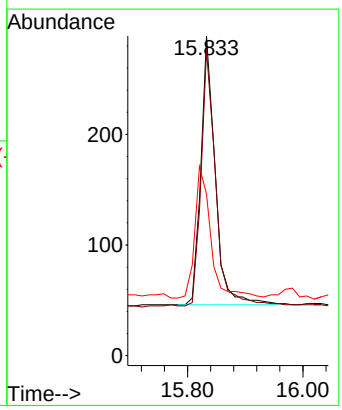


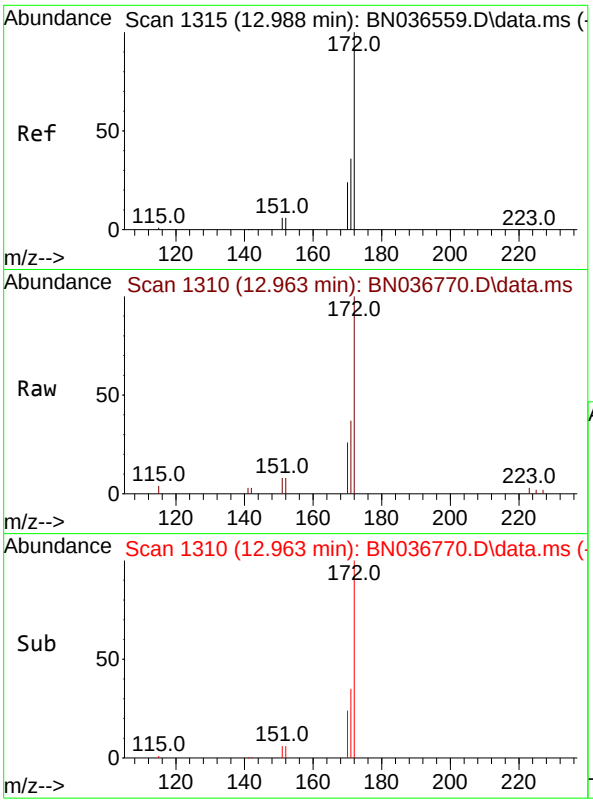




#14
2,4,6-Tribromophenol
Concen: 0.430 ng
RT: 15.833 min Scan# 1579
Delta R.T. -0.025 min
Lab File: BN036770.D
Acq: 28 Mar 2025 13:22

Tgt Ion:330 Resp: 421

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 100.2 | 75.2 | 112.8 |
| 141 | 54.4 | 43.4 | 65.2 |



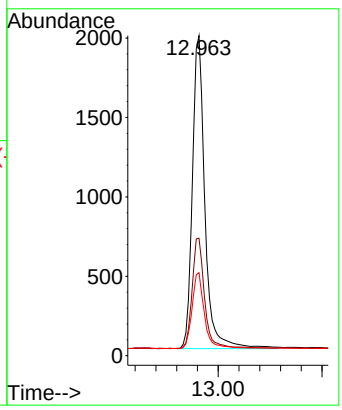


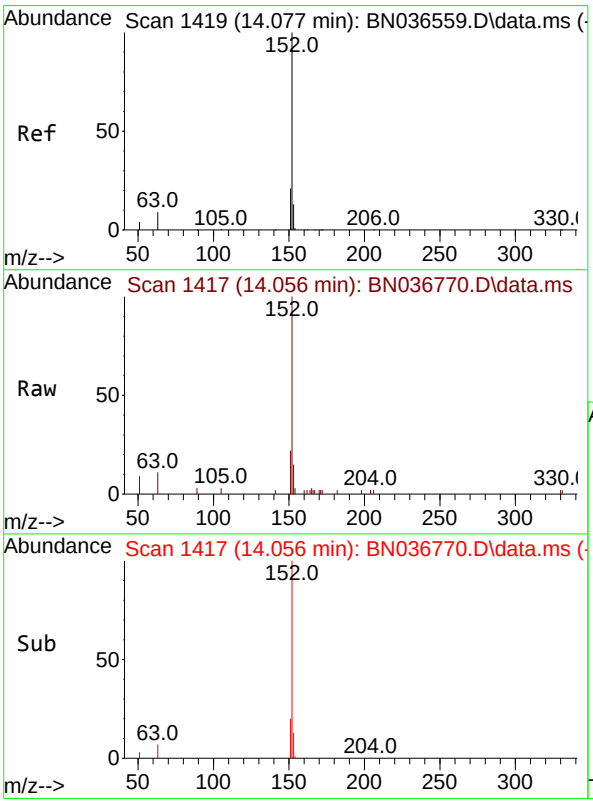

#15
2-Fluorobiphenyl
Concen: 0.363 ng
RT: 12.963 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036770.D
Acq: 28 Mar 2025 13:22

**Instrument :**
BNA_N
**ClientSampleId :**
TT188S1-20250320MSD

Tgt Ion:172 Resp: 4557

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 36.7 | 29.5 | 44.3 |
| 170 | 26.0 | 20.2 | 30.4 |

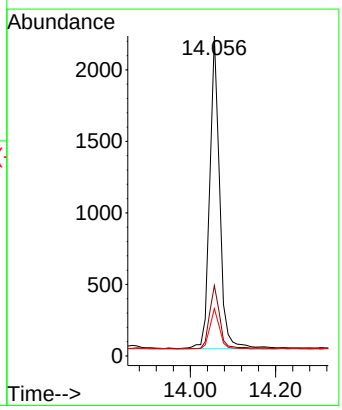


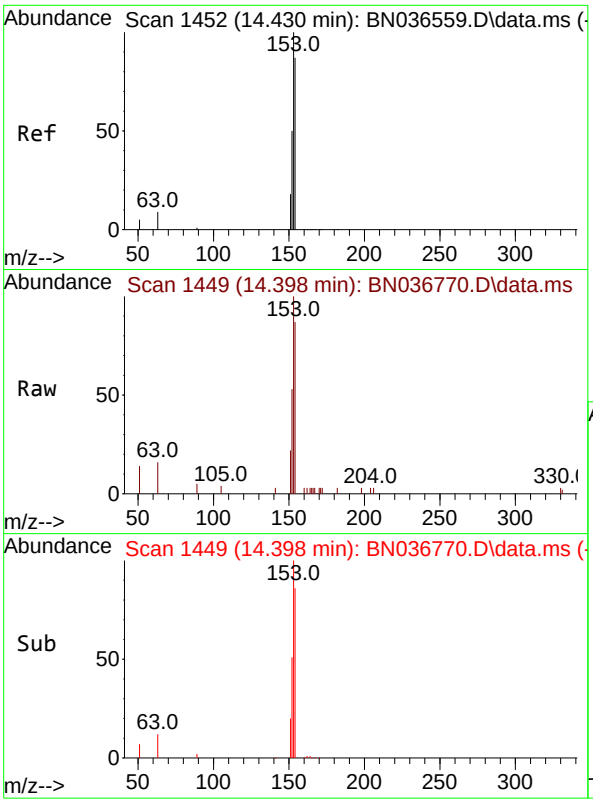




#16
Acenaphthylene
Concen: 0.348 ng
RT: 14.056 min Scan# 1417
Delta R.T. -0.021 min
Lab File: BN036770.D
Acq: 28 Mar 2025 13:22

Tgt Ion:152 Resp: 3550

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.1 | 16.2 | 24.4 |
| 153 | 12.8 | 10.6 | 15.8 |



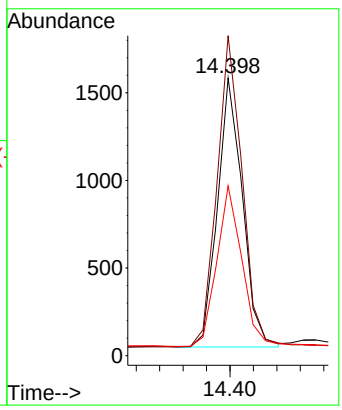


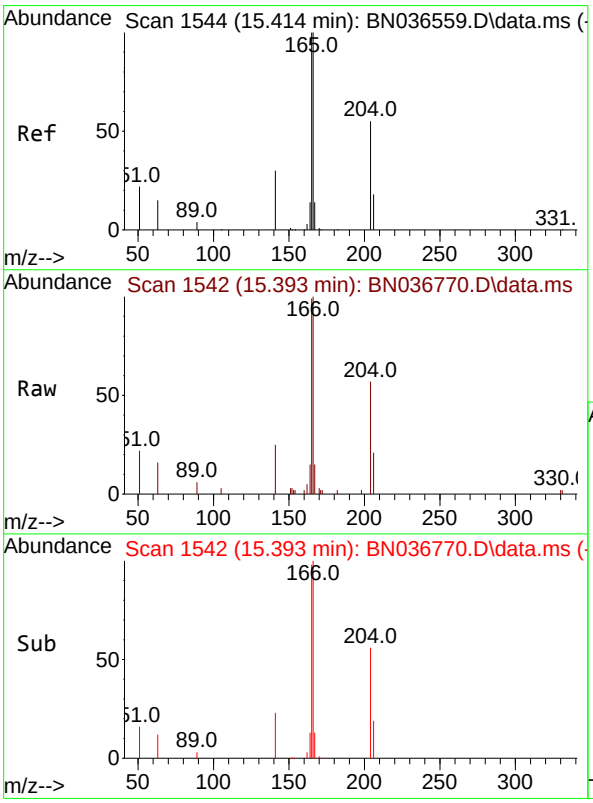

#17
Acenaphthene
Concen: 0.340 ng
RT: 14.398 min Scan# 14
Delta R.T. -0.032 min
Lab File: BN036770.D
Acq: 28 Mar 2025 13:22

**Instrument :**
BNA_N
**ClientSampleId :**
TT188S1-20250320MSD

Tgt Ion:154 Resp: 2270

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 117.7 | 94.1 | 141.1 |
| 152 | 61.1 | 49.8 | 74.6 |

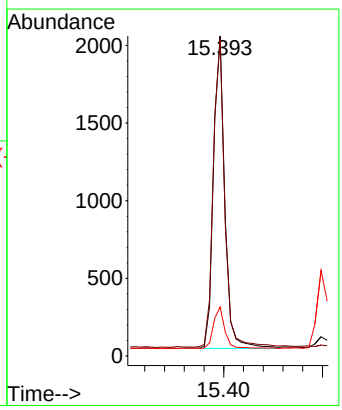


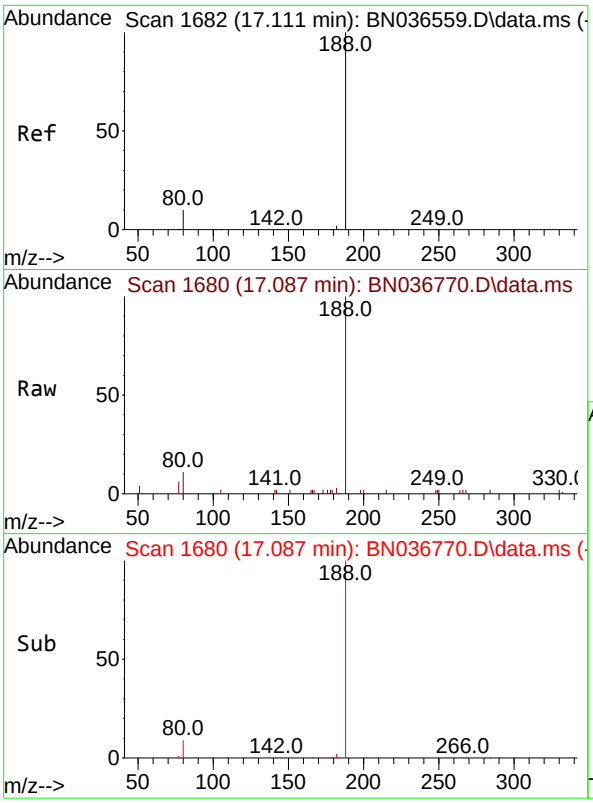




#18
Fluorene
Concen: 0.356 ng
RT: 15.393 min Scan# 1542
Delta R.T. -0.021 min
Lab File: BN036770.D
Acq: 28 Mar 2025 13:22

Tgt Ion:166 Resp: 3209

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 101.0 | 79.8 | 119.8 |
| 167 | 13.3 | 10.6 | 15.8 |



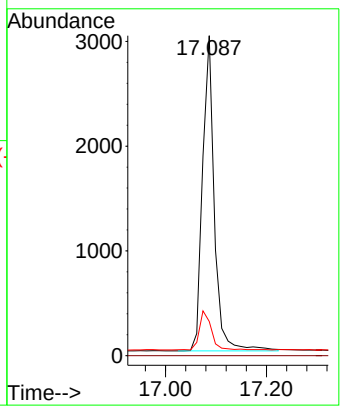


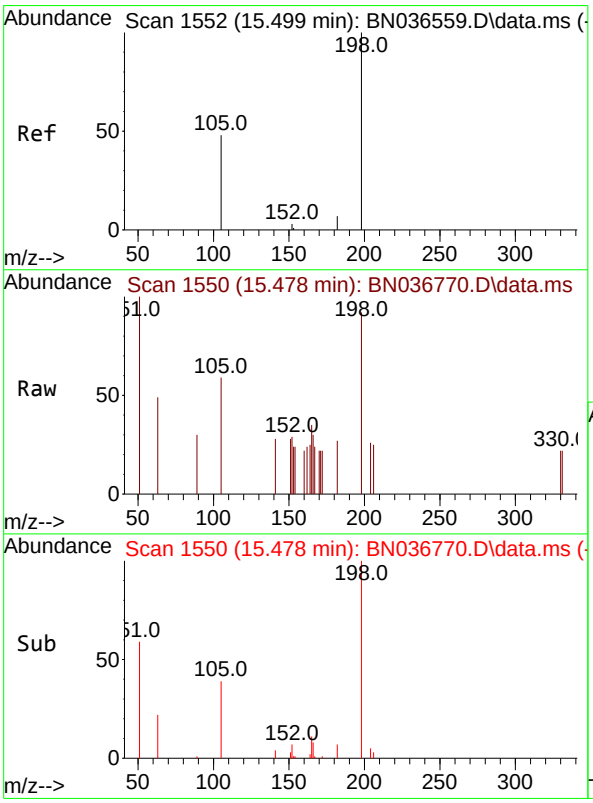

#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.087 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036770.D
Acq: 28 Mar 2025 13:22

**Instrument :**
BNA_N
**ClientSampleId :**
TT188S1-20250320MSD

Tgt Ion:188 Resp: 4889

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 10.7 | 8.8 | 13.2 |

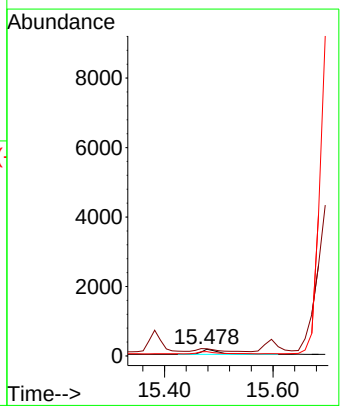


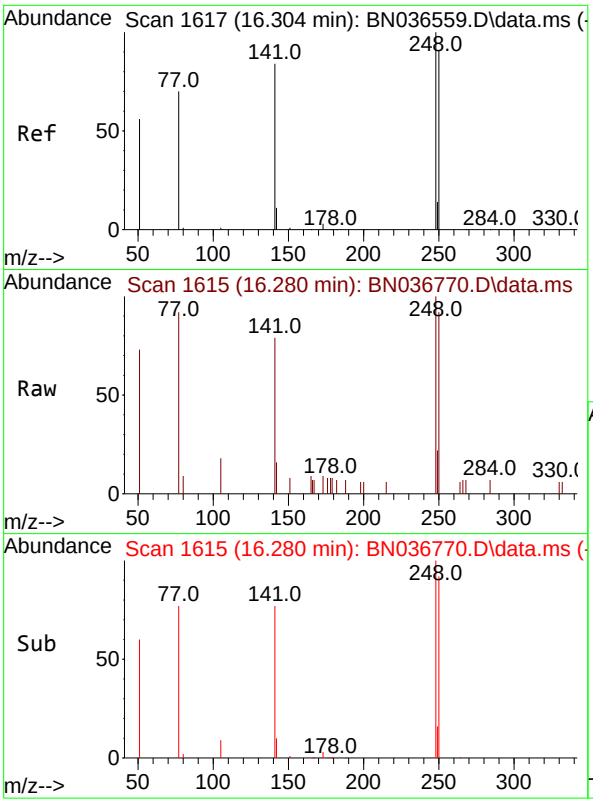




#20
4,6-Dinitro-2-methylphenol
Concen: 0.425 ng
RT: 15.478 min Scan# 1550
Delta R.T. -0.021 min
Lab File: BN036770.D
Acq: 28 Mar 2025 13:22

Tgt Ion:198 Resp: 349

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 198 | 100 | | |
| 51 | 108.3 | 107.9 | 161.9 |
| 105 | 64.2 | 56.2 | 84.2 |



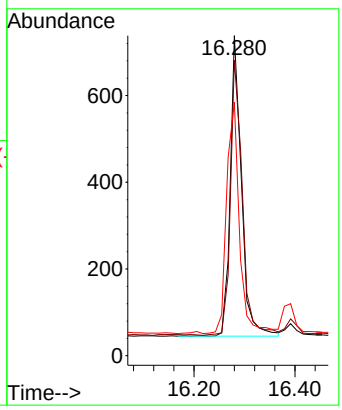


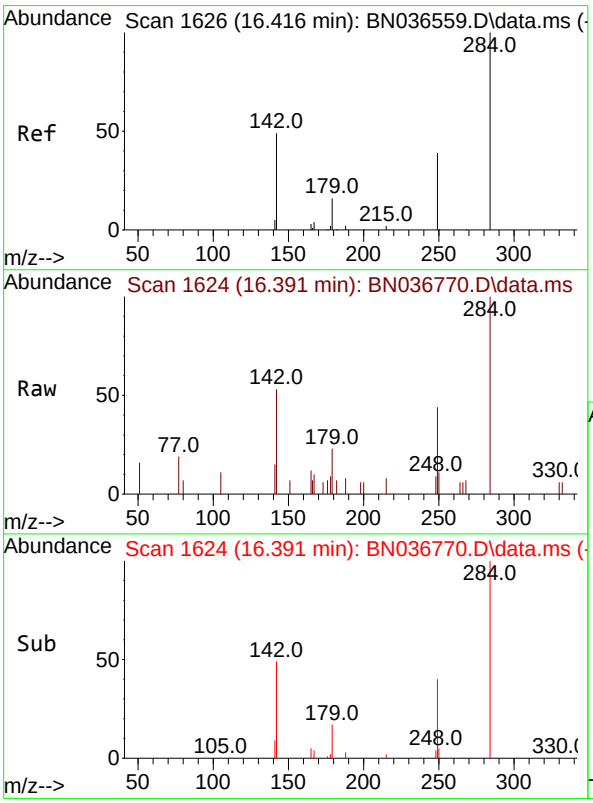

#21
4-Bromophenyl-phenylether
Concen: 0.352 ng
RT: 16.280 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036770.D
Acq: 28 Mar 2025 13:22

**Instrument :**
BNA_N
**ClientSampleId :**
TT188S1-20250320MSD

Tgt Ion:248 Resp: 1077

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 92.4 | 73.0 | 109.6 |
| 141 | 79.1 | 68.6 | 103.0 |

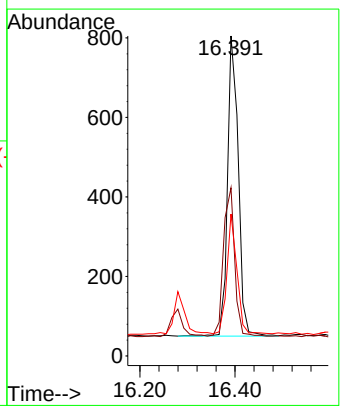


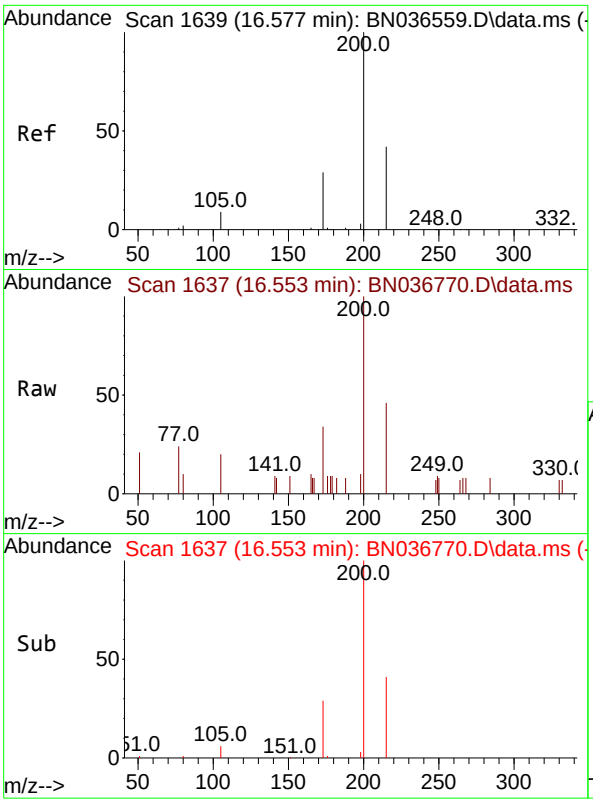




#22
Hexachlorobenzene
Concen: 0.319 ng
RT: 16.391 min Scan# 1624
Delta R.T. -0.025 min
Lab File: BN036770.D
Acq: 28 Mar 2025 13:22

Tgt Ion:284 Resp: 1179

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 51.3 | 37.0 | 55.4 |
| 249 | 37.1 | 28.1 | 42.1 |



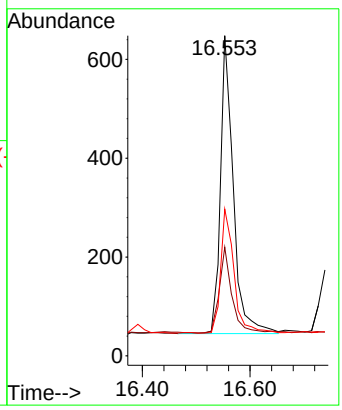


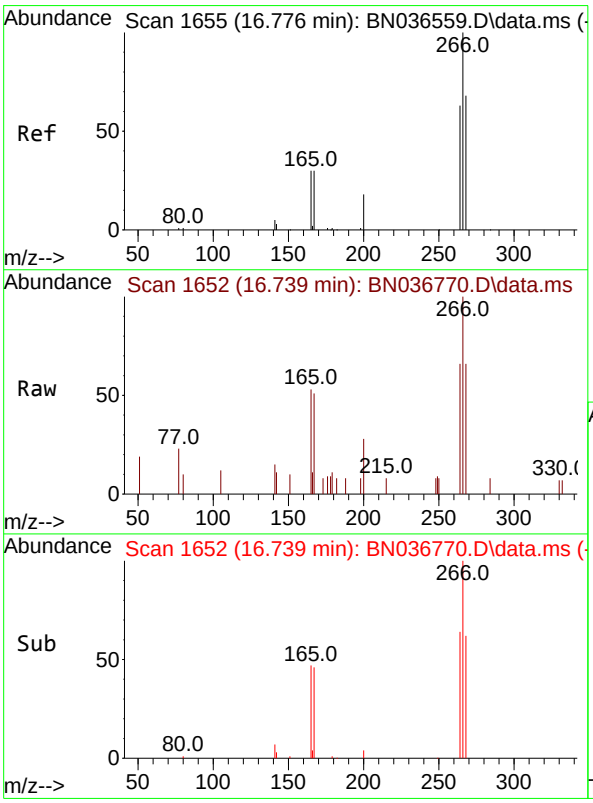

#23
Atrazine
Concen: 0.408 ng
RT: 16.553 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036770.D
Acq: 28 Mar 2025 13:22

**Instrument :**
BNA_N
**ClientSampleId :**
TT188S1-20250320MSD

Tgt Ion:200 Resp: 1002

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 173 | 34.0 | 27.3 | 40.9 |
| 215 | 45.8 | 36.8 | 55.2 |

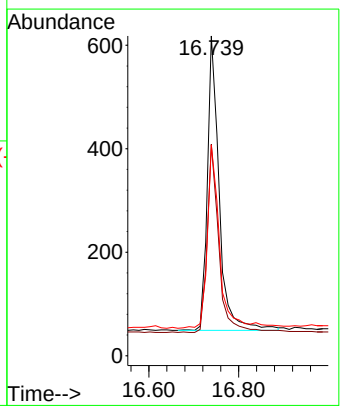


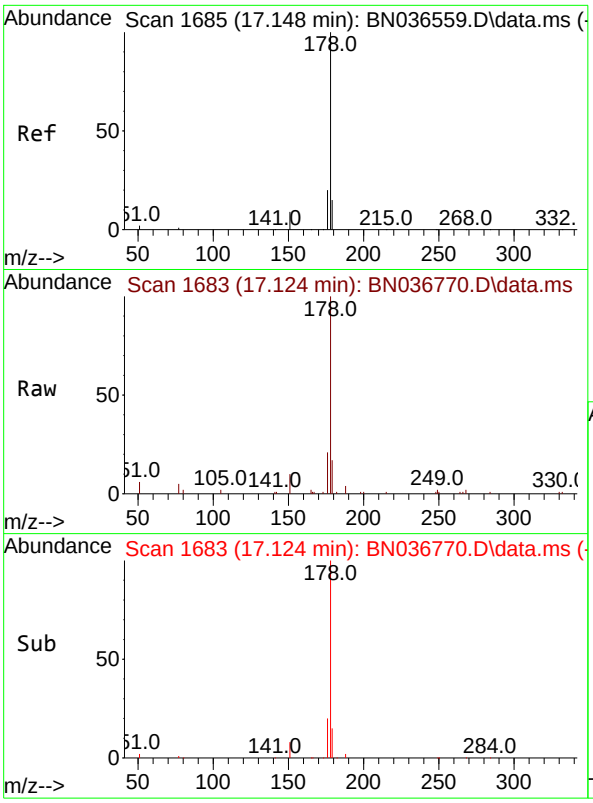




#24
Pentachlorophenol
Concen: 0.614 ng
RT: 16.739 min Scan# 1652
Delta R.T. -0.037 min
Lab File: BN036770.D
Acq: 28 Mar 2025 13:22

Tgt Ion:266 Resp: 1036

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 264 | 63.3 | 49.6 | 74.4 |
| 268 | 65.4 | 50.9 | 76.3 |



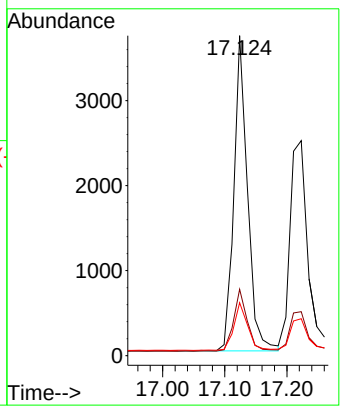


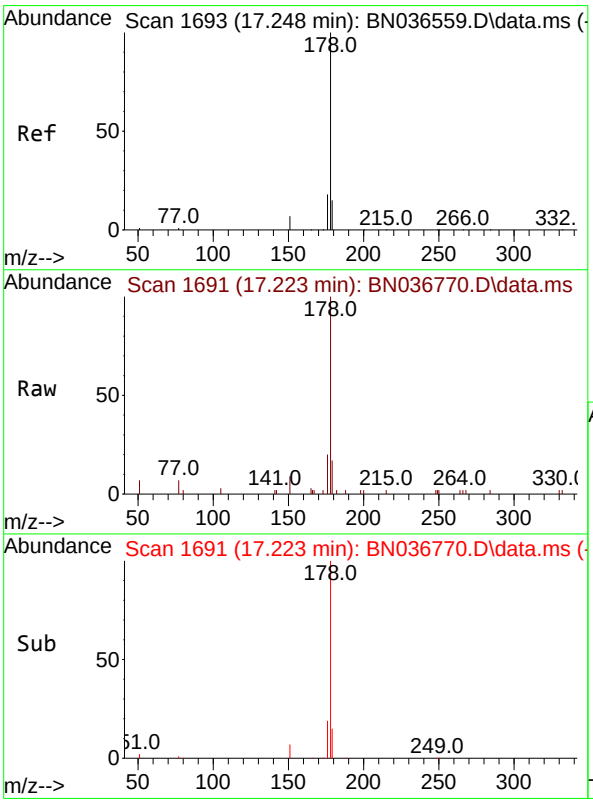

#25
Phenanthrene
Concen: 0.386 ng
RT: 17.124 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036770.D
Acq: 28 Mar 2025 13:22

**Instrument :**
BNA_N
**ClientSampleId :**
TT188S1-20250320MSD

Tgt Ion:178 Resp: 5668

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.7 | 15.9 | 23.9 |
| 179 | 15.4 | 12.2 | 18.4 |

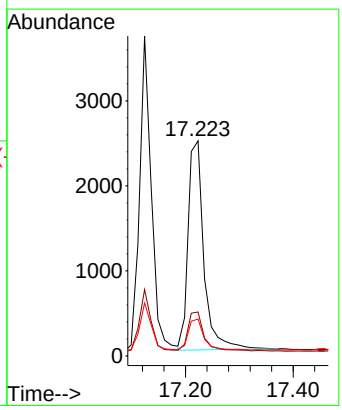


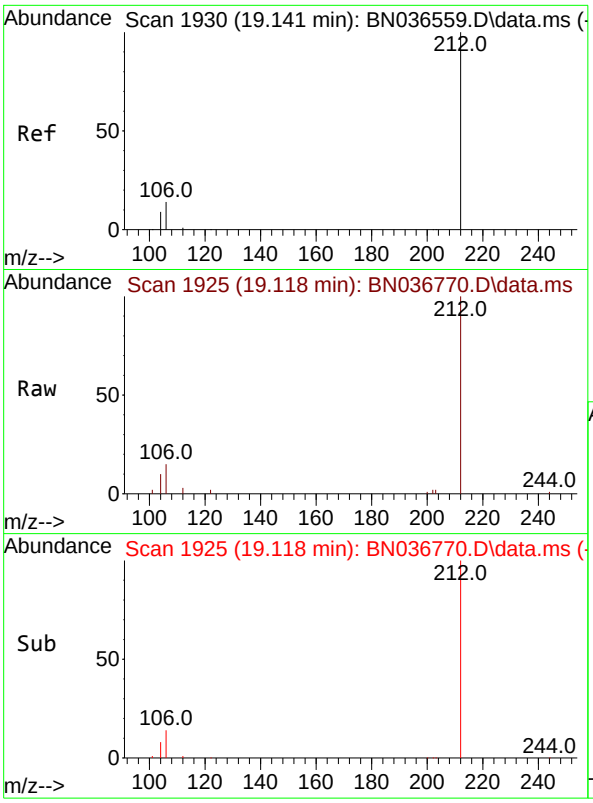




#26
Anthracene
Concen: 0.378 ng
RT: 17.223 min Scan# 1691
Delta R.T. -0.025 min
Lab File: BN036770.D
Acq: 28 Mar 2025 13:22

Tgt Ion:178 Resp: 5004

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.4 | 15.4 | 23.2 |
| 179 | 15.0 | 12.6 | 18.8 |



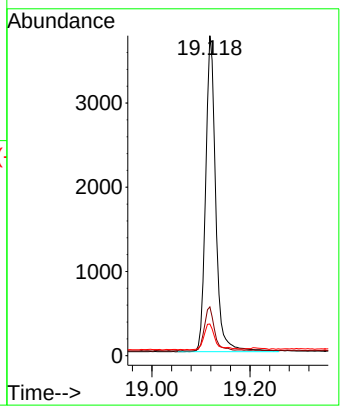


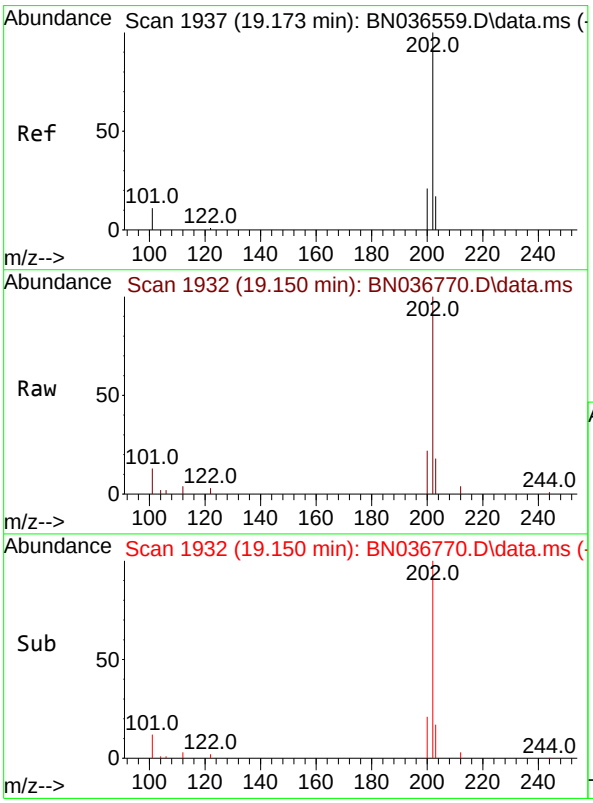

#27
Fluoranthene-d10
Concen: 0.427 ng
RT: 19.118 min Scan# 1
Delta R.T. -0.023 min
Lab File: BN036770.D
Acq: 28 Mar 2025 13:22

**Instrument :**
BNA_N
**ClientSampleId :**
TT188S1-20250320MSD

Tgt Ion:212 Resp: 5348

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 14.1 | 11.8 | 17.6 |
| 104 | 9.1 | 7.3 | 10.9 |

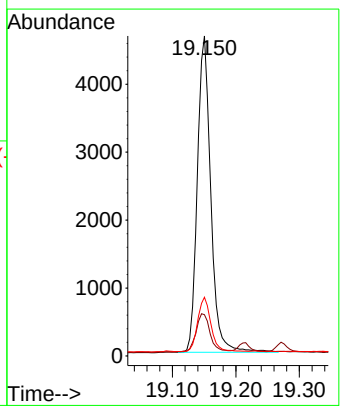


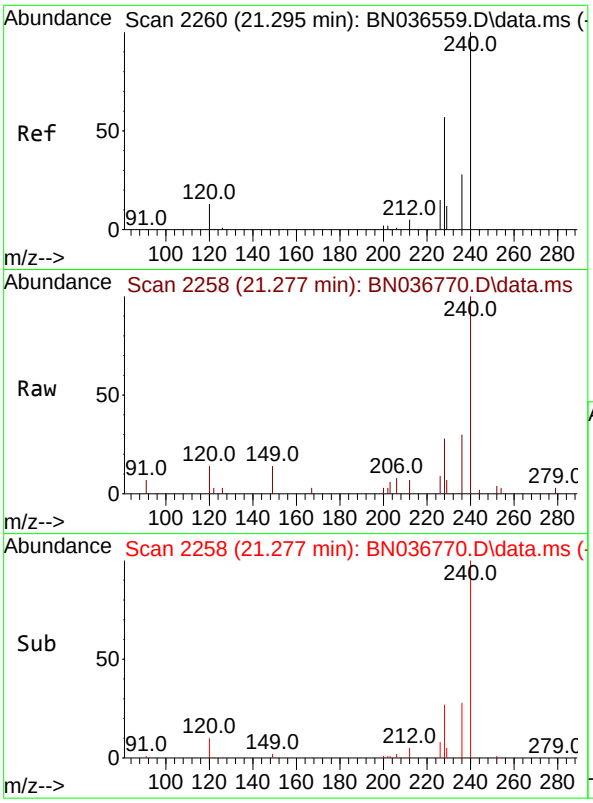




#28
Fluoranthene
Concen: 0.417 ng
RT: 19.150 min Scan# 1932
Delta R.T. -0.023 min
Lab File: BN036770.D
Acq: 28 Mar 2025 13:22

Tgt Ion:202 Resp: 6870

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 12.8 | 9.4 | 14.0 |
| 203 | 17.0 | 13.5 | 20.3 |



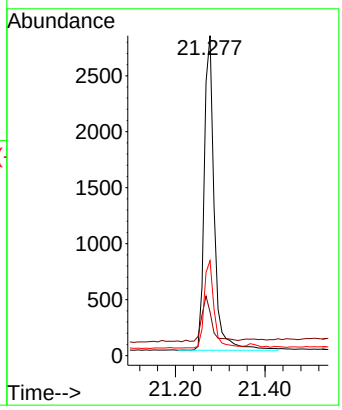


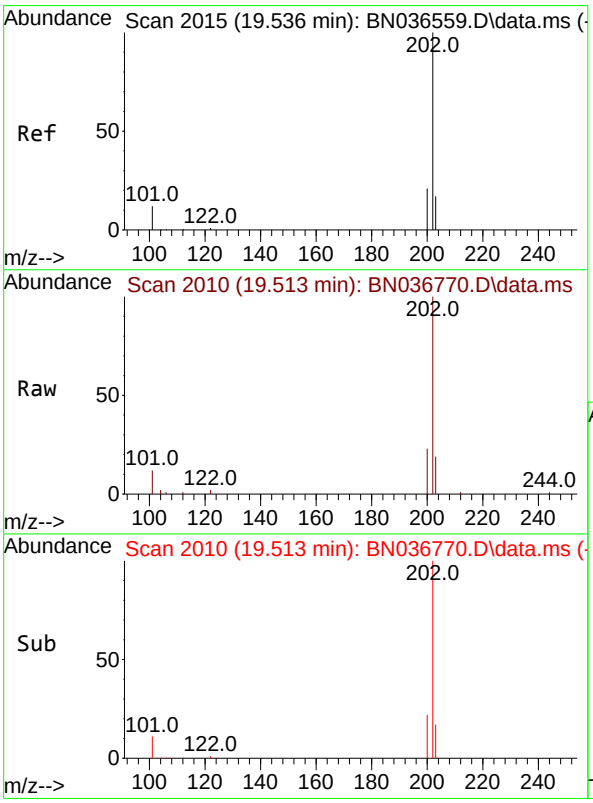

#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036770.D
Acq: 28 Mar 2025 13:22

**Instrument :**
BNA_N
**ClientSampleId :**
TT188S1-20250320MSD

Tgt Ion:240 Resp: 4383

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 13.6 | 14.6 | 22.0# |
| 236 | 29.7 | 24.1 | 36.1 |

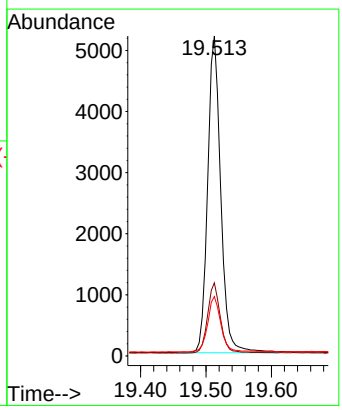


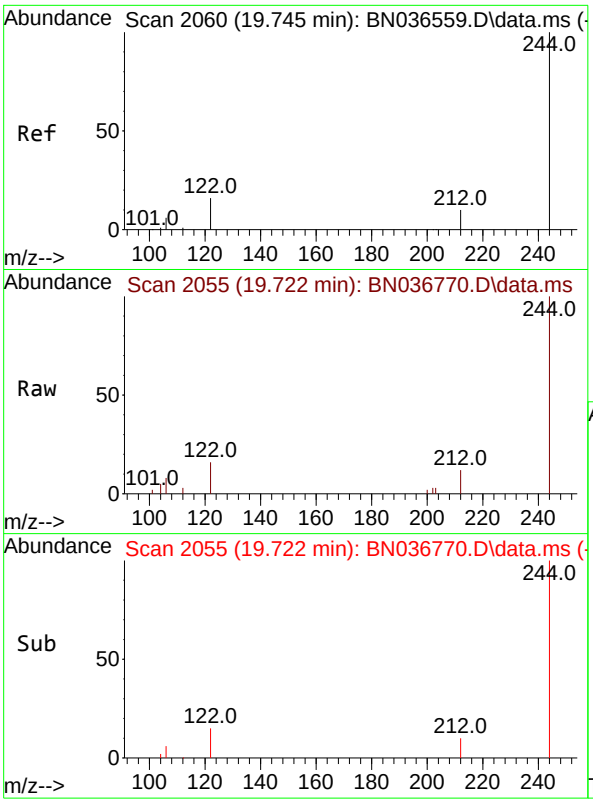




#30
Pyrene
Concen: 0.336 ng
RT: 19.513 min Scan# 2010
Delta R.T. -0.023 min
Lab File: BN036770.D
Acq: 28 Mar 2025 13:22

Tgt Ion:202 Resp: 7205

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.8 | 17.1 | 25.7 |
| 203 | 17.6 | 14.1 | 21.1 |



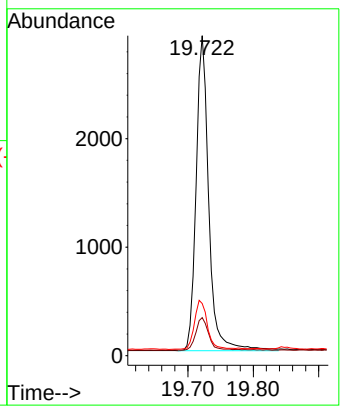


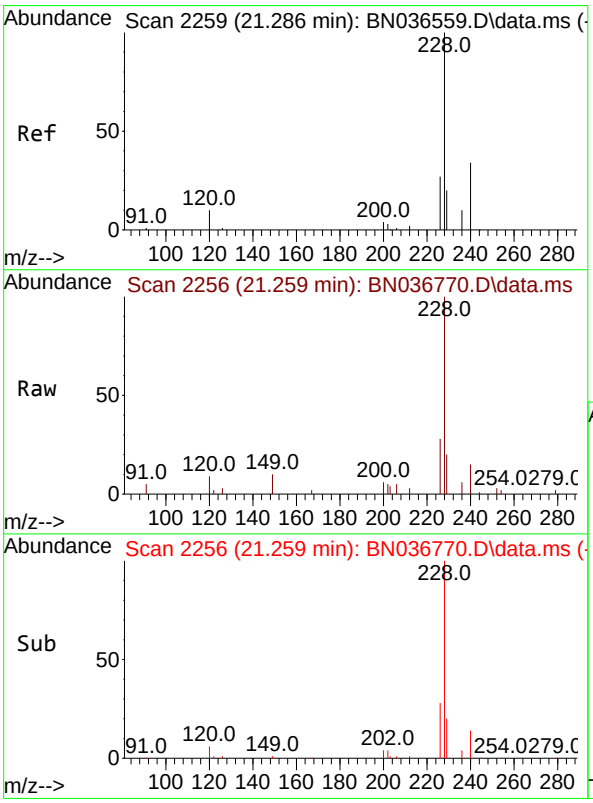

#31
Terphenyl-d14
Concen: 0.372 ng
RT: 19.722 min Scan# 2
Delta R.T. -0.023 min
Lab File: BN036770.D
Acq: 28 Mar 2025 13:22

**Instrument :**
BNA_N
**ClientSampleId :**
TT188S1-20250320MSD

Tgt Ion:244 Resp: 3904

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 11.9 | 9.6 | 14.4 |
| 122 | 16.3 | 13.9 | 20.9 |

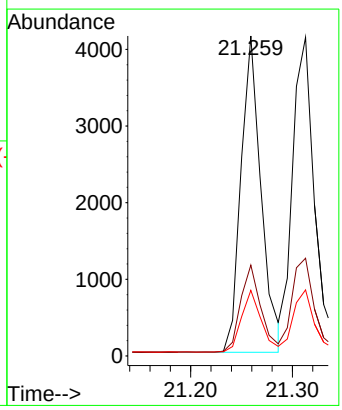


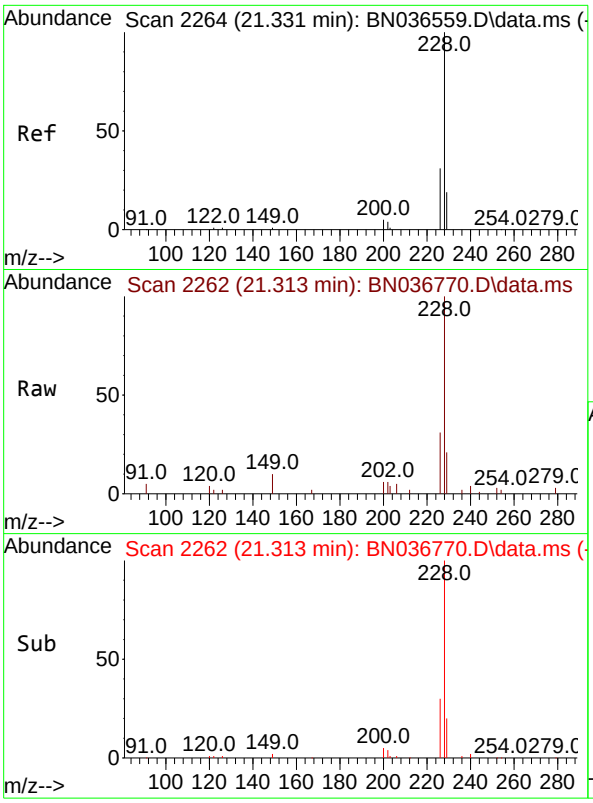




#32
Benzo(a)anthracene
Concen: 0.372 ng
RT: 21.259 min Scan# 2256
Delta R.T. -0.027 min
Lab File: BN036770.D
Acq: 28 Mar 2025 13:22

Tgt Ion:228 Resp: 5677

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 28.4 | 22.5 | 33.7 |
| 229 | 20.5 | 16.6 | 25.0 |



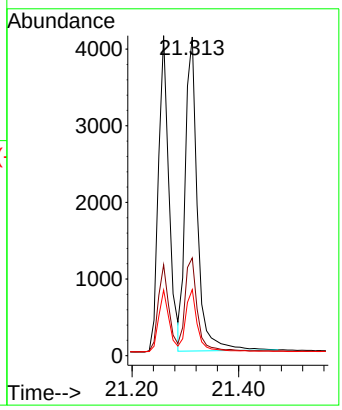


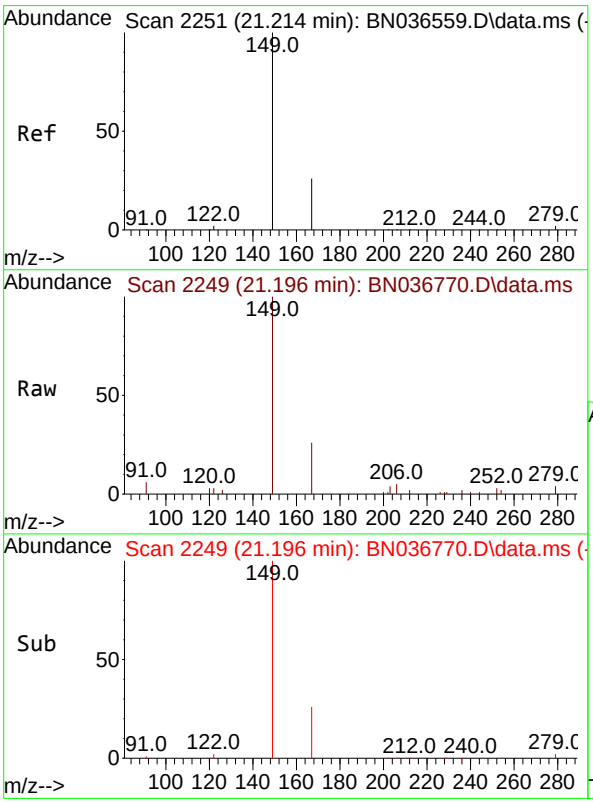

#33
Chrysene
Concen: 0.388 ng
RT: 21.313 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036770.D
Acq: 28 Mar 2025 13:22

**Instrument :**
BNA_N
**ClientSampleId :**
TT188S1-20250320MSD

Tgt Ion:228 Resp: 6461

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 30.7 | 25.3 | 37.9 |
| 229 | 20.7 | 15.8 | 23.8 |

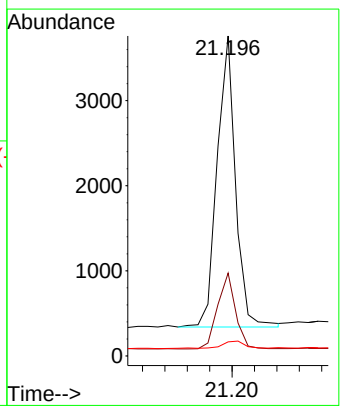


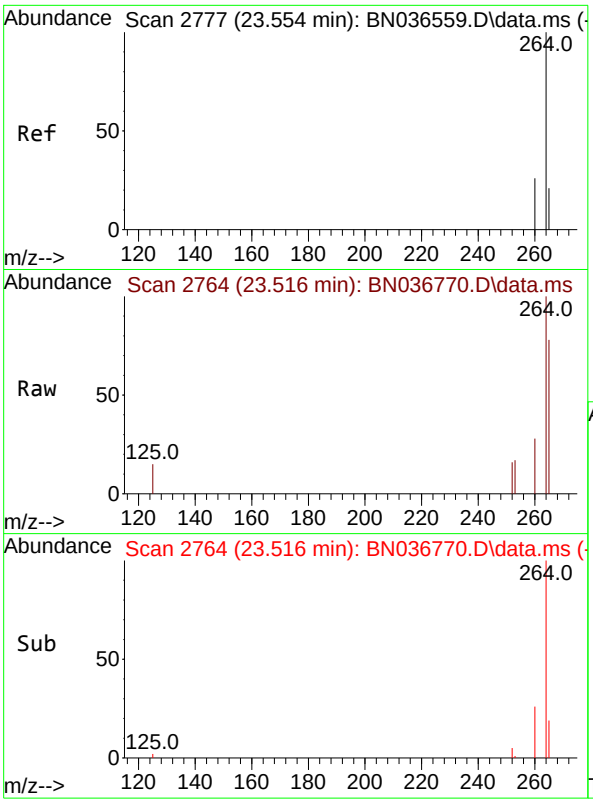




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.359 ng
RT: 21.196 min Scan# 2249
Delta R.T. -0.018 min
Lab File: BN036770.D
Acq: 28 Mar 2025 13:22

Tgt Ion:149 Resp: 3896

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 25.6 | 20.7 | 31.1 |
| 279 | 3.0 | 3.6 | 5.4# |



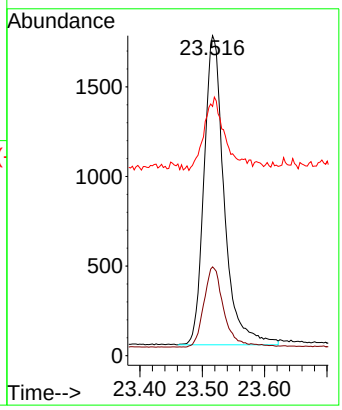


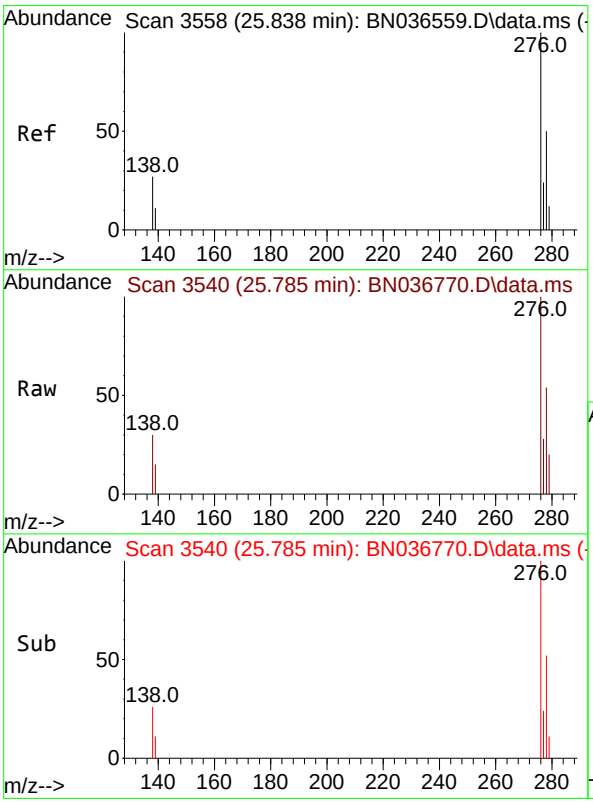

#35
Perylene-d12
Concen: 0.400 ng
RT: 23.516 min Scan# 2
Delta R.T. -0.038 min
Lab File: BN036770.D
Acq: 28 Mar 2025 13:22

**Instrument :**
BNA_N
**ClientSampleId :**
TT188S1-20250320MSD

Tgt Ion:264 Resp: 3881

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 27.7 | 22.6 | 33.8 |
| 265 | 77.9 | 88.1 | 132.1# |

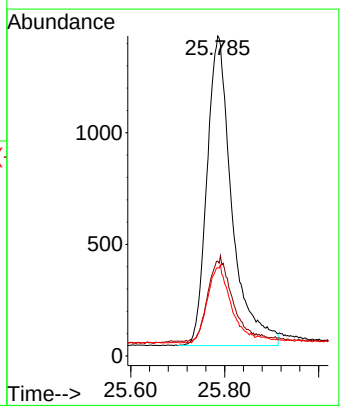


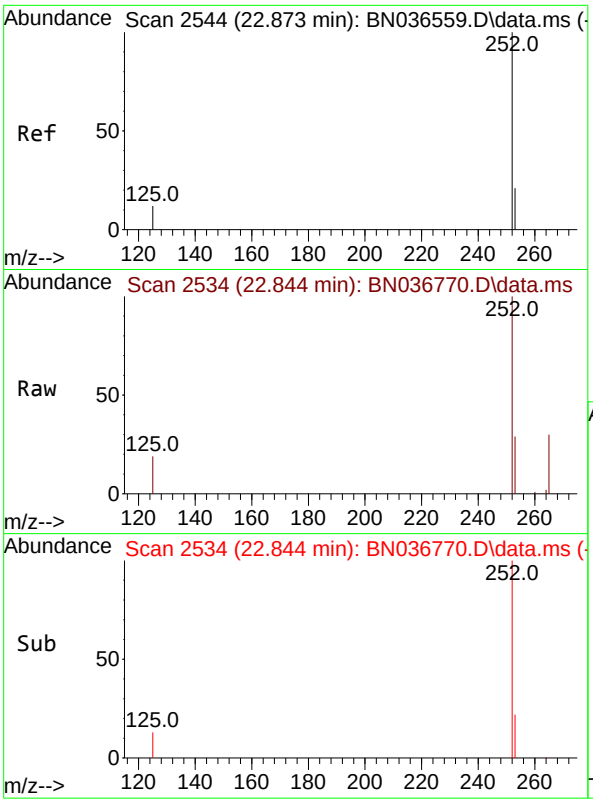




#36
Indeno(1,2,3-cd)pyrene
Concen: 0.364 ng
RT: 25.785 min Scan# 3540
Delta R.T. -0.052 min
Lab File: BN036770.D
Acq: 28 Mar 2025 13:22

Tgt Ion:276 Resp: 5098

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 26.9 | 23.4 | 35.2 |
| 277 | 23.4 | 20.0 | 30.0 |



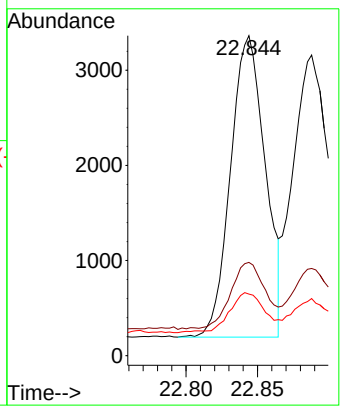


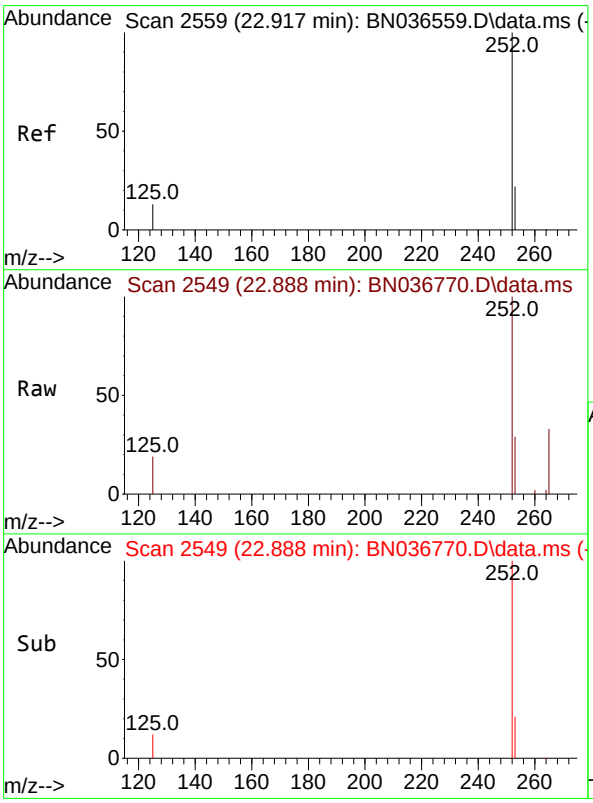

#37
Benzo(b)fluoranthene
Concen: 0.380 ng
RT: 22.844 min Scan# 2
Delta R.T. -0.029 min
Lab File: BN036770.D
Acq: 28 Mar 2025 13:22

**Instrument :**
BNA_N
**ClientSampleId :**
TT188S1-20250320MSD

Tgt Ion:252 Resp: 5361

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 29.1 | 23.9 | 35.9 |
| 125 | 19.3 | 17.4 | 26.2 |

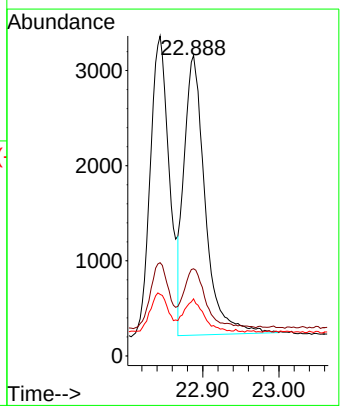


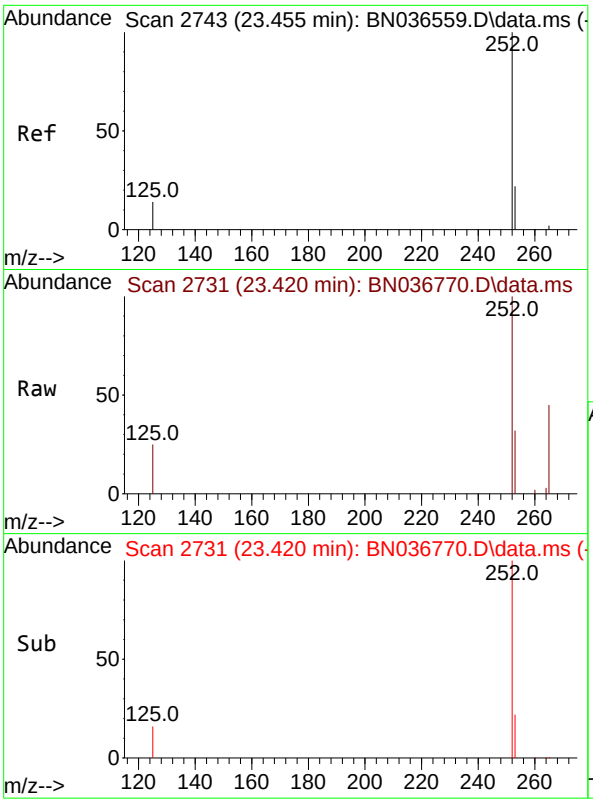




#38
Benzo(k)fluoranthene
Concen: 0.382 ng
RT: 22.888 min Scan# 2549
Delta R.T. -0.029 min
Lab File: BN036770.D
Acq: 28 Mar 2025 13:22

Tgt Ion:252 Resp: 5659

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 29.0 | 24.6 | 36.8 |
| 125 | 19.0 | 17.8 | 26.8 |



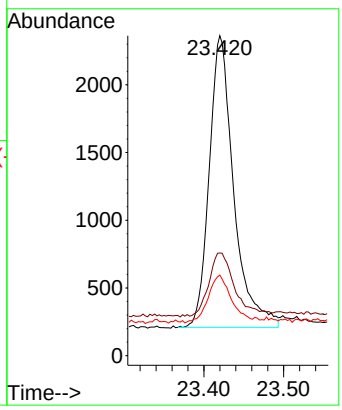


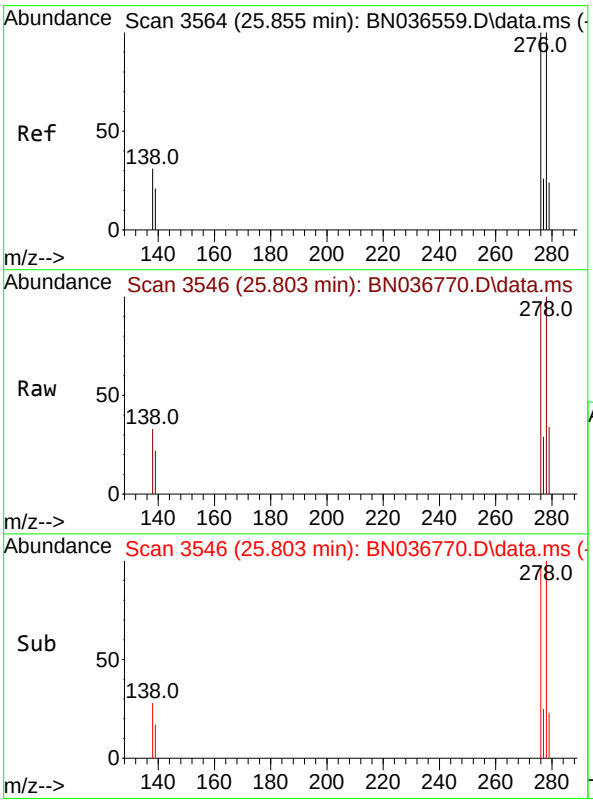

#39
Benzo(a)pyrene
Concen: 0.387 ng
RT: 23.420 min Scan# 2
Delta R.T. -0.035 min
Lab File: BN036770.D
Acq: 28 Mar 2025 13:22

**Instrument :**
BNA_N
**ClientSampleId :**
TT188S1-20250320MSD

Tgt Ion:252 Resp: 4598

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 32.1 | 27.8 | 41.8 |
| 125 | 25.2 | 22.7 | 34.1 |

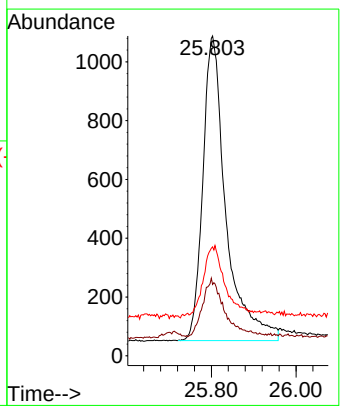


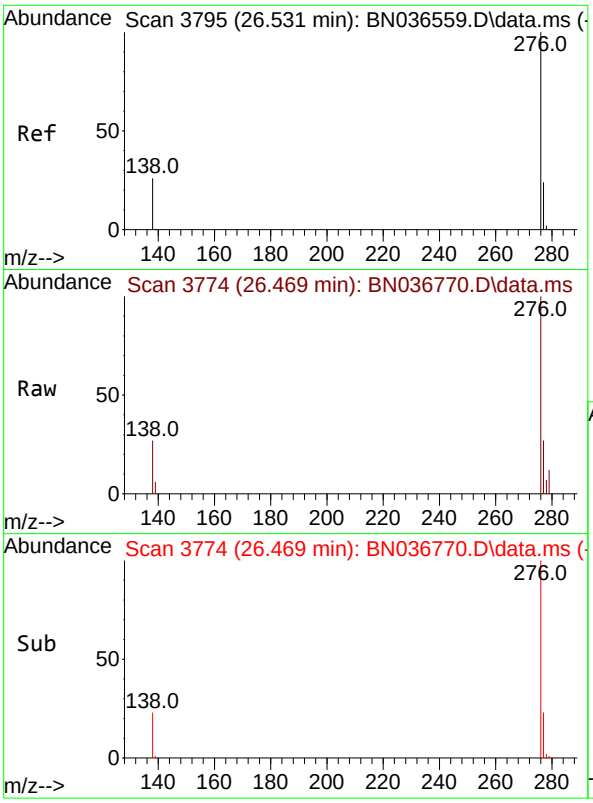




#40
Dibenzo(a,h)anthracene
Concen: 0.360 ng
RT: 25.803 min Scan# 3546
Delta R.T. -0.052 min
Lab File: BN036770.D
Acq: 28 Mar 2025 13:22

Tgt Ion:278 Resp: 3921

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 22.3 | 20.8 | 31.2 |
| 279 | 34.1 | 28.8 | 43.2 |



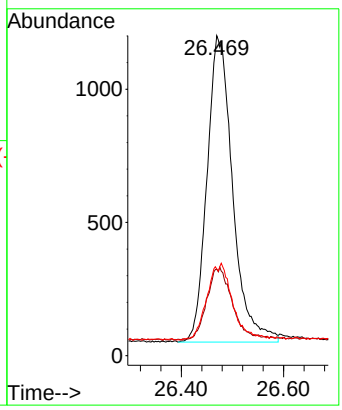



#41
Benzo(g,h,i)perylene
Concen: 0.320 ng
RT: 26.469 min Scan# 3
Delta R.T. -0.061 min
Lab File: BN036770.D
Acq: 28 Mar 2025 13:22

**Instrument :**
BNA_N
**ClientSampleId :**
TT188S1-20250320MSD

Tgt Ion:276 Resp: 3995

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 27.1 | 22.2 | 33.4 |
| 138 | 27.1 | 24.1 | 36.1 |



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036771.D
Acq On : 28 Mar 2025 13:58
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Quant Time: Mar 28 14:23:03 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

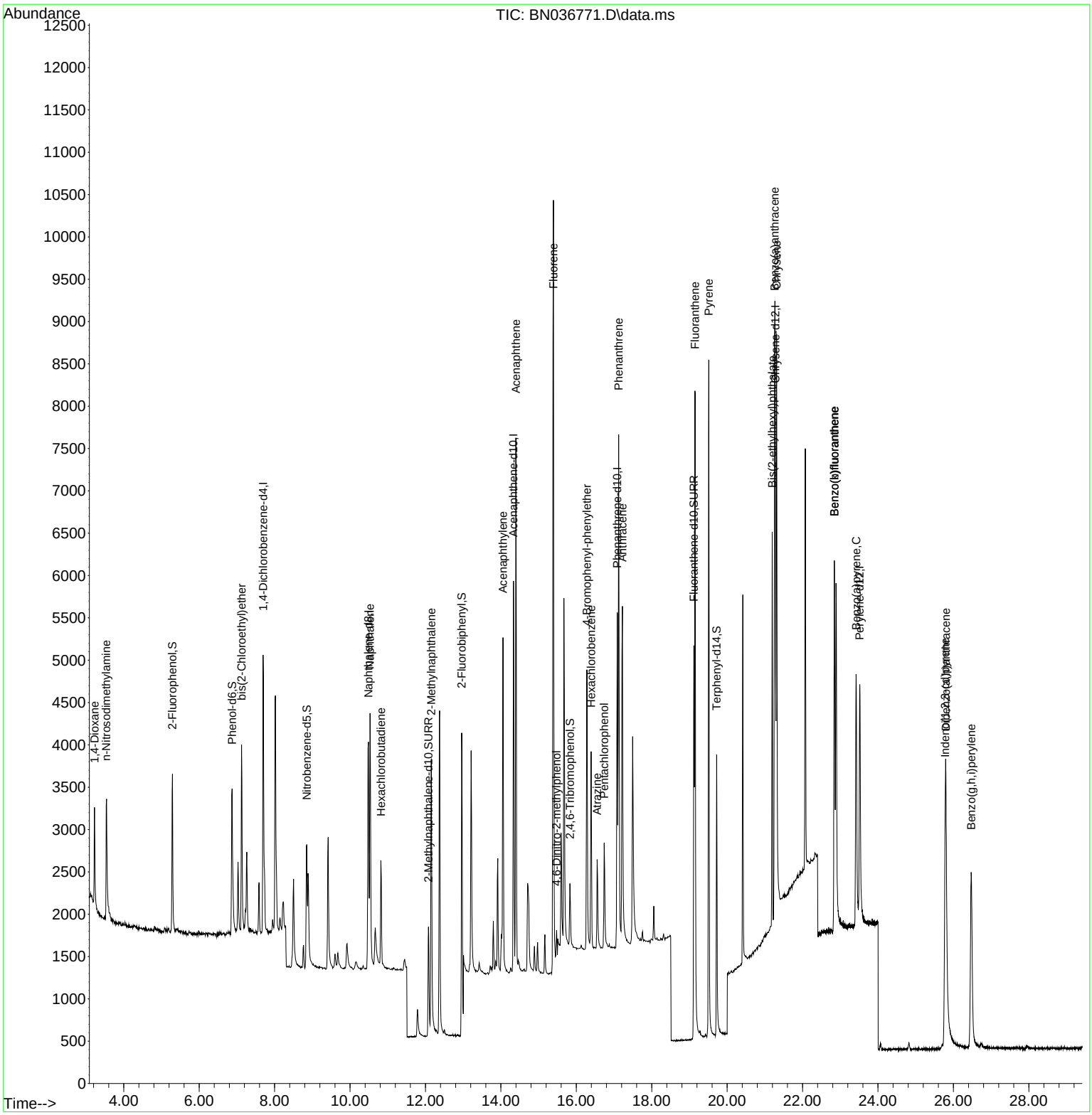
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.695 | 152 | 1636 | 0.400 | ng | | -0.03 |
| 7) Naphthalene-d8 | 10.487 | 136 | 4177 | 0.400 | ng | | #-0.02 |
| 13) Acenaphthene-d10 | 14.334 | 164 | 2615 | 0.400 | ng | | -0.03 |
| 19) Phenanthrene-d10 | 17.086 | 188 | 5571 | 0.400 | ng | | -0.02 |
| 29) Chrysene-d12 | 21.277 | 240 | 4555 | 0.400 | ng | | #-0.02 |
| 35) Perylene-d12 | 23.516 | 264 | 4167 | 0.400 | ng | | #-0.04 |
| System Monitoring Compounds | | | | | | | |
| 4) 2-Fluorophenol | 5.290 | 112 | 1384 | 0.363 | ng | | -0.02 |
| 5) Phenol-d6 | 6.872 | 99 | 1653 | 0.351 | ng | | -0.03 |
| 8) Nitrobenzene-d5 | 8.854 | 82 | 1480 | 0.326 | ng | | -0.02 |
| 11) 2-Methylnaphthalene-d10 | 12.080 | 152 | 2256 | 0.363 | ng | | -0.03 |
| 14) 2,4,6-Tribromophenol | 15.833 | 330 | 464 | 0.391 | ng | | -0.02 |
| 15) 2-Fluorobiphenyl | 12.963 | 172 | 5285 | 0.347 | ng | | -0.03 |
| 27) Fluoranthene-d10 | 19.118 | 212 | 5637 | 0.395 | ng | | -0.02 |
| 31) Terphenyl-d14 | 19.722 | 244 | 3716 | 0.341 | ng | | -0.02 |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.225 | 88 | 752 | 0.414 | ng | | 97 |
| 3) n-Nitrosodimethylamine | 3.535 | 42 | 1423 | 0.388 | ng | | 97 |
| 6) bis(2-Chloroethyl)ether | 7.125 | 93 | 1671 | 0.343 | ng | | 98 |
| 9) Naphthalene | 10.530 | 128 | 4359 | 0.355 | ng | | 98 |
| 10) Hexachlorobutadiene | 10.818 | 225 | 1044 | 0.361 | ng | # | 99 |
| 12) 2-Methylnaphthalene | 12.156 | 142 | 2874 | 0.368 | ng | | 98 |
| 16) Acenaphthylene | 14.056 | 152 | 4358 | 0.353 | ng | | 99 |
| 17) Acenaphthene | 14.398 | 154 | 2946 | 0.365 | ng | | 100 |
| 18) Fluorene | 15.393 | 166 | 4111 | 0.376 | ng | | 98 |
| 20) 4,6-Dinitro-2-methylph... | 15.478 | 198 | 428 | 0.446 | ng | | 87 |
| 21) 4-Bromophenyl-phenylether | 16.280 | 248 | 1300 | 0.372 | ng | | 96 |
| 22) Hexachlorobenzene | 16.391 | 284 | 1537 | 0.365 | ng | | 96 |
| 23) Atrazine | 16.553 | 200 | 1063 | 0.380 | ng | | 97 |
| 24) Pentachlorophenol | 16.739 | 266 | 702 | 0.365 | ng | | 95 |
| 25) Phenanthrene | 17.124 | 178 | 6367 | 0.381 | ng | | 99 |
| 26) Anthracene | 17.223 | 178 | 5569 | 0.369 | ng | | 100 |
| 28) Fluoranthene | 19.150 | 202 | 7617 | 0.406 | ng | | 99 |
| 30) Pyrene | 19.513 | 202 | 7795 | 0.350 | ng | | 99 |
| 32) Benzo(a)anthracene | 21.259 | 228 | 5566 | 0.351 | ng | | 99 |
| 33) Chrysene | 21.313 | 228 | 6726 | 0.389 | ng | | 99 |
| 34) Bis(2-ethylhexyl)phtha... | 21.196 | 149 | 3968 | 0.352 | ng | # | 99 |
| 36) Indeno(1,2,3-cd)pyrene | 25.782 | 276 | 5233 | 0.348 | ng | | 96 |
| 37) Benzo(b)fluoranthene | 22.844 | 252 | 5720 | 0.377 | ng | | 97 |
| 38) Benzo(k)fluoranthene | 22.844 | 252 | 5720 | 0.360 | ng | | 96 |
| 39) Benzo(a)pyrene | 23.420 | 252 | 4867 | 0.381 | ng | | 96 |
| 40) Dibenzo(a,h)anthracene | 25.800 | 278 | 3914 | 0.334 | ng | | 96 |
| 41) Benzo(g,h,i)perylene | 26.475 | 276 | 4758 | 0.355 | ng | | 95 |

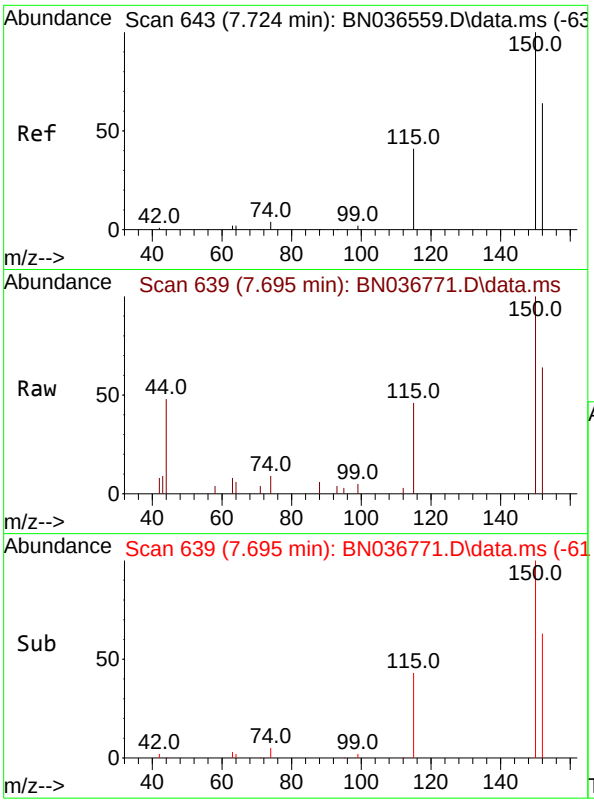
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036771.D
Acq On : 28 Mar 2025 13:58
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Quant Time: Mar 28 14:23:03 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration



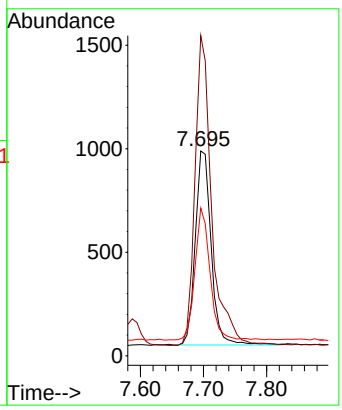


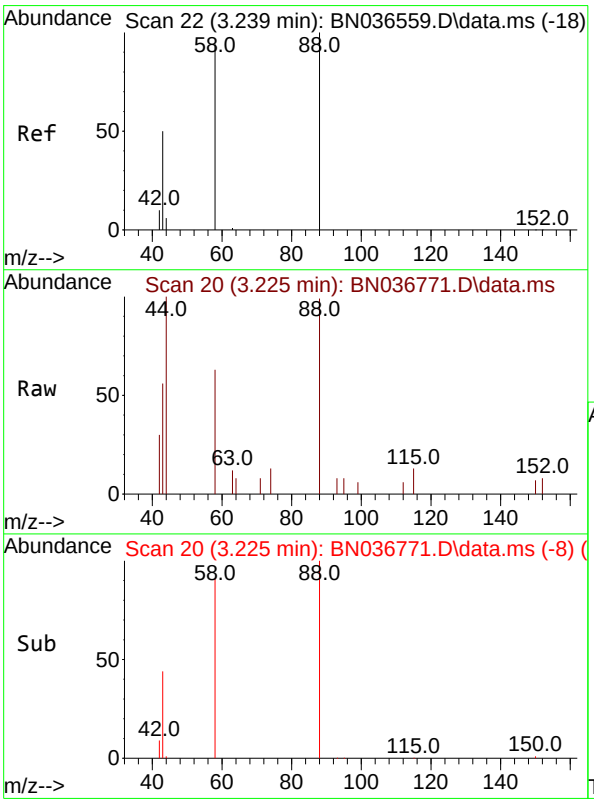

#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.695 min Scan# 6
Delta R.T. -0.029 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:152 Resp: 1636

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 156.3 | 123.7 | 185.5 |
| 115 | 72.2 | 54.3 | 81.5 |

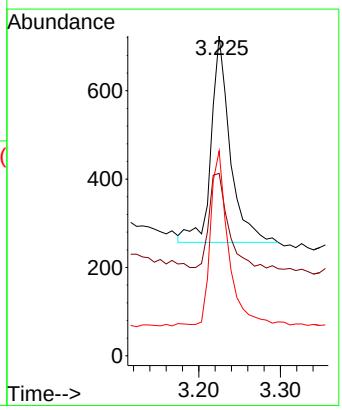


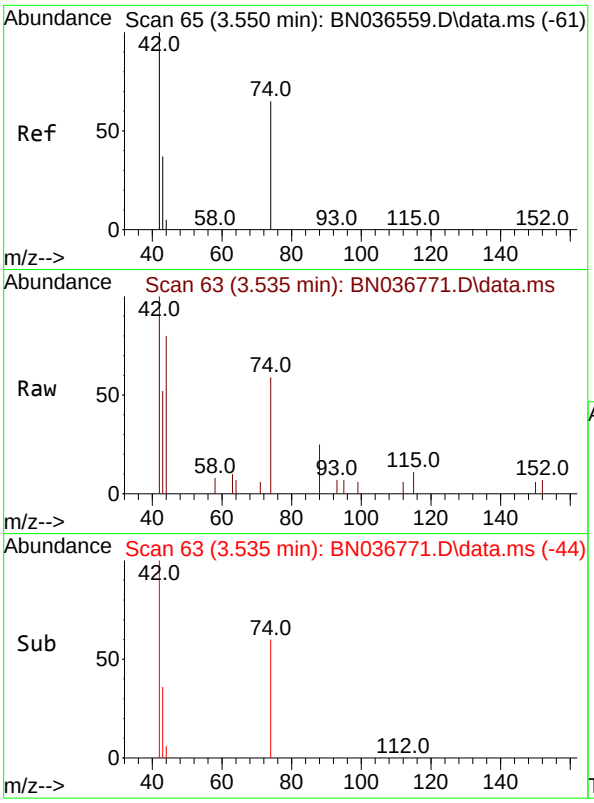




#2
1,4-Dioxane
Concen: 0.414 ng
RT: 3.225 min Scan# 20
Delta R.T. -0.014 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion: 88 Resp: 752

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 47.5 | 37.8 | 56.8 |
| 58 | 80.9 | 67.4 | 101.2 |



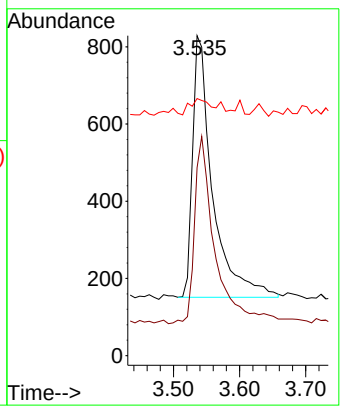


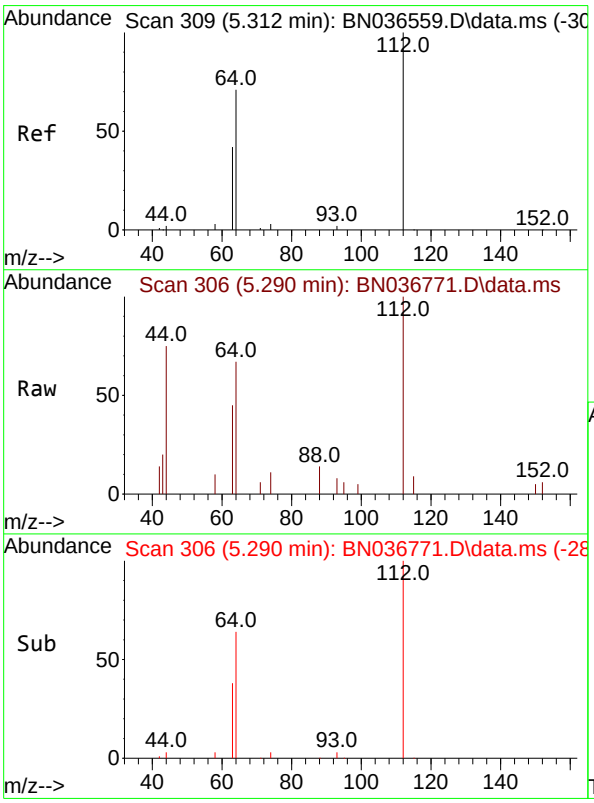

#3
n-Nitrosodimethylamine
Concen: 0.388 ng
RT: 3.535 min Scan# 6
Delta R.T. -0.014 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion: 42 Resp: 1423

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 72.9 | 60.6 | 90.8 |
| 44 | 6.7 | 6.3 | 9.5 |

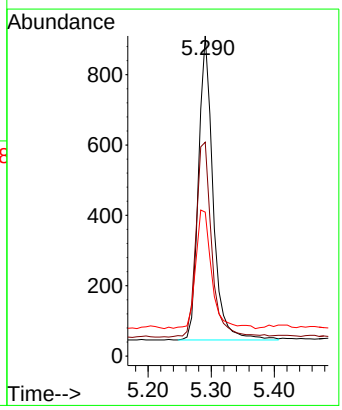


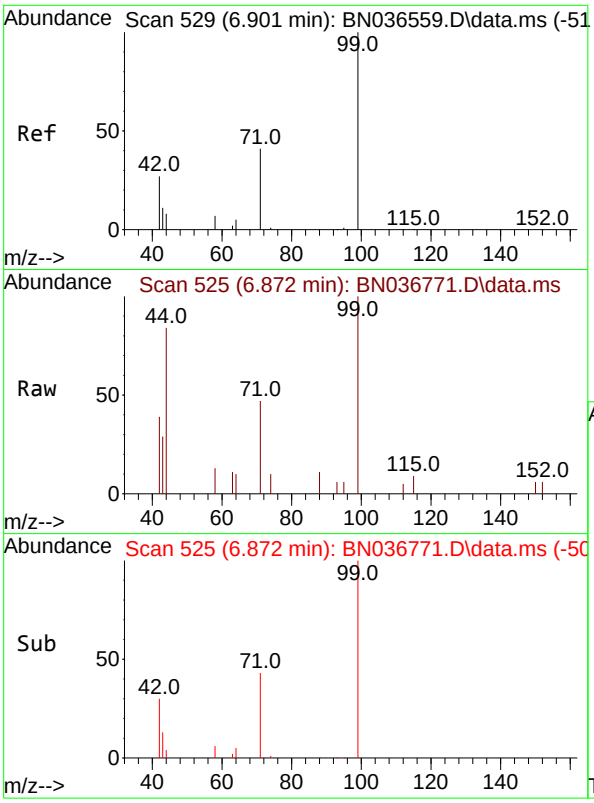




#4
2-Fluorophenol
Concen: 0.363 ng
RT: 5.290 min Scan# 306
Delta R.T. -0.022 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:112 Resp: 1384

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 69.4 | 53.1 | 79.7 |
| 63 | 42.8 | 31.8 | 47.8 |



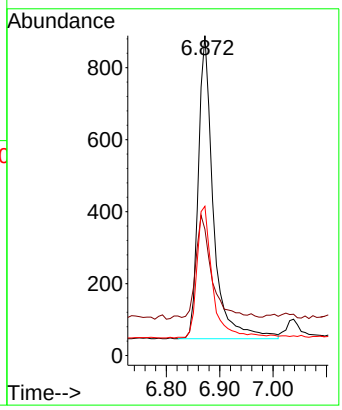


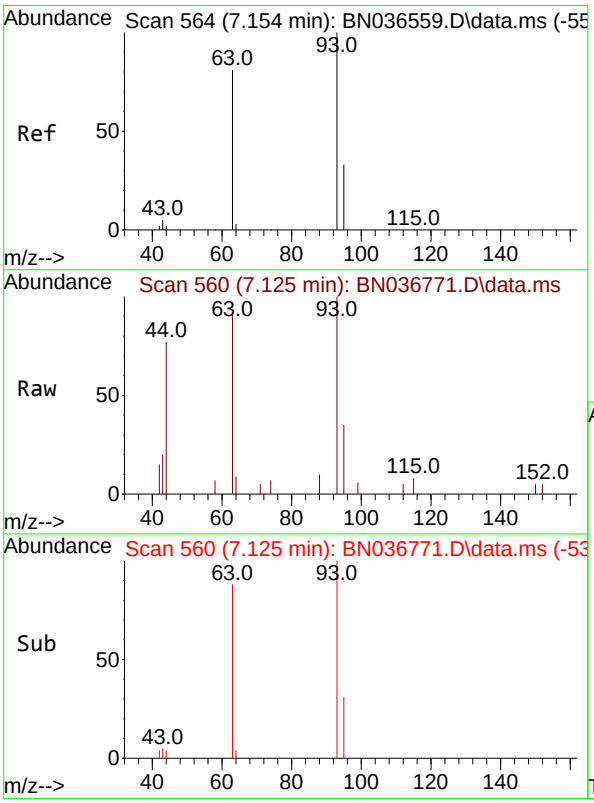

#5
Phenol-d6
Concen: 0.351 ng
RT: 6.872 min Scan# 5
Delta R.T. -0.029 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion: 99 Resp: 1653

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 37.9 | 26.5 | 39.7 |
| 71 | 45.1 | 34.1 | 51.1 |

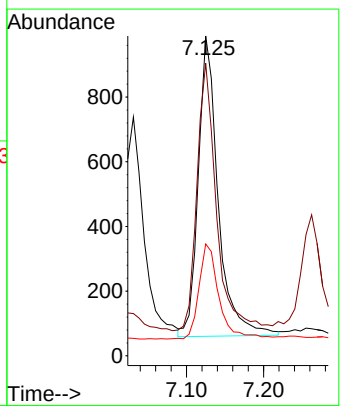


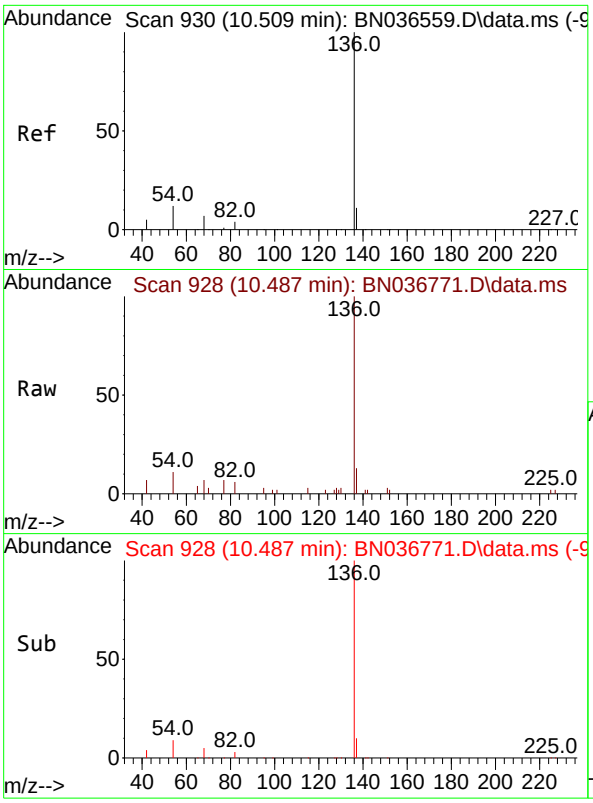




#6
bis(2-Chloroethyl)ether
Concen: 0.343 ng
RT: 7.125 min Scan# 560
Delta R.T. -0.029 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion: 93 Resp: 1671

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 87.3 | 67.7 | 101.5 |
| 95 | 31.8 | 25.6 | 38.4 |



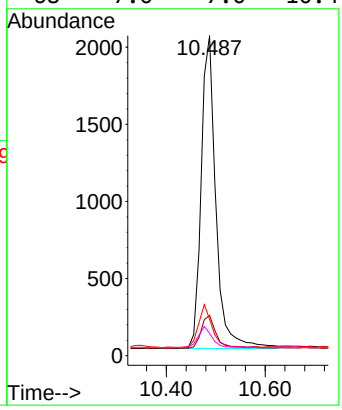


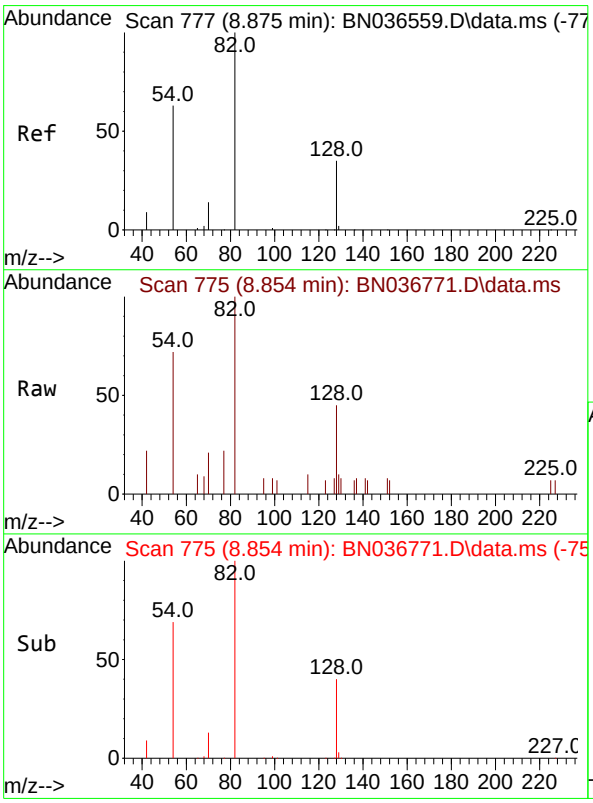

#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.487 min Scan# 9
Delta R.T. -0.021 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:136 Resp: 4177

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 12.6 | 10.3 | 15.5 |
| 54 | 11.4 | 11.5 | 17.3# |
| 68 | 7.0 | 7.0 | 10.4 |

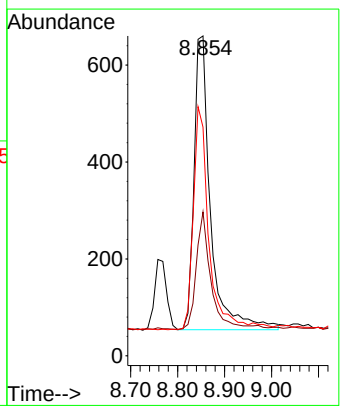


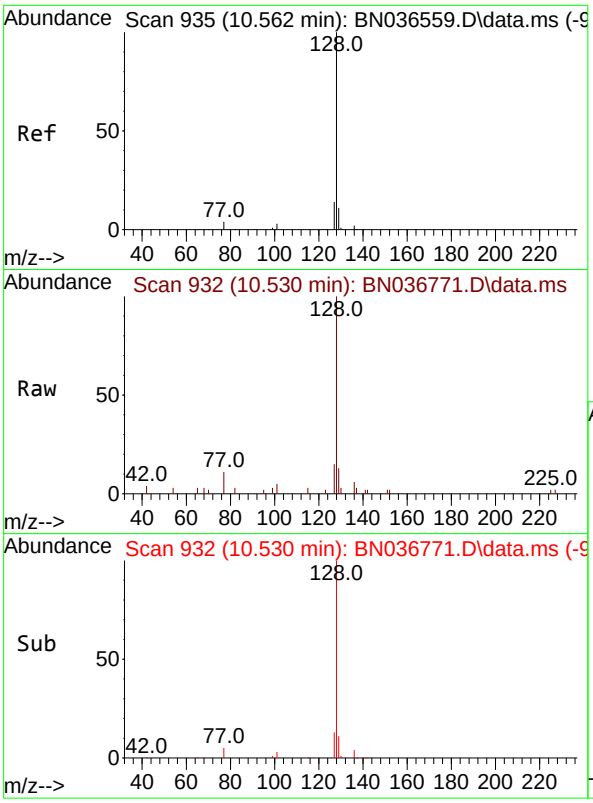




#8
Nitrobenzene-d5
Concen: 0.326 ng
RT: 8.854 min Scan# 775
Delta R.T. -0.021 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion: 82 Resp: 1480

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 45.0 | 30.6 | 45.8 |
| 54 | 71.5 | 52.2 | 78.4 |



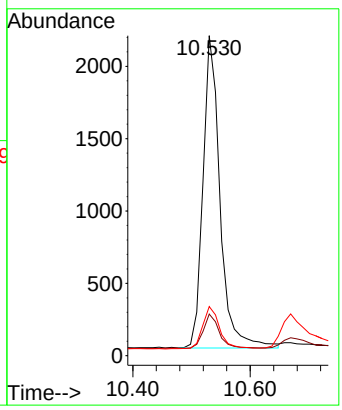


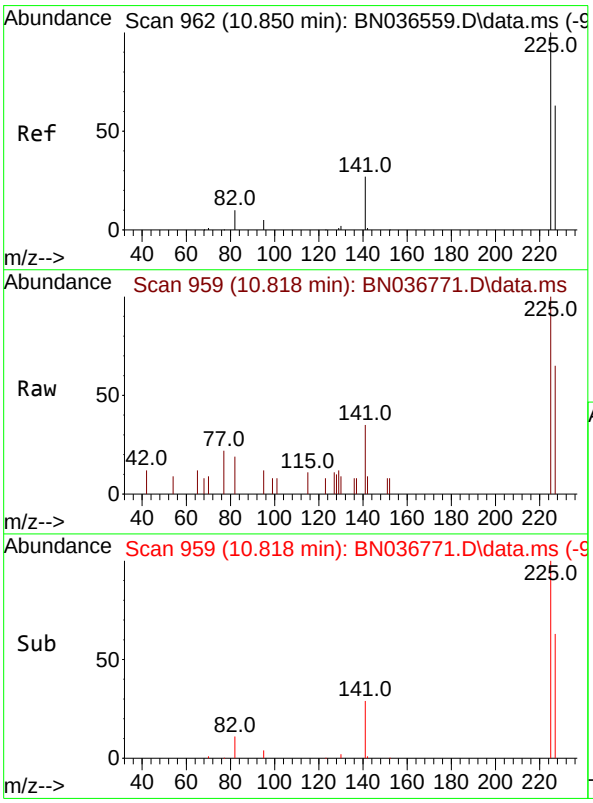

#9
Naphthalene
Concen: 0.355 ng
RT: 10.530 min Scan# 9
Delta R.T. -0.032 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:128 Resp: 4359

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 13.0 | 9.8 | 14.6 |
| 127 | 15.4 | 11.8 | 17.8 |

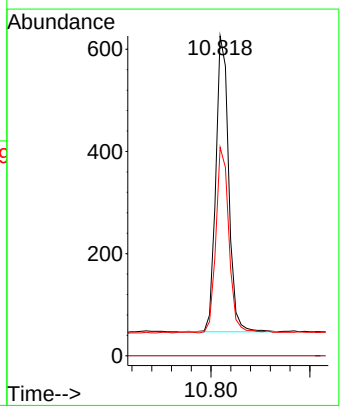


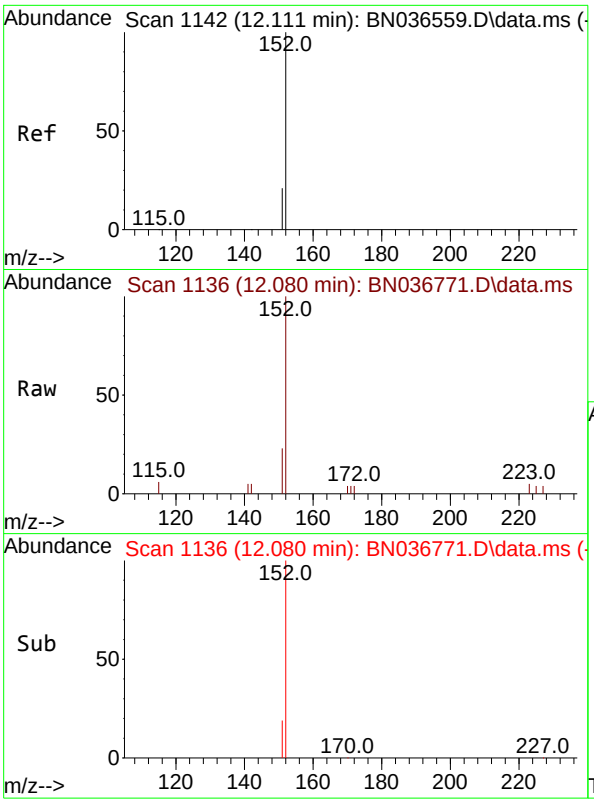




#10
Hexachlorobutadiene
Concen: 0.361 ng
RT: 10.818 min Scan# 959
Delta R.T. -0.032 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:225 Resp: 1044

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 0.0 | 0.0 | 0.0 |
| 227 | 63.8 | 51.8 | 77.8 |



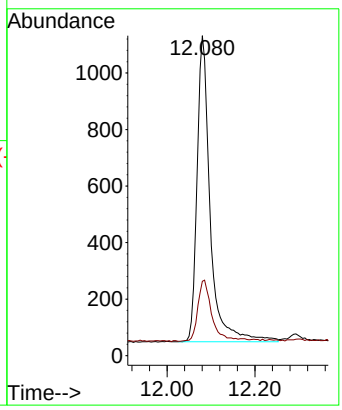


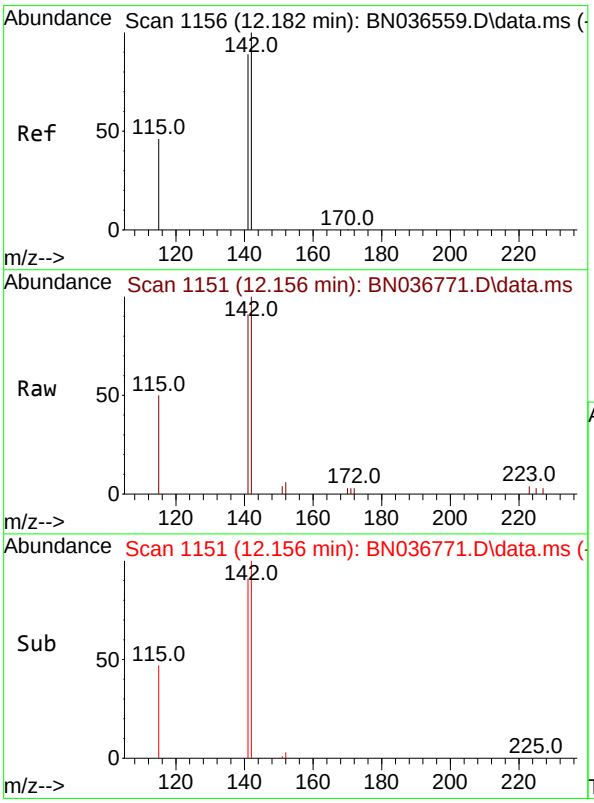

#11
2-Methylnaphthalene-d10
Concen: 0.363 ng
RT: 12.080 min Scan# 11
Delta R.T. -0.030 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:152 Resp: 2256

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 21.0 | 17.0 | 25.6 |

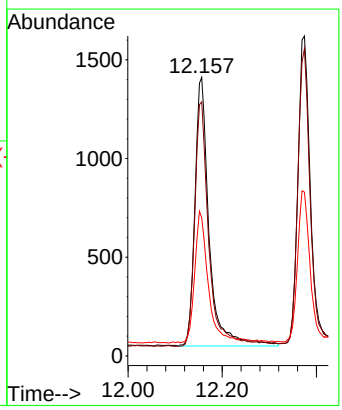


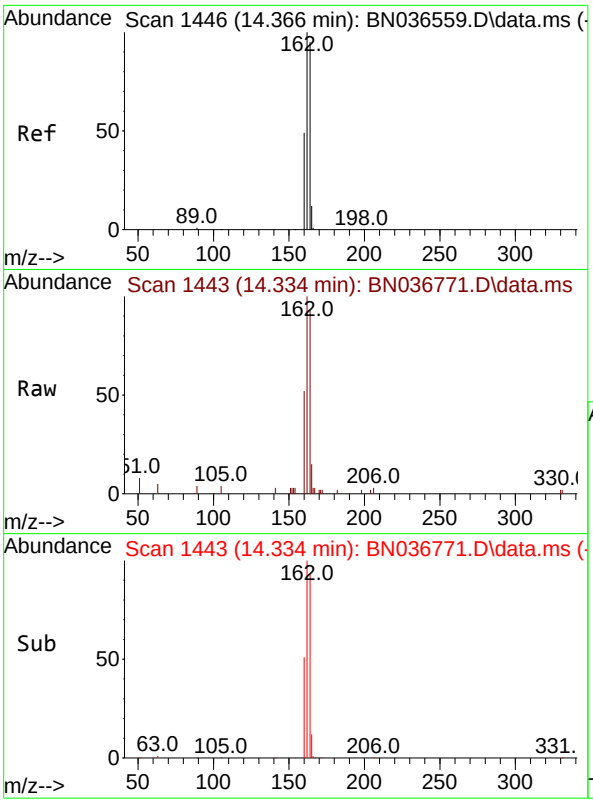




#12
2-Methylnaphthalene
Concen: 0.368 ng
RT: 12.156 min Scan# 1151
Delta R.T. -0.025 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:142 Resp: 2874

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 91.2 | 71.7 | 107.5 |
| 115 | 49.5 | 38.3 | 57.5 |



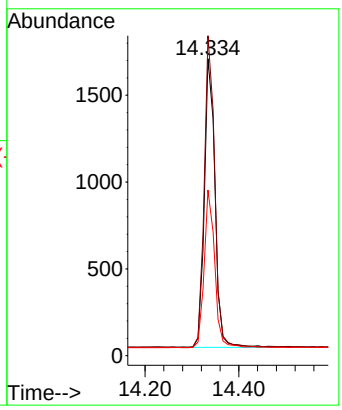


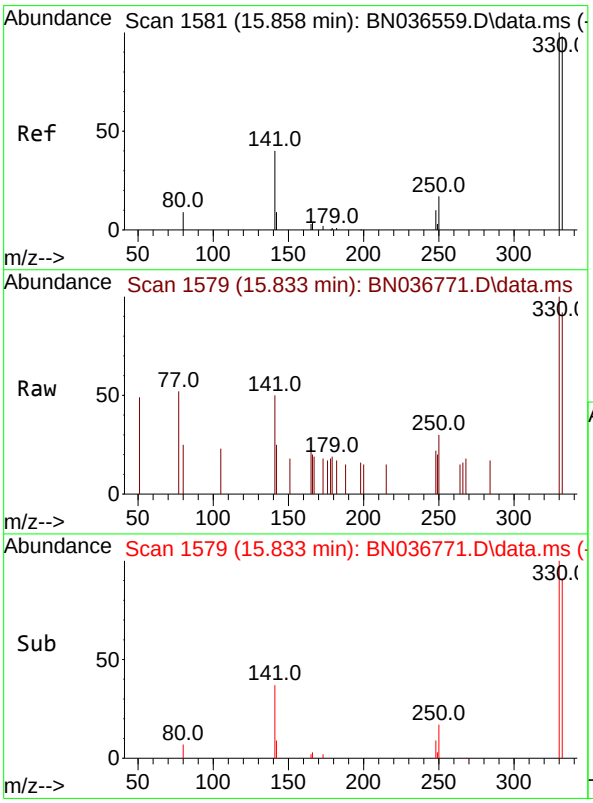

#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.334 min Scan# 14
Delta R.T. -0.032 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:164 Resp: 2615

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 107.8 | 84.2 | 126.2 |
| 160 | 55.8 | 42.2 | 63.2 |

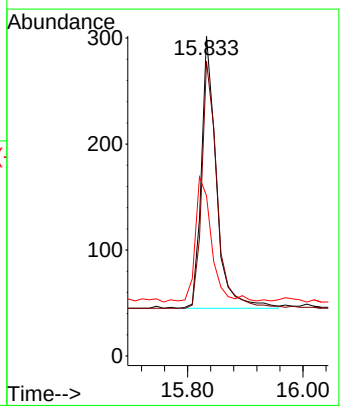


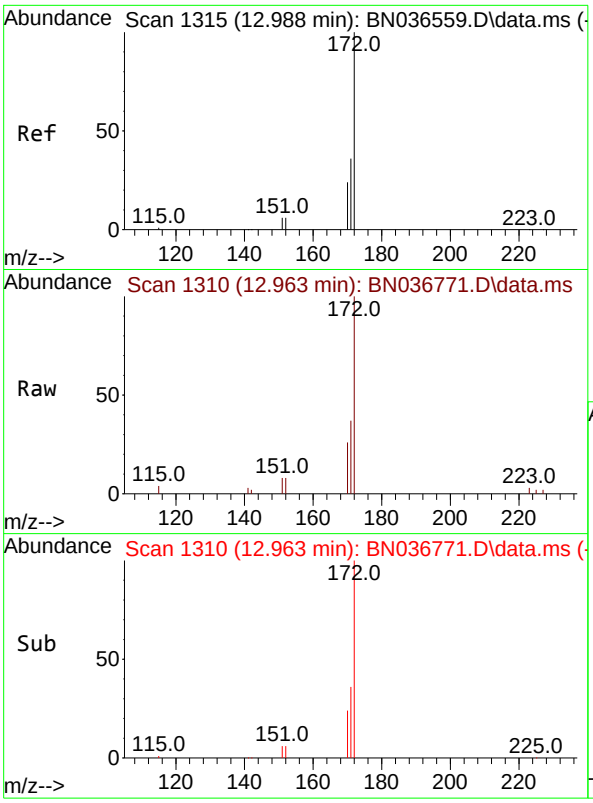




#14
2,4,6-Tribromophenol
Concen: 0.391 ng
RT: 15.833 min Scan# 1579
Delta R.T. -0.025 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:330 Resp: 464

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 93.3 | 75.2 | 112.8 |
| 141 | 49.1 | 43.4 | 65.2 |



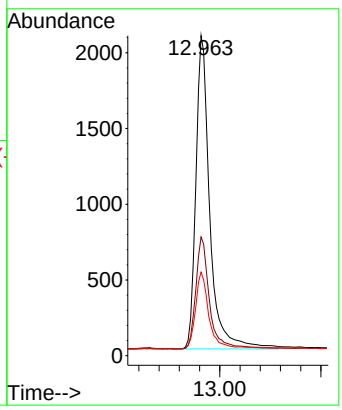


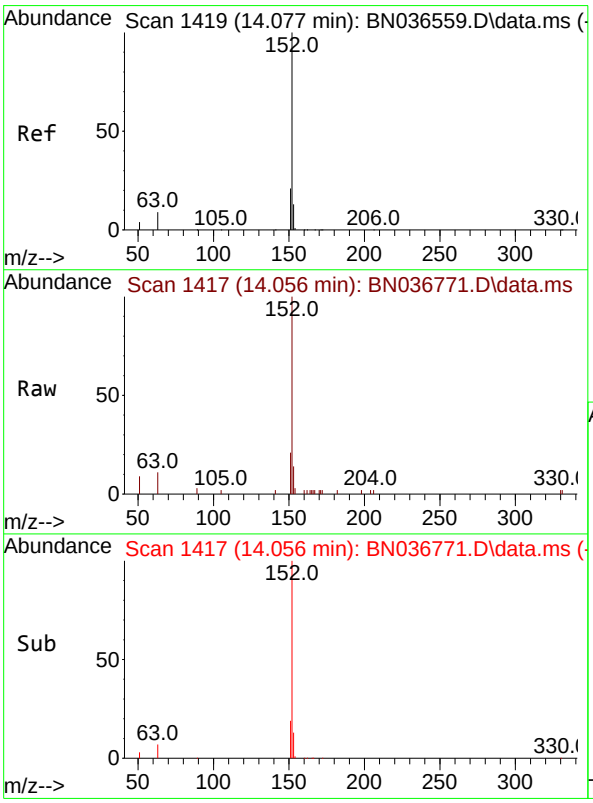

#15
2-Fluorobiphenyl
Concen: 0.347 ng
RT: 12.963 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:172 Resp: 5285

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 37.1 | 29.5 | 44.3 |
| 170 | 26.1 | 20.2 | 30.4 |

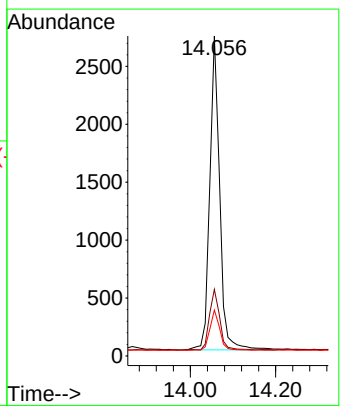


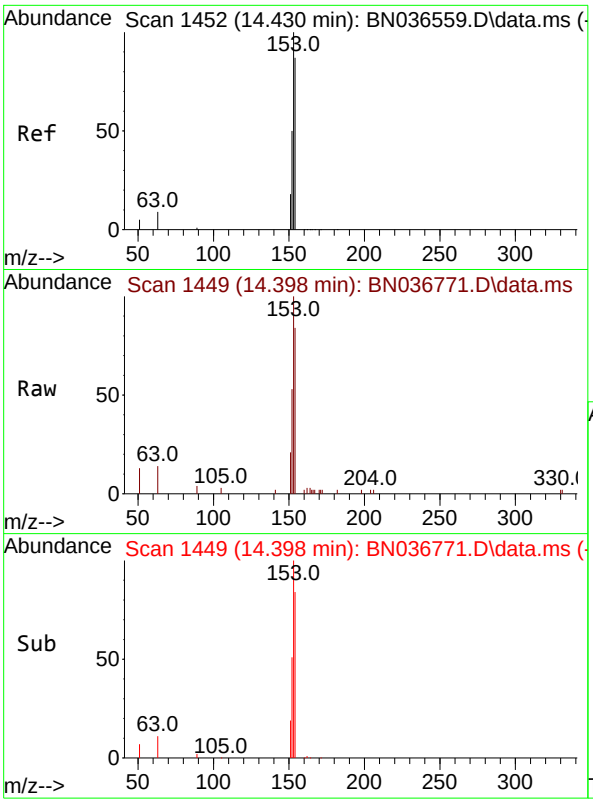




#16
Acenaphthylene
Concen: 0.353 ng
RT: 14.056 min Scan# 1417
Delta R.T. -0.021 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:152 Resp: 4358

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 19.5 | 16.2 | 24.4 |
| 153 | 13.1 | 10.6 | 15.8 |



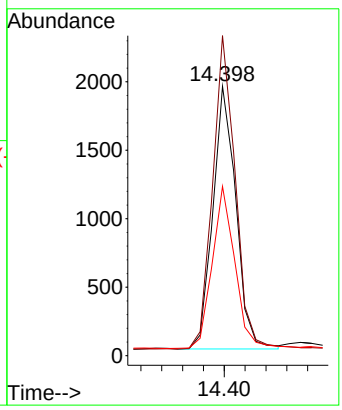


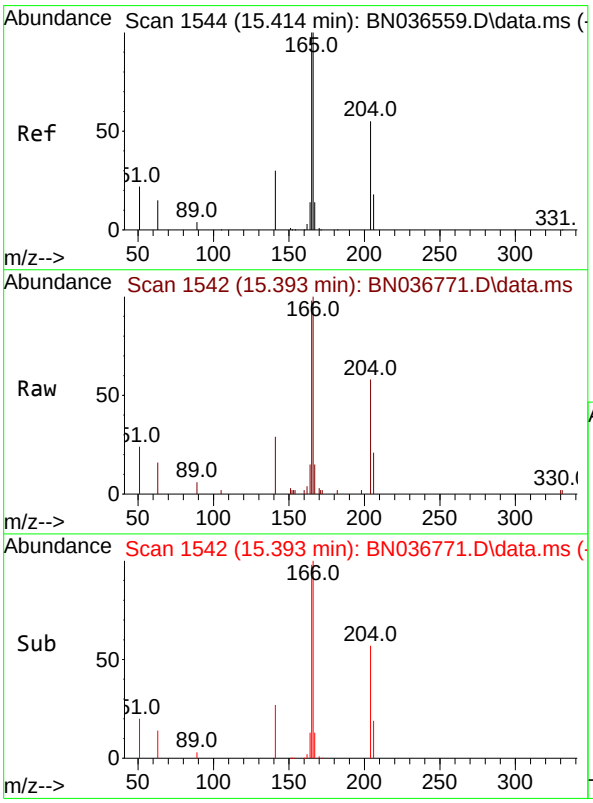

#17
Acenaphthene
Concen: 0.365 ng
RT: 14.398 min Scan# 14
Delta R.T. -0.032 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:154 Resp: 2946

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 117.7 | 94.1 | 141.1 |
| 152 | 61.6 | 49.8 | 74.6 |

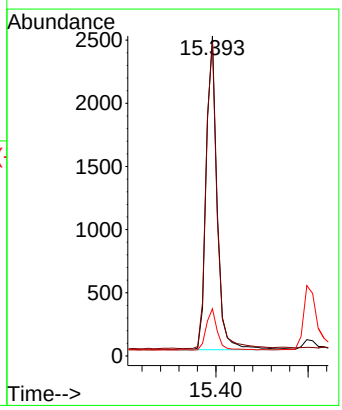


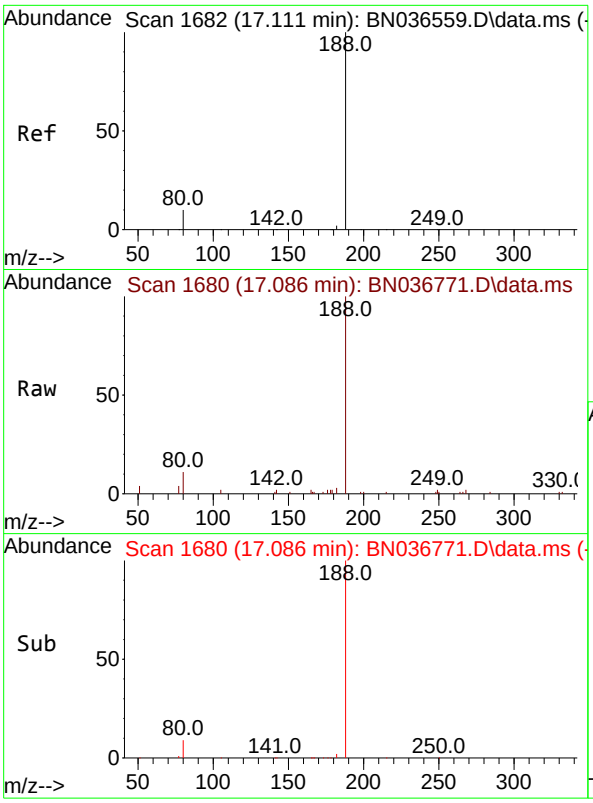




#18
Fluorene
Concen: 0.376 ng
RT: 15.393 min Scan# 1542
Delta R.T. -0.021 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:166 Resp: 4111

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 97.9 | 79.8 | 119.8 |
| 167 | 13.4 | 10.6 | 15.8 |



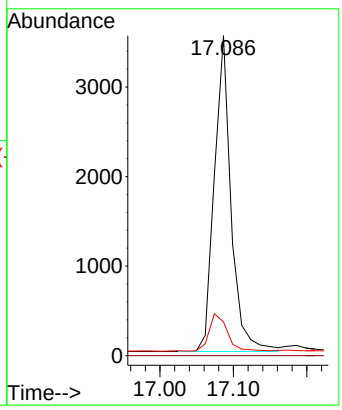


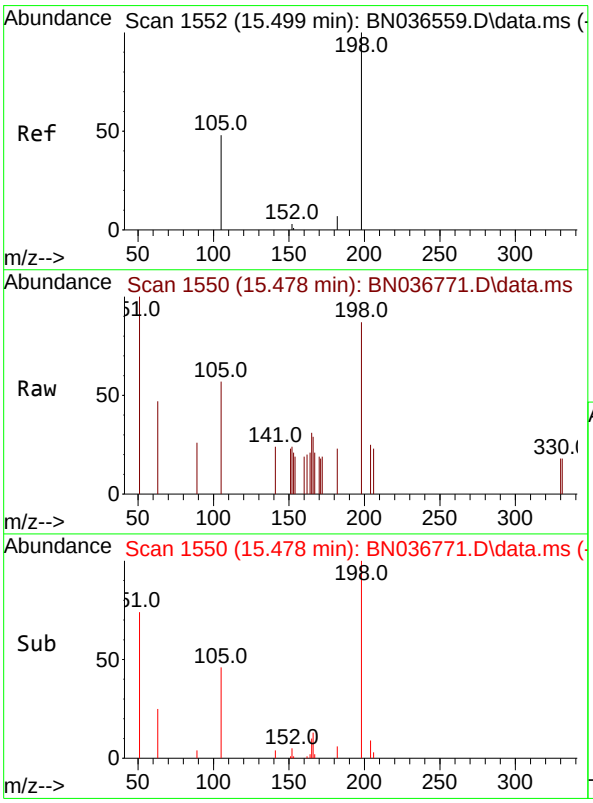

#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.086 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:188 Resp: 5571

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 10.6 | 8.8 | 13.2 |

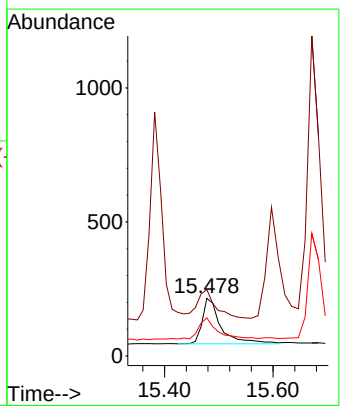


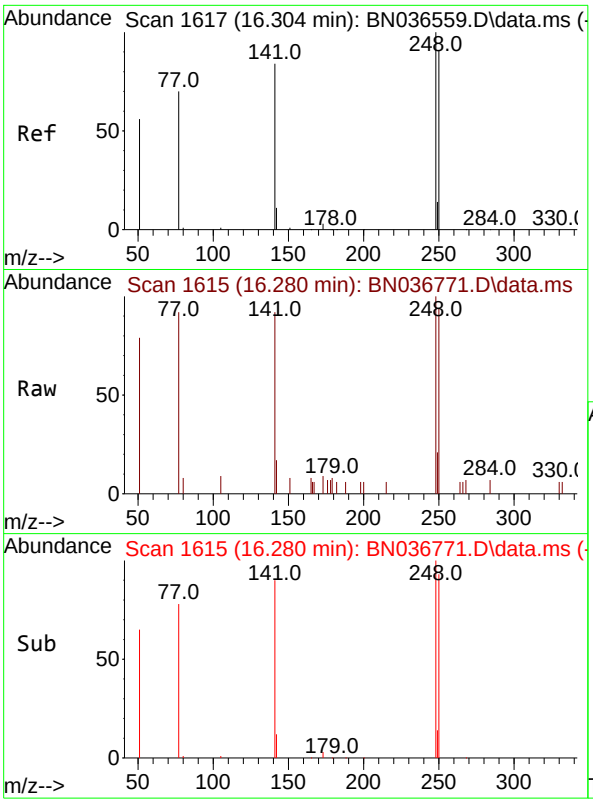




#20
4,6-Dinitro-2-methylphenol
Concen: 0.446 ng
RT: 15.478 min Scan# 1550
Delta R.T. -0.021 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:198 Resp: 428

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 198 | 100 | | |
| 51 | 115.3 | 107.9 | 161.9 |
| 105 | 66.0 | 56.2 | 84.2 |



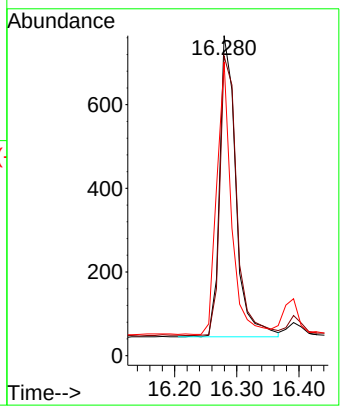


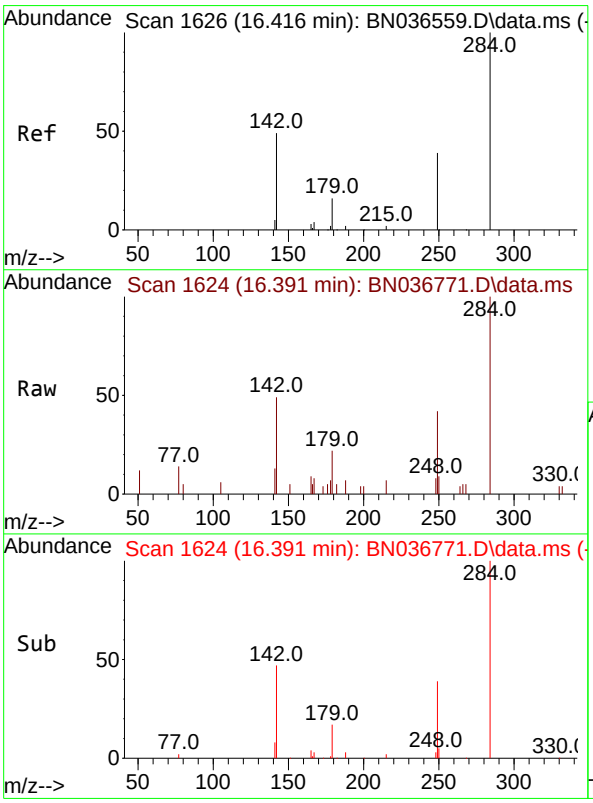

#21
4-Bromophenyl-phenylether
Concen: 0.372 ng
RT: 16.280 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:248 Resp: 1300

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 93.6 | 73.0 | 109.6 |
| 141 | 91.8 | 68.6 | 103.0 |

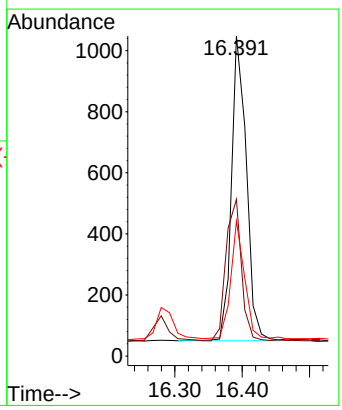


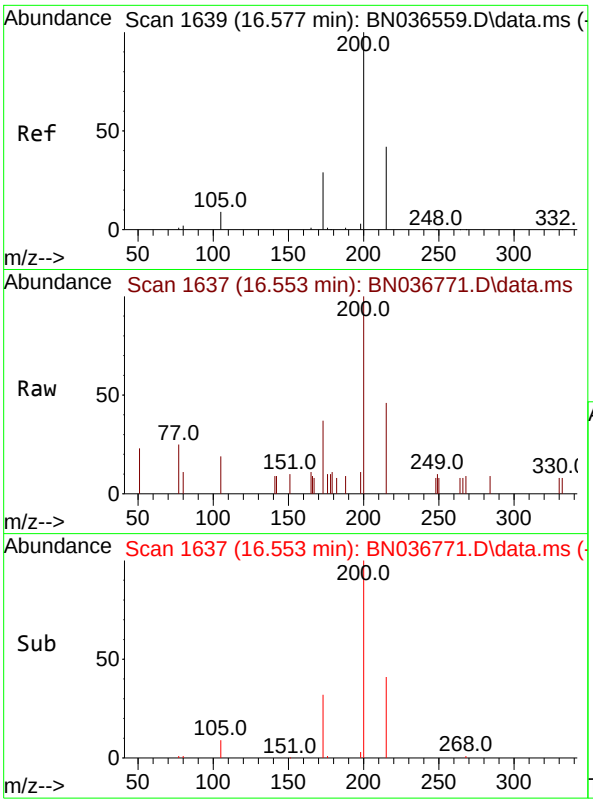




#22
Hexachlorobenzene
Concen: 0.365 ng
RT: 16.391 min Scan# 1624
Delta R.T. -0.025 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:284 Resp: 1537

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 49.5 | 37.0 | 55.4 |
| 249 | 36.2 | 28.1 | 42.1 |



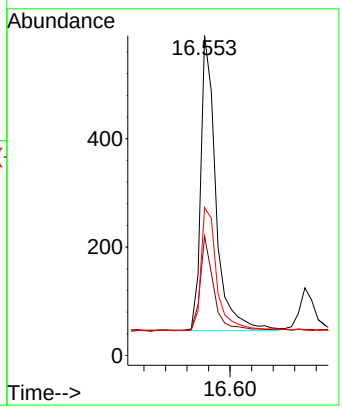


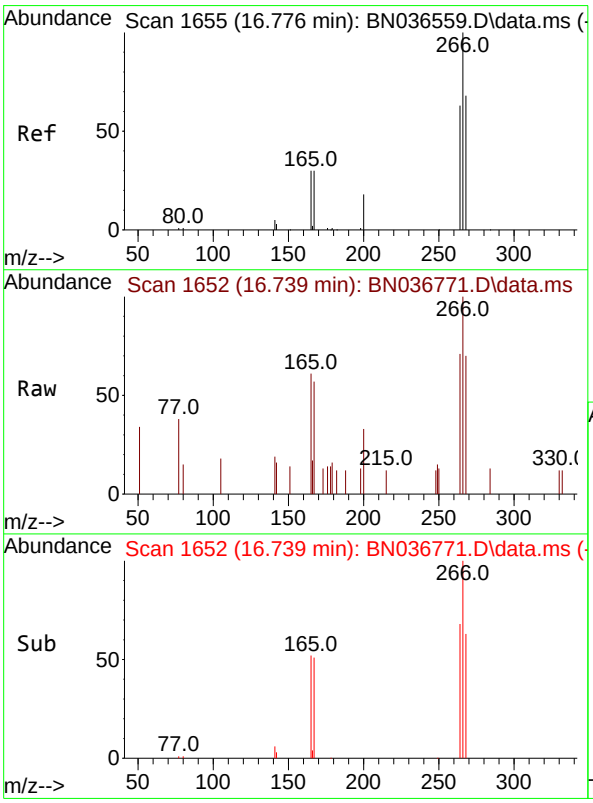

#23
Atrazine
Concen: 0.380 ng
RT: 16.553 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:200 Resp: 1063

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 173 | 37.3 | 27.3 | 40.9 |
| 215 | 46.3 | 36.8 | 55.2 |

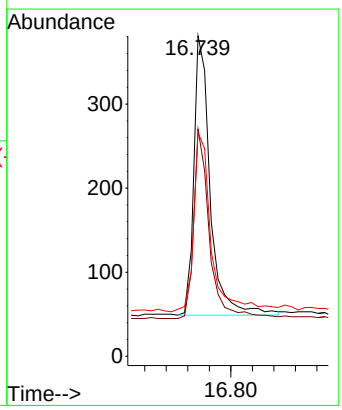


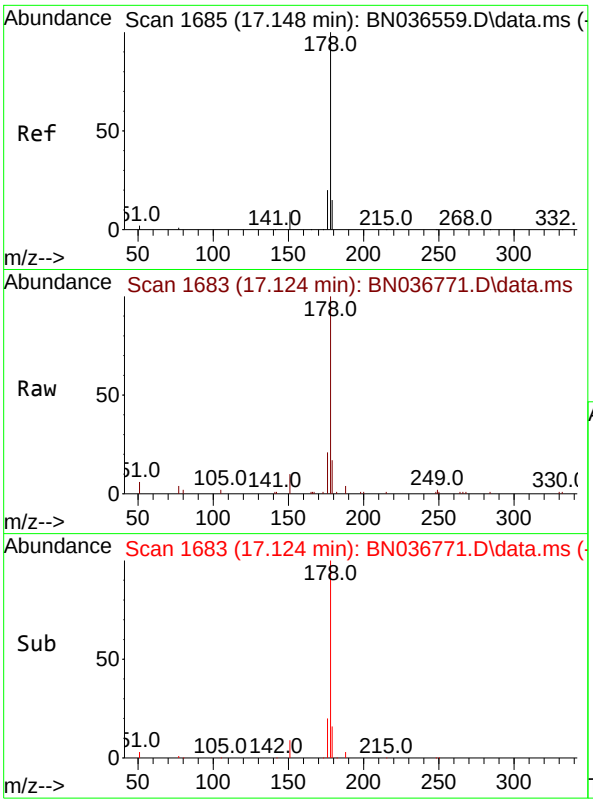




#24
Pentachlorophenol
Concen: 0.365 ng
RT: 16.739 min Scan# 1652
Delta R.T. -0.037 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:266 Resp: 702

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 264 | 64.8 | 49.6 | 74.4 |
| 268 | 69.2 | 50.9 | 76.3 |



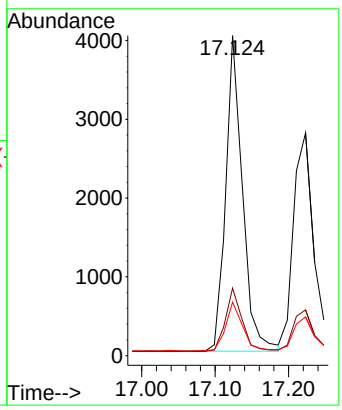


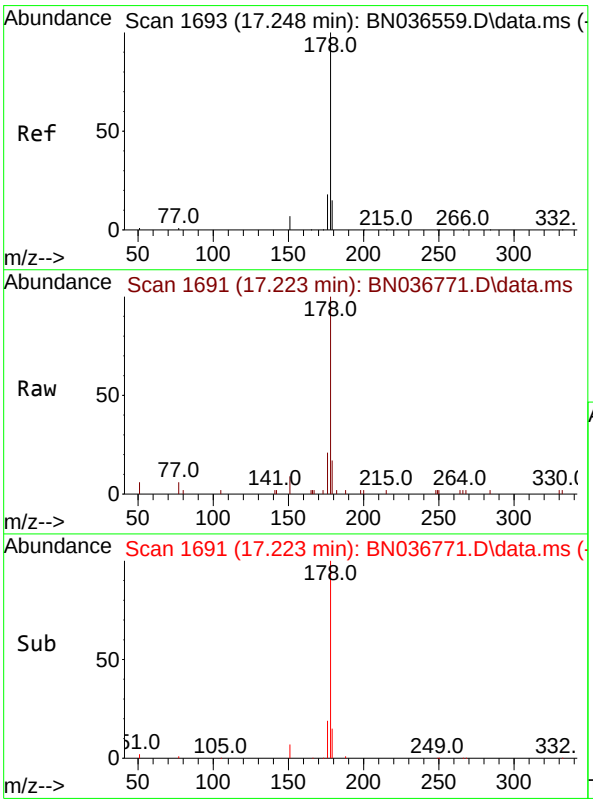

#25
Phenanthrene
Concen: 0.381 ng
RT: 17.124 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:178 Resp: 6367

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 20.0 | 15.9 | 23.9 |
| 179 | 15.8 | 12.2 | 18.4 |

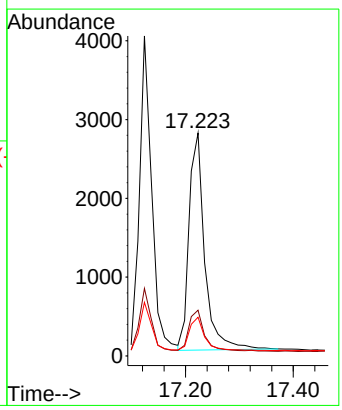


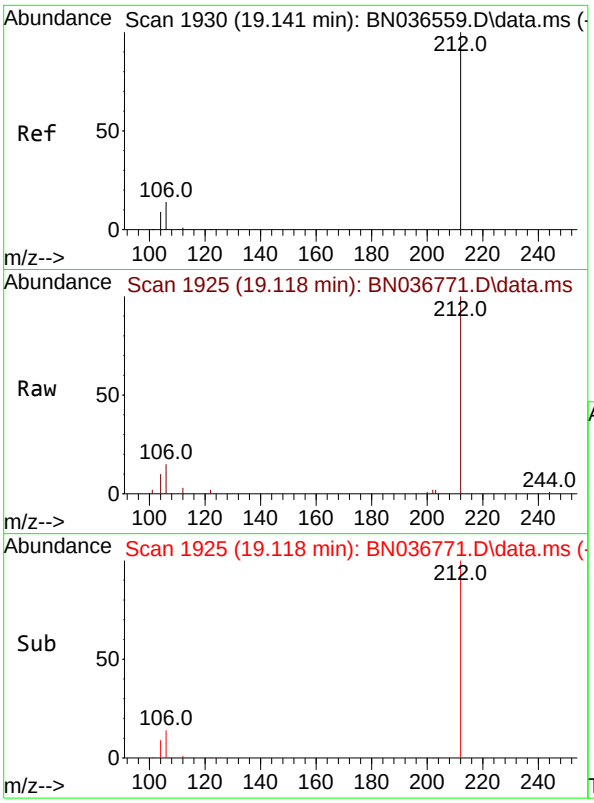




#26
Anthracene
Concen: 0.369 ng
RT: 17.223 min Scan# 1691
Delta R.T. -0.025 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:178 Resp: 5569

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.4 | 15.4 | 23.2 |
| 179 | 15.4 | 12.6 | 18.8 |



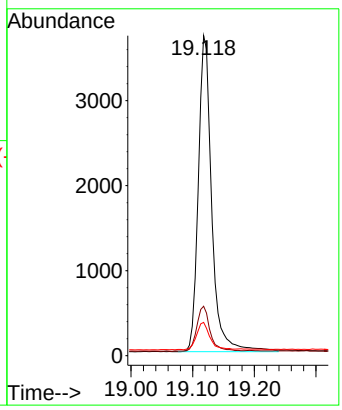


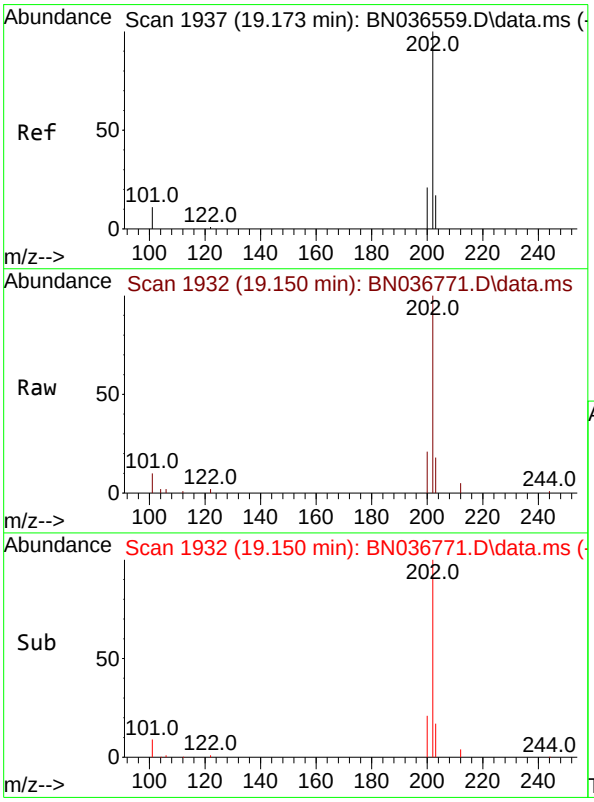

#27
Fluoranthene-d10
Concen: 0.395 ng
RT: 19.118 min Scan# 1
Delta R.T. -0.023 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:212 Resp: 5637

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 13.8 | 11.8 | 17.6 |
| 104 | 8.6 | 7.3 | 10.9 |

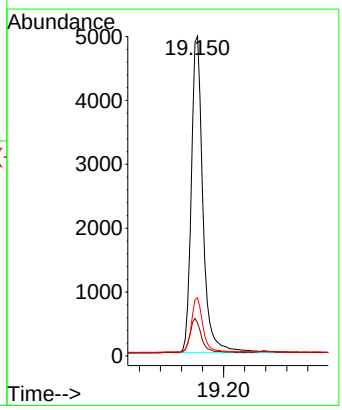


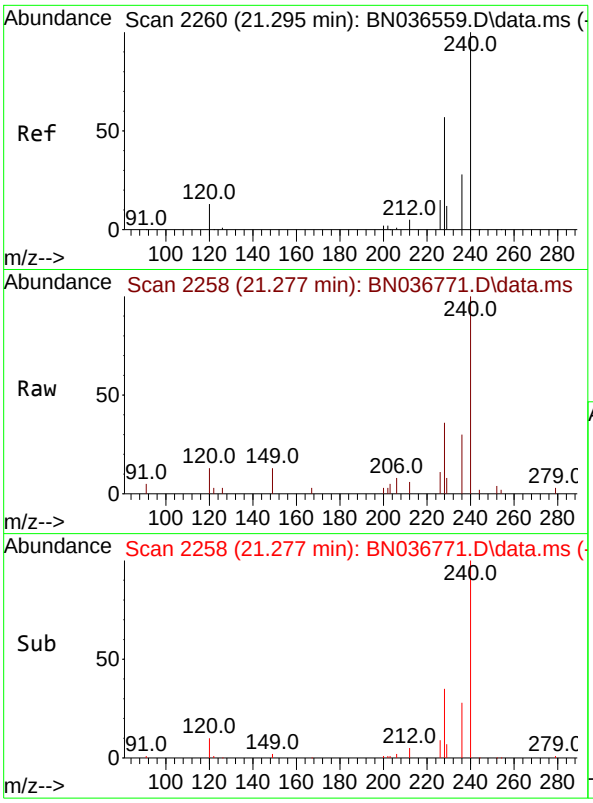




#28
Fluoranthene
Concen: 0.406 ng
RT: 19.150 min Scan# 1932
Delta R.T. -0.023 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:202 Resp: 7617

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 11.0 | 9.4 | 14.0 |
| 203 | 16.8 | 13.5 | 20.3 |



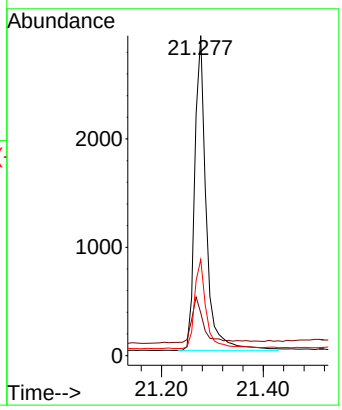


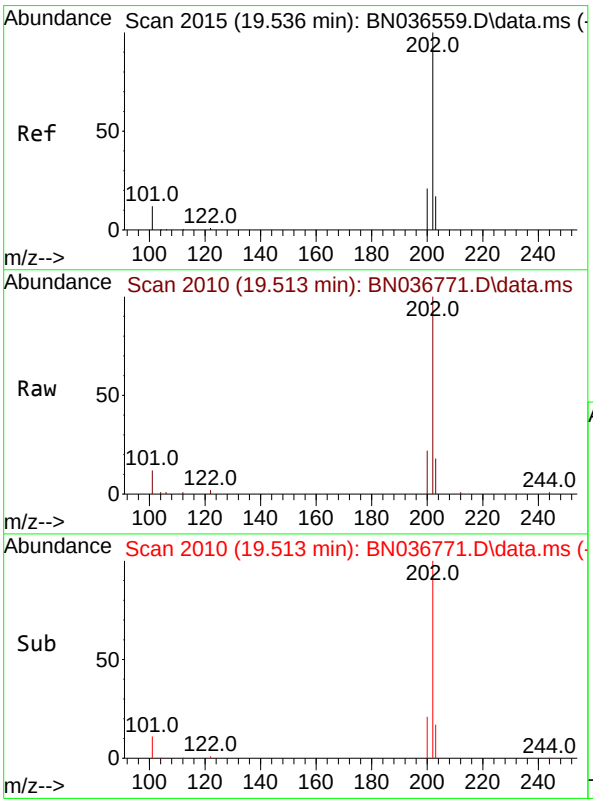

#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:240 Resp: 4555

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 13.3 | 14.6 | 22.0# |
| 236 | 30.0 | 24.1 | 36.1 |

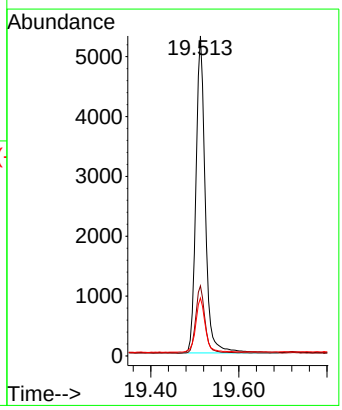


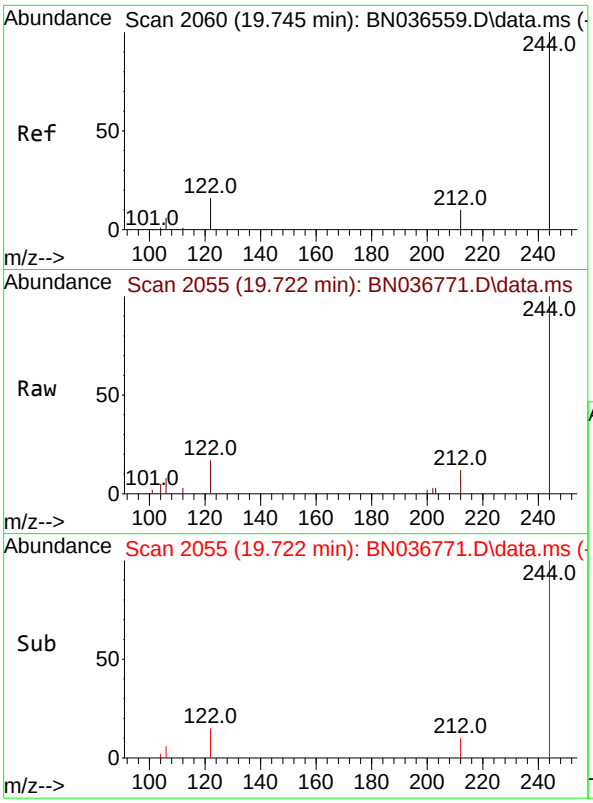




#30
Pyrene
Concen: 0.350 ng
RT: 19.513 min Scan# 2010
Delta R.T. -0.023 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:202 Resp: 7795

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.2 | 17.1 | 25.7 |
| 203 | 17.3 | 14.1 | 21.1 |



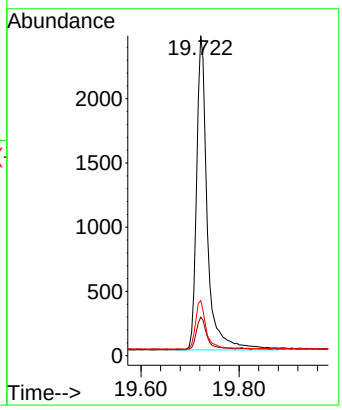


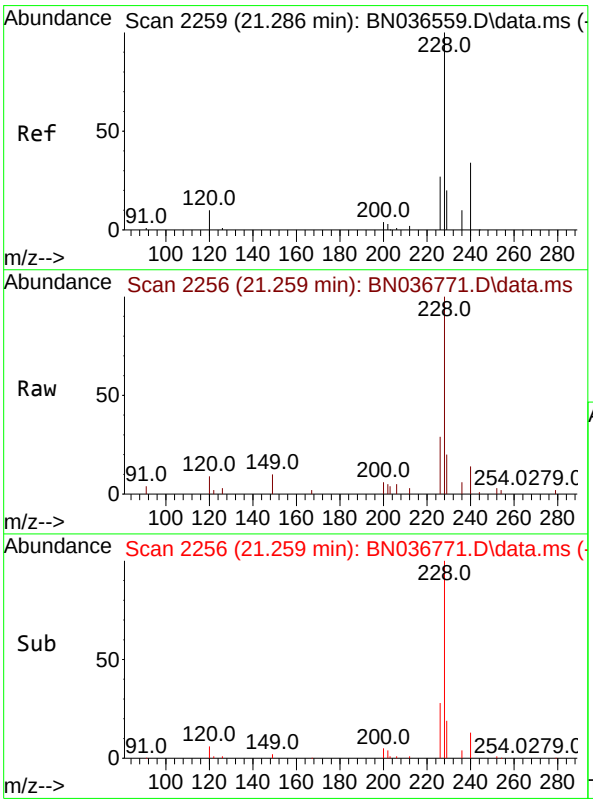

#31
Terphenyl-d14
Concen: 0.341 ng
RT: 19.722 min Scan# 2
Delta R.T. -0.023 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:244 Resp: 3716

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 12.0 | 9.6 | 14.4 |
| 122 | 17.2 | 13.9 | 20.9 |

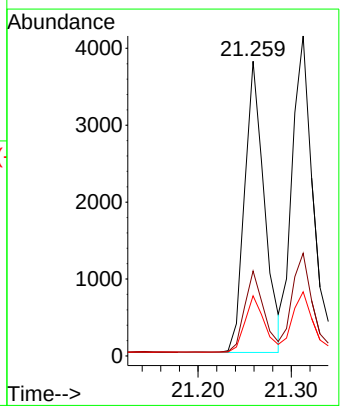


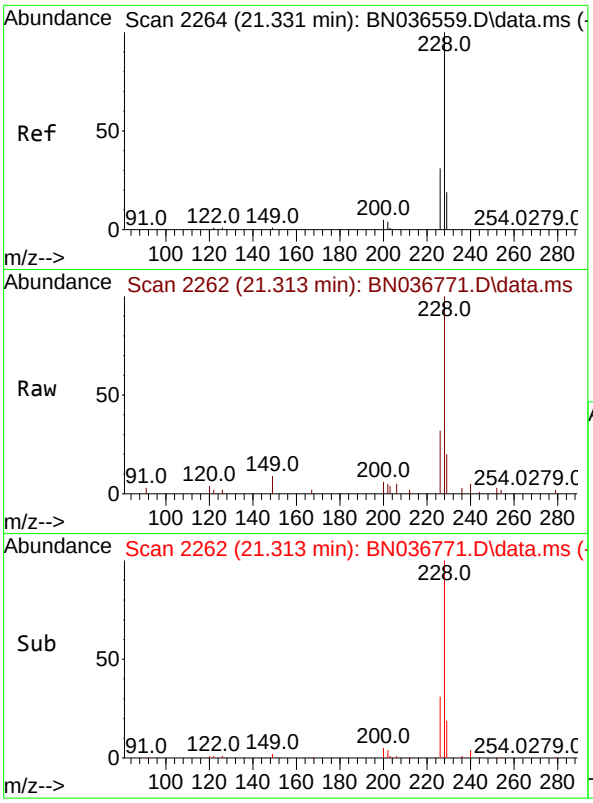




#32
Benzo(a)anthracene
Concen: 0.351 ng
RT: 21.259 min Scan# 2256
Delta R.T. -0.027 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:228 Resp: 5566

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 28.8 | 22.5 | 33.7 |
| 229 | 20.4 | 16.6 | 25.0 |



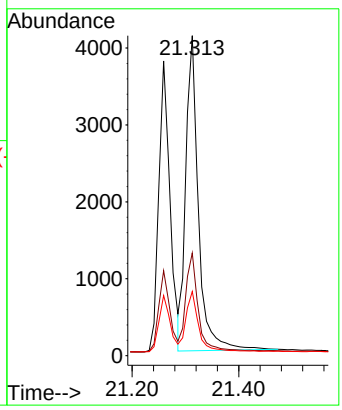


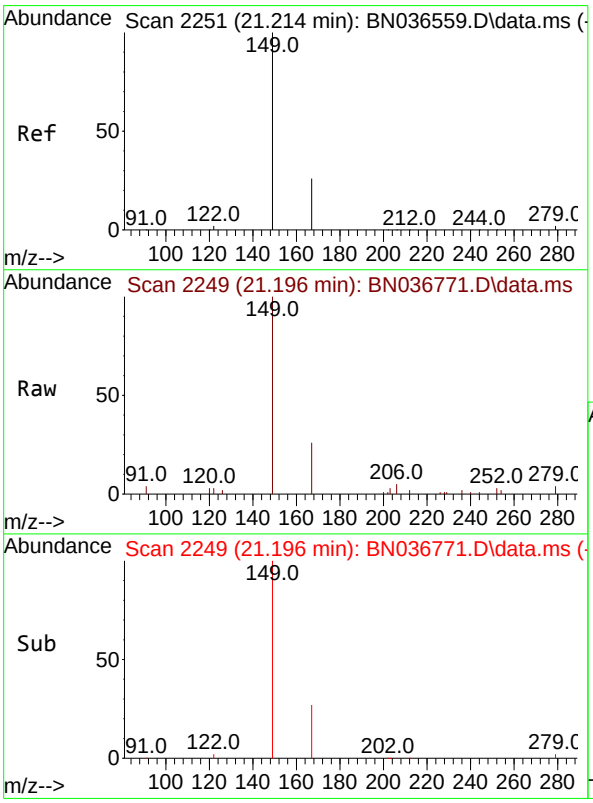

#33
Chrysene
Concen: 0.389 ng
RT: 21.313 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:228 Resp: 6726

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 32.1 | 25.3 | 37.9 |
| 229 | 20.0 | 15.8 | 23.8 |

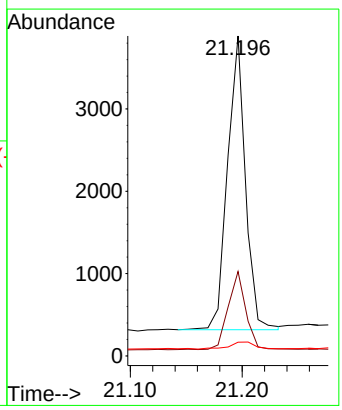


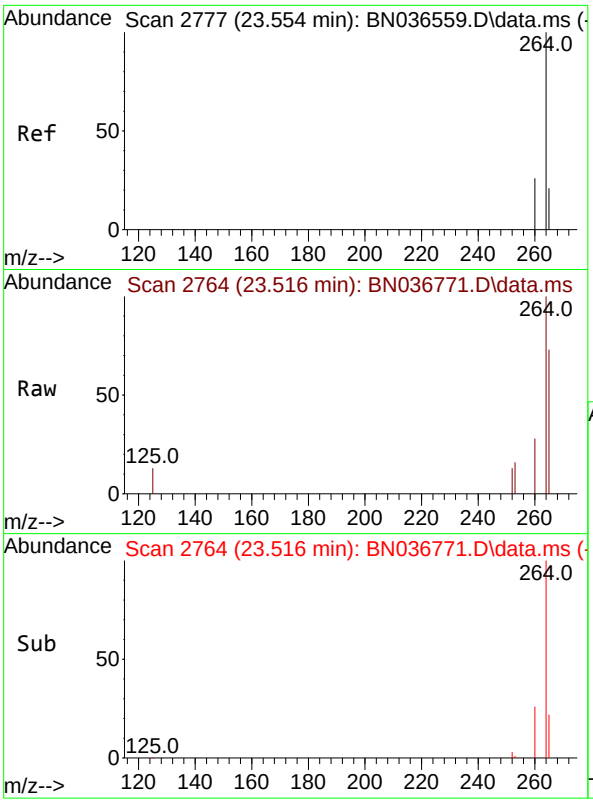




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.352 ng
RT: 21.196 min Scan# 2249
Delta R.T. -0.018 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:149 Resp: 3968

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 26.1 | 20.7 | 31.1 |
| 279 | 3.3 | 3.6 | 5.4# |



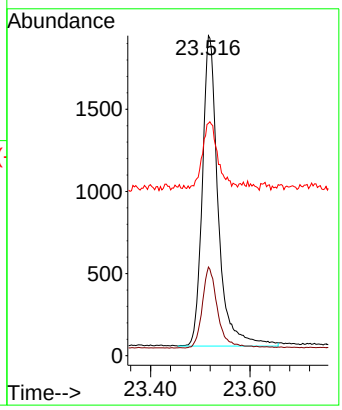


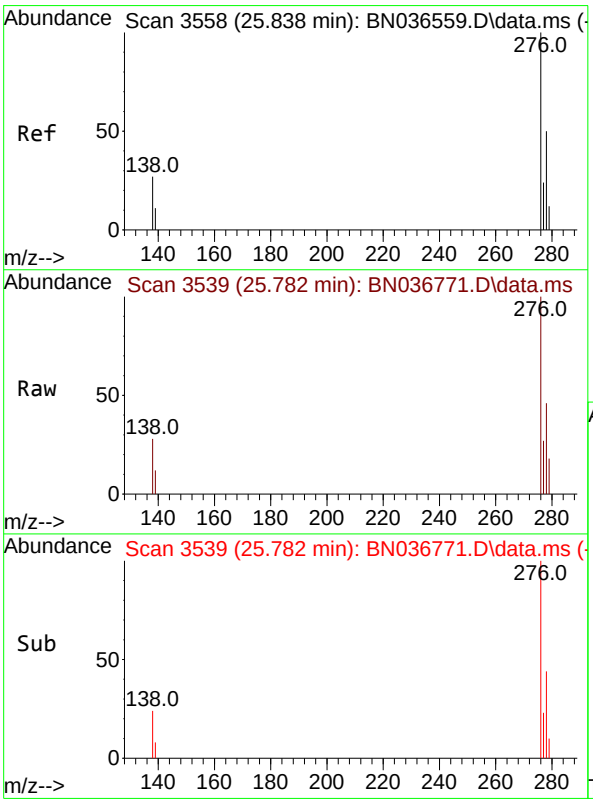

#35
Perylene-d12
Concen: 0.400 ng
RT: 23.516 min Scan# 2
Delta R.T. -0.038 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:264 Resp: 4167

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 27.7 | 22.6 | 33.8 |
| 265 | 72.6 | 88.1 | 132.1# |

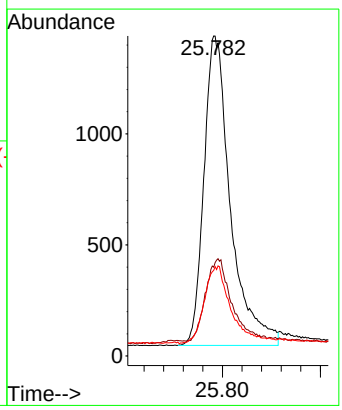


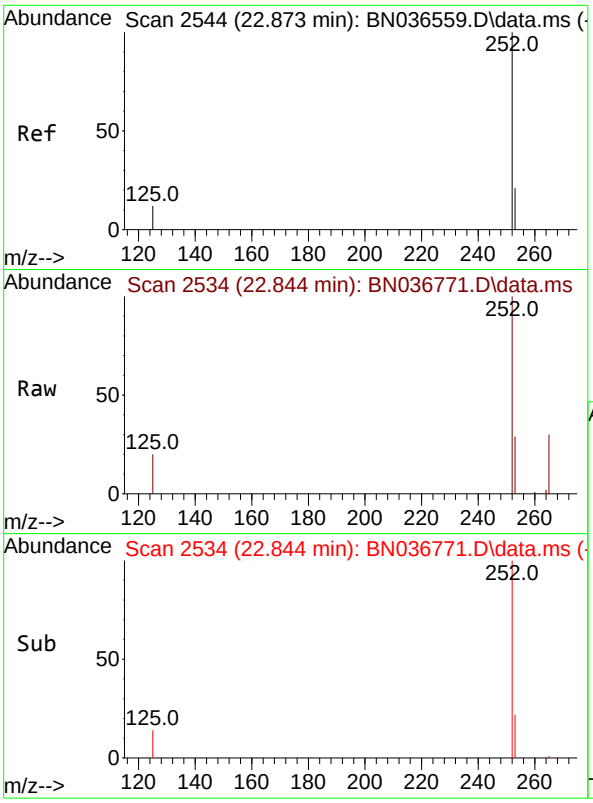




#36
Indeno(1,2,3-cd)pyrene
Concen: 0.348 ng
RT: 25.782 min Scan# 3539
Delta R.T. -0.055 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:276 Resp: 5233

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 25.8 | 23.4 | 35.2 |
| 277 | 25.2 | 20.0 | 30.0 |



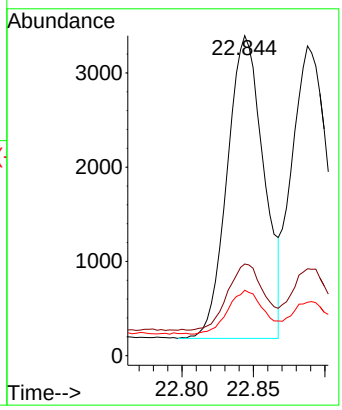


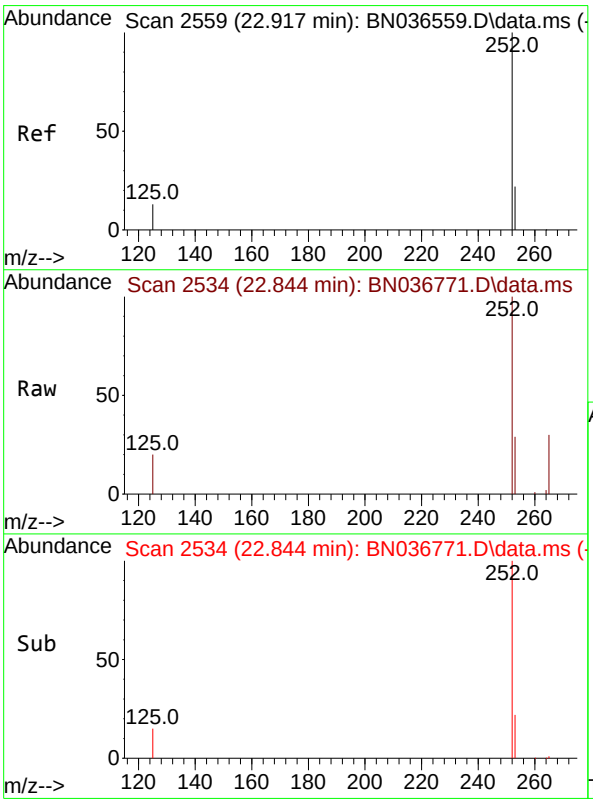

#37
Benzo(b)fluoranthene
Concen: 0.377 ng
RT: 22.844 min Scan# 2
Delta R.T. -0.029 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:252 Resp: 5720

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 28.6 | 23.9 | 35.9 |
| 125 | 20.5 | 17.4 | 26.2 |

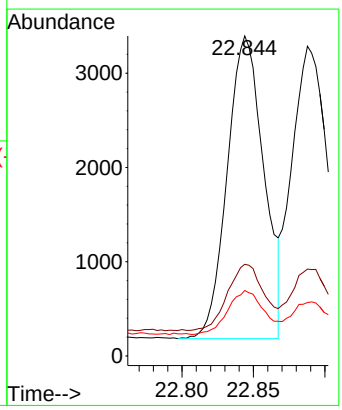


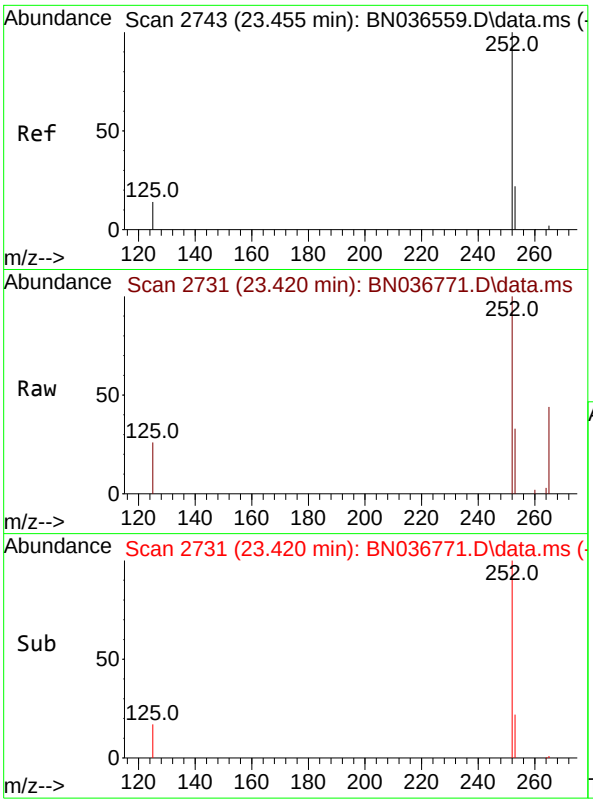




#38
Benzo(k)fluoranthene
Concen: 0.360 ng
RT: 22.844 min Scan# 2534
Delta R.T. -0.073 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:252 Resp: 5720

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 28.6 | 24.6 | 36.8 |
| 125 | 20.5 | 17.8 | 26.8 |



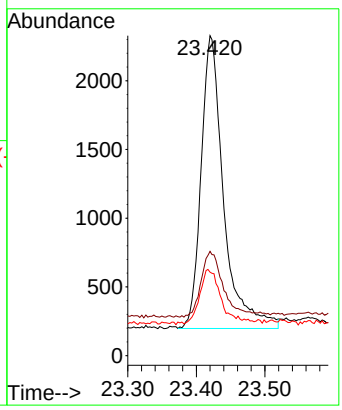


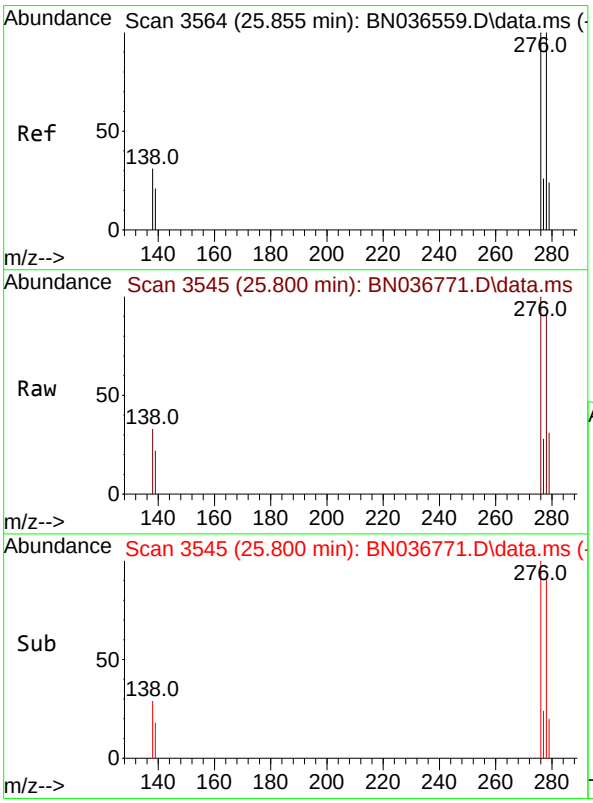

#39
Benzo(a)pyrene
Concen: 0.381 ng
RT: 23.420 min Scan# 2
Delta R.T. -0.035 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:252 Resp: 4867

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 32.6 | 27.8 | 41.8 |
| 125 | 26.1 | 22.7 | 34.1 |

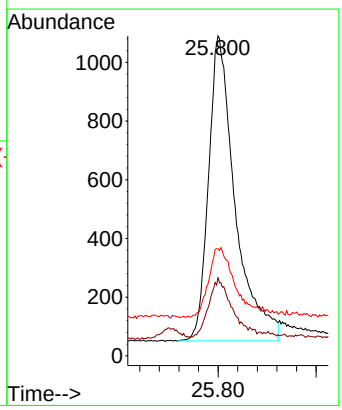


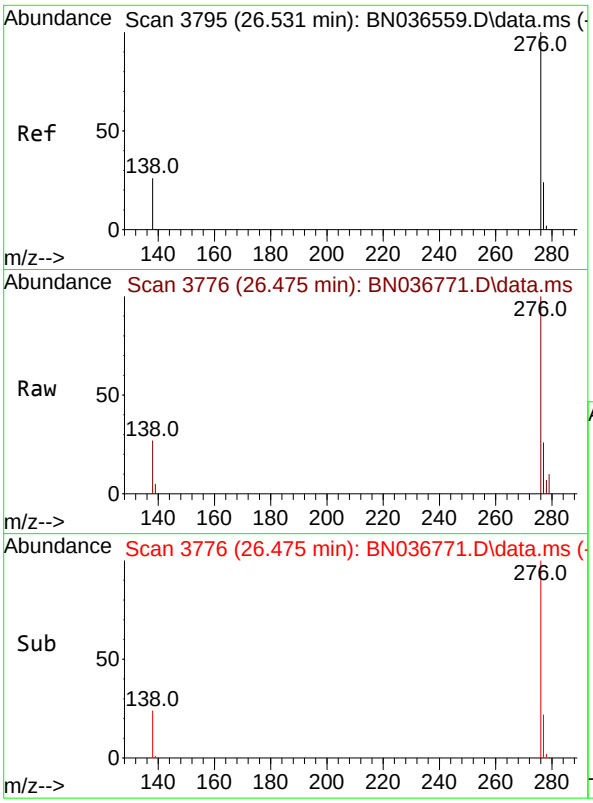




#40
Dibenzo(a,h)anthracene
Concen: 0.334 ng
RT: 25.800 min Scan# 3545
Delta R.T. -0.055 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:278 Resp: 3914

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 24.4 | 20.8 | 31.2 |
| 279 | 33.5 | 28.8 | 43.2 |



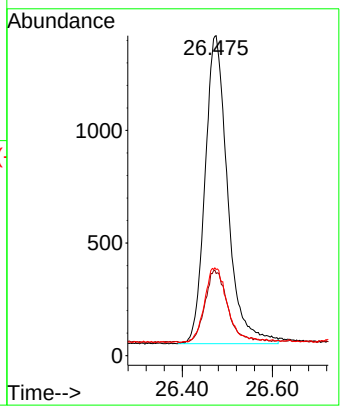



#41
Benzo(g,h,i)perylene
Concen: 0.355 ng
RT: 26.475 min Scan# 3
Delta R.T. -0.055 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:276 Resp: 4758

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 25.7 | 22.2 | 33.4 |
| 138 | 27.0 | 24.1 | 36.1 |



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032825\
Data File : BN036791.D
Acq On : 29 Mar 2025 02:44
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 22 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Quant Time: Mar 29 04:28:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

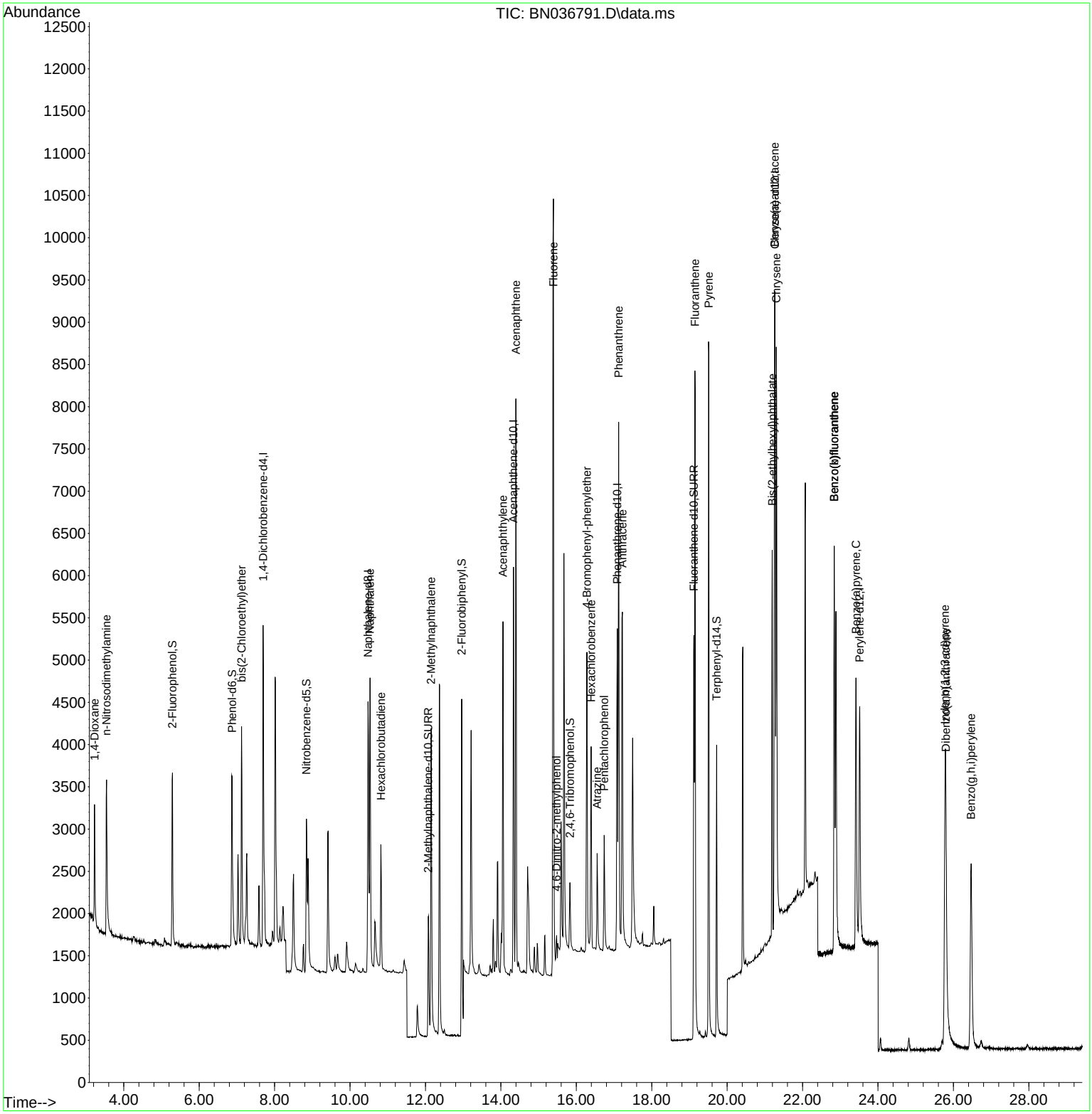
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.696 | 152 | 1826 | 0.400 | ng | | -0.03 |
| 7) Naphthalene-d8 | 10.477 | 136 | 4490 | 0.400 | ng | | -0.03 |
| 13) Acenaphthene-d10 | 14.334 | 164 | 2701 | 0.400 | ng | | -0.03 |
| 19) Phenanthrene-d10 | 17.087 | 188 | 5571 | 0.400 | ng | | -0.02 |
| 29) Chrysene-d12 | 21.268 | 240 | 4634 | 0.400 | ng | | -0.03 |
| 35) Perylene-d12 | 23.516 | 264 | 4032 | 0.400 | ng | | #-0.04 |
| System Monitoring Compounds | | | | | | | |
| 4) 2-Fluorophenol | 5.291 | 112 | 1521 | 0.357 | ng | | -0.02 |
| 5) Phenol-d6 | 6.872 | 99 | 1838 | 0.350 | ng | | -0.03 |
| 8) Nitrobenzene-d5 | 8.843 | 82 | 1689 | 0.346 | ng | | -0.03 |
| 11) 2-Methylnaphthalene-d10 | 12.075 | 152 | 2363 | 0.354 | ng | | -0.04 |
| 14) 2,4,6-Tribromophenol | 15.833 | 330 | 481 | 0.392 | ng | | -0.02 |
| 15) 2-Fluorobiphenyl | 12.963 | 172 | 5513 | 0.351 | ng | | -0.03 |
| 27) Fluoranthene-d10 | 19.118 | 212 | 5751 | 0.403 | ng | | -0.02 |
| 31) Terphenyl-d14 | 19.722 | 244 | 3623 | 0.326 | ng | | -0.02 |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.225 | 88 | 827 | 0.408 | ng | | 98 |
| 3) n-Nitrosodimethylamine | 3.543 | 42 | 1757 | 0.429 | ng | | 91 |
| 6) bis(2-Chloroethyl)ether | 7.125 | 93 | 1880 | 0.346 | ng | | 99 |
| 9) Naphthalene | 10.530 | 128 | 4740 | 0.359 | ng | | 99 |
| 10) Hexachlorobutadiene | 10.819 | 225 | 1160 | 0.373 | ng | # | 98 |
| 12) 2-Methylnaphthalene | 12.151 | 142 | 3044 | 0.362 | ng | | 98 |
| 16) Acenaphthylene | 14.056 | 152 | 4532 | 0.356 | ng | | 99 |
| 17) Acenaphthene | 14.398 | 154 | 3064 | 0.367 | ng | | 99 |
| 18) Fluorene | 15.393 | 166 | 4209 | 0.373 | ng | | 99 |
| 20) 4,6-Dinitro-2-methylph... | 15.478 | 198 | 395 | 0.423 | ng | # | 76 |
| 21) 4-Bromophenyl-phenylether | 16.280 | 248 | 1353 | 0.388 | ng | | 96 |
| 22) Hexachlorobenzene | 16.391 | 284 | 1582 | 0.375 | ng | | 97 |
| 23) Atrazine | 16.553 | 200 | 1090 | 0.389 | ng | | 97 |
| 24) Pentachlorophenol | 16.739 | 266 | 740 | 0.385 | ng | | 98 |
| 25) Phenanthrene | 17.124 | 178 | 6416 | 0.384 | ng | | 99 |
| 26) Anthracene | 17.223 | 178 | 5669 | 0.376 | ng | | 100 |
| 28) Fluoranthene | 19.146 | 202 | 7784 | 0.415 | ng | | 99 |
| 30) Pyrene | 19.513 | 202 | 7947 | 0.351 | ng | | 100 |
| 32) Benzo(a)anthracene | 21.259 | 228 | 5842 | 0.363 | ng | | 100 |
| 33) Chrysene | 21.304 | 228 | 6781 | 0.385 | ng | | 99 |
| 34) Bis(2-ethylhexyl)phtha... | 21.196 | 149 | 4355 | 0.380 | ng | # | 99 |
| 36) Indeno(1,2,3-cd)pyrene | 25.779 | 276 | 5407 | 0.372 | ng | | 94 |
| 37) Benzo(b)fluoranthene | 22.841 | 252 | 5627 | 0.383 | ng | | 97 |
| 38) Benzo(k)fluoranthene | 22.841 | 252 | 5627 | 0.366 | ng | | 96 |
| 39) Benzo(a)pyrene | 23.417 | 252 | 4993 | 0.404 | ng | | 95 |
| 40) Dibenzo(a,h)anthracene | 25.800 | 278 | 4150 | 0.366 | ng | | 93 |
| 41) Benzo(g,h,i)perylene | 26.469 | 276 | 4876 | 0.376 | ng | | 95 |

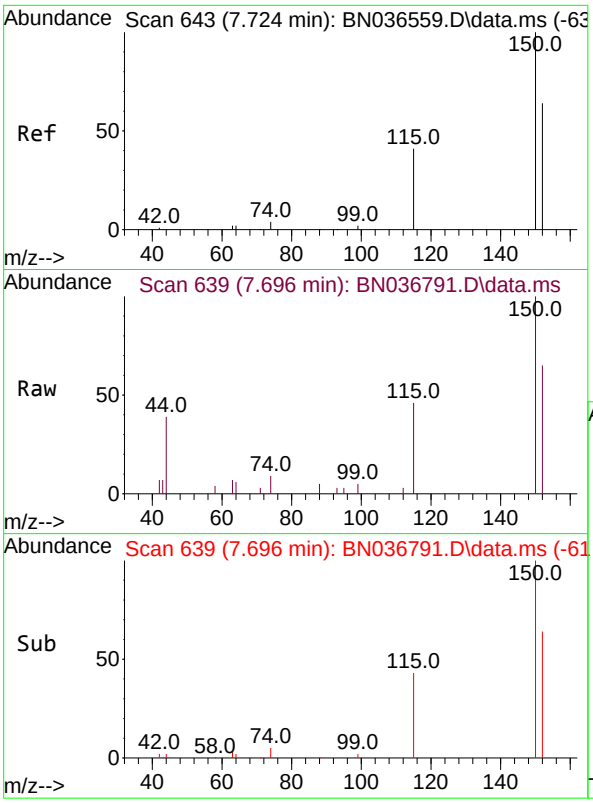
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032825\
Data File : BN036791.D
Acq On : 29 Mar 2025 02:44
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 22 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Quant Time: Mar 29 04:28:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration



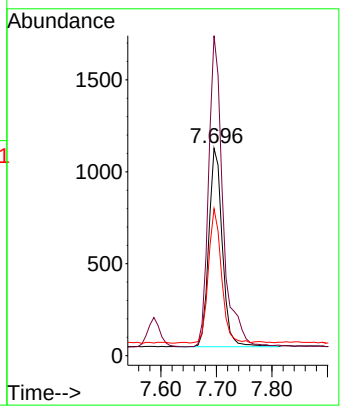


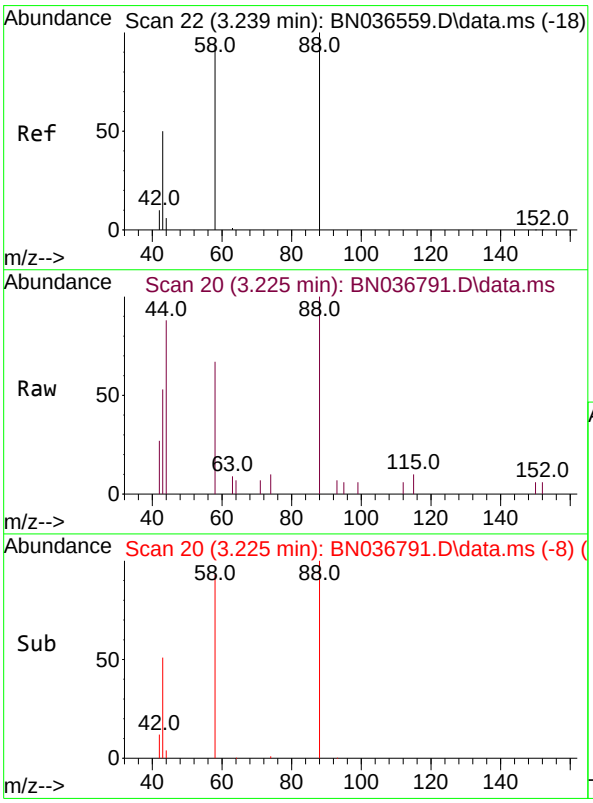

#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.696 min Scan# 6
Delta R.T. -0.028 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:152 Resp: 1826

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 154.3 | 123.7 | 185.5 |
| 115 | 70.9 | 54.3 | 81.5 |

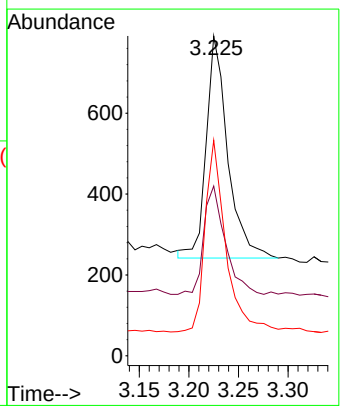


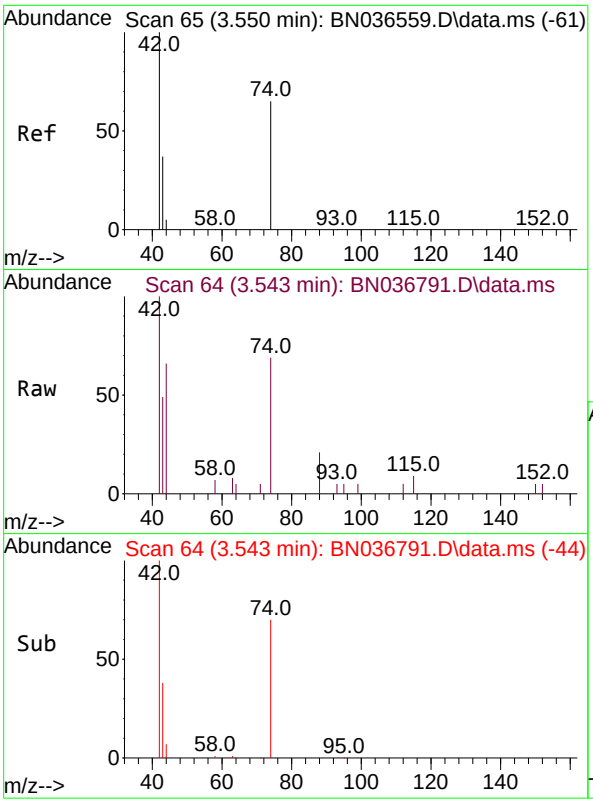




#2
1,4-Dioxane
Concen: 0.408 ng
RT: 3.225 min Scan# 20
Delta R.T. -0.014 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion: 88 Resp: 827

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 48.5 | 37.8 | 56.8 |
| 58 | 83.0 | 67.4 | 101.2 |



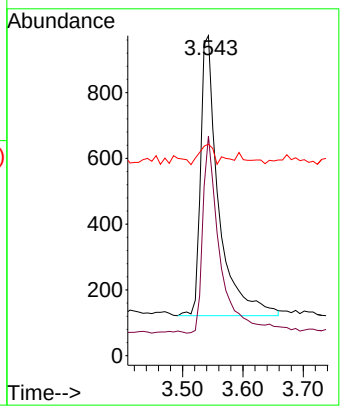


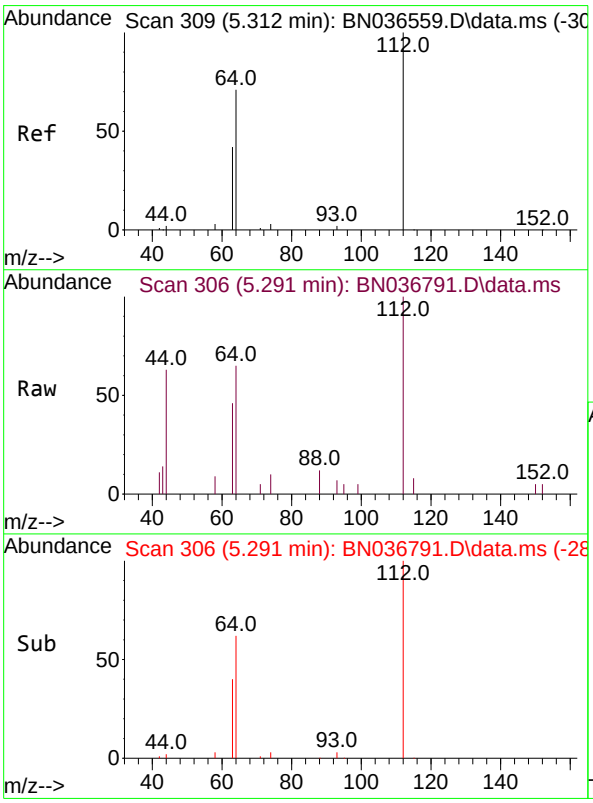

#3
n-Nitrosodimethylamine
Concen: 0.429 ng
RT: 3.543 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion: 42 Resp: 1757

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 67.4 | 60.6 | 90.8 |
| 44 | 6.6 | 6.3 | 9.5 |

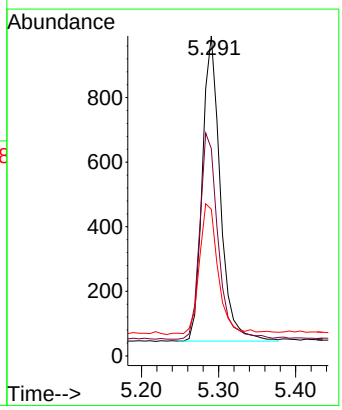


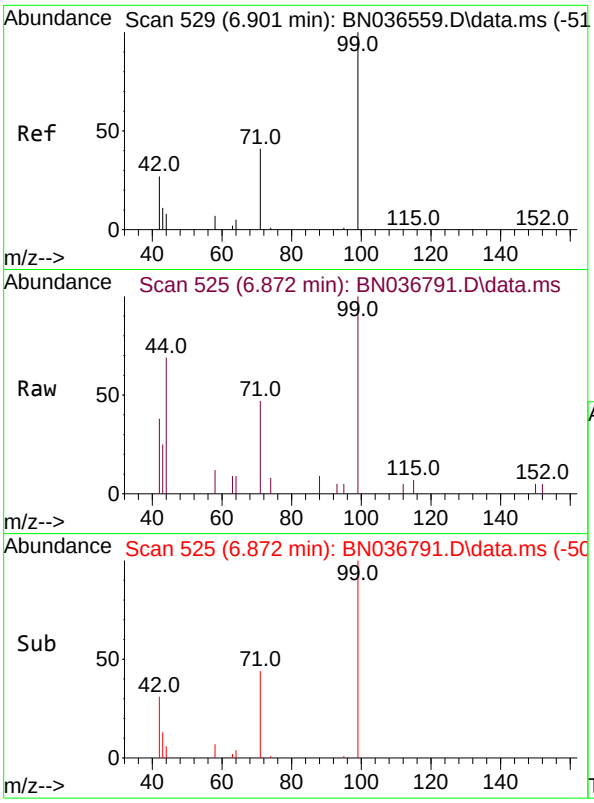




#4
2-Fluorophenol
Concen: 0.357 ng
RT: 5.291 min Scan# 306
Delta R.T. -0.021 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion:112 Resp: 1521

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 68.8 | 53.1 | 79.7 |
| 63 | 46.2 | 31.8 | 47.8 |



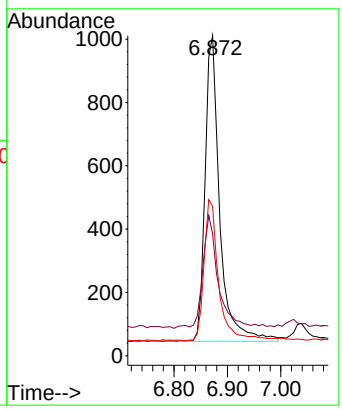


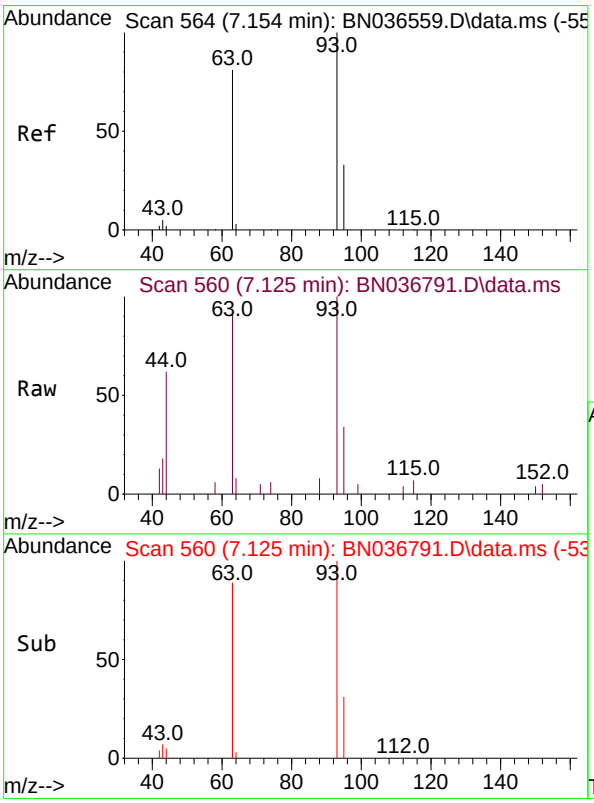

#5
Phenol-d6
Concen: 0.350 ng
RT: 6.872 min Scan# 5
Delta R.T. -0.029 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion: 99 Resp: 1838

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 38.7 | 26.5 | 39.7 |
| 71 | 46.1 | 34.1 | 51.1 |

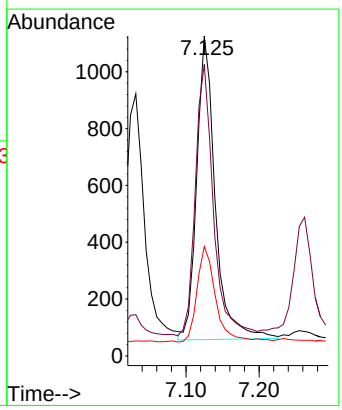


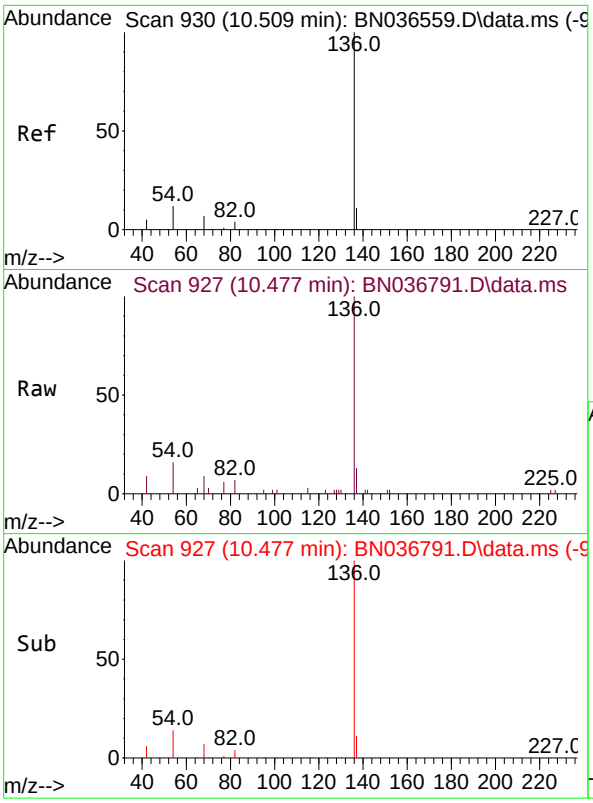




#6
bis(2-Chloroethyl)ether
Concen: 0.346 ng
RT: 7.125 min Scan# 560
Delta R.T. -0.029 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion: 93 Resp: 1880

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 85.9 | 67.7 | 101.5 |
| 95 | 31.5 | 25.6 | 38.4 |



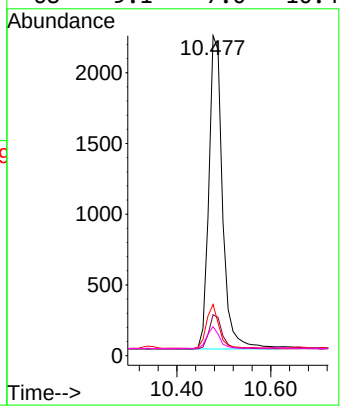


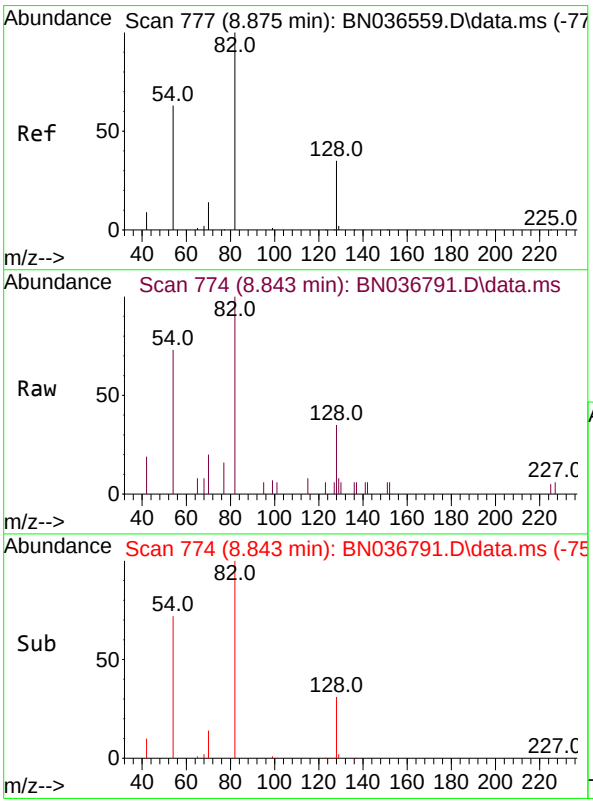

#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.477 min Scan# 9
Delta R.T. -0.032 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:136 Resp: 4490

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 12.8 | 10.3 | 15.5 |
| 54 | 16.0 | 11.5 | 17.3 |
| 68 | 9.1 | 7.0 | 10.4 |

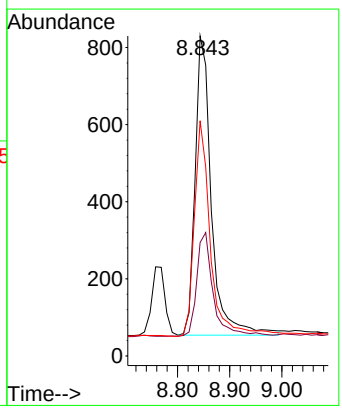


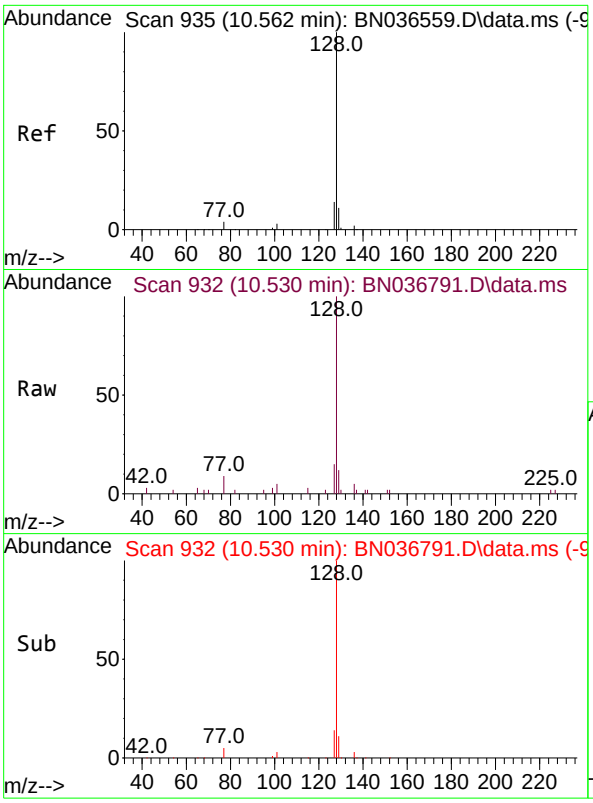




#8
Nitrobenzene-d5
Concen: 0.346 ng
RT: 8.843 min Scan# 774
Delta R.T. -0.032 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion: 82 Resp: 1689

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 35.4 | 30.6 | 45.8 |
| 54 | 73.5 | 52.2 | 78.4 |



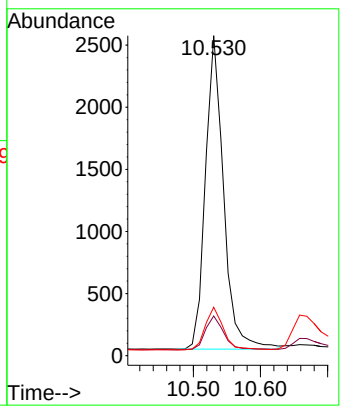


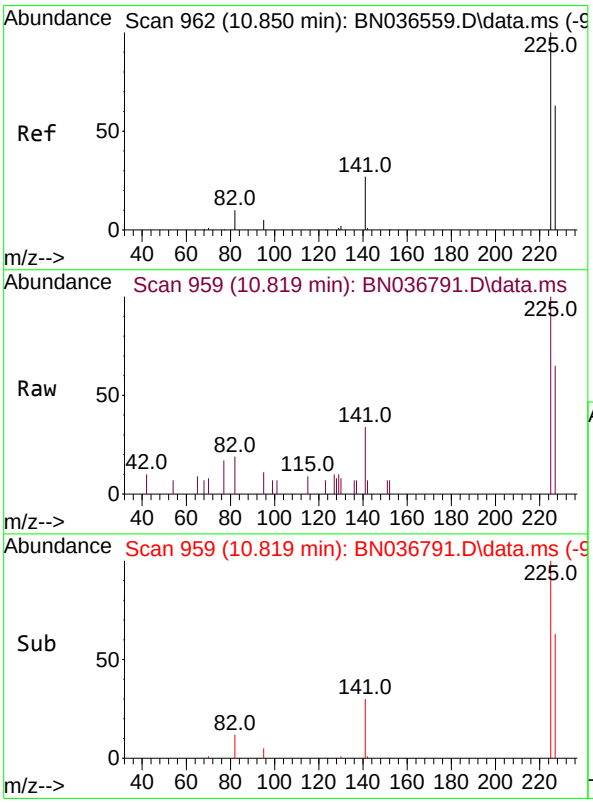

#9
Naphthalene
Concen: 0.359 ng
RT: 10.530 min Scan# 9
Delta R.T. -0.032 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:128 Resp: 4740

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 12.4 | 9.8 | 14.6 |
| 127 | 15.2 | 11.8 | 17.8 |

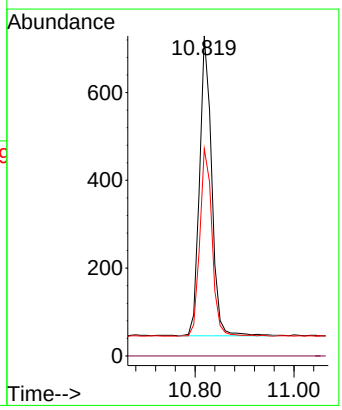


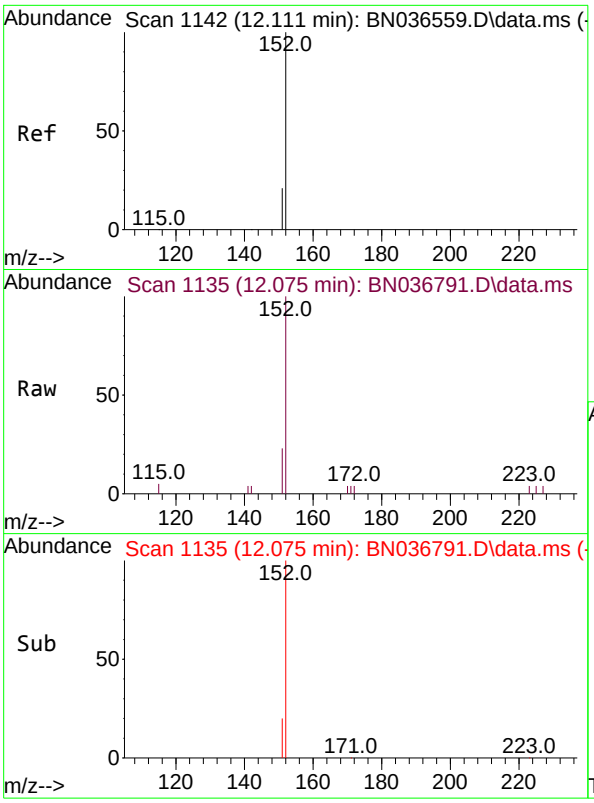




#10
Hexachlorobutadiene
Concen: 0.373 ng
RT: 10.819 min Scan# 959
Delta R.T. -0.032 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion:225 Resp: 1160

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 0.0 | 0.0 | 0.0 |
| 227 | 63.4 | 51.8 | 77.8 |



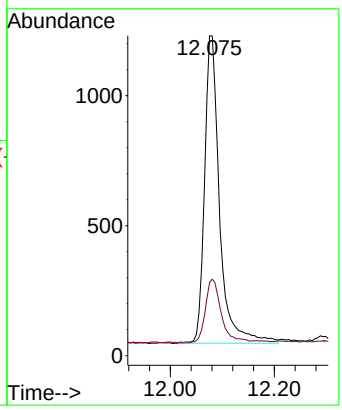


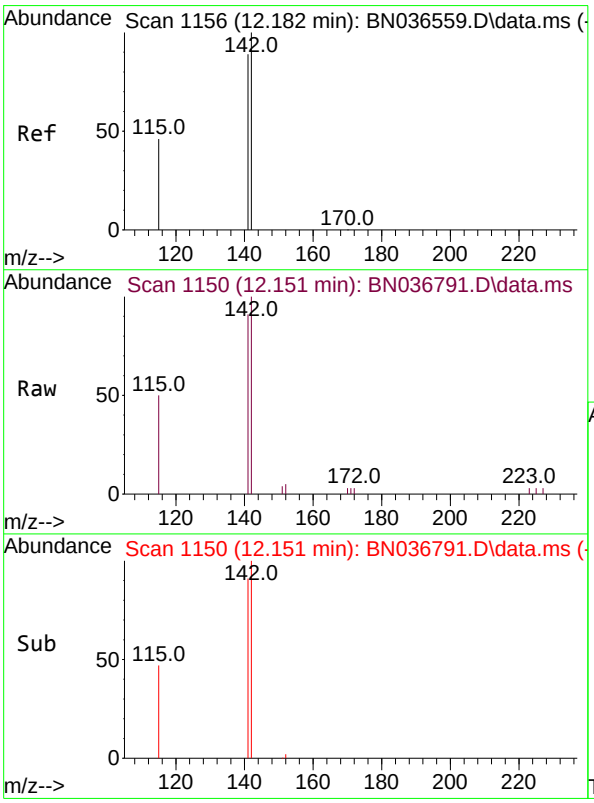

#11
2-Methylnaphthalene-d10
Concen: 0.354 ng
RT: 12.075 min Scan# 11
Delta R.T. -0.035 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:152 Resp: 2363

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 21.9 | 17.0 | 25.6 |

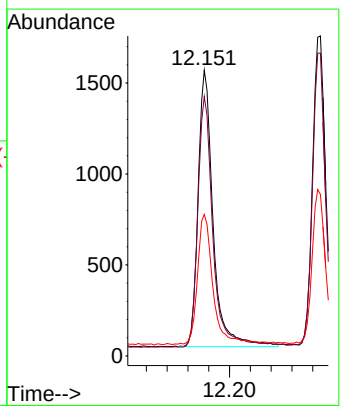


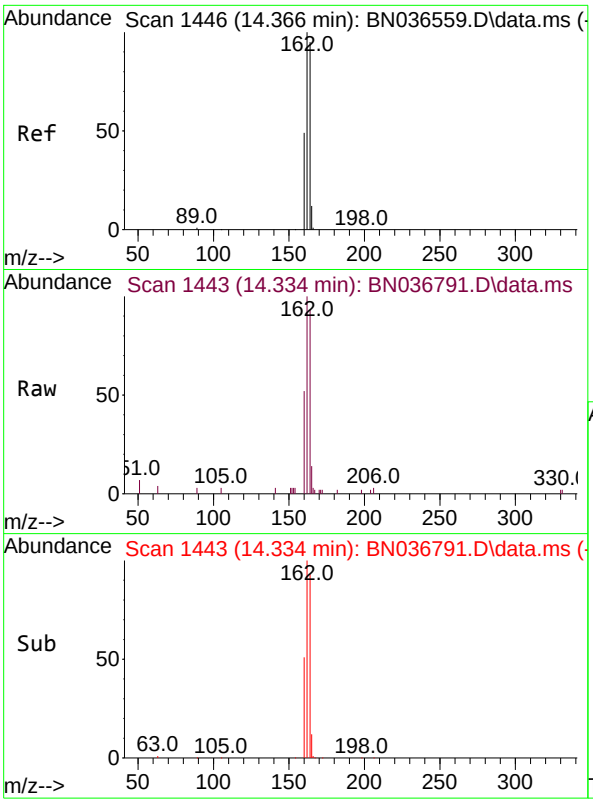




#12
2-Methylnaphthalene
Concen: 0.362 ng
RT: 12.151 min Scan# 1150
Delta R.T. -0.030 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion:142 Resp: 3044

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 90.8 | 71.7 | 107.5 |
| 115 | 49.5 | 38.3 | 57.5 |



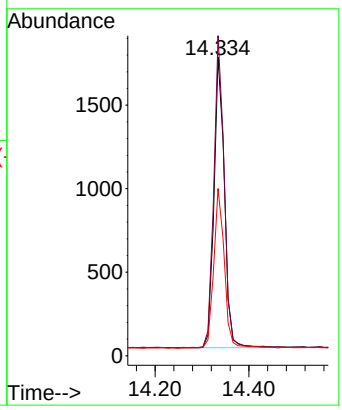


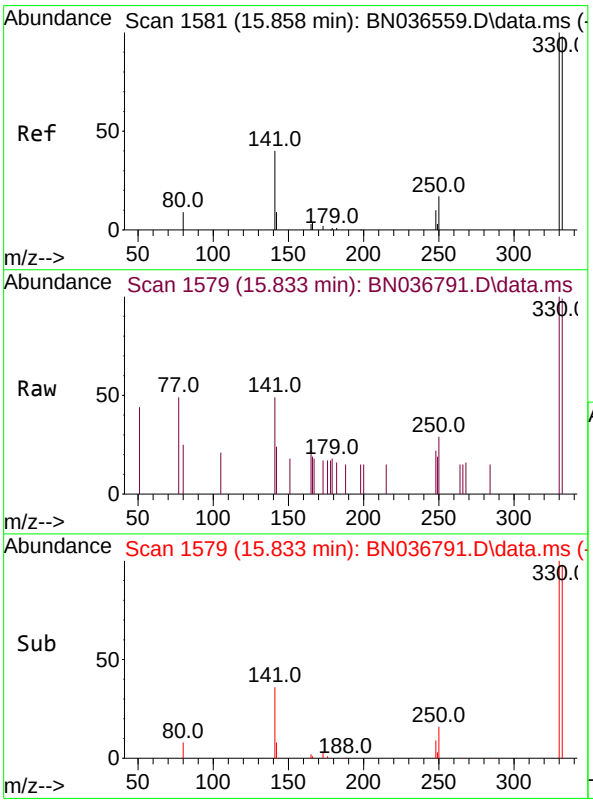

#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.334 min Scan# 14
Delta R.T. -0.032 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:164 Resp: 2701

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 107.1 | 84.2 | 126.2 |
| 160 | 56.0 | 42.2 | 63.2 |

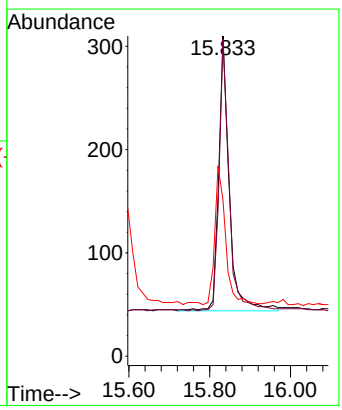


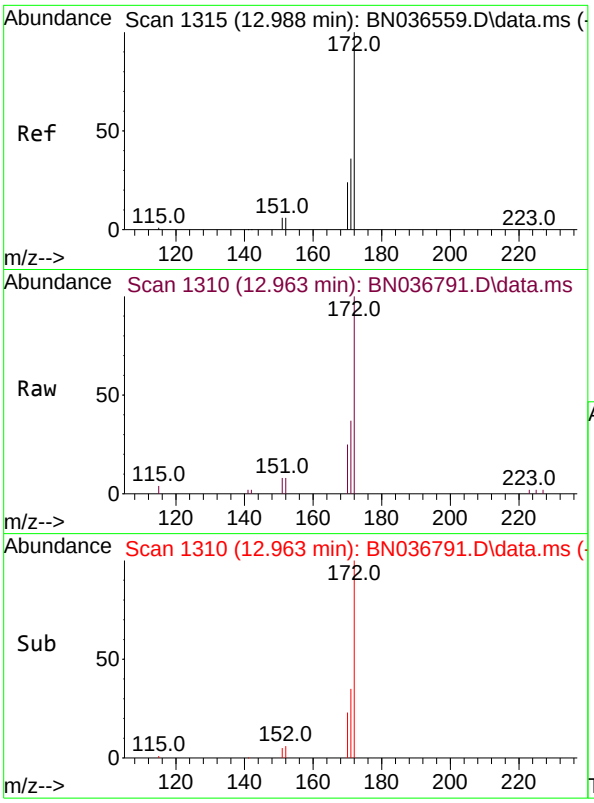




#14
2,4,6-Tribromophenol
Concen: 0.392 ng
RT: 15.833 min Scan# 1579
Delta R.T. -0.025 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion:330 Resp: 481

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 94.4 | 75.2 | 112.8 |
| 141 | 51.4 | 43.4 | 65.2 |



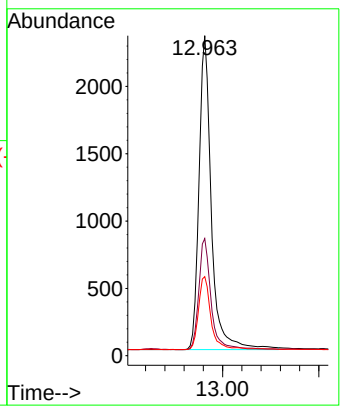


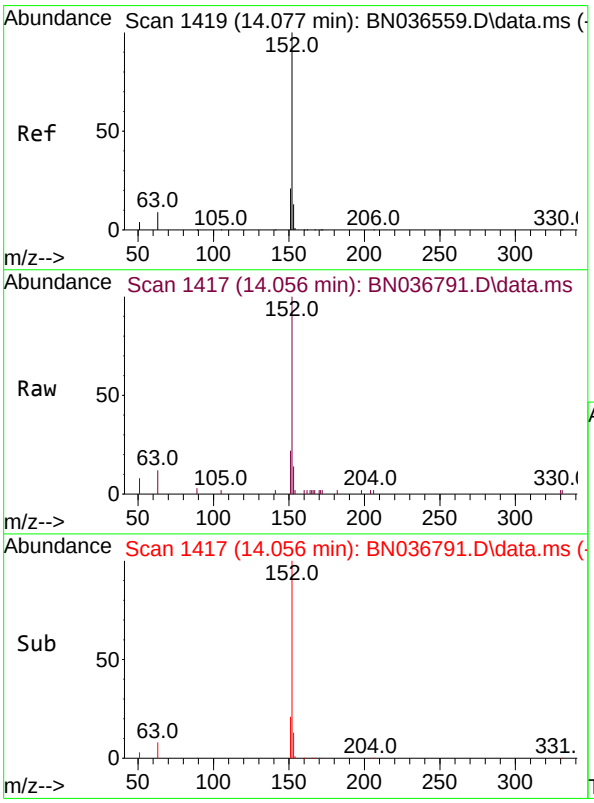

#15
2-Fluorobiphenyl
Concen: 0.351 ng
RT: 12.963 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:172 Resp: 5513

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 36.6 | 29.5 | 44.3 |
| 170 | 24.7 | 20.2 | 30.4 |

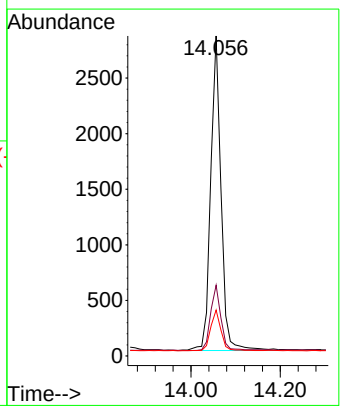


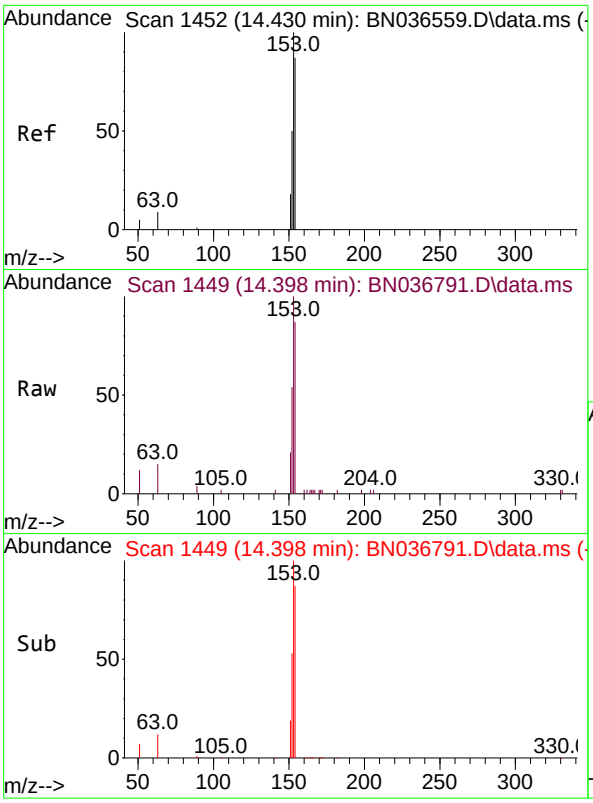




#16
Acenaphthylene
Concen: 0.356 ng
RT: 14.056 min Scan# 1417
Delta R.T. -0.021 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion:152 Resp: 4532

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 21.1 | 16.2 | 24.4 |
| 153 | 13.0 | 10.6 | 15.8 |



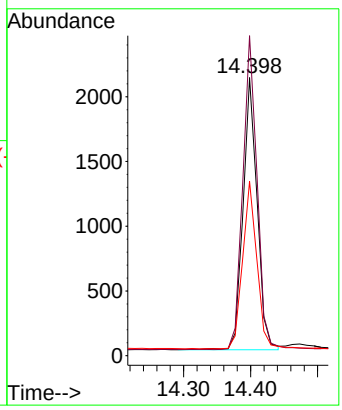


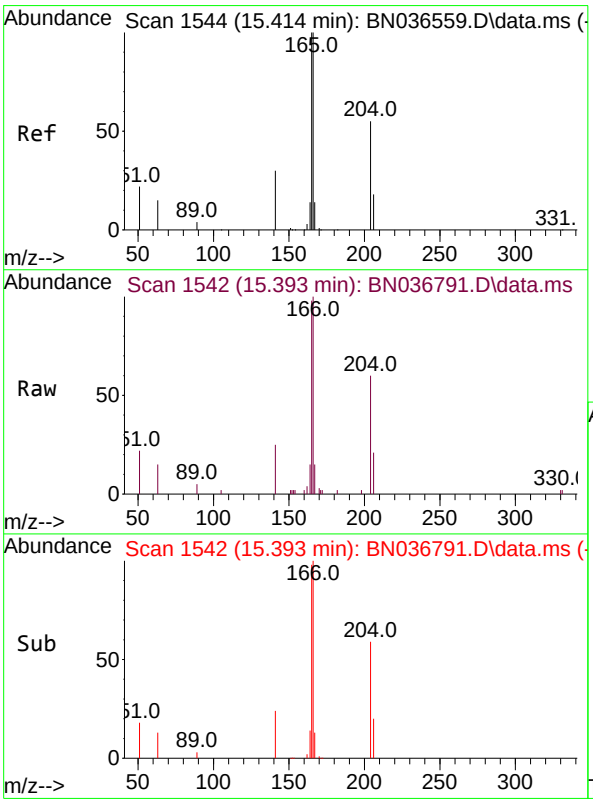

#17
Acenaphthene
Concen: 0.367 ng
RT: 14.398 min Scan# 14
Delta R.T. -0.032 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:154 Resp: 3064

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 118.0 | 94.1 | 141.1 |
| 152 | 62.9 | 49.8 | 74.6 |

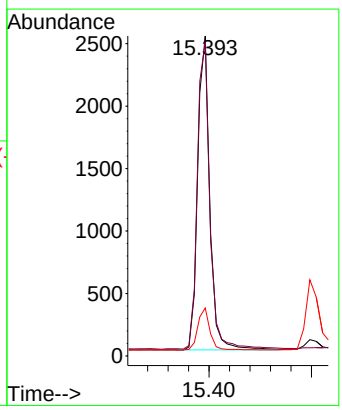


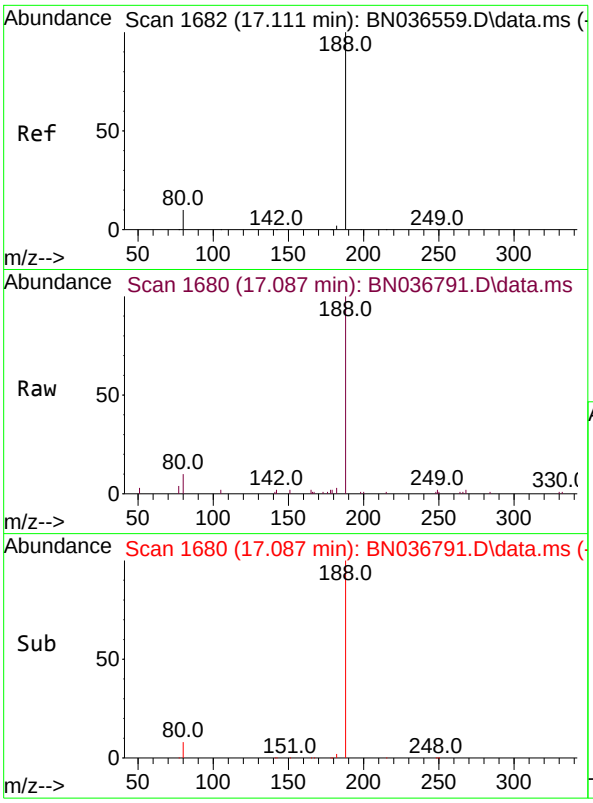




#18
Fluorene
Concen: 0.373 ng
RT: 15.393 min Scan# 1542
Delta R.T. -0.021 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion:166 Resp: 4209

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 101.0 | 79.8 | 119.8 |
| 167 | 13.4 | 10.6 | 15.8 |



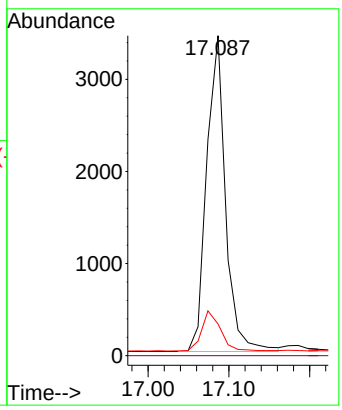


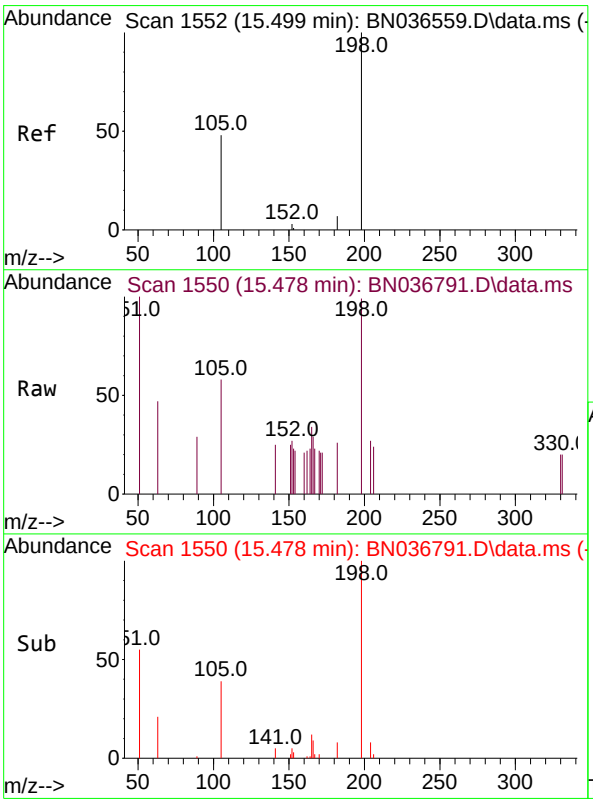

#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.087 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:188 Resp: 5571

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 9.9 | 8.8 | 13.2 |

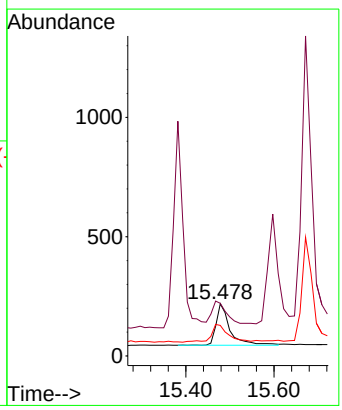


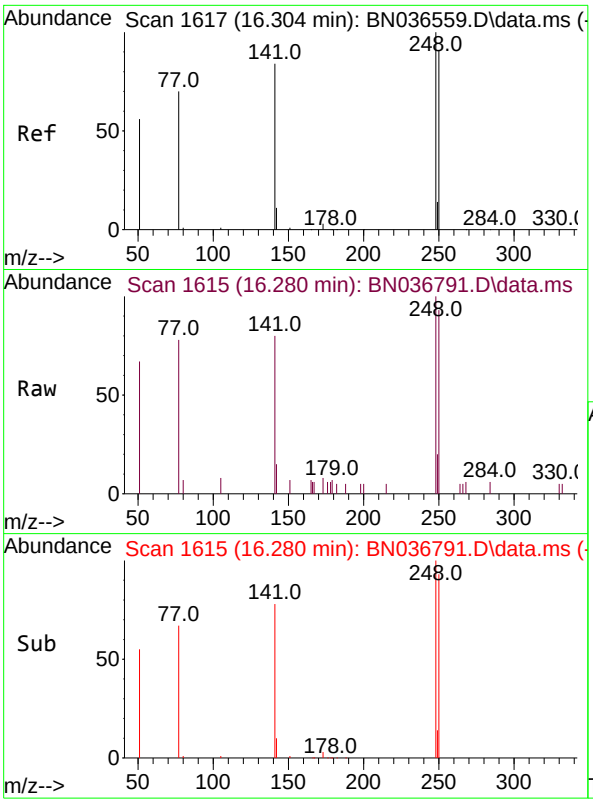




#20
4,6-Dinitro-2-methylphenol
Concen: 0.423 ng
RT: 15.478 min Scan# 1550
Delta R.T. -0.021 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion:198 Resp: 395

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 198 | 100 | | |
| 51 | 100.9 | 107.9 | 161.9# |
| 105 | 58.4 | 56.2 | 84.2 |



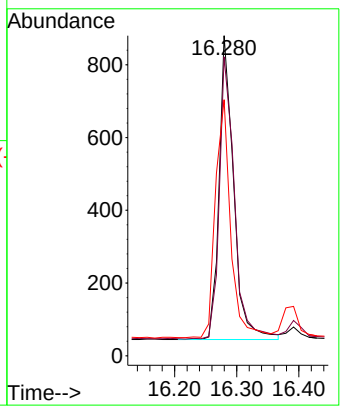


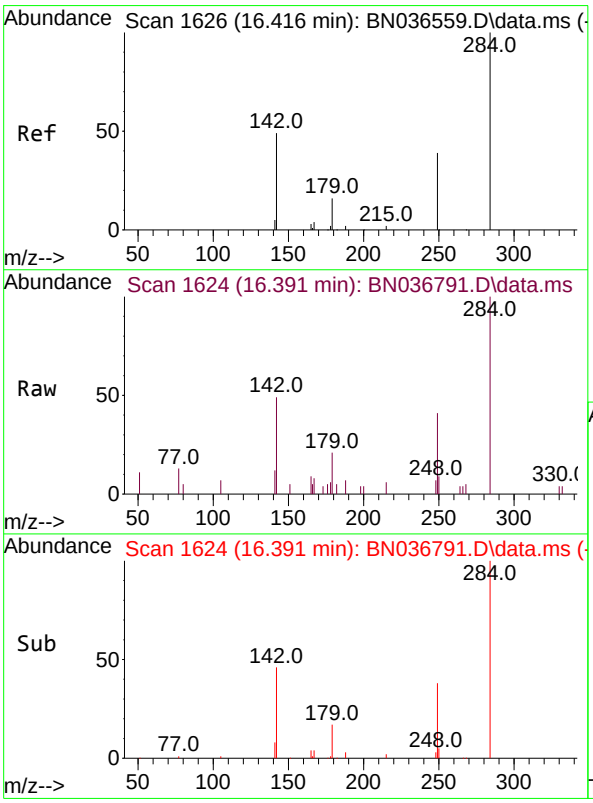

#21
4-Bromophenyl-phenylether
Concen: 0.388 ng
RT: 16.280 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:248 Resp: 1353

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 93.4 | 73.0 | 109.6 |
| 141 | 80.0 | 68.6 | 103.0 |

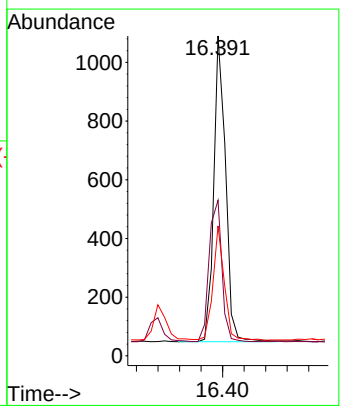


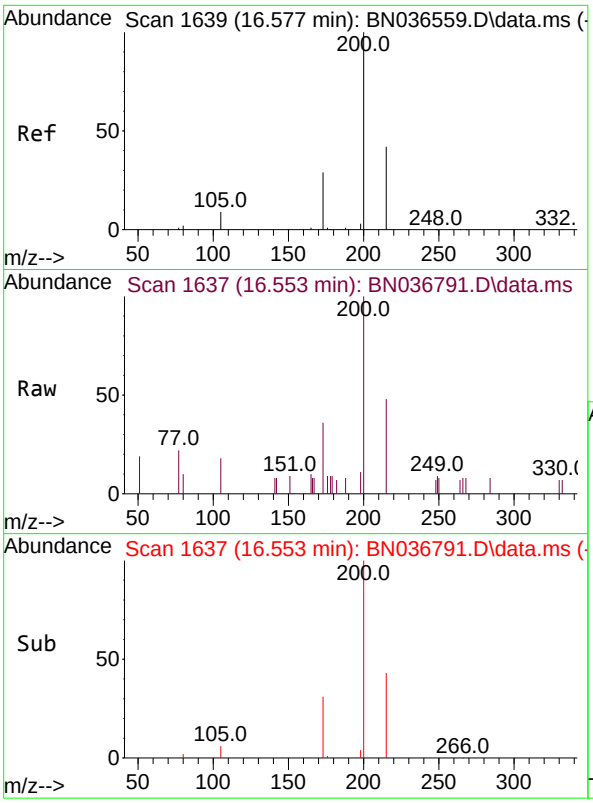




#22
Hexachlorobenzene
Concen: 0.375 ng
RT: 16.391 min Scan# 1624
Delta R.T. -0.025 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion:284 Resp: 1582

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 49.7 | 37.0 | 55.4 |
| 249 | 35.6 | 28.1 | 42.1 |



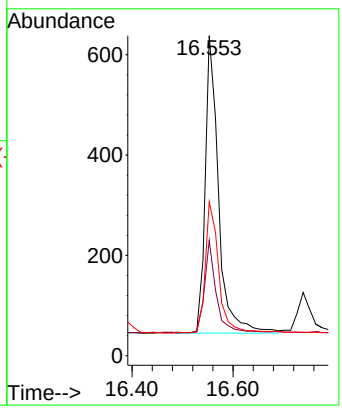


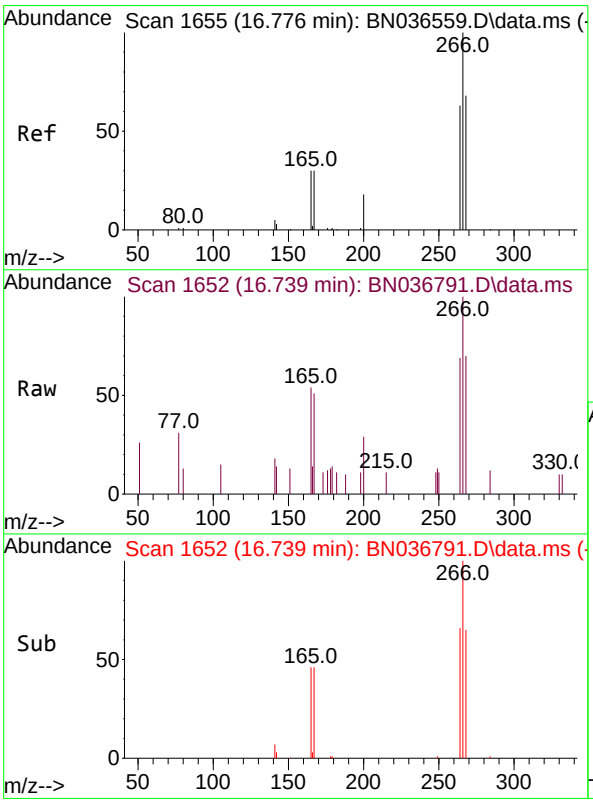

#23
Atrazine
Concen: 0.389 ng
RT: 16.553 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:200 Resp: 1090

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 173 | 36.1 | 27.3 | 40.9 |
| 215 | 48.1 | 36.8 | 55.2 |

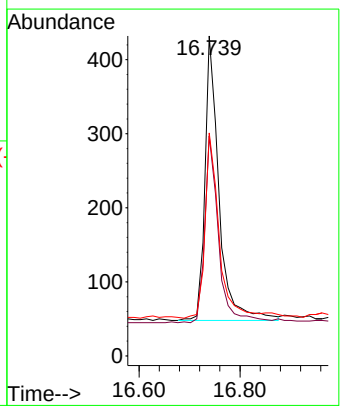


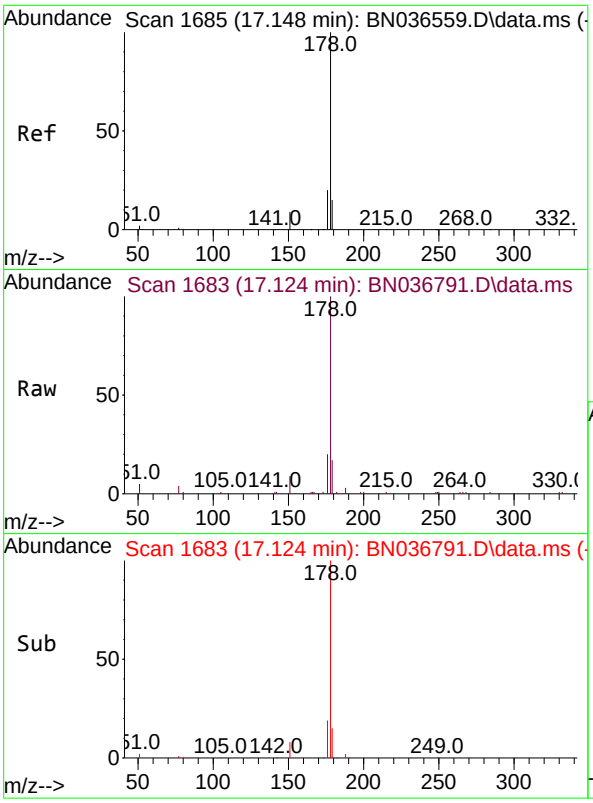




#24
Pentachlorophenol
Concen: 0.385 ng
RT: 16.739 min Scan# 1652
Delta R.T. -0.037 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion:266 Resp: 740

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 264 | 64.5 | 49.6 | 74.4 |
| 268 | 64.9 | 50.9 | 76.3 |



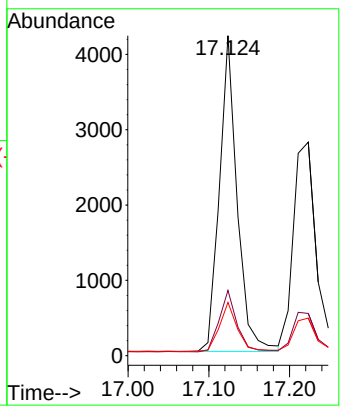


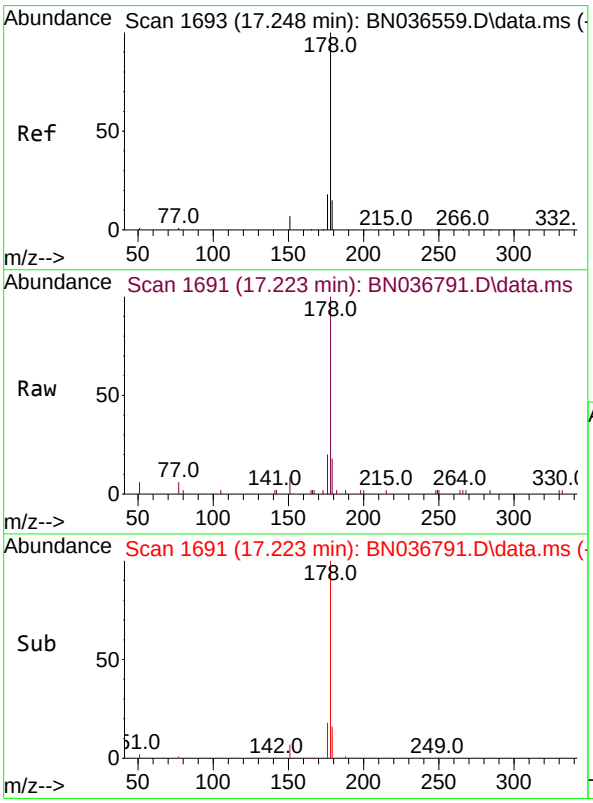

#25
Phenanthrene
Concen: 0.384 ng
RT: 17.124 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:178 Resp: 6416

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.3 | 15.9 | 23.9 |
| 179 | 16.0 | 12.2 | 18.4 |

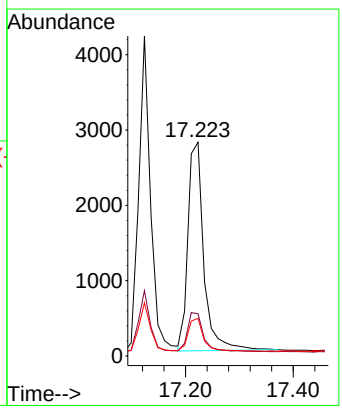


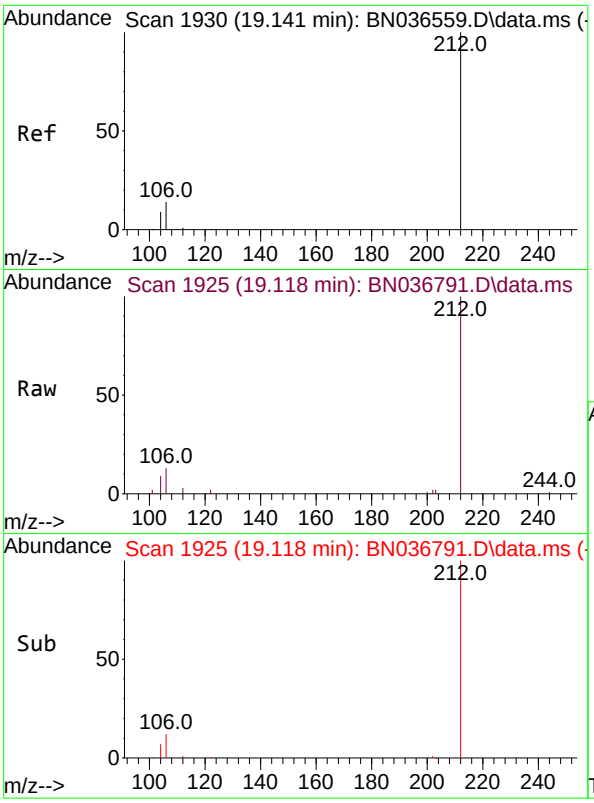




#26
Anthracene
Concen: 0.376 ng
RT: 17.223 min Scan# 1691
Delta R.T. -0.025 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion:178 Resp: 5669

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.2 | 15.4 | 23.2 |
| 179 | 15.5 | 12.6 | 18.8 |



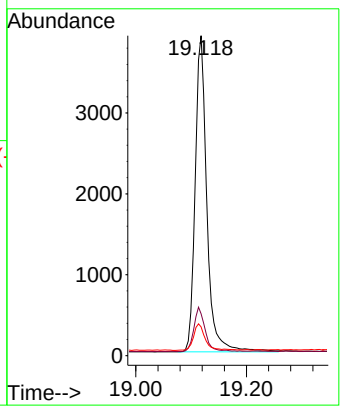


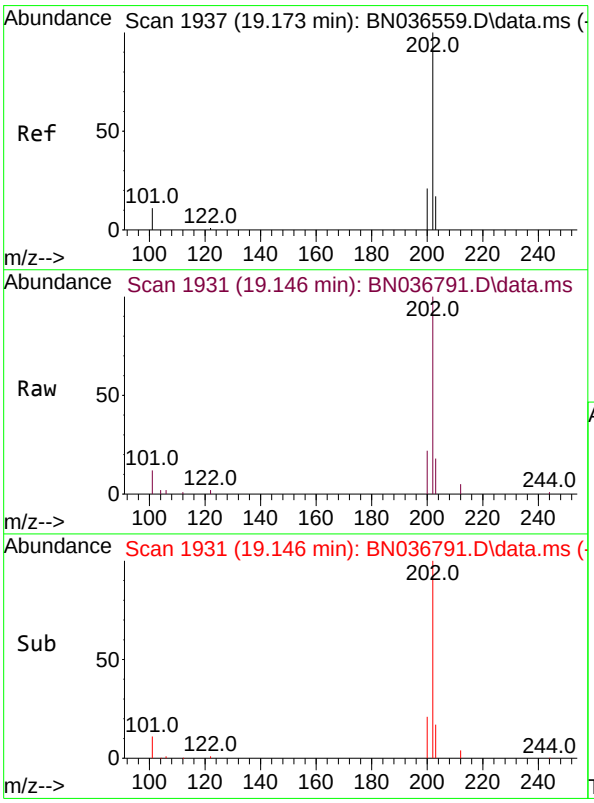

#27
Fluoranthene-d10
Concen: 0.403 ng
RT: 19.118 min Scan# 1
Delta R.T. -0.023 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:212 Resp: 5751

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 13.2 | 11.8 | 17.6 |
| 104 | 8.6 | 7.3 | 10.9 |

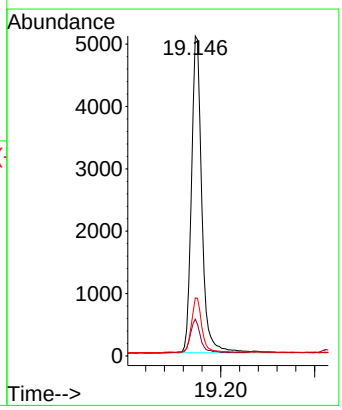


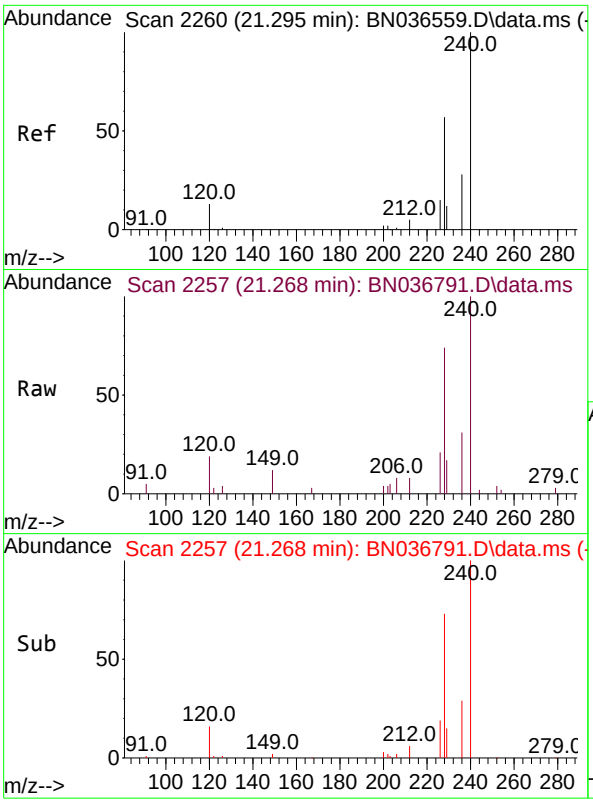




#28
Fluoranthene
Concen: 0.415 ng
RT: 19.146 min Scan# 1931
Delta R.T. -0.028 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion:202 Resp: 7784

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 10.4 | 9.4 | 14.0 |
| 203 | 16.9 | 13.5 | 20.3 |



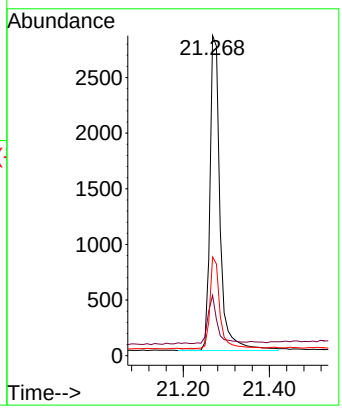


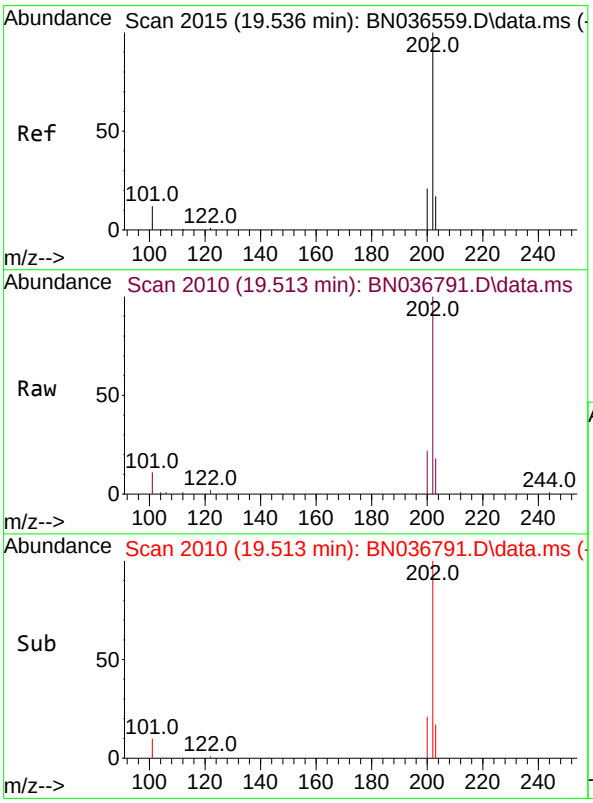

#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.268 min Scan# 2
Delta R.T. -0.027 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:240 Resp: 4634

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 18.8 | 14.6 | 22.0 |
| 236 | 30.8 | 24.1 | 36.1 |

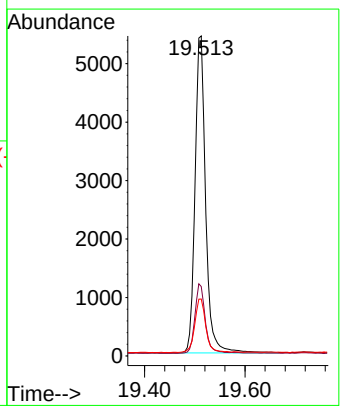


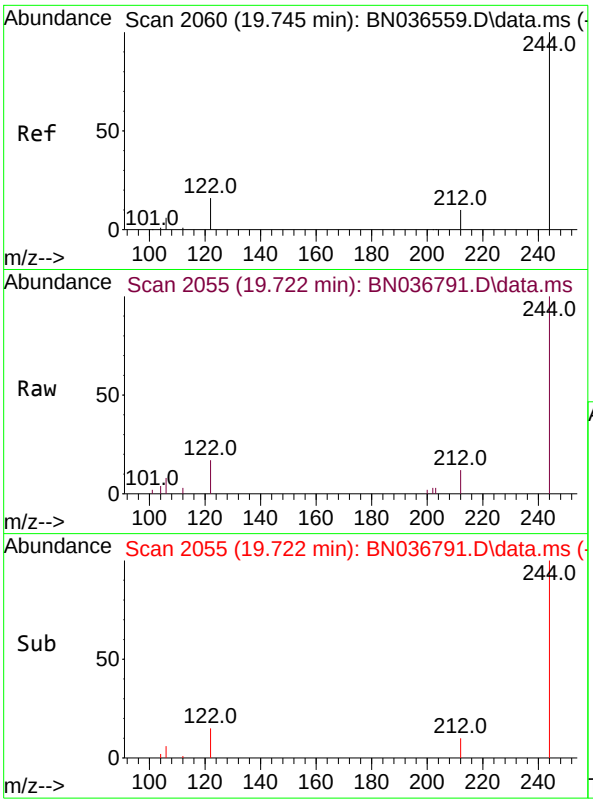




#30
Pyrene
Concen: 0.351 ng
RT: 19.513 min Scan# 2010
Delta R.T. -0.023 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion:202 Resp: 7947

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.4 | 17.1 | 25.7 |
| 203 | 17.5 | 14.1 | 21.1 |



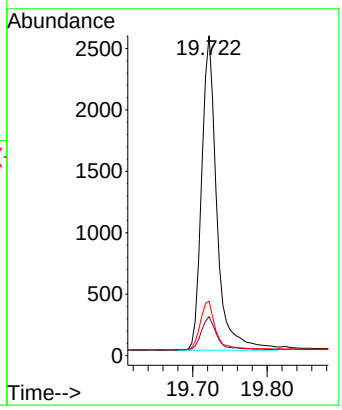


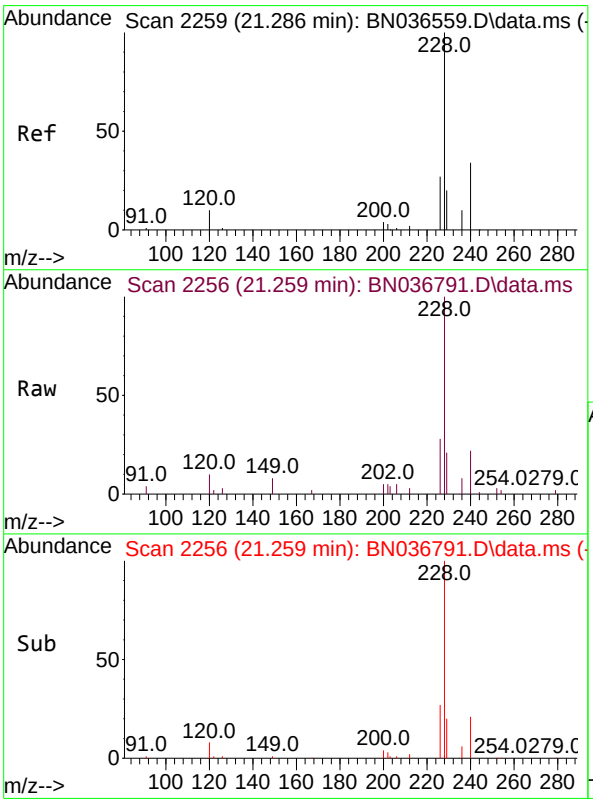

#31
Terphenyl-d14
Concen: 0.326 ng
RT: 19.722 min Scan# 2
Delta R.T. -0.023 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:244 Resp: 3623

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 12.2 | 9.6 | 14.4 |
| 122 | 17.0 | 13.9 | 20.9 |

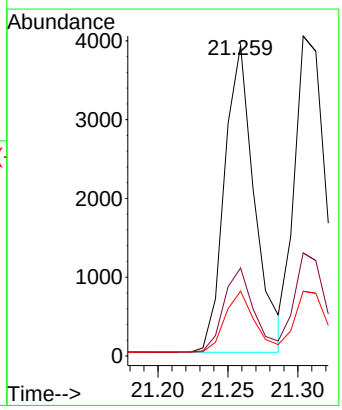


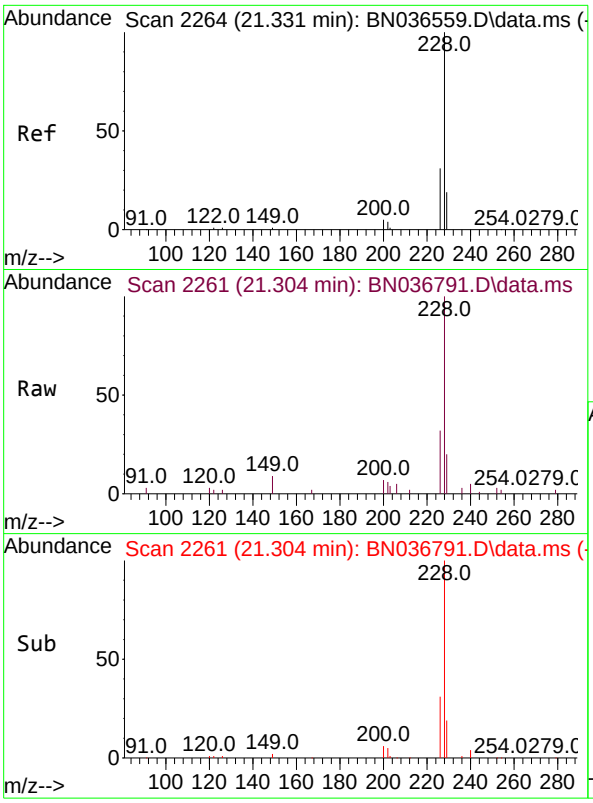




#32
Benzo(a)anthracene
Concen: 0.363 ng
RT: 21.259 min Scan# 2256
Delta R.T. -0.027 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion:228 Resp: 5842

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 28.3 | 22.5 | 33.7 |
| 229 | 20.9 | 16.6 | 25.0 |



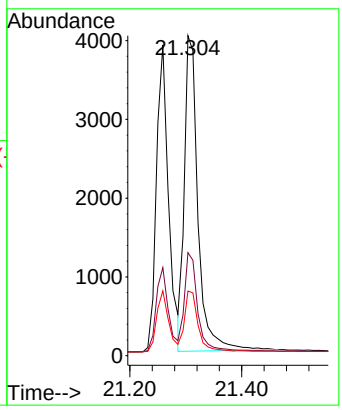


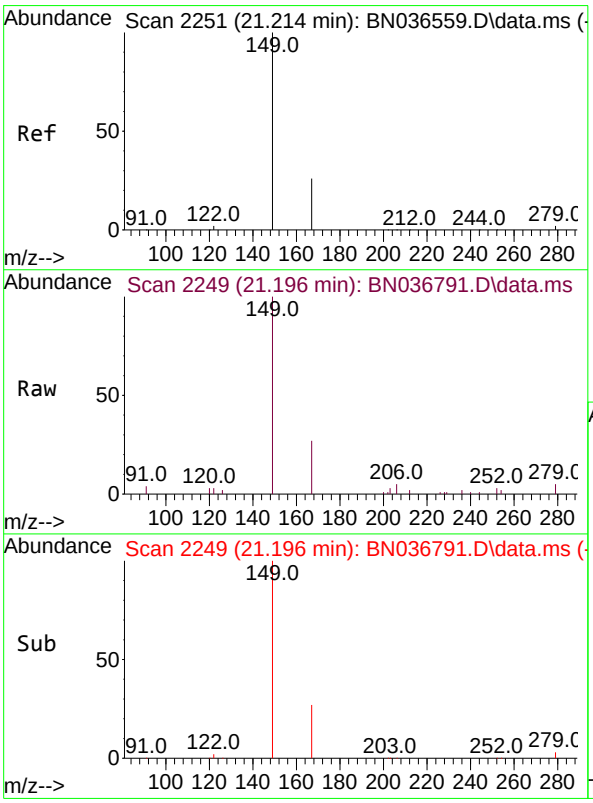

#33
Chrysene
Concen: 0.385 ng
RT: 21.304 min Scan# 2
Delta R.T. -0.027 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:228 Resp: 6781

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 32.2 | 25.3 | 37.9 |
| 229 | 20.2 | 15.8 | 23.8 |

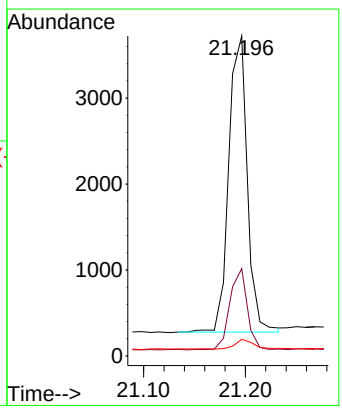


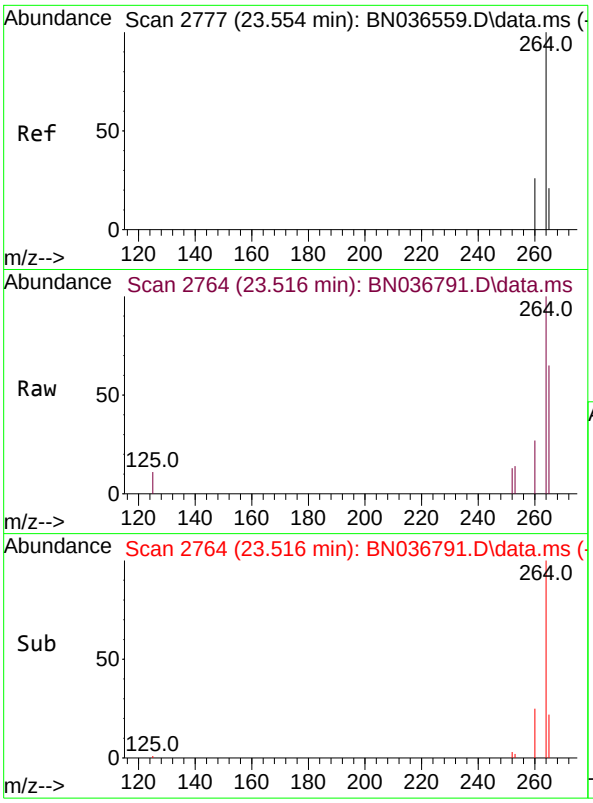




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.380 ng
RT: 21.196 min Scan# 2249
Delta R.T. -0.018 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion:149 Resp: 4355

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 25.9 | 20.7 | 31.1 |
| 279 | 3.3 | 3.6 | 5.4# |



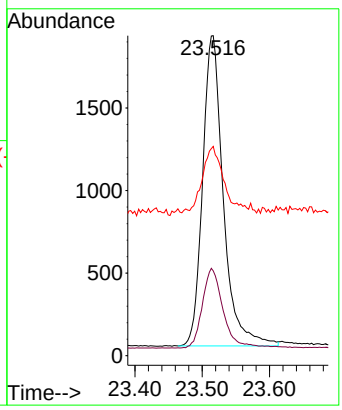


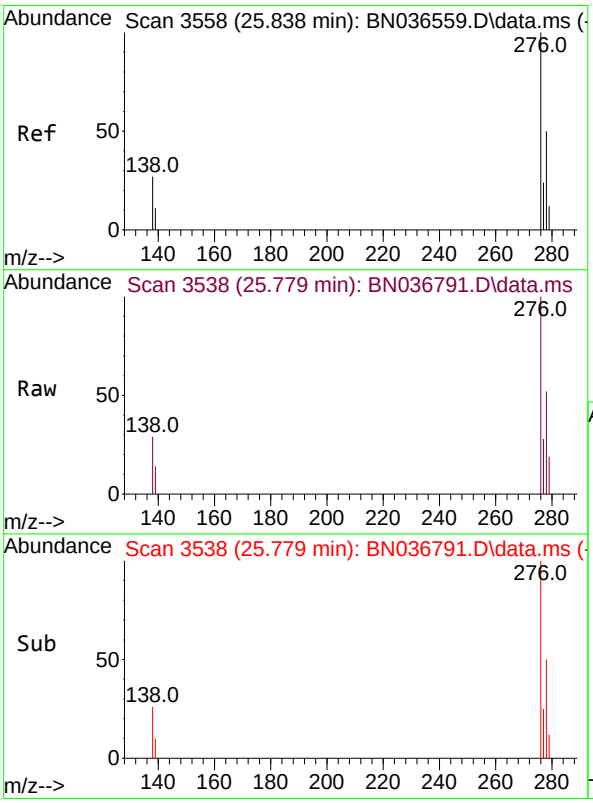

#35
Perylene-d12
Concen: 0.400 ng
RT: 23.516 min Scan# 2
Delta R.T. -0.038 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:264 Resp: 4032

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 26.5 | 22.6 | 33.8 |
| 265 | 65.4 | 88.1 | 132.1# |

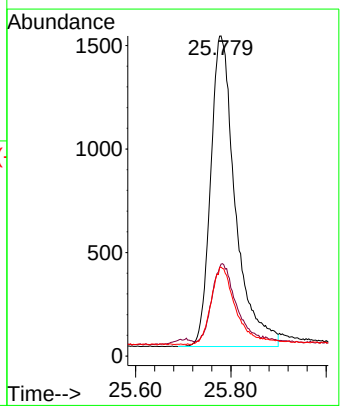


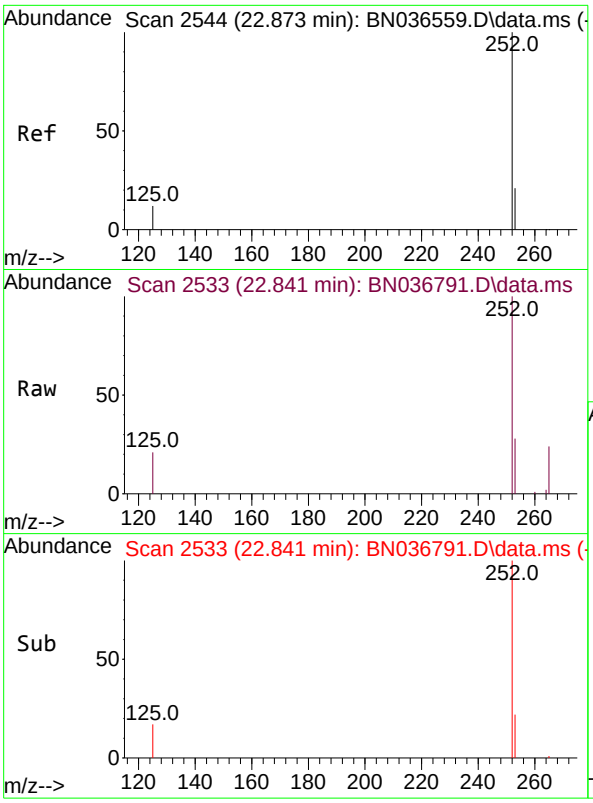




#36
Indeno(1,2,3-cd)pyrene
Concen: 0.372 ng
RT: 25.779 min Scan# 3538
Delta R.T. -0.058 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion:276 Resp: 5407

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 24.1 | 23.4 | 35.2 |
| 277 | 25.4 | 20.0 | 30.0 |



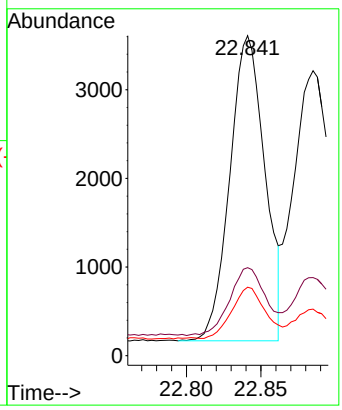


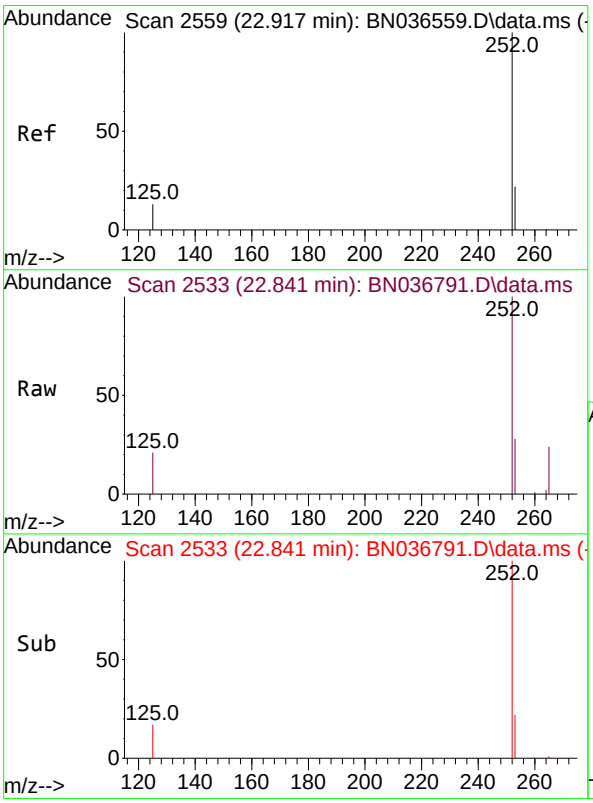

#37
Benzo(b)fluoranthene
Concen: 0.383 ng
RT: 22.841 min Scan# 2
Delta R.T. -0.032 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:252 Resp: 5627

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 27.5 | 23.9 | 35.9 |
| 125 | 21.4 | 17.4 | 26.2 |

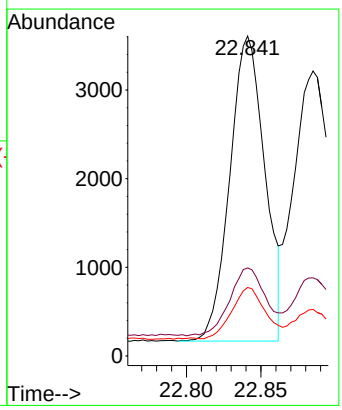


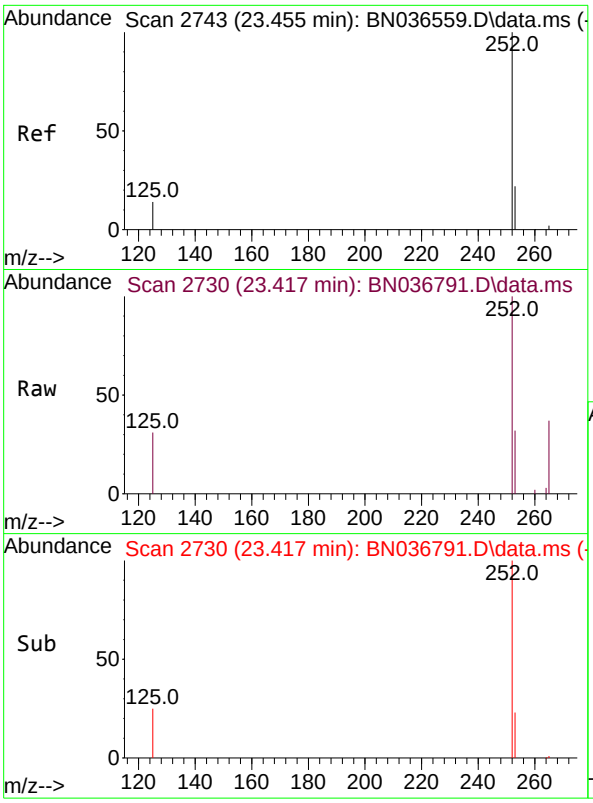




#38
Benzo(k)fluoranthene
Concen: 0.366 ng
RT: 22.841 min Scan# 2533
Delta R.T. -0.076 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion:252 Resp: 5627

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 27.5 | 24.6 | 36.8 |
| 125 | 21.4 | 17.8 | 26.8 |



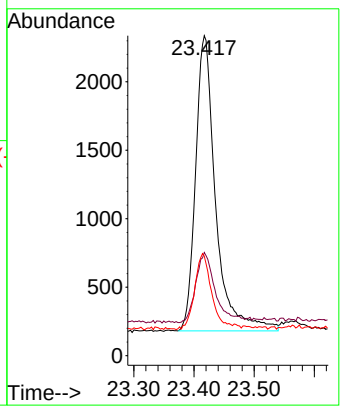


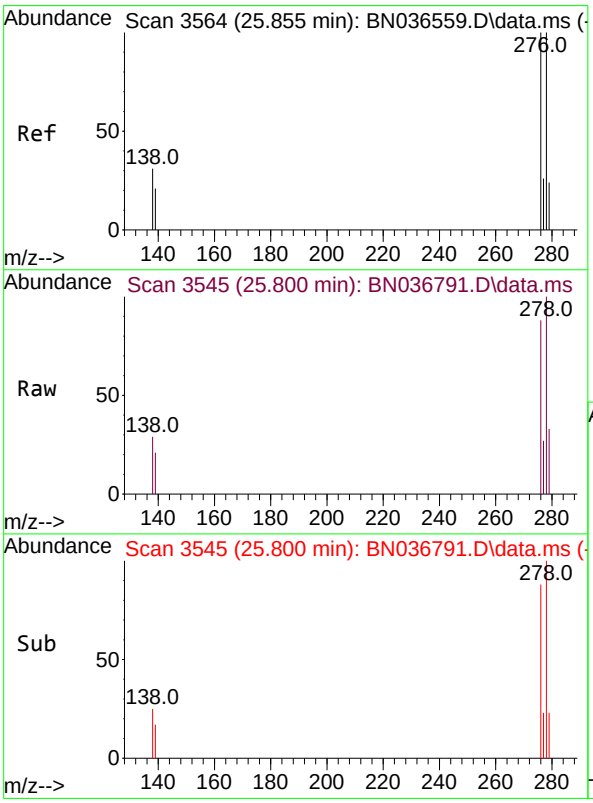

#39
Benzo(a)pyrene
Concen: 0.404 ng
RT: 23.417 min Scan# 2
Delta R.T. -0.038 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:252 Resp: 4993

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 32.3 | 27.8 | 41.8 |
| 125 | 31.1 | 22.7 | 34.1 |

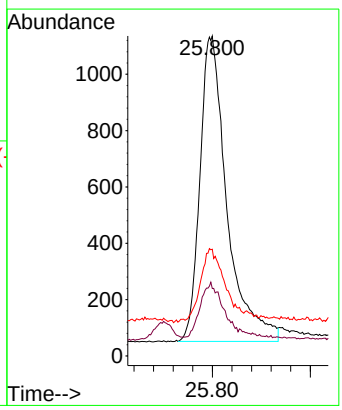


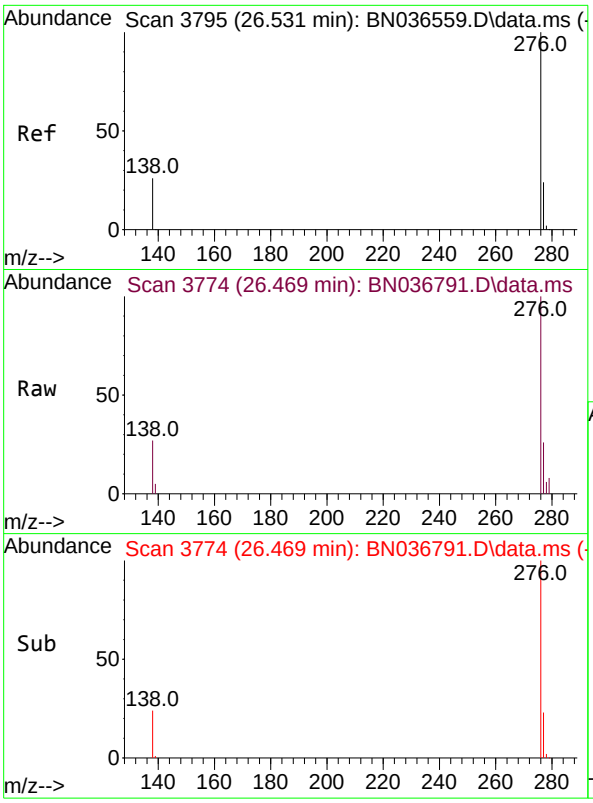




#40
Dibenzo(a,h)anthracene
Concen: 0.366 ng
RT: 25.800 min Scan# 3545
Delta R.T. -0.055 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion:278 Resp: 4150

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 21.1 | 20.8 | 31.2 |
| 279 | 33.4 | 28.8 | 43.2 |



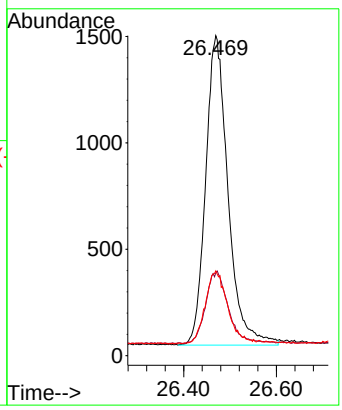



#41
Benzo(g,h,i)perylene
Concen: 0.376 ng
RT: 26.469 min Scan# 3
Delta R.T. -0.061 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:276 Resp: 4876

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 25.9 | 22.2 | 33.4 |
| 138 | 26.5 | 24.1 | 36.1 |



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032825\
Data File : BN036803.D
Acq On : 29 Mar 2025 09:57
Operator : RC/JU
Sample : Q1629-07
Misc :
ALS Vial : 34 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01D1-20250320

Quant Time: Mar 31 01:59:55 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

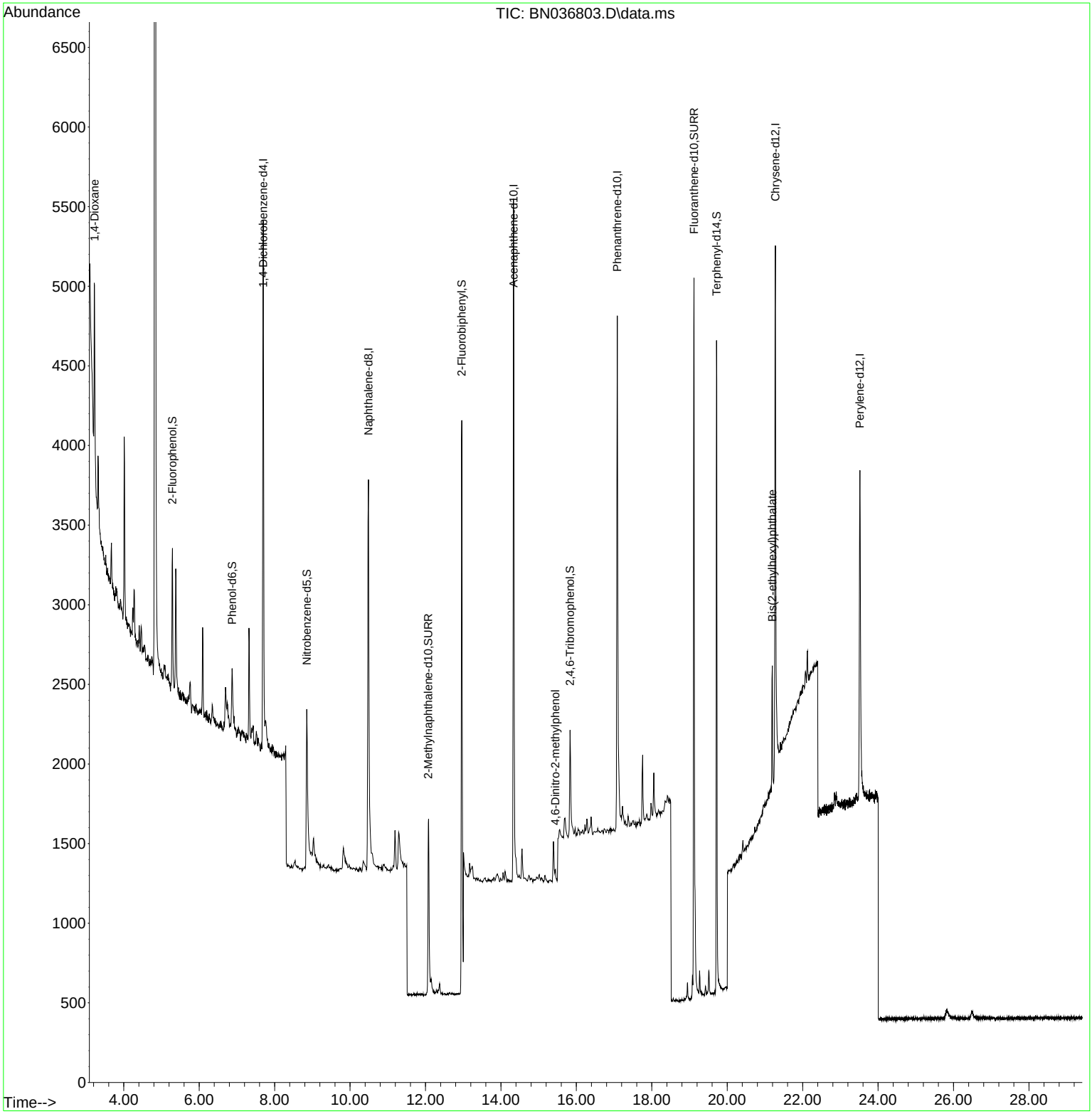
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.696 | 152 | 1719 | 0.400 | ng | -0.03 |
| 7) Naphthalene-d8 | 10.487 | 136 | 4159 | 0.400 | ng | -0.02 |
| 13) Acenaphthene-d10 | 14.334 | 164 | 2581 | 0.400 | ng | -0.03 |
| 19) Phenanthrene-d10 | 17.086 | 188 | 5278 | 0.400 | ng | -0.02 |
| 29) Chrysene-d12 | 21.277 | 240 | 3898 | 0.400 | ng | #-0.02 |
| 35) Perylene-d12 | 23.516 | 264 | 3267 | 0.400 | ng | #-0.04 |
| System Monitoring Compounds | | | | | | |
| 4) 2-Fluorophenol | 5.291 | 112 | 650 | 0.162 | ng | -0.02 |
| 5) Phenol-d6 | 6.872 | 99 | 448 | 0.091 | ng | -0.03 |
| 8) Nitrobenzene-d5 | 8.854 | 82 | 1305 | 0.288 | ng | -0.02 |
| 11) 2-Methylnaphthalene-d10 | 12.075 | 152 | 2119 | 0.343 | ng | -0.04 |
| 14) 2,4,6-Tribromophenol | 15.833 | 330 | 489 | 0.418 | ng | -0.02 |
| 15) 2-Fluorobiphenyl | 12.963 | 172 | 5067 | 0.337 | ng | -0.03 |
| 27) Fluoranthene-d10 | 19.118 | 212 | 5789 | 0.428 | ng | -0.02 |
| 31) Terphenyl-d14 | 19.717 | 244 | 4157 | 0.445 | ng | -0.03 |
| Target Compounds | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.225 | 88 | 659 | 0.346 | ng | # 62 |
| 20) 4,6-Dinitro-2-methylph... | 15.446 | 198 | 76 | 0.202 | ng | 98 |
| 34) Bis(2-ethylhexyl)phtha... | 21.196 | 149 | 747 | 0.077 | ng | # 96 |

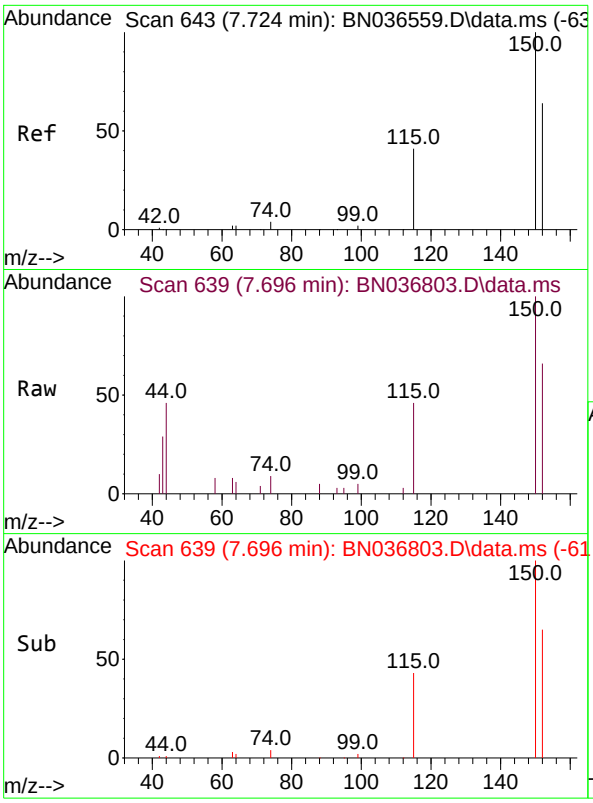
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032825\
Data File : BN036803.D
Acq On : 29 Mar 2025 09:57
Operator : RC/JU
Sample : Q1629-07
Misc :
ALS Vial : 34 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01D1-20250320

Quant Time: Mar 31 01:59:55 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration



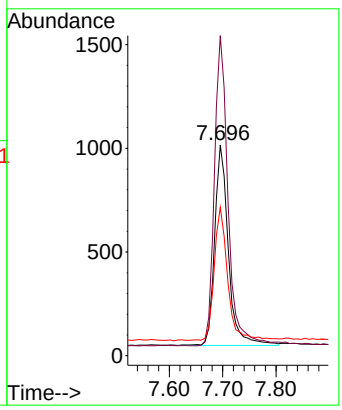


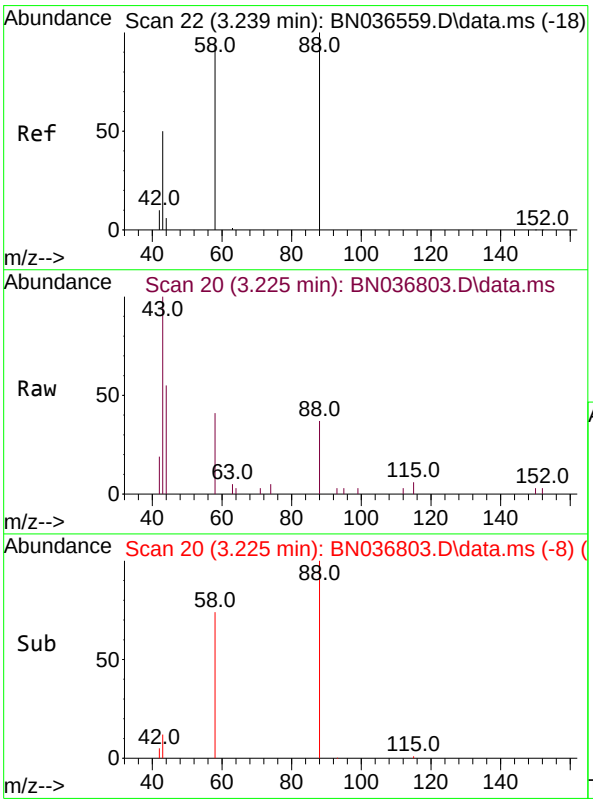

#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.696 min Scan# 6
Delta R.T. -0.028 min
Lab File: BN036803.D
Acq: 29 Mar 2025 09:57

**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01D1-20250320

Tgt Ion:152 Resp: 1719

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 151.9 | 123.7 | 185.5 |
| 115 | 70.4 | 54.3 | 81.5 |

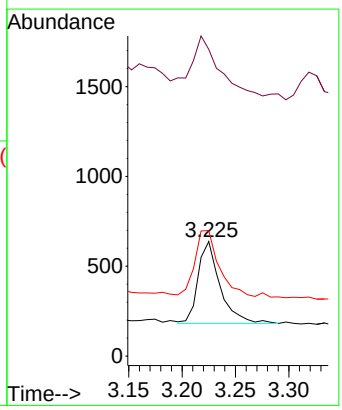


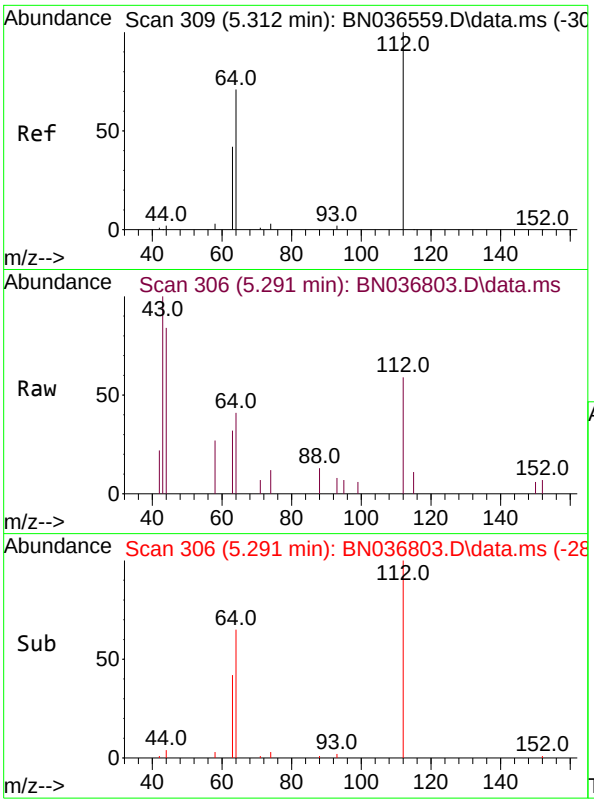




#2
1,4-Dioxane
Concen: 0.346 ng
RT: 3.225 min Scan# 20
Delta R.T. -0.014 min
Lab File: BN036803.D
Acq: 29 Mar 2025 09:57

Tgt Ion: 88 Resp: 659

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 115.2 | 37.8 | 56.8# |
| 58 | 87.3 | 67.4 | 101.2 |



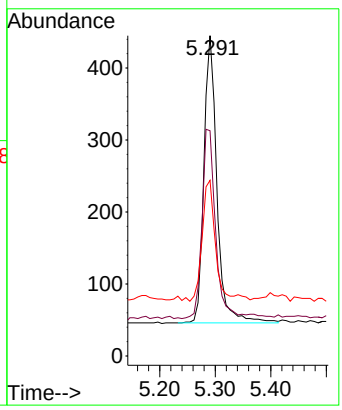


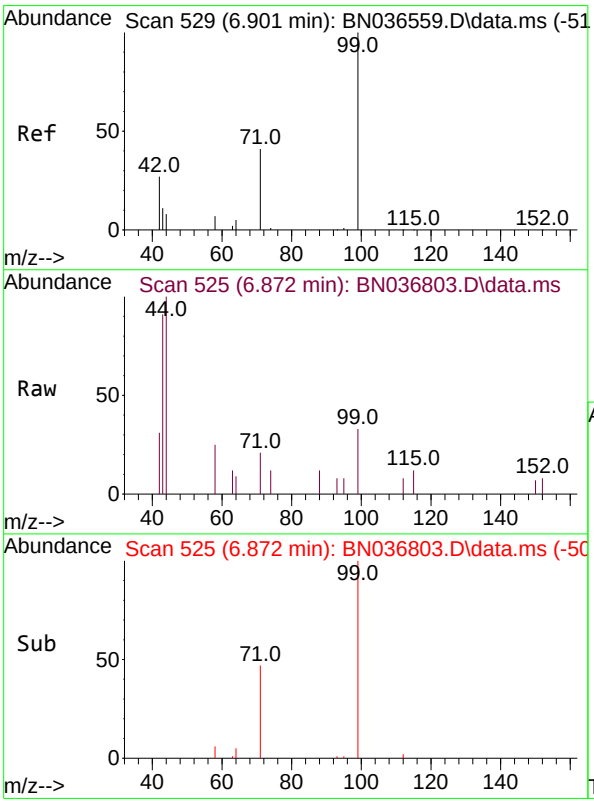

#4
2-Fluorophenol
Concen: 0.162 ng
RT: 5.291 min Scan# 3
Delta R.T. -0.022 min
Lab File: BN036803.D
Acq: 29 Mar 2025 09:57

**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01D1-20250320

Tgt Ion:112 Resp: 650

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 68.3 | 53.1 | 79.7 |
| 63 | 42.0 | 31.8 | 47.8 |

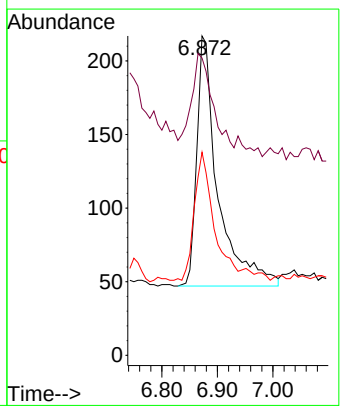


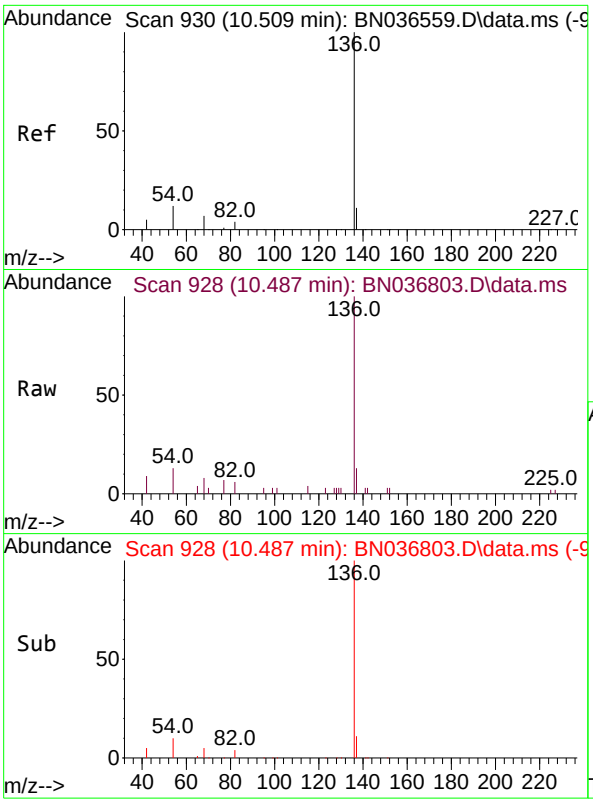




#5
Phenol-d6
Concen: 0.091 ng
RT: 6.872 min Scan# 525
Delta R.T. -0.029 min
Lab File: BN036803.D
Acq: 29 Mar 2025 09:57

Tgt Ion: 99 Resp: 448

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 35.9 | 26.5 | 39.7 |
| 71 | 50.4 | 34.1 | 51.1 |



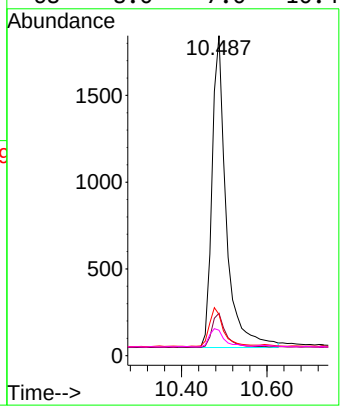


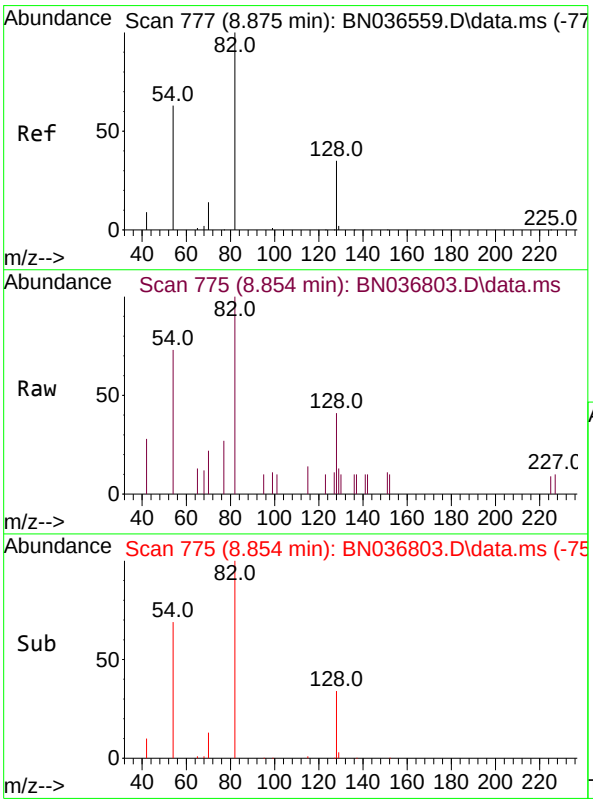

#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.487 min Scan# 9
Delta R.T. -0.021 min
Lab File: BN036803.D
Acq: 29 Mar 2025 09:57

**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01D1-20250320

Tgt Ion:136 Resp: 4159

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 13.3 | 10.3 | 15.5 |
| 54 | 12.9 | 11.5 | 17.3 |
| 68 | 8.0 | 7.0 | 10.4 |

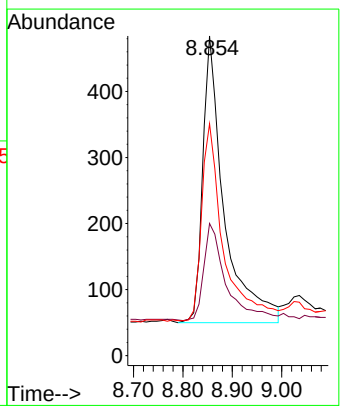


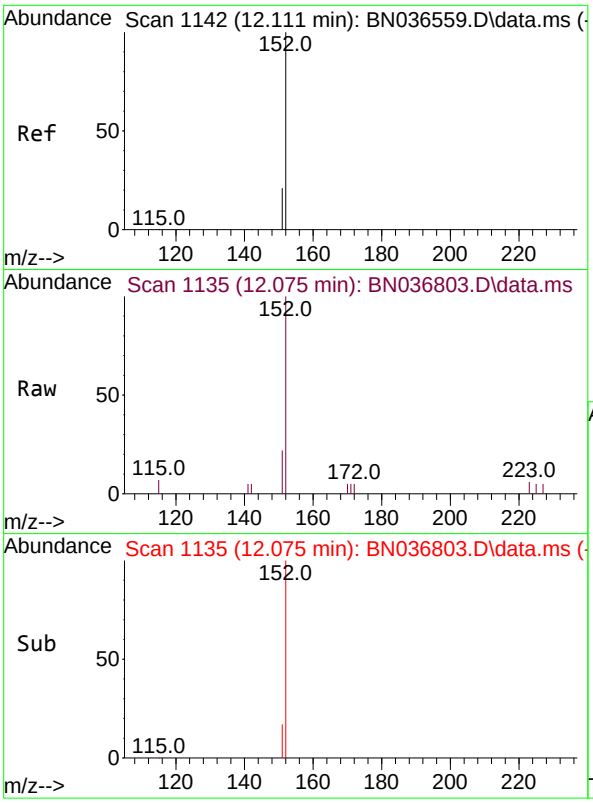




#8
Nitrobenzene-d5
Concen: 0.288 ng
RT: 8.854 min Scan# 775
Delta R.T. -0.021 min
Lab File: BN036803.D
Acq: 29 Mar 2025 09:57

Tgt Ion: 82 Resp: 1305

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 41.3 | 30.6 | 45.8 |
| 54 | 72.5 | 52.2 | 78.4 |



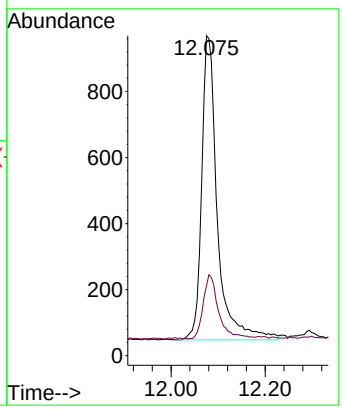


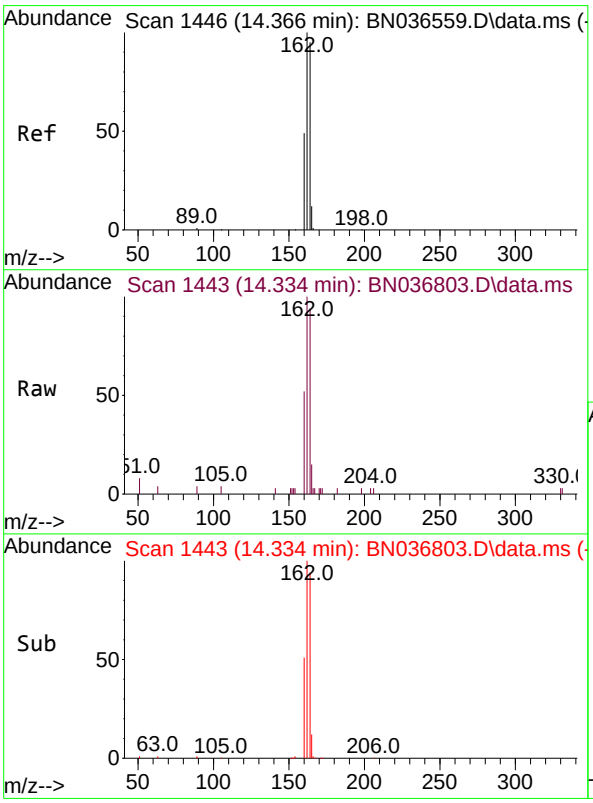

#11
2-Methylnaphthalene-d10
Concen: 0.343 ng
RT: 12.075 min Scan# 11
Delta R.T. -0.035 min
Lab File: BN036803.D
Acq: 29 Mar 2025 09:57

**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01D1-20250320

Tgt Ion:152 Resp: 2119

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.8 | 17.0 | 25.6 |

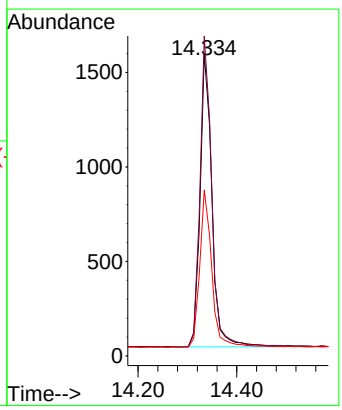


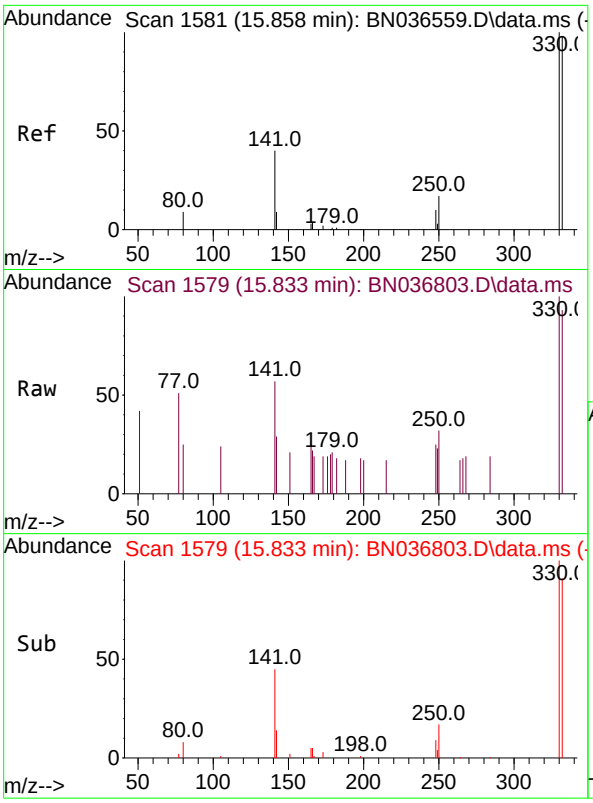




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.334 min Scan# 1443
Delta R.T. -0.032 min
Lab File: BN036803.D
Acq: 29 Mar 2025 09:57

Tgt Ion:164 Resp: 2581

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 105.9 | 84.2 | 126.2 |
| 160 | 55.0 | 42.2 | 63.2 |



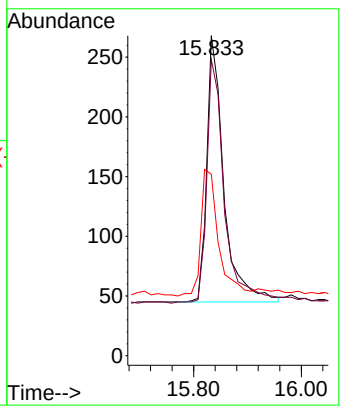


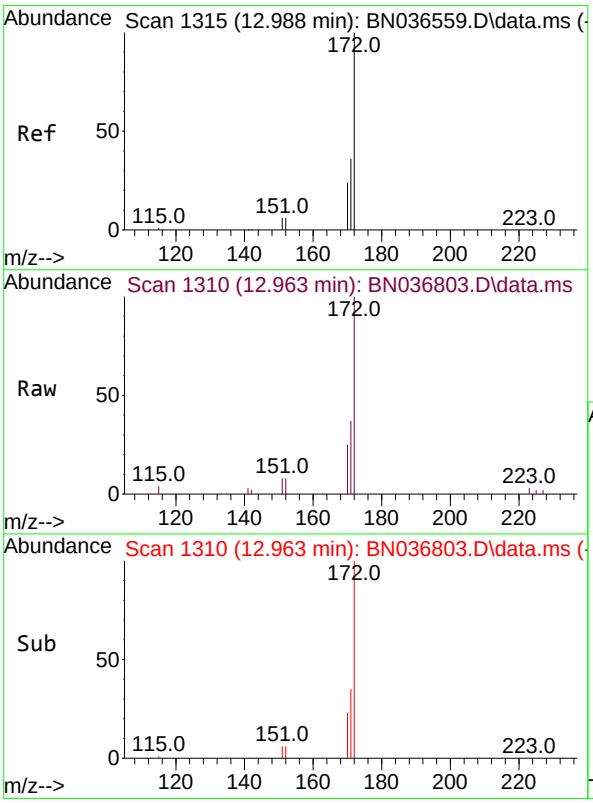

#14
2,4,6-Tribromophenol
Concen: 0.418 ng
RT: 15.833 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036803.D
Acq: 29 Mar 2025 09:57

**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01D1-20250320

Tgt Ion:330 Resp: 489

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 95.1 | 75.2 | 112.8 |
| 141 | 49.5 | 43.4 | 65.2 |

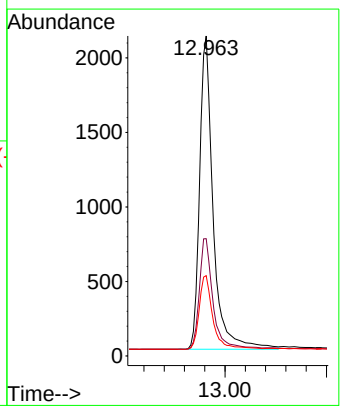


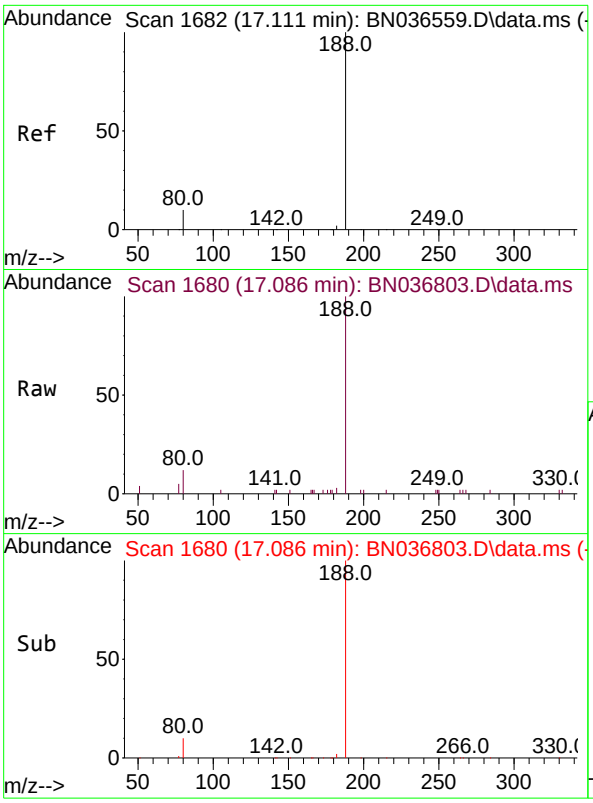




#15
2-Fluorobiphenyl
Concen: 0.337 ng
RT: 12.963 min Scan# 1310
Delta R.T. -0.025 min
Lab File: BN036803.D
Acq: 29 Mar 2025 09:57

Tgt Ion:172 Resp: 5067

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 36.7 | 29.5 | 44.3 |
| 170 | 25.1 | 20.2 | 30.4 |



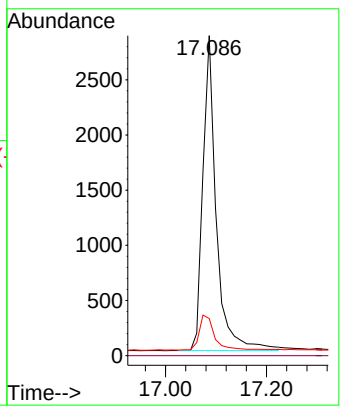


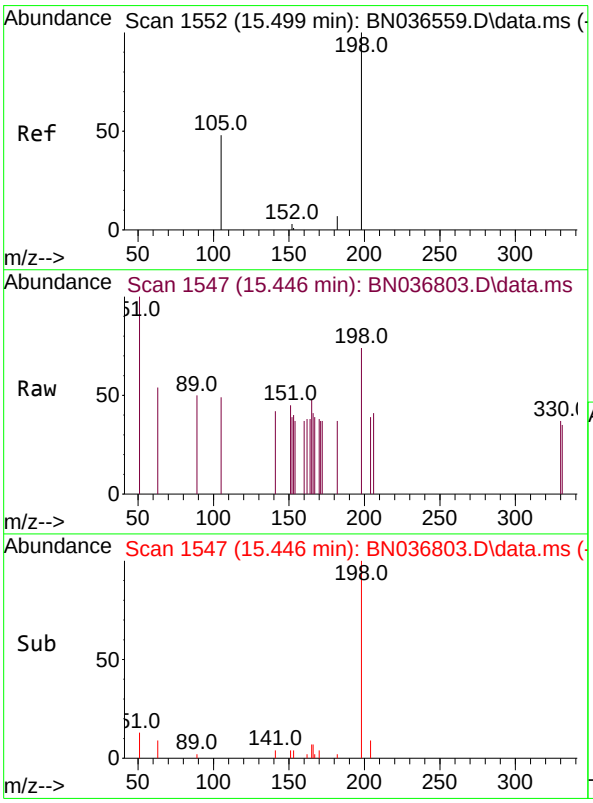

#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.086 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036803.D
Acq: 29 Mar 2025 09:57

**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01D1-20250320

Tgt Ion:188 Resp: 5278

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 11.6 | 8.8 | 13.2 |

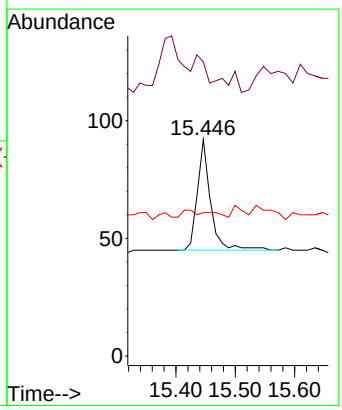


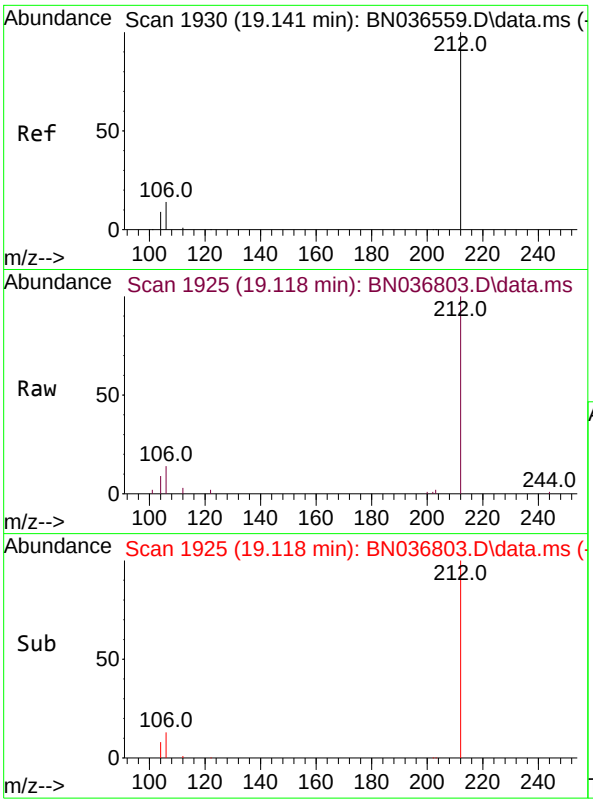




#20
4,6-Dinitro-2-methylphenol
Concen: 0.202 ng
RT: 15.446 min Scan# 1547
Delta R.T. -0.053 min
Lab File: BN036803.D
Acq: 29 Mar 2025 09:57

Tgt Ion:198 Resp: 76

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 198 | 100 | | |
| 51 | 135.9 | 107.9 | 161.9 |
| 105 | 66.3 | 56.2 | 84.2 |



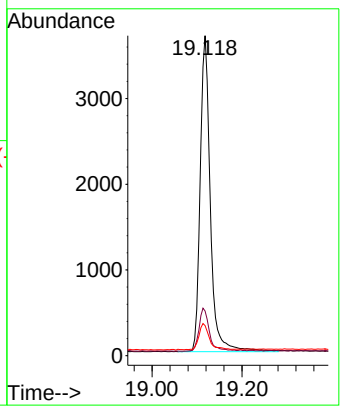


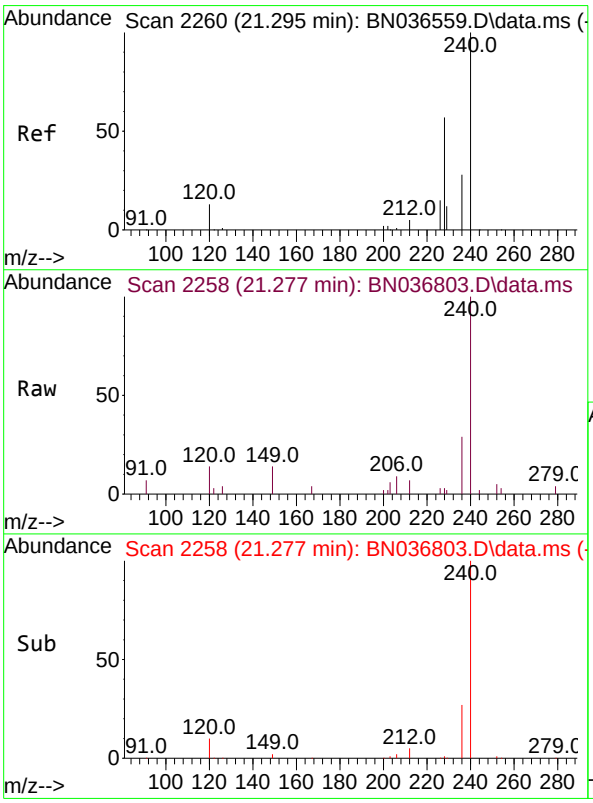

#27
Fluoranthene-d10
Concen: 0.428 ng
RT: 19.118 min Scan# 1
Delta R.T. -0.023 min
Lab File: BN036803.D
Acq: 29 Mar 2025 09:57

**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01D1-20250320

Tgt Ion:212 Resp: 5789

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 13.9 | 11.8 | 17.6 |
| 104 | 8.3 | 7.3 | 10.9 |

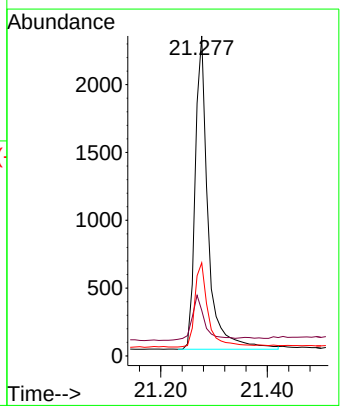


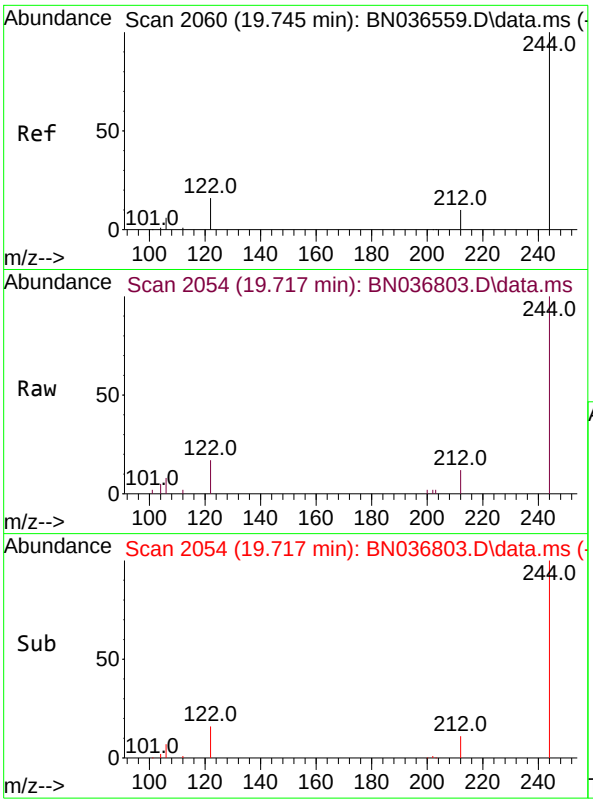




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 2258
Delta R.T. -0.018 min
Lab File: BN036803.D
Acq: 29 Mar 2025 09:57

Tgt Ion:240 Resp: 3898

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 14.2 | 14.6 | 22.0# |
| 236 | 29.1 | 24.1 | 36.1 |



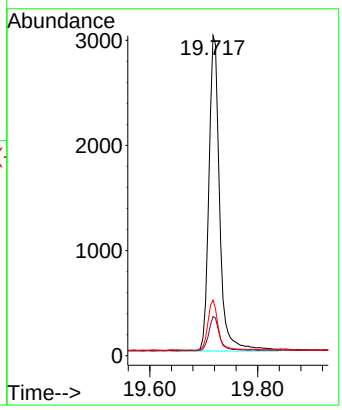


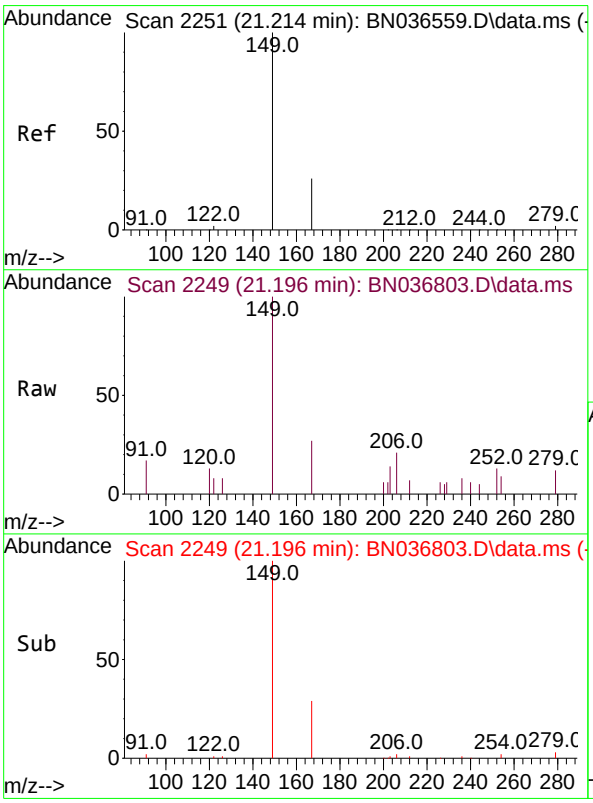

#31
Terphenyl-d14
Concen: 0.445 ng
RT: 19.717 min Scan# 2
Delta R.T. -0.028 min
Lab File: BN036803.D
Acq: 29 Mar 2025 09:57

**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01D1-20250320

Tgt Ion:244 Resp: 4157

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 12.3 | 9.6 | 14.4 |
| 122 | 17.3 | 13.9 | 20.9 |

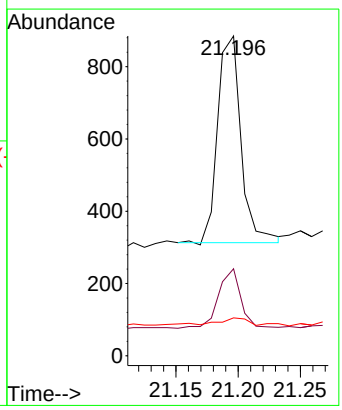


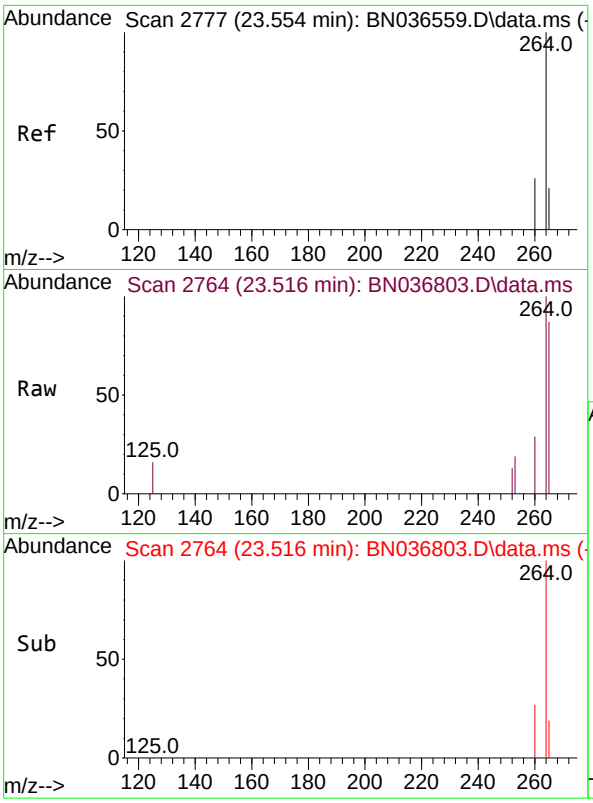




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.077 ng
RT: 21.196 min Scan# 2249
Delta R.T. -0.018 min
Lab File: BN036803.D
Acq: 29 Mar 2025 09:57

Tgt Ion:149 Resp: 747

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 27.8 | 20.7 | 31.1 |
| 279 | 6.4 | 3.6 | 5.4# |



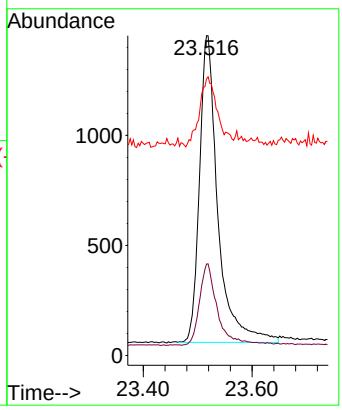



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.516 min Scan# 2
Delta R.T. -0.038 min
Lab File: BN036803.D
Acq: 29 Mar 2025 09:57

**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01D1-20250320

Tgt Ion:264 Resp: 3267

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 28.6 | 22.6 | 33.8 |
| 265 | 86.5 | 88.1 | 132.1# |



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032825\
Data File : BN036804.D
Acq On : 29 Mar 2025 10:33
Operator : RC/JU
Sample : PB167295BS
Misc :
ALS Vial : 35 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
PB167295BS

Quant Time: Mar 31 02:00:08 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

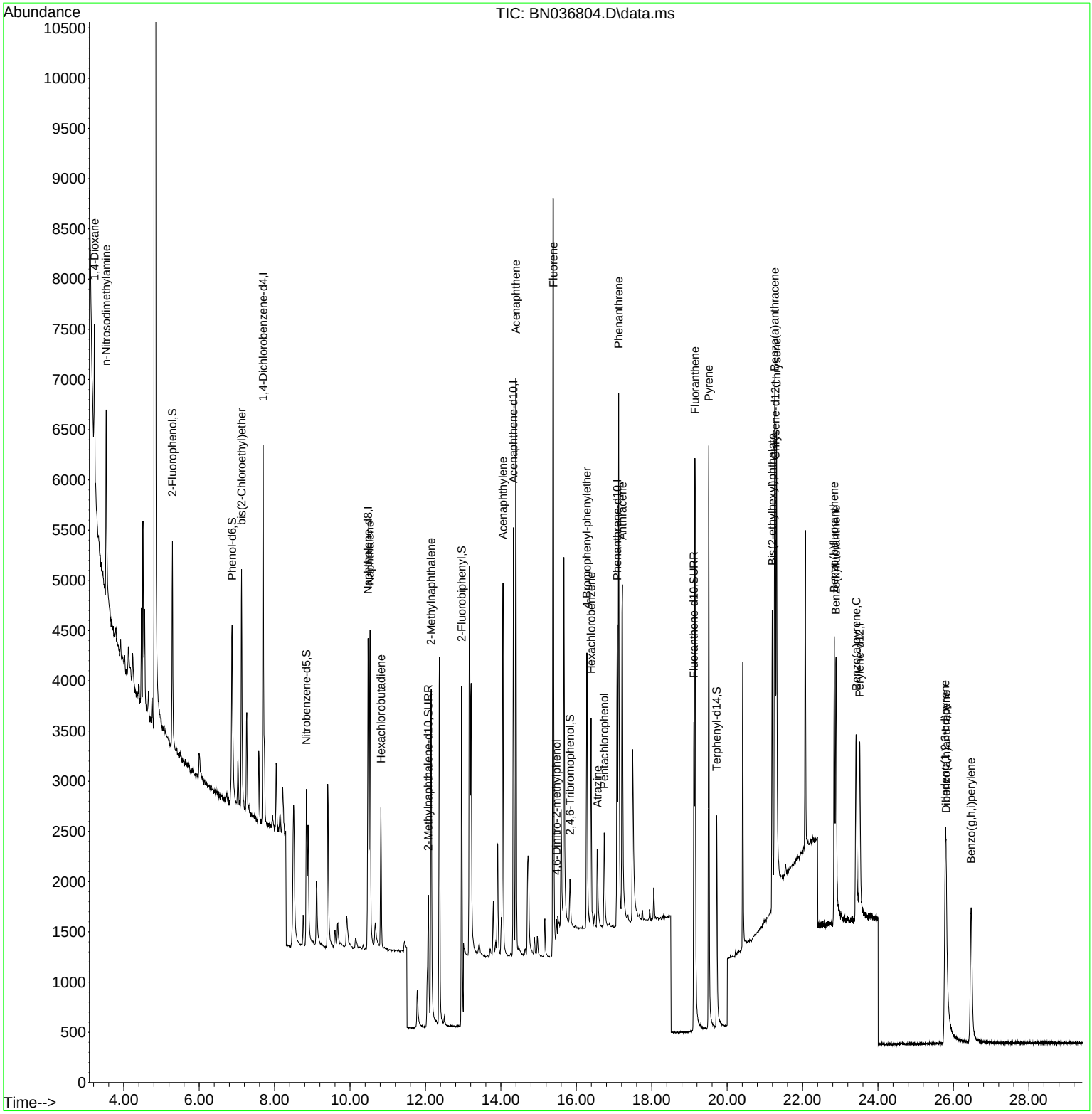
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.696 | 152 | 1794 | 0.400 | ng | -0.03 |
| 7) Naphthalene-d8 | 10.477 | 136 | 4263 | 0.400 | ng | -0.03 |
| 13) Acenaphthene-d10 | 14.334 | 164 | 2364 | 0.400 | ng | -0.03 |
| 19) Phenanthrene-d10 | 17.087 | 188 | 4802 | 0.400 | ng | -0.02 |
| 29) Chrysene-d12 | 21.277 | 240 | 3163 | 0.400 | ng | #-0.02 |
| 35) Perylene-d12 | 23.516 | 264 | 2660 | 0.400 | ng | -0.04 |
| System Monitoring Compounds | | | | | | |
| 4) 2-Fluorophenol | 5.291 | 112 | 1499 | 0.359 | ng | -0.02 |
| 5) Phenol-d6 | 6.872 | 99 | 1778 | 0.344 | ng | -0.03 |
| 8) Nitrobenzene-d5 | 8.843 | 82 | 1438 | 0.310 | ng | -0.03 |
| 11) 2-Methylnaphthalene-d10 | 12.075 | 152 | 3120 | 0.492 | ng | -0.04 |
| 14) 2,4,6-Tribromophenol | 15.833 | 330 | 302 | 0.282 | ng | -0.02 |
| 15) 2-Fluorobiphenyl | 12.958 | 172 | 4528 | 0.329 | ng | -0.03 |
| 27) Fluoranthene-d10 | 19.118 | 212 | 4058 | 0.330 | ng | -0.02 |
| 31) Terphenyl-d14 | 19.722 | 244 | 2773 | 0.366 | ng | -0.02 |
| Target Compounds | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.225 | 88 | 629 | 0.316 | ng | # 7 |
| 3) n-Nitrosodimethylamine | 3.536 | 42 | 1653 | 0.411 | ng | # 92 |
| 6) bis(2-Chloroethyl)ether | 7.125 | 93 | 1798 | 0.337 | ng | 97 |
| 9) Naphthalene | 10.530 | 128 | 4418 | 0.352 | ng | 98 |
| 10) Hexachlorobutadiene | 10.819 | 225 | 1110 | 0.376 | ng | # 97 |
| 12) 2-Methylnaphthalene | 12.151 | 142 | 2851 | 0.357 | ng | 99 |
| 16) Acenaphthylene | 14.056 | 152 | 4291 | 0.385 | ng | 99 |
| 17) Acenaphthene | 14.398 | 154 | 2758 | 0.378 | ng | 99 |
| 18) Fluorene | 15.393 | 166 | 3648 | 0.369 | ng | 99 |
| 20) 4,6-Dinitro-2-methylph... | 15.478 | 198 | 341 | 0.424 | ng | 89 |
| 21) 4-Bromophenyl-phenylether | 16.280 | 248 | 1132 | 0.376 | ng | 98 |
| 22) Hexachlorobenzene | 16.391 | 284 | 1372 | 0.378 | ng | 97 |
| 23) Atrazine | 16.565 | 200 | 980 | 0.406 | ng | 95 |
| 24) Pentachlorophenol | 16.739 | 266 | 579 | 0.350 | ng | 97 |
| 25) Phenanthrene | 17.124 | 178 | 5643 | 0.392 | ng | 99 |
| 26) Anthracene | 17.223 | 178 | 5086 | 0.391 | ng | 99 |
| 28) Fluoranthene | 19.146 | 202 | 6015 | 0.372 | ng | 98 |
| 30) Pyrene | 19.513 | 202 | 6044 | 0.391 | ng | 100 |
| 32) Benzo(a)anthracene | 21.259 | 228 | 3999 | 0.364 | ng | 99 |
| 33) Chrysene | 21.313 | 228 | 4976 | 0.414 | ng | 99 |
| 34) Bis(2-ethylhexyl)phtha... | 21.196 | 149 | 2833 | 0.362 | ng | 99 |
| 36) Indeno(1,2,3-cd)pyrene | 25.782 | 276 | 3938 | 0.410 | ng | 95 |
| 37) Benzo(b)fluoranthene | 22.841 | 252 | 3780 | 0.390 | ng | 95 |
| 38) Benzo(k)fluoranthene | 22.885 | 252 | 4216 | 0.415 | ng | 96 |
| 39) Benzo(a)pyrene | 23.420 | 252 | 3467 | 0.425 | ng | # 94 |
| 40) Dibenzo(a,h)anthracene | 25.809 | 278 | 2985 | 0.399 | ng | 94 |
| 41) Benzo(g,h,i)perylene | 26.469 | 276 | 3297 | 0.386 | ng | 98 |

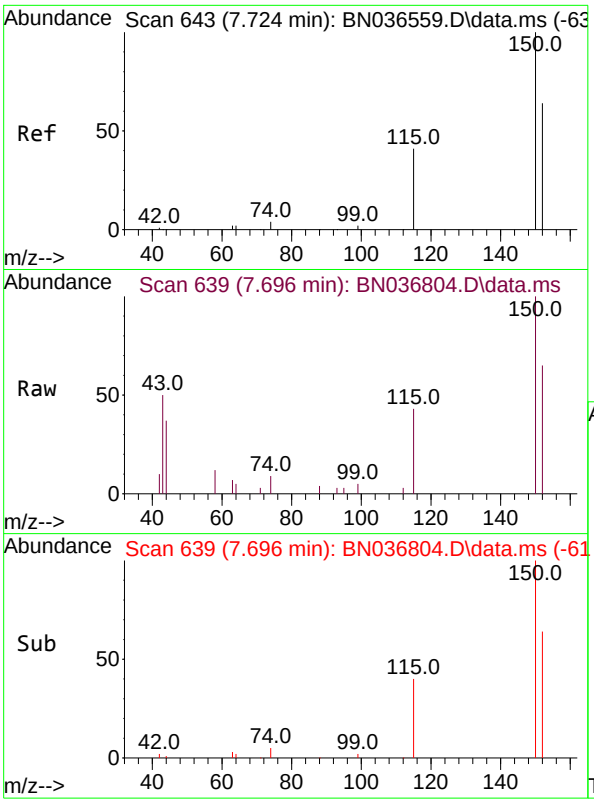
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : BN036804.D
Acq On : 29 Mar 2025 10:33
Operator : RC/JU
Sample : PB167295BS
Misc :
ALS Vial : 35 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
PB167295BS

Quant Time: Mar 31 02:00:08 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration



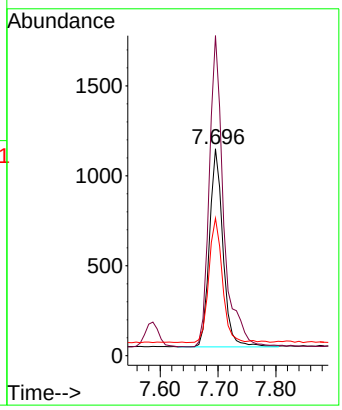


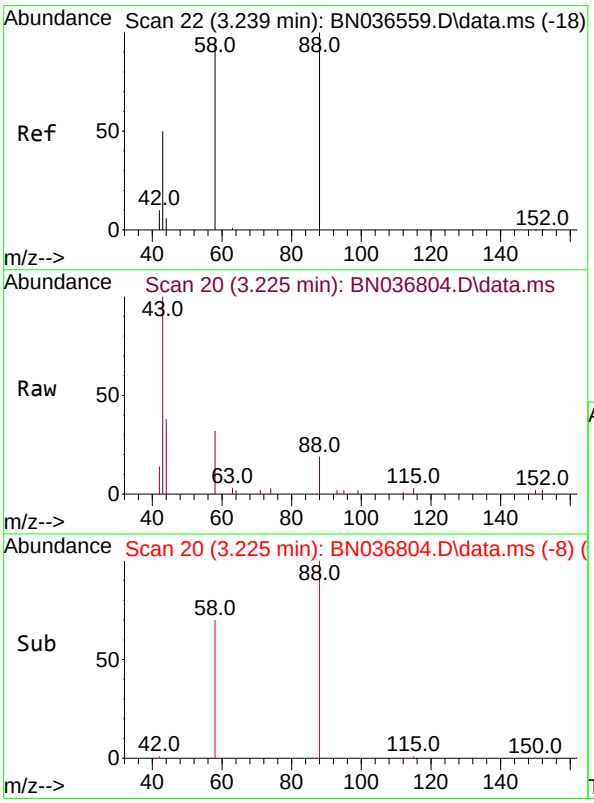

#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.696 min Scan# 6
Delta R.T. -0.028 min
Lab File: BN036804.D
Acq: 29 Mar 2025 10:33

**Instrument :**
BNA_N
**ClientSampleId :**
PB167295BS

Tgt Ion:152 Resp: 1794

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 154.7 | 123.7 | 185.5 |
| 115 | 66.4 | 54.3 | 81.5 |

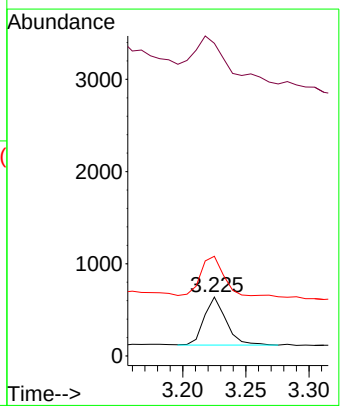


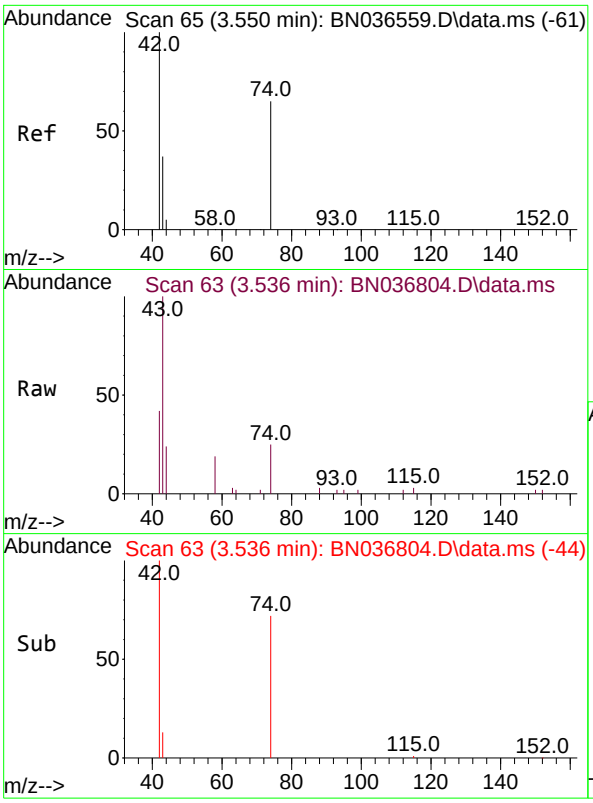




#2
1,4-Dioxane
Concen: 0.316 ng
RT: 3.225 min Scan# 20
Delta R.T. -0.014 min
Lab File: BN036804.D
Acq: 29 Mar 2025 10:33

Tgt Ion: 88 Resp: 629

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 186.6 | 37.8 | 56.8# |
| 58 | 110.0 | 67.4 | 101.2# |



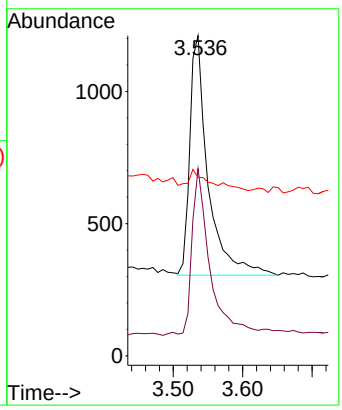


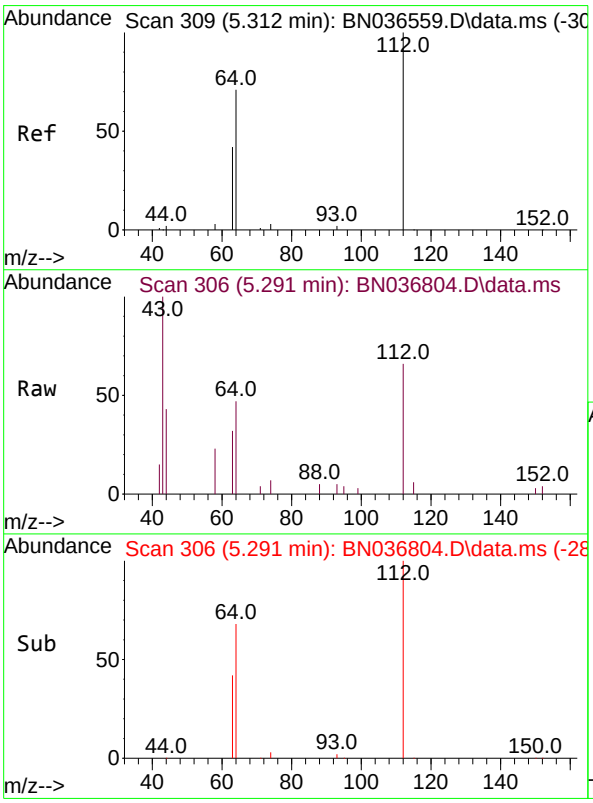

#3
n-Nitrosodimethylamine
Concen: 0.411 ng
RT: 3.536 min Scan# 6
Delta R.T. -0.014 min
Lab File: BN036804.D
Acq: 29 Mar 2025 10:33

**Instrument :**
BNA_N
**ClientSampleId :**
PB167295BS

Tgt Ion: 42 Resp: 1653

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 68.4 | 60.6 | 90.8 |
| 44 | 10.3 | 6.3 | 9.5# |

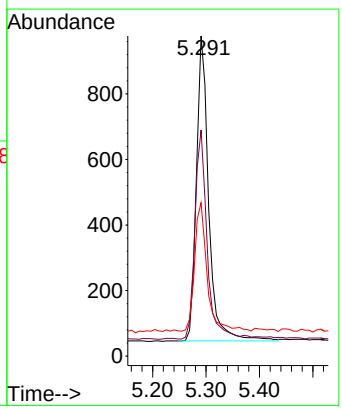


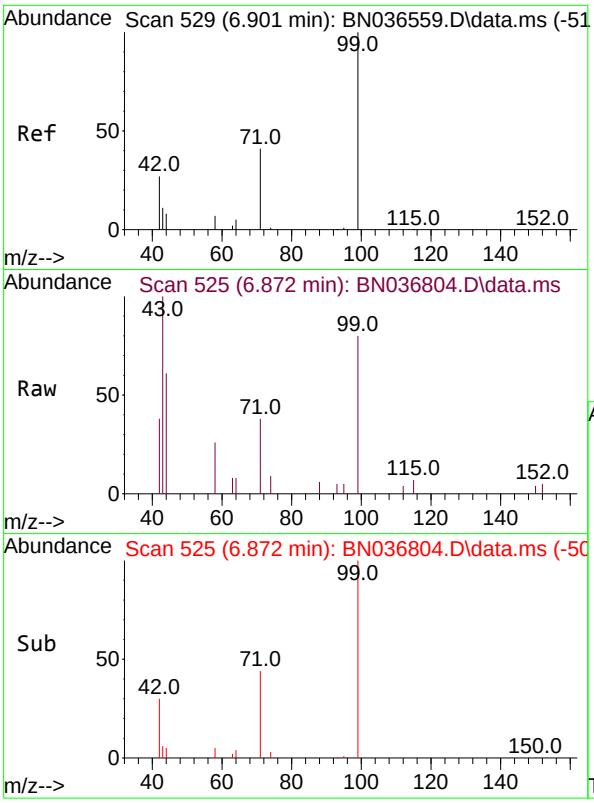




#4
2-Fluorophenol
Concen: 0.359 ng
RT: 5.291 min Scan# 306
Delta R.T. -0.022 min
Lab File: BN036804.D
Acq: 29 Mar 2025 10:33

Tgt Ion:112 Resp: 1499

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 67.2 | 53.1 | 79.7 |
| 63 | 43.8 | 31.8 | 47.8 |



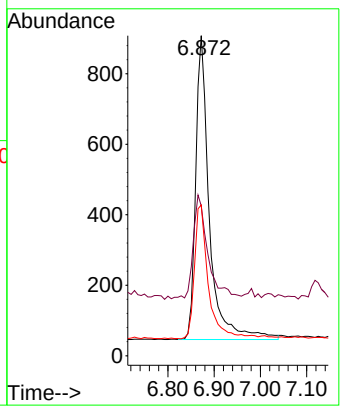


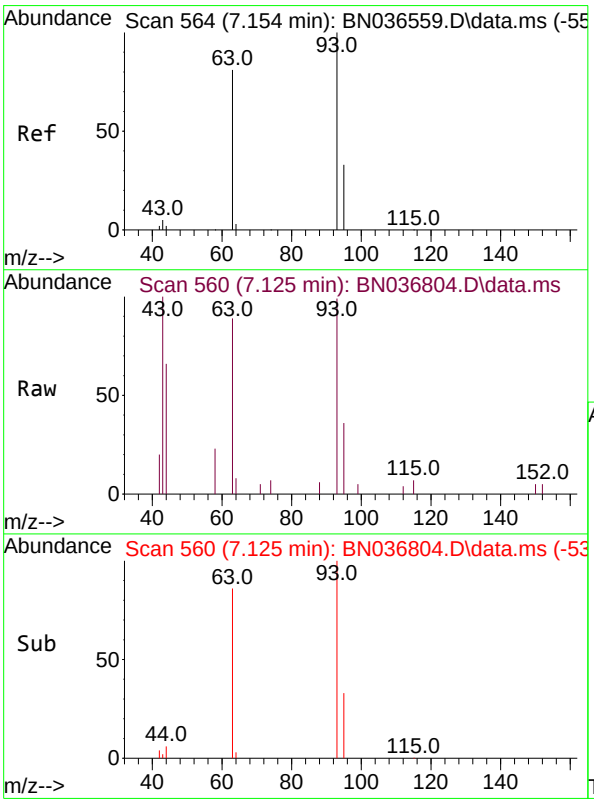

#5
Phenol-d6
Concen: 0.344 ng
RT: 6.872 min Scan# 5
Delta R.T. -0.029 min
Lab File: BN036804.D
Acq: 29 Mar 2025 10:33

**Instrument :**
BNA_N
**ClientSampleId :**
PB167295BS

Tgt Ion: 99 Resp: 1778

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 36.5 | 26.5 | 39.7 |
| 71 | 44.9 | 34.1 | 51.1 |

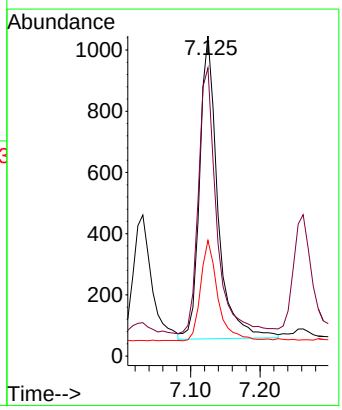


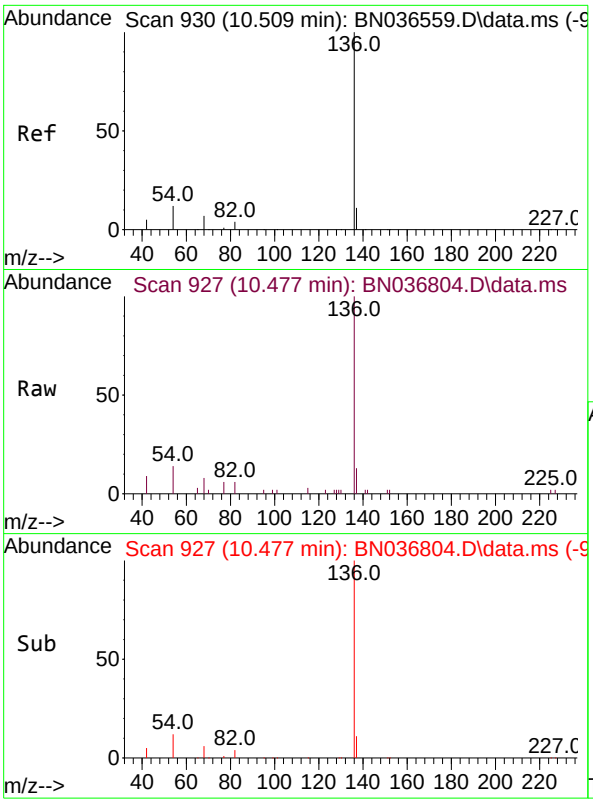




#6
bis(2-Chloroethyl)ether
Concen: 0.337 ng
RT: 7.125 min Scan# 560
Delta R.T. -0.029 min
Lab File: BN036804.D
Acq: 29 Mar 2025 10:33

Tgt Ion: 93 Resp: 1798

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 88.0 | 67.7 | 101.5 |
| 95 | 31.4 | 25.6 | 38.4 |



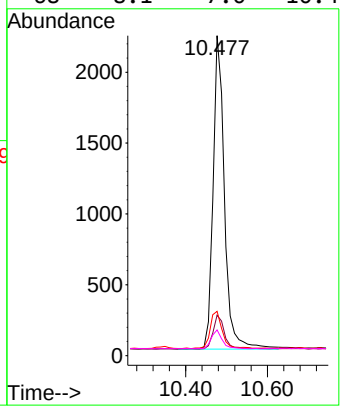


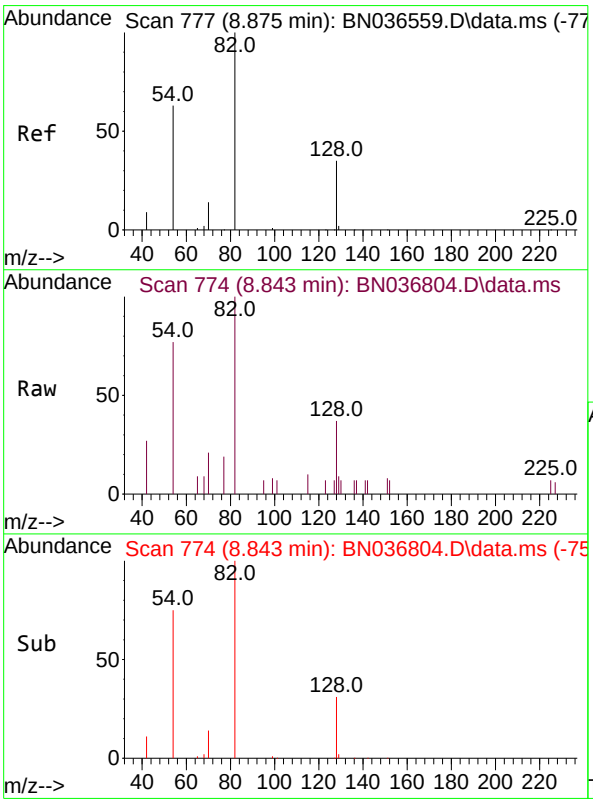

#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.477 min Scan# 9
Delta R.T. -0.032 min
Lab File: BN036804.D
Acq: 29 Mar 2025 10:33

**Instrument :**
BNA_N
**ClientSampleId :**
PB167295BS

Tgt Ion:136 Resp: 4263

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 12.7 | 10.3 | 15.5 |
| 54 | 13.9 | 11.5 | 17.3 |
| 68 | 8.1 | 7.0 | 10.4 |

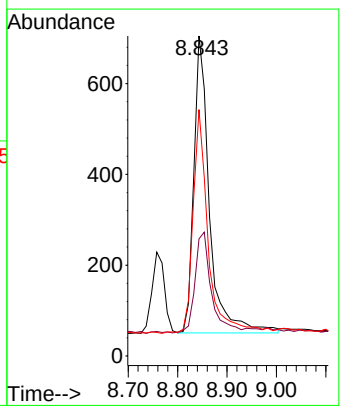


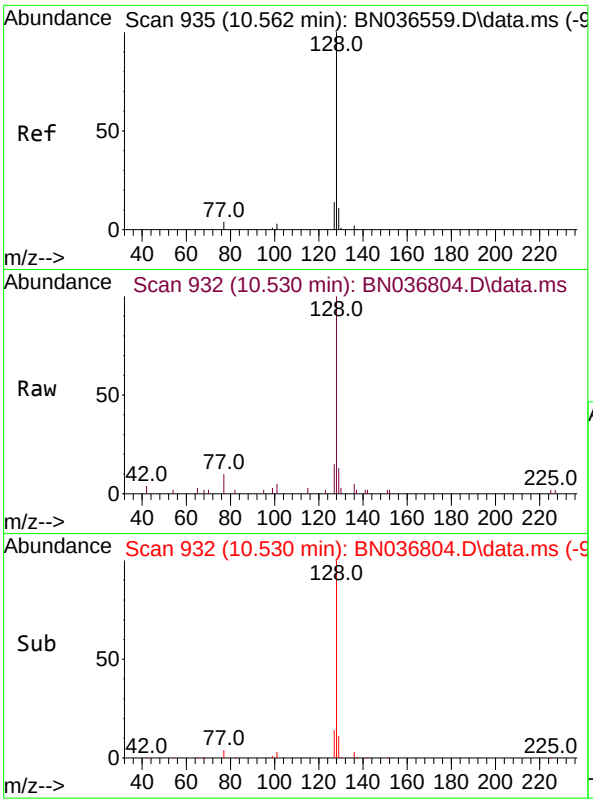




#8
Nitrobenzene-d5
Concen: 0.310 ng
RT: 8.843 min Scan# 774
Delta R.T. -0.032 min
Lab File: BN036804.D
Acq: 29 Mar 2025 10:33

Tgt Ion: 82 Resp: 1438

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 36.6 | 30.6 | 45.8 |
| 54 | 77.0 | 52.2 | 78.4 |



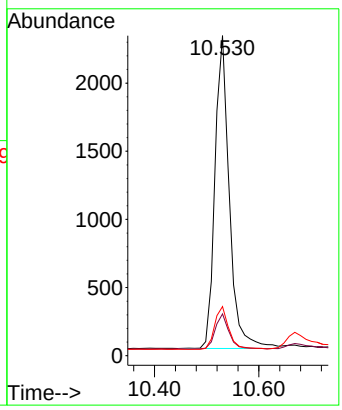


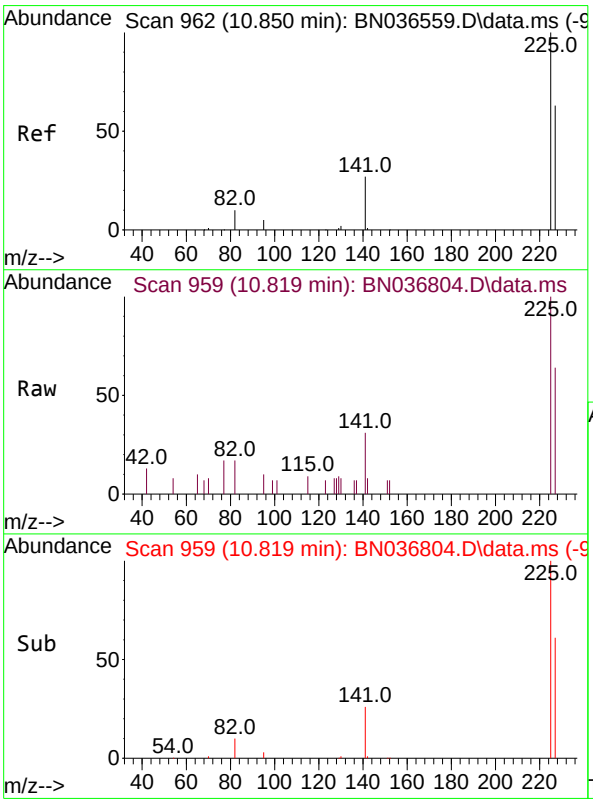

#9
Naphthalene
Concen: 0.352 ng
RT: 10.530 min Scan# 9
Delta R.T. -0.032 min
Lab File: BN036804.D
Acq: 29 Mar 2025 10:33

**Instrument :**
BNA_N
**ClientSampleId :**
PB167295BS

Tgt Ion:128 Resp: 4418

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 13.1 | 9.8 | 14.6 |
| 127 | 15.4 | 11.8 | 17.8 |

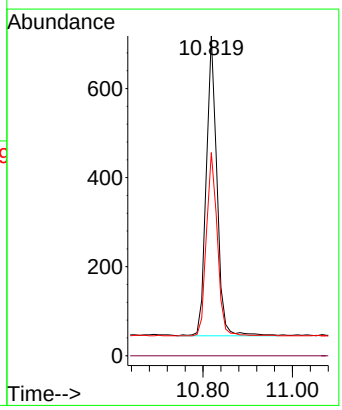


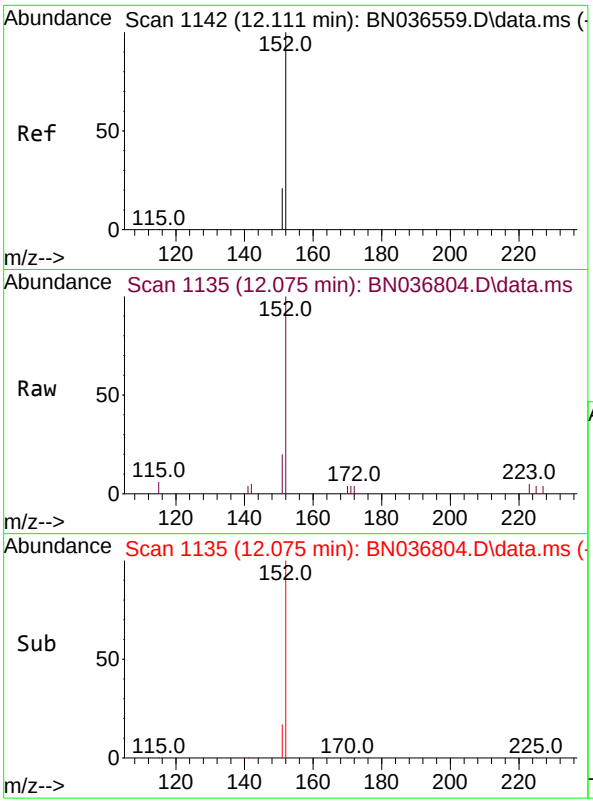




#10
Hexachlorobutadiene
Concen: 0.376 ng
RT: 10.819 min Scan# 959
Delta R.T. -0.032 min
Lab File: BN036804.D
Acq: 29 Mar 2025 10:33

Tgt Ion:225 Resp: 1110

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 0.0 | 0.0 | 0.0 |
| 227 | 62.3 | 51.8 | 77.8 |



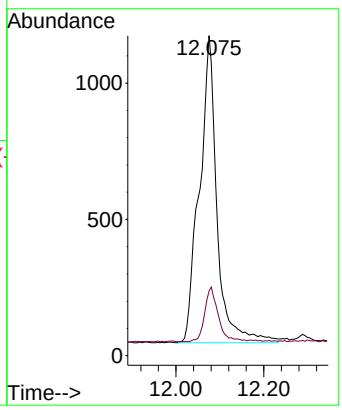


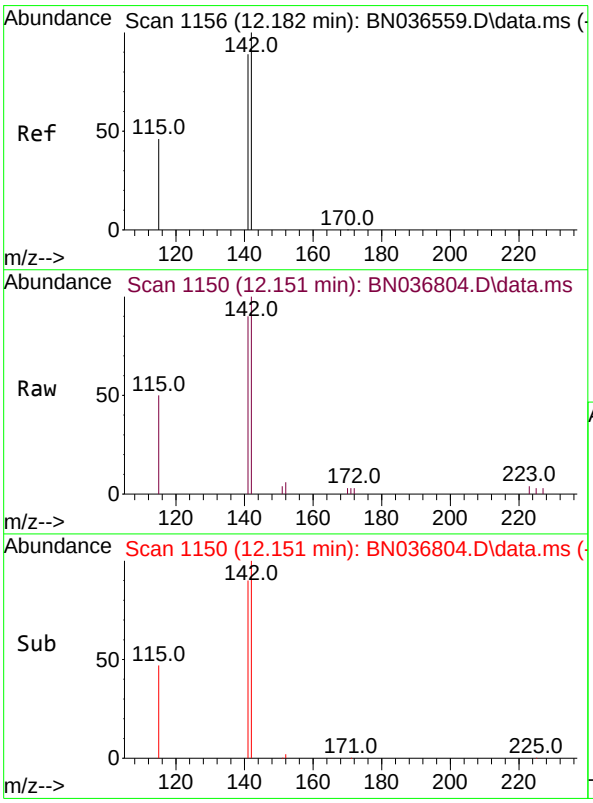

#11
2-Methylnaphthalene-d10
Concen: 0.492 ng
RT: 12.075 min Scan# 11
Delta R.T. -0.035 min
Lab File: BN036804.D
Acq: 29 Mar 2025 10:33

**Instrument :**
BNA_N
**ClientSampleId :**
PB167295BS

Tgt Ion:152 Resp: 3120

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 13.8 | 17.0 | 25.6# |

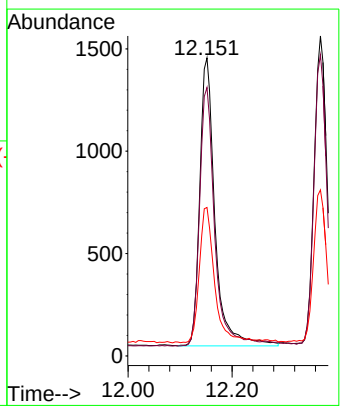


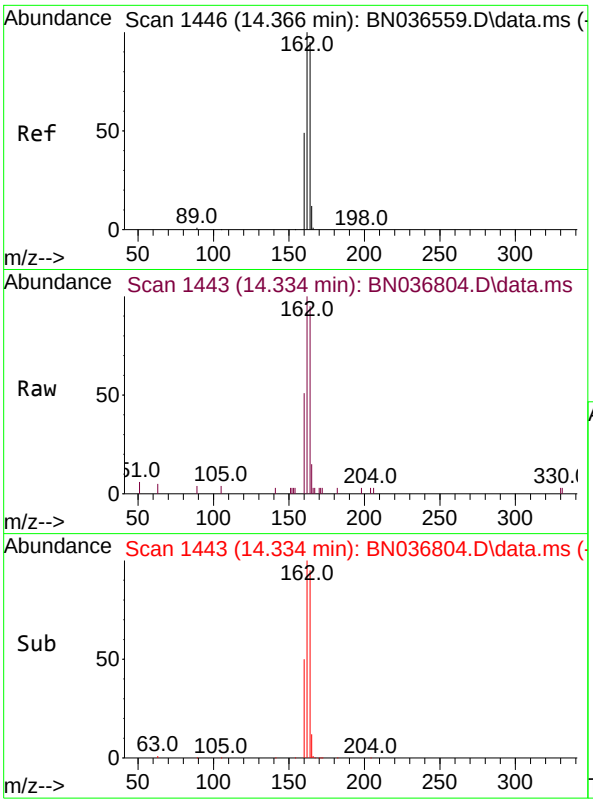




#12
2-Methylnaphthalene
Concen: 0.357 ng
RT: 12.151 min Scan# 1150
Delta R.T. -0.030 min
Lab File: BN036804.D
Acq: 29 Mar 2025 10:33

Tgt Ion:142 Resp: 2851

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 90.0 | 71.7 | 107.5 |
| 115 | 49.8 | 38.3 | 57.5 |



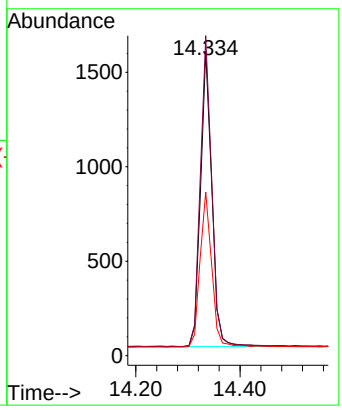


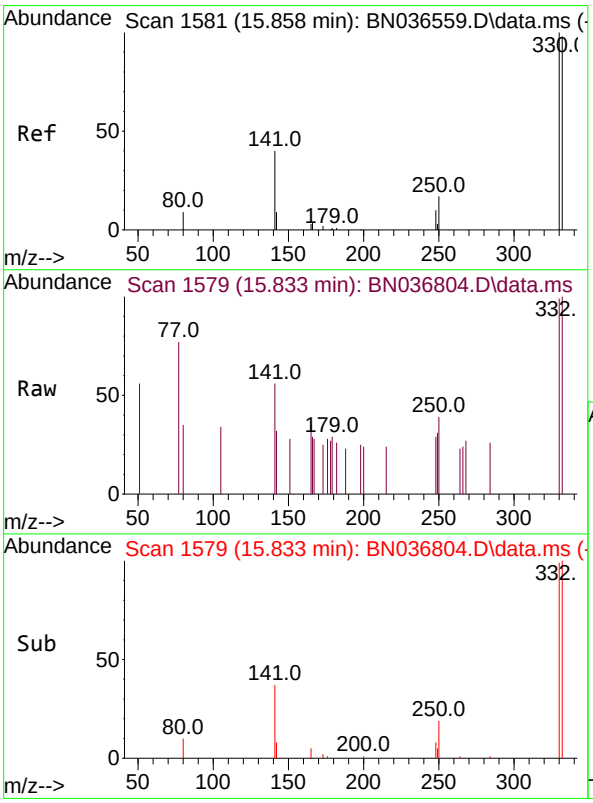

#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.334 min Scan# 14
Delta R.T. -0.032 min
Lab File: BN036804.D
Acq: 29 Mar 2025 10:33

**Instrument :**
BNA_N
**ClientSampleId :**
PB167295BS

Tgt Ion:164 Resp: 2364

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 105.1 | 84.2 | 126.2 |
| 160 | 53.7 | 42.2 | 63.2 |

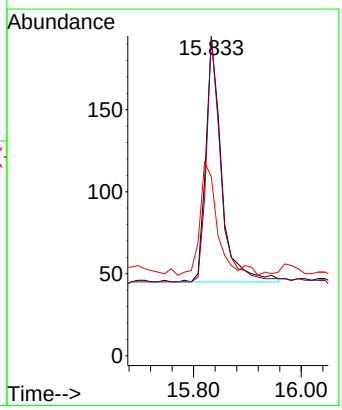


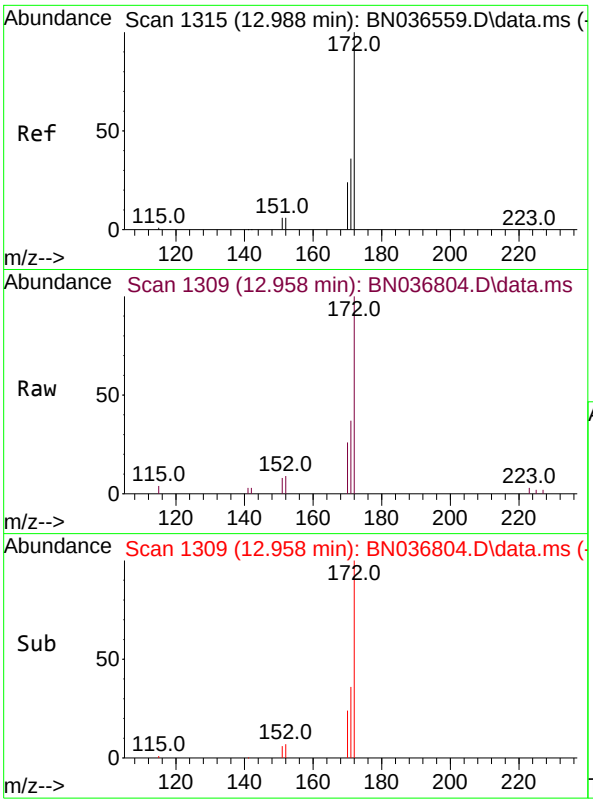




#14
2,4,6-Tribromophenol
Concen: 0.282 ng
RT: 15.833 min Scan# 1579
Delta R.T. -0.025 min
Lab File: BN036804.D
Acq: 29 Mar 2025 10:33

Tgt Ion:330 Resp: 302

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 93.0 | 75.2 | 112.8 |
| 141 | 52.6 | 43.4 | 65.2 |



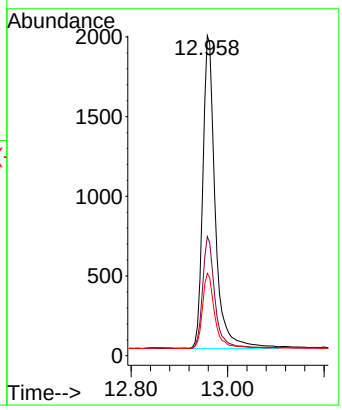


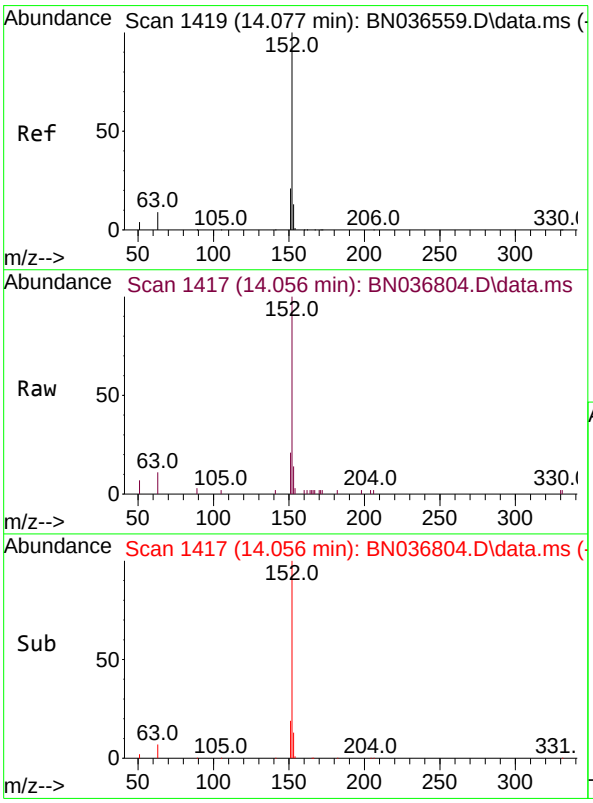

#15
2-Fluorobiphenyl
Concen: 0.329 ng
RT: 12.958 min Scan# 1
Delta R.T. -0.030 min
Lab File: BN036804.D
Acq: 29 Mar 2025 10:33

**Instrument :**
BNA_N
**ClientSampleId :**
PB167295BS

Tgt Ion:172 Resp: 4528

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 37.2 | 29.5 | 44.3 |
| 170 | 25.7 | 20.2 | 30.4 |

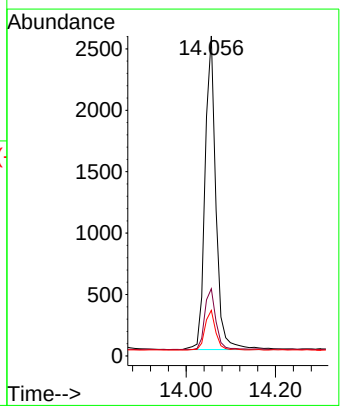


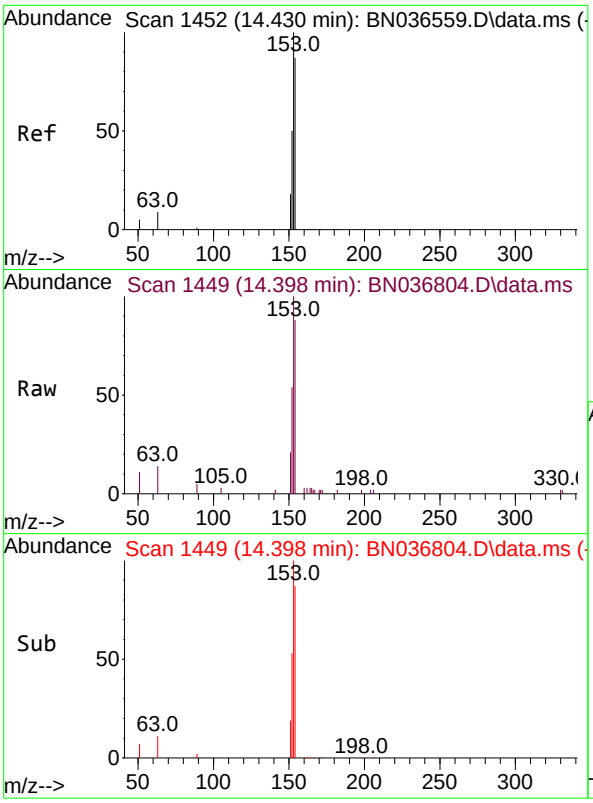




#16
Acenaphthylene
Concen: 0.385 ng
RT: 14.056 min Scan# 1417
Delta R.T. -0.021 min
Lab File: BN036804.D
Acq: 29 Mar 2025 10:33

Tgt Ion:152 Resp: 4291

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 19.9 | 16.2 | 24.4 |
| 153 | 12.6 | 10.6 | 15.8 |



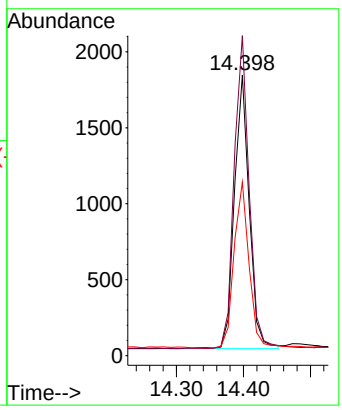


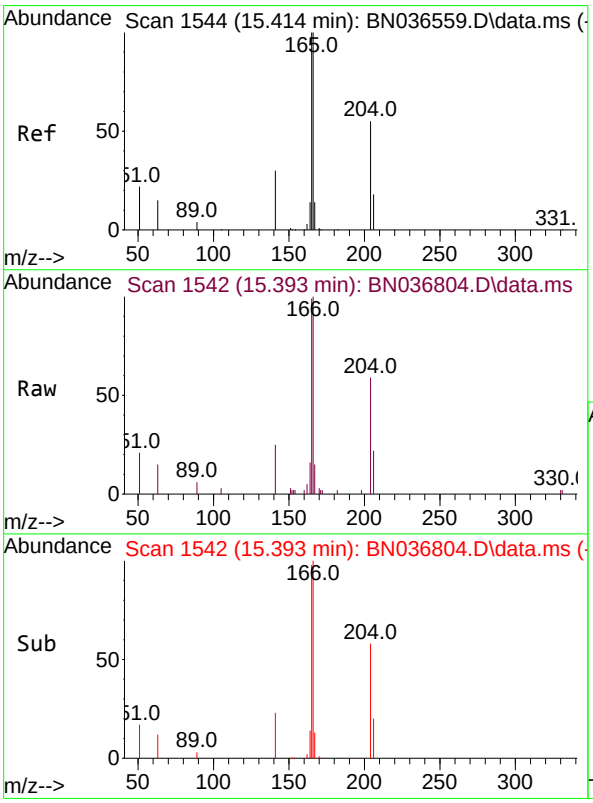

#17
Acenaphthene
Concen: 0.378 ng
RT: 14.398 min Scan# 14
Delta R.T. -0.032 min
Lab File: BN036804.D
Acq: 29 Mar 2025 10:33

**Instrument :**
BNA_N
**ClientSampleId :**
PB167295BS

Tgt Ion:154 Resp: 2758

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 116.4 | 94.1 | 141.1 |
| 152 | 62.4 | 49.8 | 74.6 |

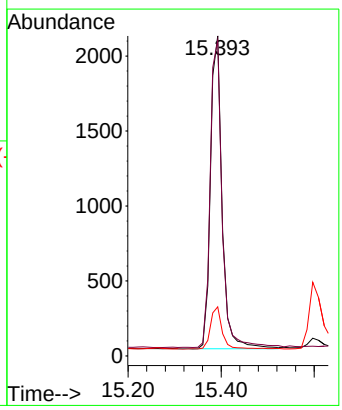


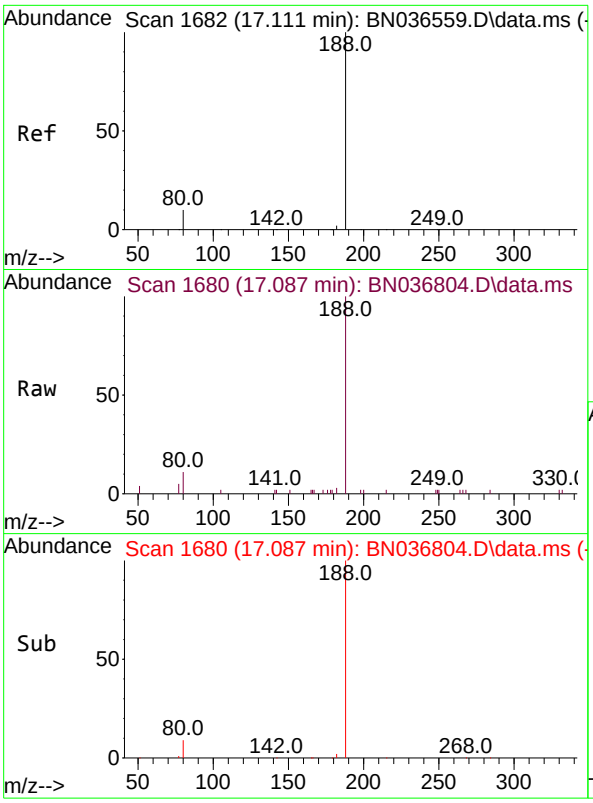




#18
Fluorene
Concen: 0.369 ng
RT: 15.393 min Scan# 1542
Delta R.T. -0.021 min
Lab File: BN036804.D
Acq: 29 Mar 2025 10:33

Tgt Ion:166 Resp: 3648

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 101.1 | 79.8 | 119.8 |
| 167 | 14.0 | 10.6 | 15.8 |



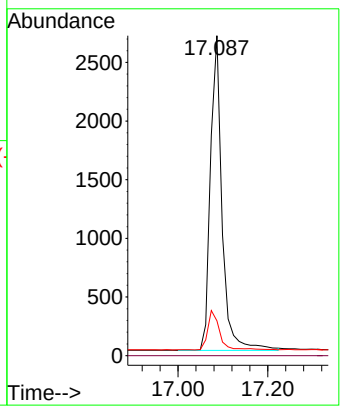


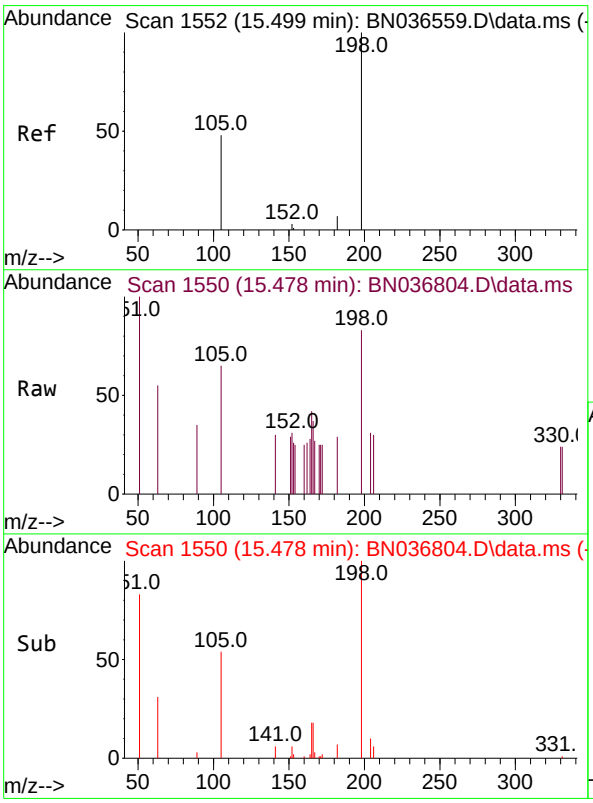

#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.087 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036804.D
Acq: 29 Mar 2025 10:33

**Instrument :**
BNA_N
**ClientSampleId :**
PB167295BS

Tgt Ion:188 Resp: 4802

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 10.9 | 8.8 | 13.2 |

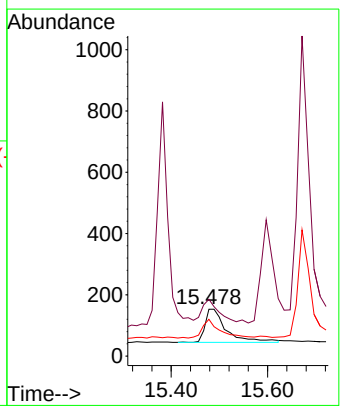


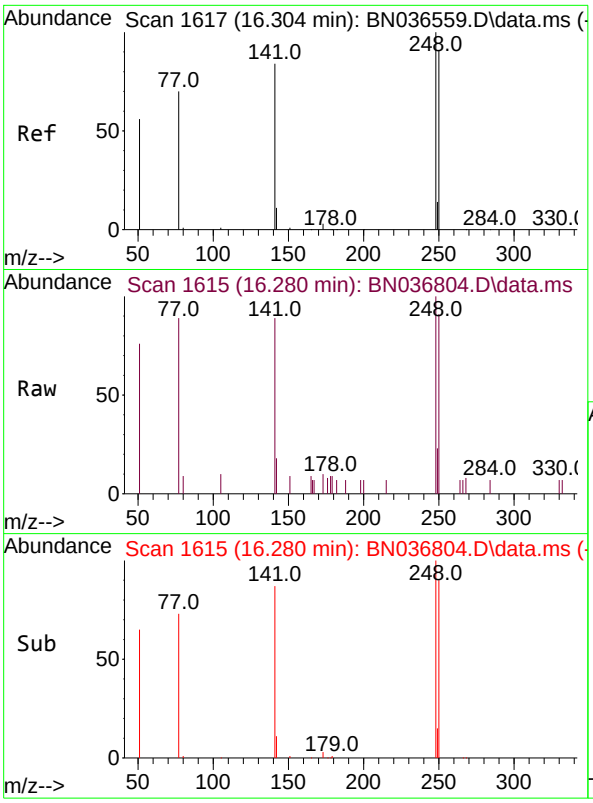




#20
4,6-Dinitro-2-methylphenol
Concen: 0.424 ng
RT: 15.478 min Scan# 1550
Delta R.T. -0.021 min
Lab File: BN036804.D
Acq: 29 Mar 2025 10:33

Tgt Ion:198 Resp: 341

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 198 | 100 | | |
| 51 | 120.9 | 107.9 | 161.9 |
| 105 | 78.4 | 56.2 | 84.2 |



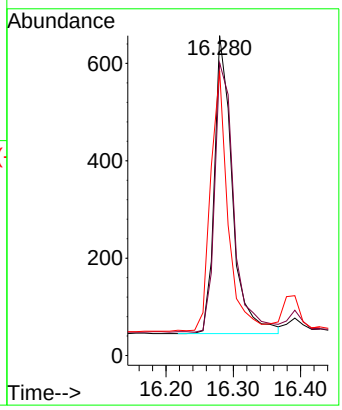


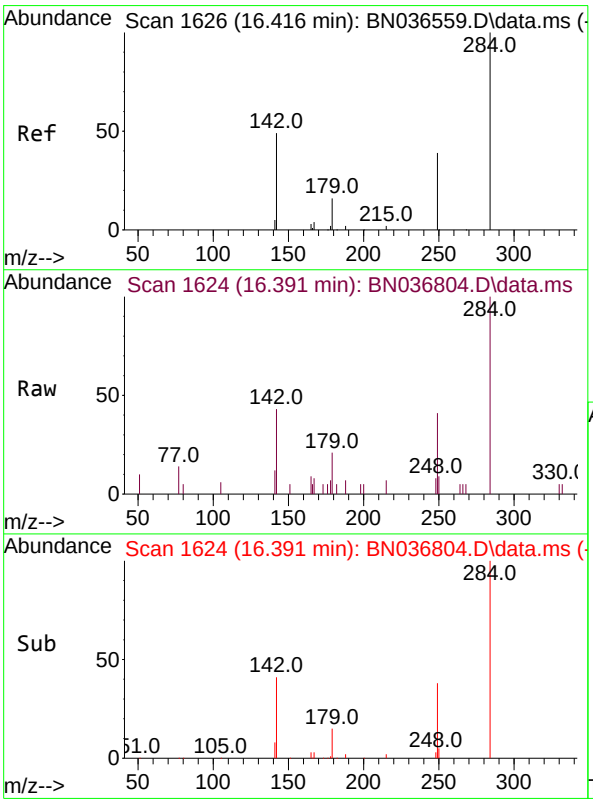

#21
4-Bromophenyl-phenylether
Concen: 0.376 ng
RT: 16.280 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036804.D
Acq: 29 Mar 2025 10:33

**Instrument :**
BNA_N
**ClientSampleId :**
PB167295BS

Tgt Ion:248 Resp: 1132

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 91.5 | 73.0 | 109.6 |
| 141 | 89.0 | 68.6 | 103.0 |

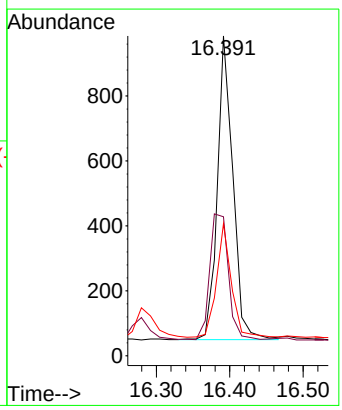


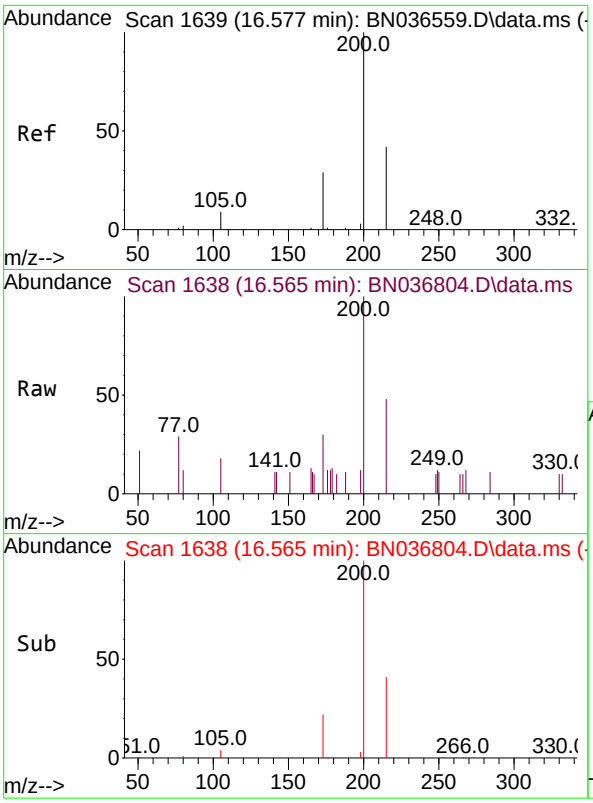




#22
Hexachlorobenzene
Concen: 0.378 ng
RT: 16.391 min Scan# 1624
Delta R.T. -0.025 min
Lab File: BN036804.D
Acq: 29 Mar 2025 10:33

Tgt Ion:284 Resp: 1372

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 49.3 | 37.0 | 55.4 |
| 249 | 36.2 | 28.1 | 42.1 |



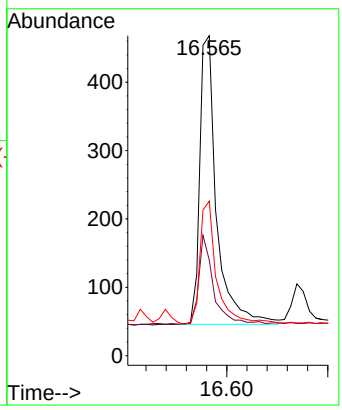


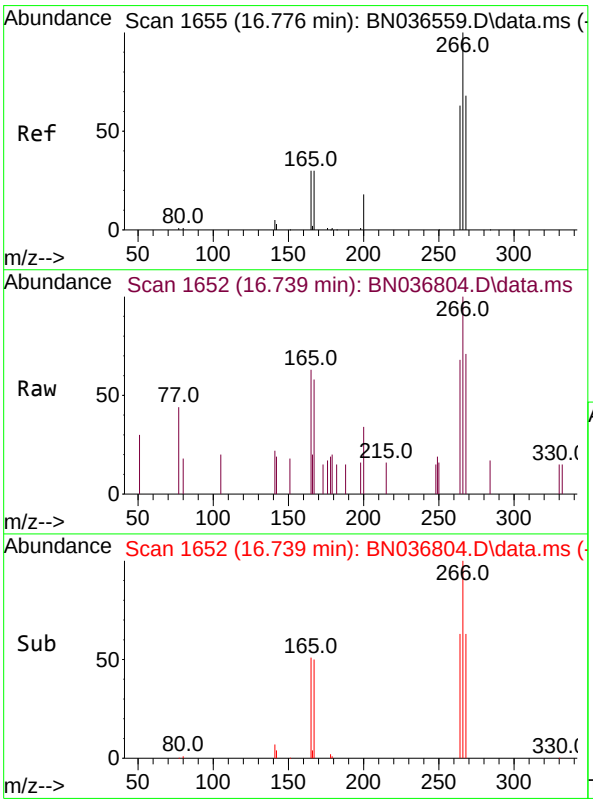

#23
Atrazine
Concen: 0.406 ng
RT: 16.565 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN036804.D
Acq: 29 Mar 2025 10:33

**Instrument :**
BNA_N
**ClientSampleId :**
PB167295BS

Tgt Ion:200 Resp: 980

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 173 | 29.9 | 27.3 | 40.9 |
| 215 | 48.3 | 36.8 | 55.2 |

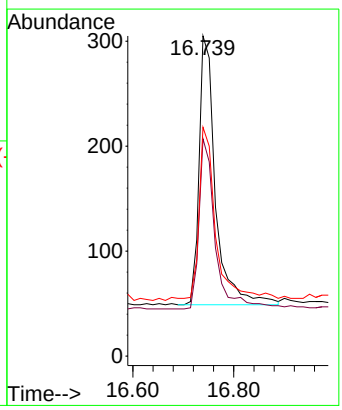


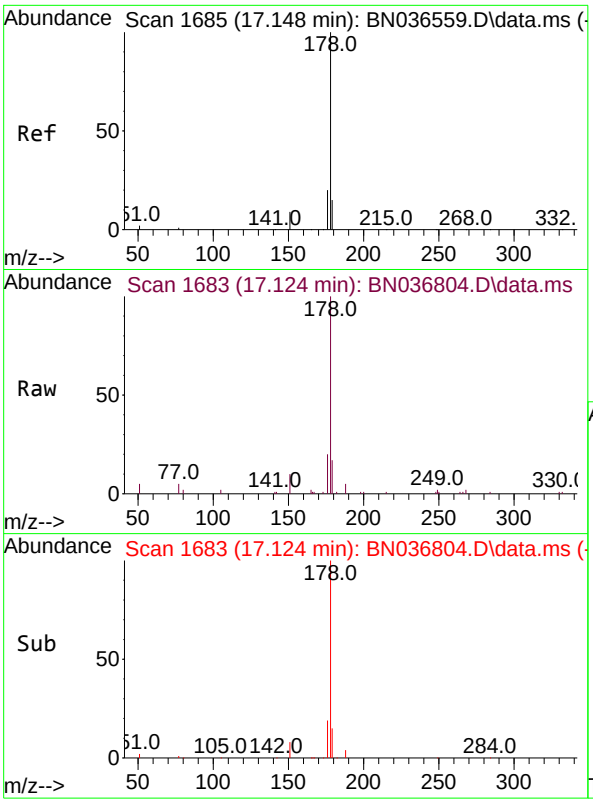




#24
Pentachlorophenol
Concen: 0.350 ng
RT: 16.739 min Scan# 1652
Delta R.T. -0.037 min
Lab File: BN036804.D
Acq: 29 Mar 2025 10:33

Tgt Ion:266 Resp: 579

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 264 | 62.7 | 49.6 | 74.4 |
| 268 | 67.4 | 50.9 | 76.3 |



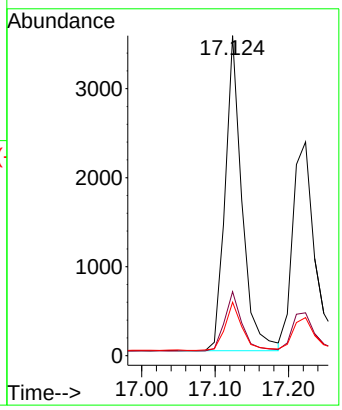


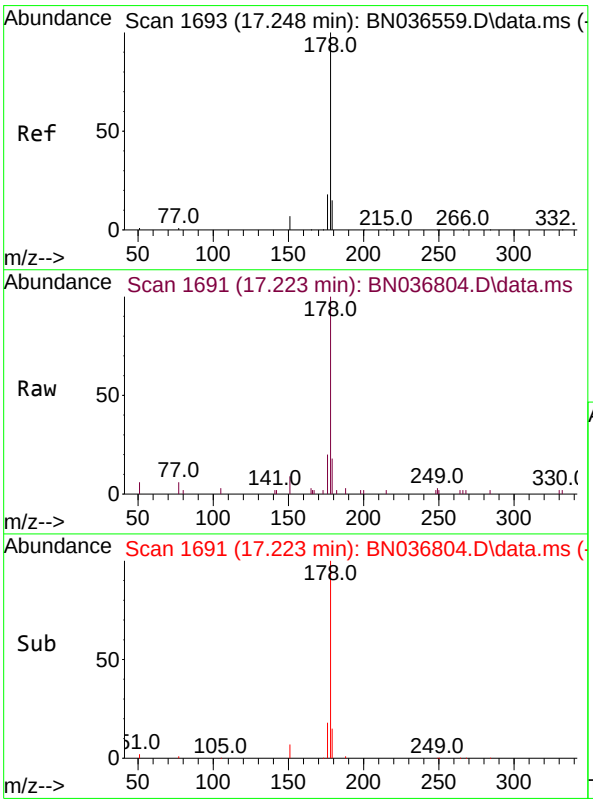

#25
Phenanthrene
Concen: 0.392 ng
RT: 17.124 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036804.D
Acq: 29 Mar 2025 10:33

**Instrument :**
BNA_N
**ClientSampleId :**
PB167295BS

Tgt Ion:178 Resp: 5643

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.6 | 15.9 | 23.9 |
| 179 | 15.5 | 12.2 | 18.4 |

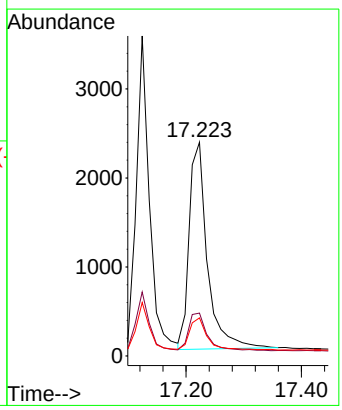


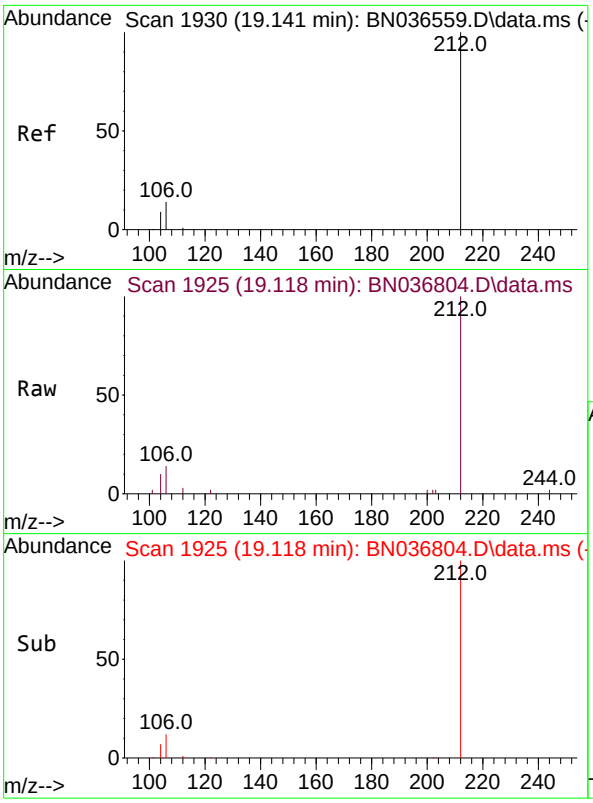




#26
Anthracene
Concen: 0.391 ng
RT: 17.223 min Scan# 1691
Delta R.T. -0.025 min
Lab File: BN036804.D
Acq: 29 Mar 2025 10:33

Tgt Ion:178 Resp: 5086

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.8 | 15.4 | 23.2 |
| 179 | 15.9 | 12.6 | 18.8 |



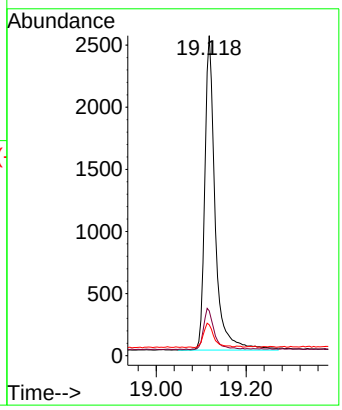


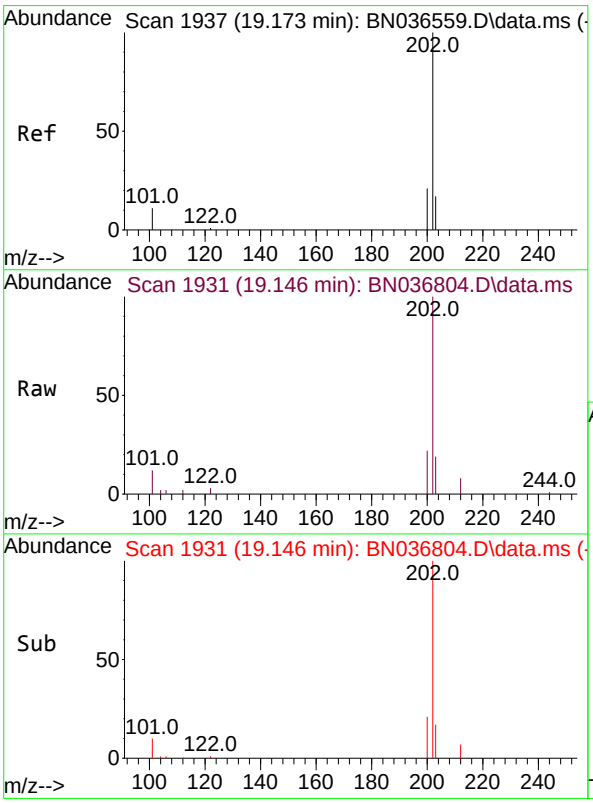

#27
Fluoranthene-d10
Concen: 0.330 ng
RT: 19.118 min Scan# 1
Delta R.T. -0.023 min
Lab File: BN036804.D
Acq: 29 Mar 2025 10:33

**Instrument :**
BNA_N
**ClientSampleId :**
PB167295BS

Tgt Ion:212 Resp: 4058

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 13.1 | 11.8 | 17.6 |
| 104 | 7.9 | 7.3 | 10.9 |

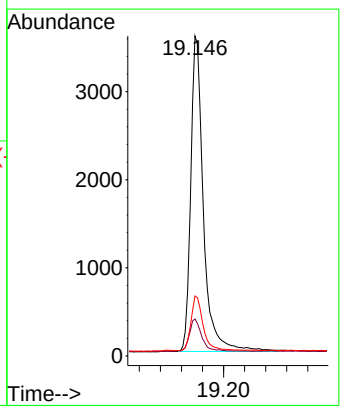


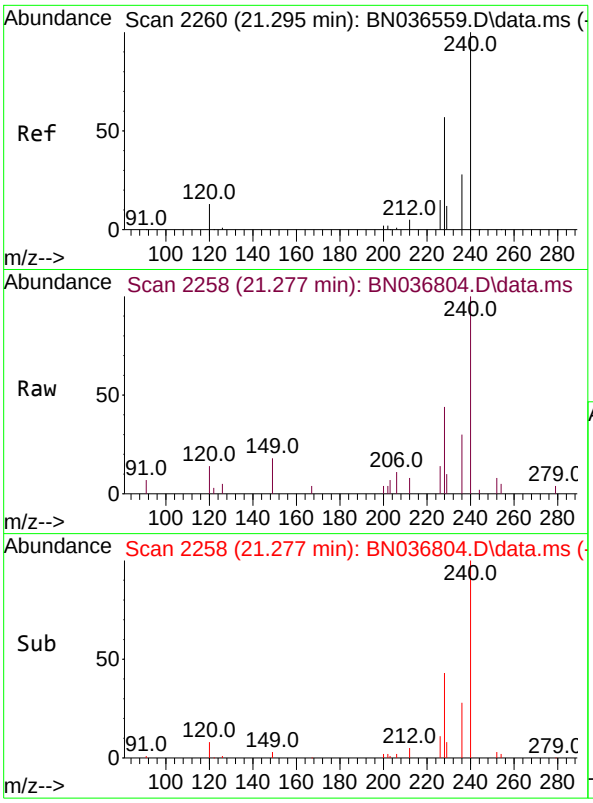




#28
Fluoranthene
Concen: 0.372 ng
RT: 19.146 min Scan# 1931
Delta R.T. -0.028 min
Lab File: BN036804.D
Acq: 29 Mar 2025 10:33

Tgt Ion:202 Resp: 6015

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 10.1 | 9.4 | 14.0 |
| 203 | 16.9 | 13.5 | 20.3 |



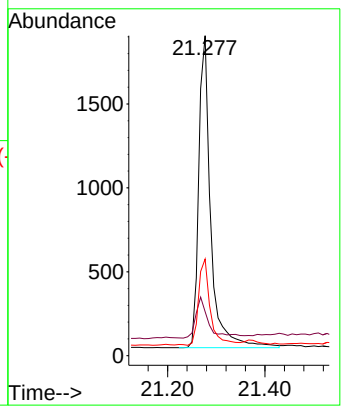


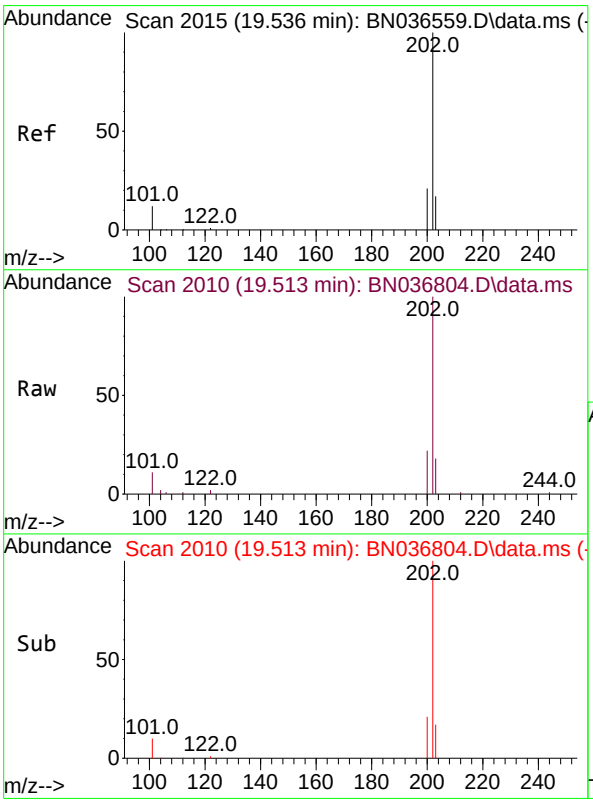

#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036804.D
Acq: 29 Mar 2025 10:33

**Instrument :**
BNA_N
**ClientSampleId :**
PB167295BS

Tgt Ion:240 Resp: 3163

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 13.7 | 14.6 | 22.0# |
| 236 | 30.2 | 24.1 | 36.1 |

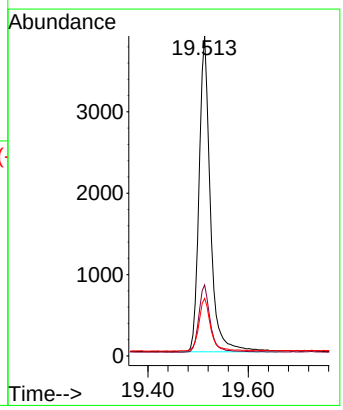


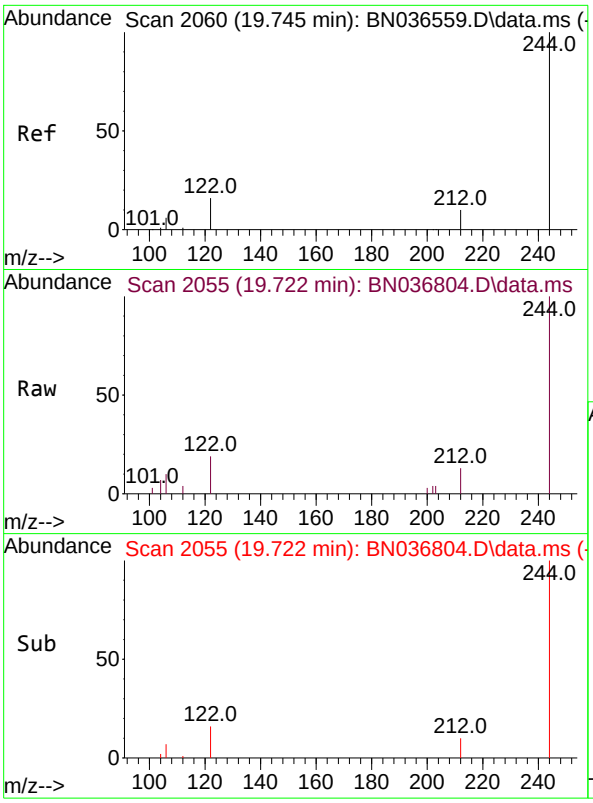




#30
Pyrene
Concen: 0.391 ng
RT: 19.513 min Scan# 2010
Delta R.T. -0.023 min
Lab File: BN036804.D
Acq: 29 Mar 2025 10:33

Tgt Ion:202 Resp: 6044

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.5 | 17.1 | 25.7 |
| 203 | 17.3 | 14.1 | 21.1 |



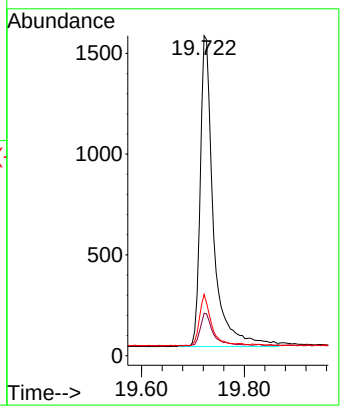


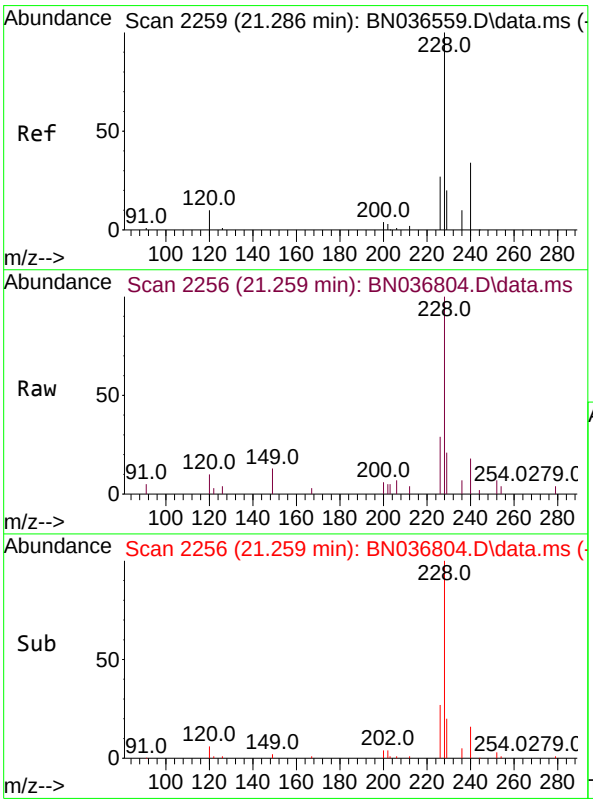

#31
Terphenyl-d14
Concen: 0.366 ng
RT: 19.722 min Scan# 2
Delta R.T. -0.023 min
Lab File: BN036804.D
Acq: 29 Mar 2025 10:33

**Instrument :**
BNA_N
**ClientSampleId :**
PB167295BS

Tgt Ion:244 Resp: 2773

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 13.2 | 9.6 | 14.4 |
| 122 | 19.1 | 13.9 | 20.9 |

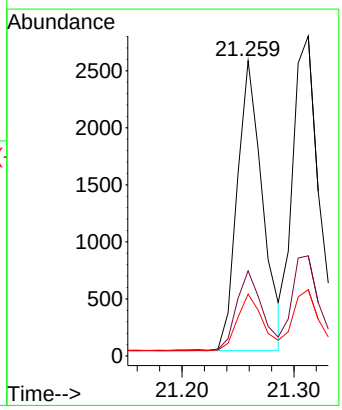


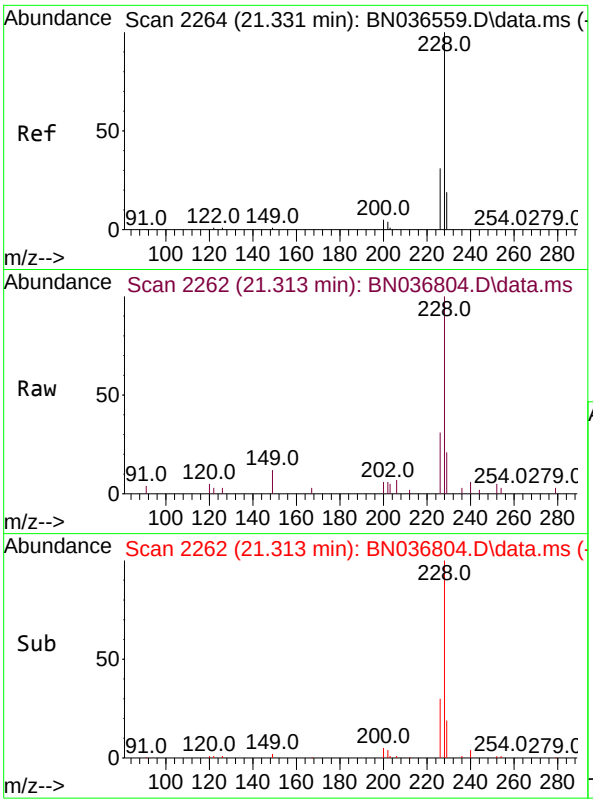




#32
Benzo(a)anthracene
Concen: 0.364 ng
RT: 21.259 min Scan# 2256
Delta R.T. -0.027 min
Lab File: BN036804.D
Acq: 29 Mar 2025 10:33

Tgt Ion:228 Resp: 3999

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 28.8 | 22.5 | 33.7 |
| 229 | 21.0 | 16.6 | 25.0 |



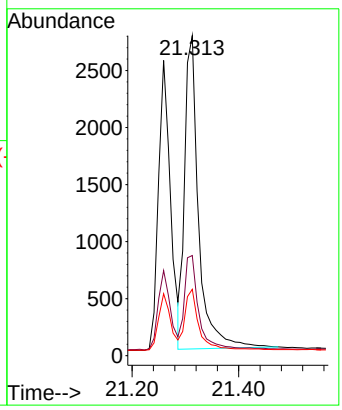


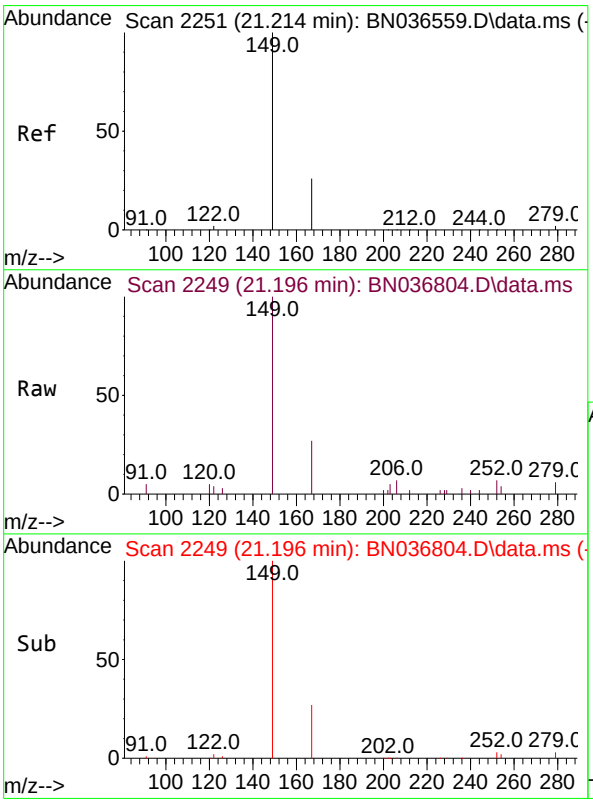

#33
Chrysene
Concen: 0.414 ng
RT: 21.313 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036804.D
Acq: 29 Mar 2025 10:33

**Instrument :**
BNA_N
**ClientSampleId :**
PB167295BS

Tgt Ion:228 Resp: 4976

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 31.3 | 25.3 | 37.9 |
| 229 | 20.7 | 15.8 | 23.8 |

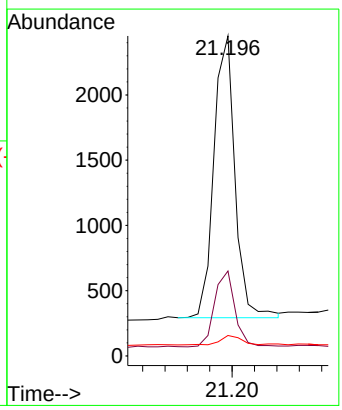


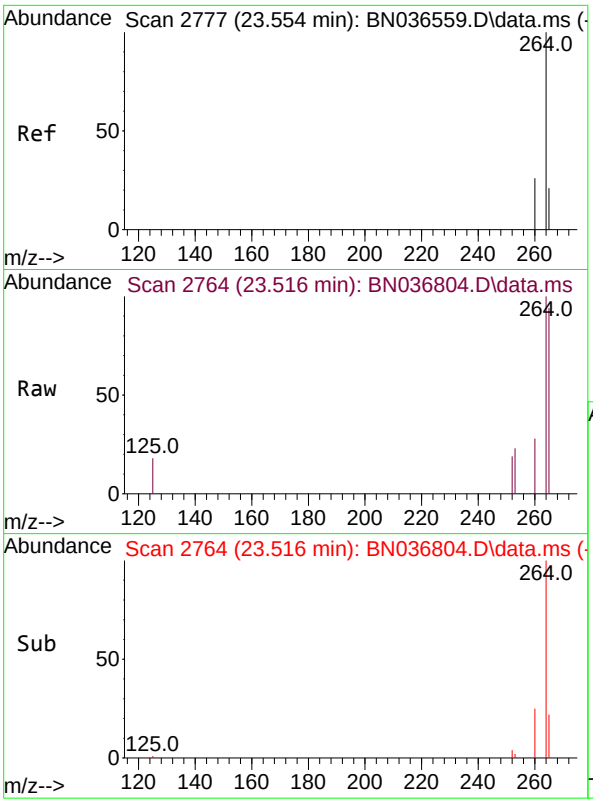




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.362 ng
RT: 21.196 min Scan# 2249
Delta R.T. -0.018 min
Lab File: BN036804.D
Acq: 29 Mar 2025 10:33

Tgt Ion:149 Resp: 2833

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 26.1 | 20.7 | 31.1 |
| 279 | 3.7 | 3.6 | 5.4 |



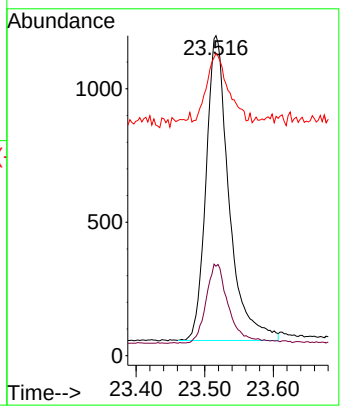


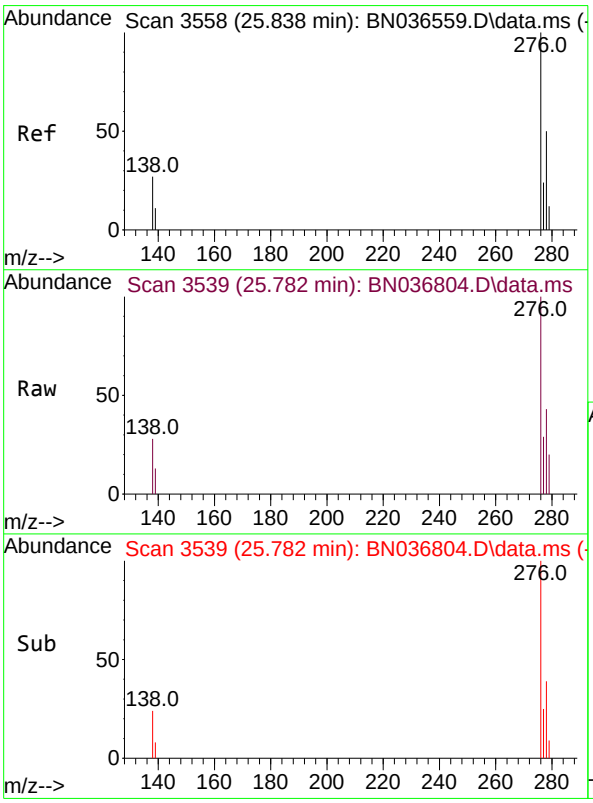

#35
Perylene-d12
Concen: 0.400 ng
RT: 23.516 min Scan# 2
Delta R.T. -0.038 min
Lab File: BN036804.D
Acq: 29 Mar 2025 10:33

**Instrument :**
BNA_N
**ClientSampleId :**
PB167295BS

Tgt Ion:264 Resp: 2660

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 27.9 | 22.6 | 33.8 |
| 265 | 94.4 | 88.1 | 132.1 |

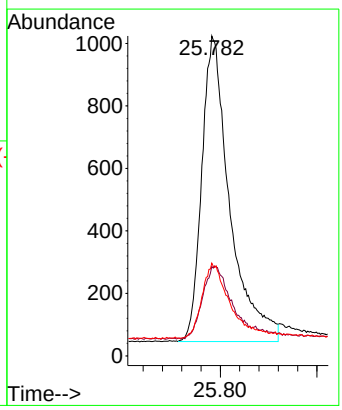


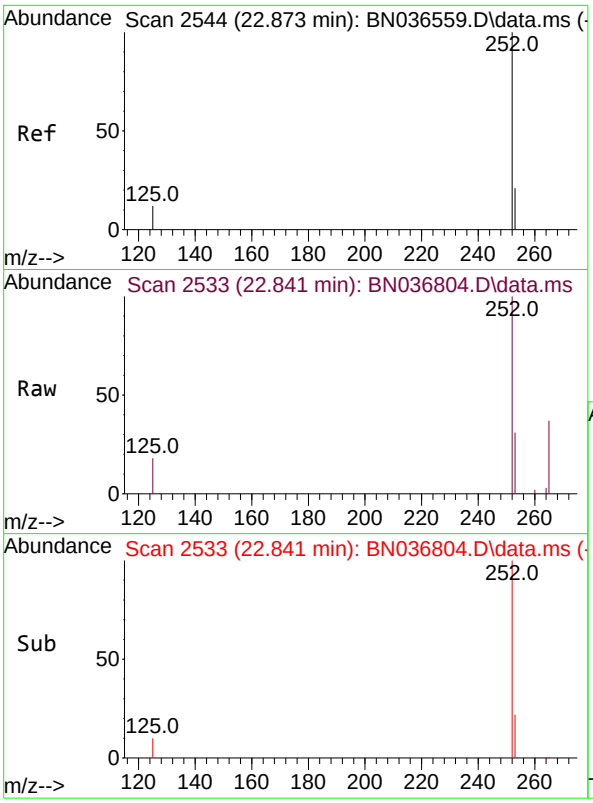




#36
Indeno(1,2,3-cd)pyrene
Concen: 0.410 ng
RT: 25.782 min Scan# 3539
Delta R.T. -0.055 min
Lab File: BN036804.D
Acq: 29 Mar 2025 10:33

Tgt Ion:276 Resp: 3938

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 24.2 | 23.4 | 35.2 |
| 277 | 24.6 | 20.0 | 30.0 |



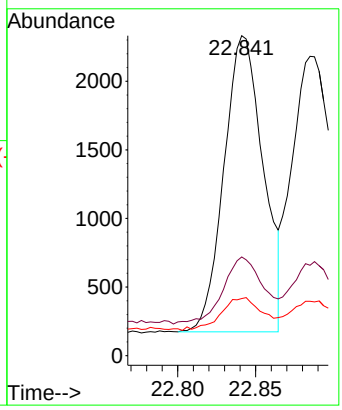


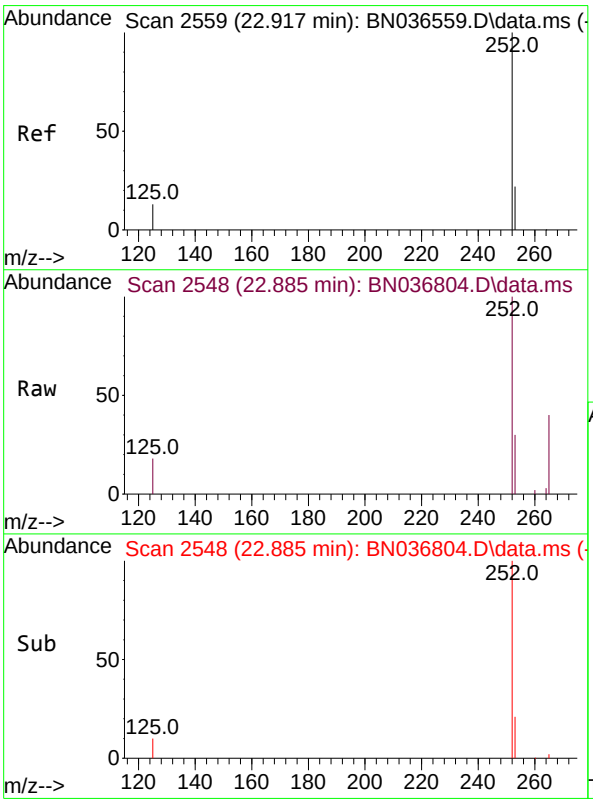

#37
Benzo(b)fluoranthene
Concen: 0.390 ng
RT: 22.841 min Scan# 2
Delta R.T. -0.032 min
Lab File: BN036804.D
Acq: 29 Mar 2025 10:33

**Instrument :**
BNA_N
**ClientSampleId :**
PB167295BS

Tgt Ion:252 Resp: 3780

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 30.8 | 23.9 | 35.9 |
| 125 | 17.8 | 17.4 | 26.2 |

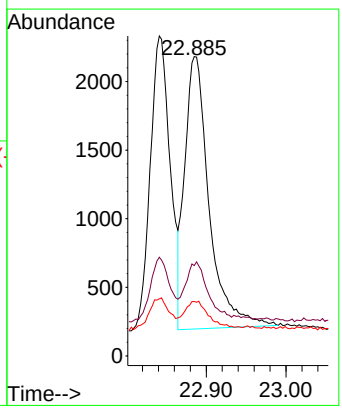


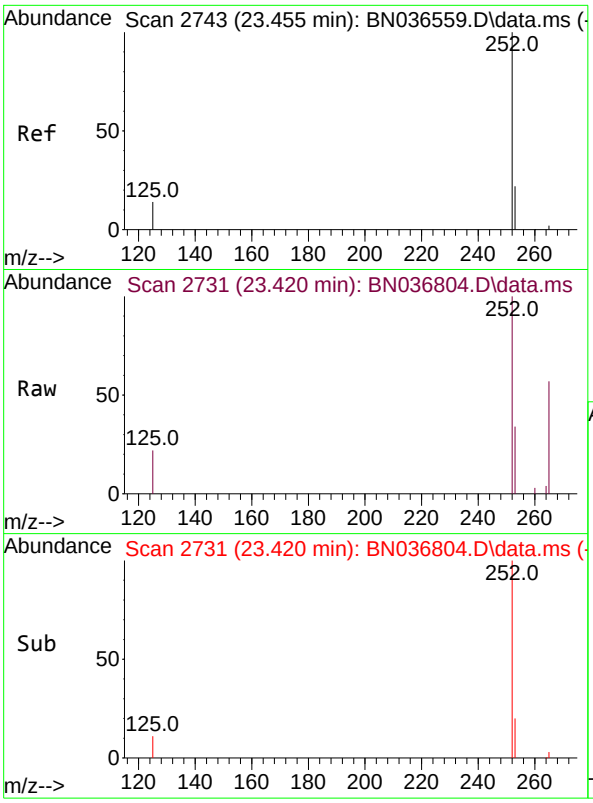




#38
Benzo(k)fluoranthene
Concen: 0.415 ng
RT: 22.885 min Scan# 2548
Delta R.T. -0.032 min
Lab File: BN036804.D
Acq: 29 Mar 2025 10:33

Tgt Ion:252 Resp: 4216

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 30.2 | 24.6 | 36.8 |
| 125 | 18.2 | 17.8 | 26.8 |



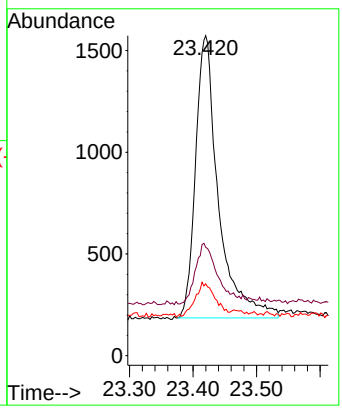


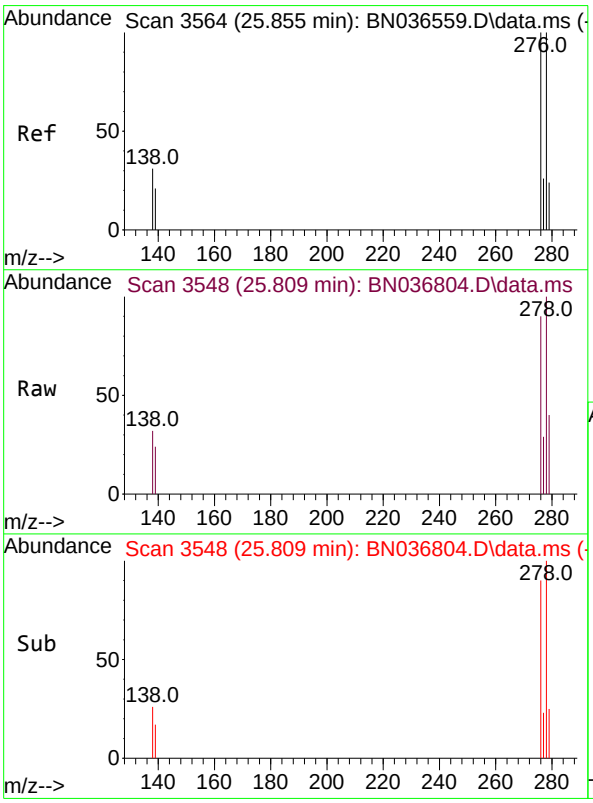

#39
Benzo(a)pyrene
Concen: 0.425 ng
RT: 23.420 min Scan# 2
Delta R.T. -0.035 min
Lab File: BN036804.D
Acq: 29 Mar 2025 10:33

**Instrument :**
BNA_N
**ClientSampleId :**
PB167295BS

Tgt Ion:252 Resp: 3467

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 33.9 | 27.8 | 41.8 |
| 125 | 22.4 | 22.7 | 34.1# |

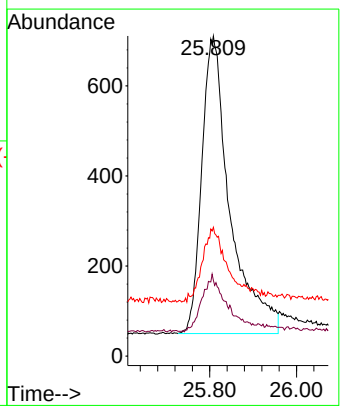


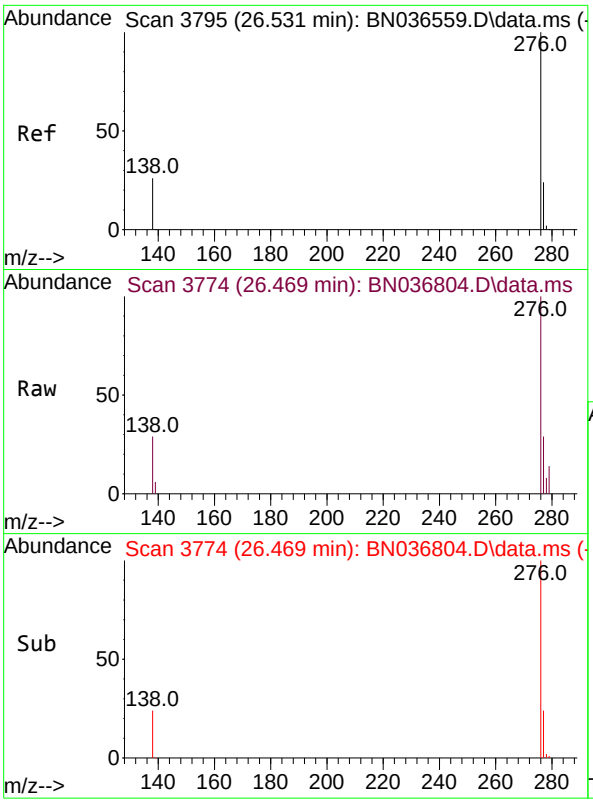




#40
Dibenzo(a,h)anthracene
Concen: 0.399 ng
RT: 25.809 min Scan# 3548
Delta R.T. -0.047 min
Lab File: BN036804.D
Acq: 29 Mar 2025 10:33

Tgt Ion:278 Resp: 2985

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 23.6 | 20.8 | 31.2 |
| 279 | 40.2 | 28.8 | 43.2 |



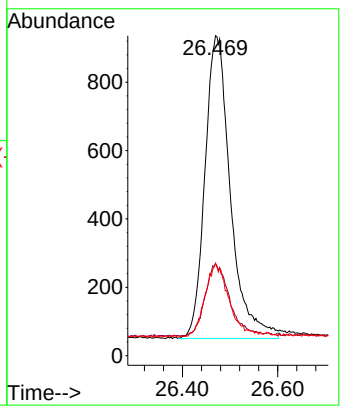



#41
Benzo(g,h,i)perylene
Concen: 0.386 ng
RT: 26.469 min Scan# 3
Delta R.T. -0.061 min
Lab File: BN036804.D
Acq: 29 Mar 2025 10:33

**Instrument :**
BNA_N
**ClientSampleId :**
PB167295BS

Tgt Ion:276 Resp: 3297

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 28.8 | 22.2 | 33.4 |
| 138 | 28.8 | 24.1 | 36.1 |



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032825\
Data File : BN036807.D
Acq On : 29 Mar 2025 12:21
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 38 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Quant Time: Mar 31 02:01:08 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

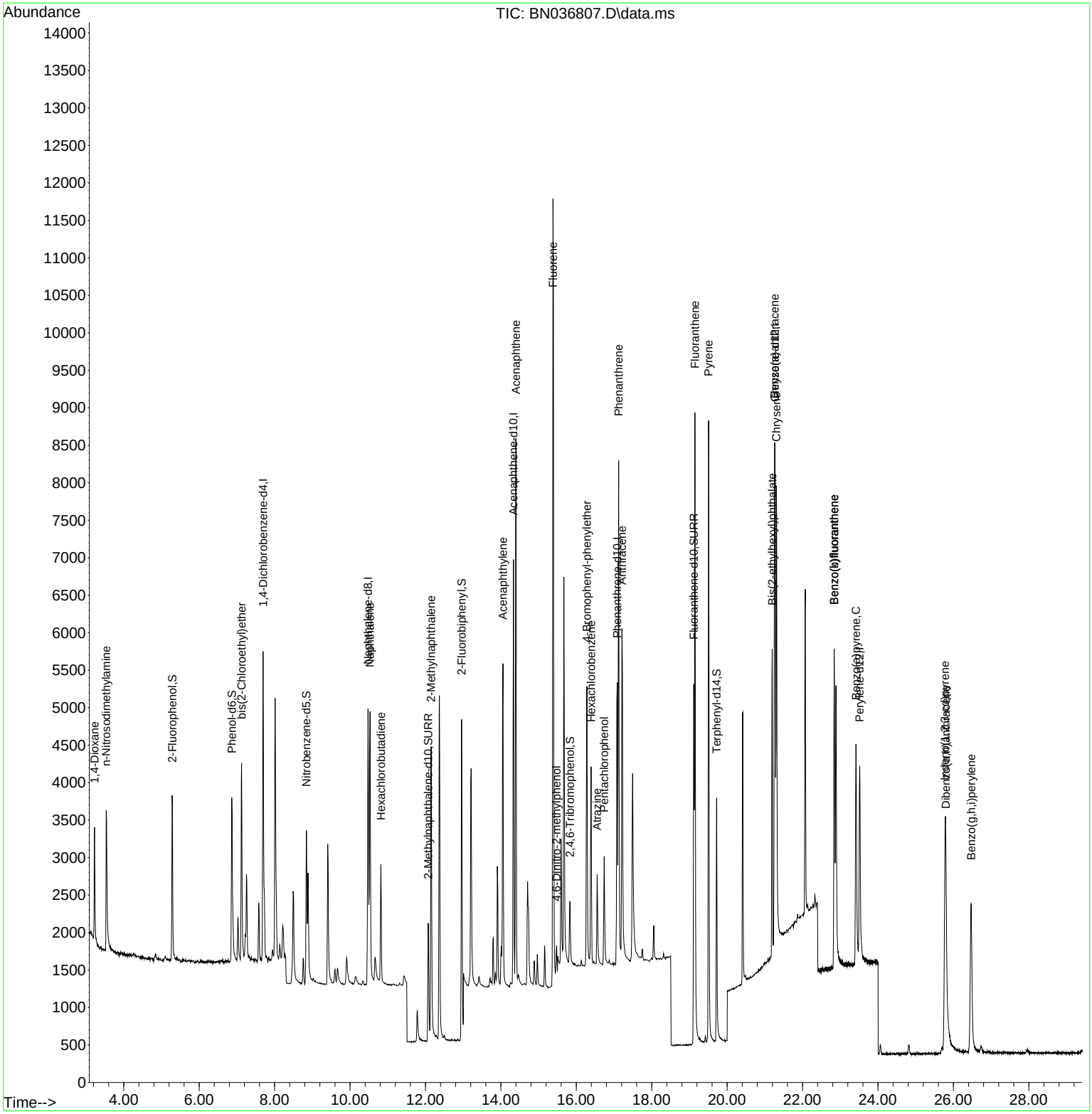
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.695 | 152 | 1976 | 0.400 | ng | | -0.03 |
| 7) Naphthalene-d8 | 10.477 | 136 | 4956 | 0.400 | ng | | -0.03 |
| 13) Acenaphthene-d10 | 14.334 | 164 | 3044 | 0.400 | ng | | -0.03 |
| 19) Phenanthrene-d10 | 17.086 | 188 | 6169 | 0.400 | ng | | #-0.02 |
| 29) Chrysene-d12 | 21.268 | 240 | 4366 | 0.400 | ng | | -0.03 |
| 35) Perylene-d12 | 23.516 | 264 | 3818 | 0.400 | ng | | #-0.04 |
| System Monitoring Compounds | | | | | | | |
| 4) 2-Fluorophenol | 5.290 | 112 | 1649 | 0.358 | ng | | -0.02 |
| 5) Phenol-d6 | 6.865 | 99 | 1932 | 0.340 | ng | | -0.04 |
| 8) Nitrobenzene-d5 | 8.843 | 82 | 1802 | 0.334 | ng | | -0.03 |
| 11) 2-Methylnaphthalene-d10 | 12.075 | 152 | 2608 | 0.354 | ng | | -0.04 |
| 14) 2,4,6-Tribromophenol | 15.833 | 330 | 513 | 0.371 | ng | | -0.02 |
| 15) 2-Fluorobiphenyl | 12.958 | 172 | 5830 | 0.329 | ng | | -0.03 |
| 27) Fluoranthene-d10 | 19.118 | 212 | 6077 | 0.384 | ng | | -0.02 |
| 31) Terphenyl-d14 | 19.722 | 244 | 3821 | 0.365 | ng | | -0.02 |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.225 | 88 | 902 | 0.411 | ng | | 97 |
| 3) n-Nitrosodimethylamine | 3.535 | 42 | 1839 | 0.415 | ng | | 92 |
| 6) bis(2-Chloroethyl)ether | 7.125 | 93 | 1990 | 0.338 | ng | | 99 |
| 9) Naphthalene | 10.530 | 128 | 5183 | 0.356 | ng | | 99 |
| 10) Hexachlorobutadiene | 10.818 | 225 | 1228 | 0.358 | ng | # | 100 |
| 12) 2-Methylnaphthalene | 12.151 | 142 | 3312 | 0.357 | ng | | 98 |
| 16) Acenaphthylene | 14.056 | 152 | 5001 | 0.348 | ng | | 99 |
| 17) Acenaphthene | 14.398 | 154 | 3395 | 0.361 | ng | | 99 |
| 18) Fluorene | 15.382 | 166 | 4624 | 0.364 | ng | | 100 |
| 20) 4,6-Dinitro-2-methylph... | 15.478 | 198 | 475 | 0.447 | ng | # | 73 |
| 21) 4-Bromophenyl-phenylether | 16.280 | 248 | 1424 | 0.368 | ng | | 93 |
| 22) Hexachlorobenzene | 16.391 | 284 | 1729 | 0.371 | ng | | 97 |
| 23) Atrazine | 16.553 | 200 | 1168 | 0.377 | ng | | 96 |
| 24) Pentachlorophenol | 16.739 | 266 | 792 | 0.372 | ng | | 99 |
| 25) Phenanthrene | 17.124 | 178 | 6985 | 0.377 | ng | | 100 |
| 26) Anthracene | 17.211 | 178 | 6251 | 0.374 | ng | | 98 |
| 28) Fluoranthene | 19.146 | 202 | 8157 | 0.392 | ng | | 98 |
| 30) Pyrene | 19.508 | 202 | 8270 | 0.387 | ng | | 100 |
| 32) Benzo(a)anthracene | 21.259 | 228 | 5377 | 0.354 | ng | | 100 |
| 33) Chrysene | 21.304 | 228 | 6263 | 0.378 | ng | | 99 |
| 34) Bis(2-ethylhexyl)phtha... | 21.196 | 149 | 4162 | 0.385 | ng | # | 99 |
| 36) Indeno(1,2,3-cd)pyrene | 25.779 | 276 | 5188 | 0.376 | ng | | 93 |
| 37) Benzo(b)fluoranthene | 22.841 | 252 | 5191 | 0.374 | ng | | 98 |
| 38) Benzo(k)fluoranthene | 22.841 | 252 | 5191 | 0.356 | ng | | 97 |
| 39) Benzo(a)pyrene | 23.417 | 252 | 4547 | 0.389 | ng | | 96 |
| 40) Dibenzo(a,h)anthracene | 25.800 | 278 | 3712 | 0.346 | ng | | 96 |
| 41) Benzo(g,h,i)perylene | 26.472 | 276 | 4558 | 0.371 | ng | | 95 |

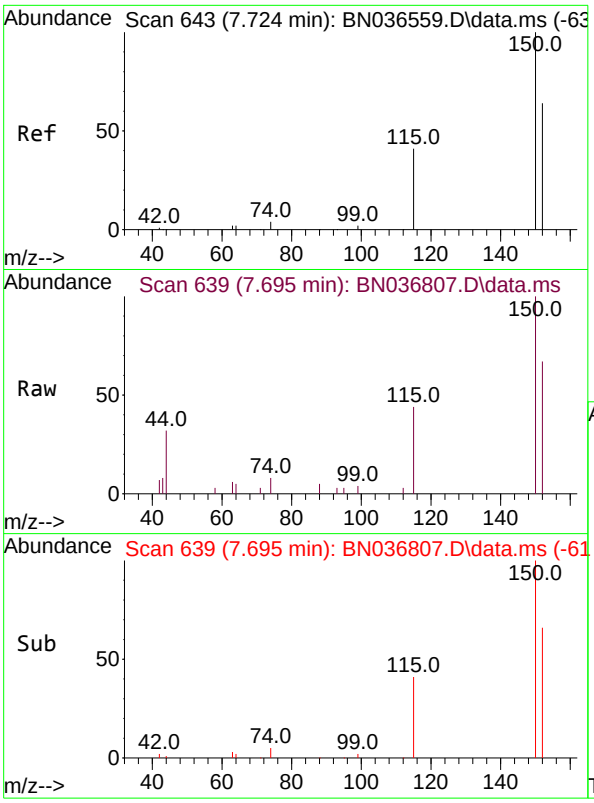
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032825\
Data File : BN036807.D
Acq On : 29 Mar 2025 12:21
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 38 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Quant Time: Mar 31 02:01:08 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration



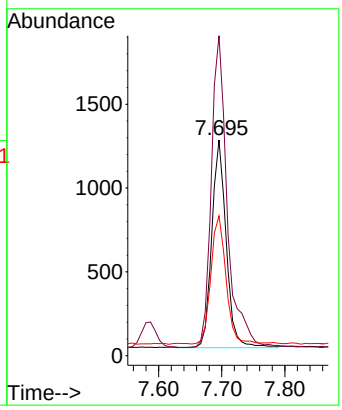


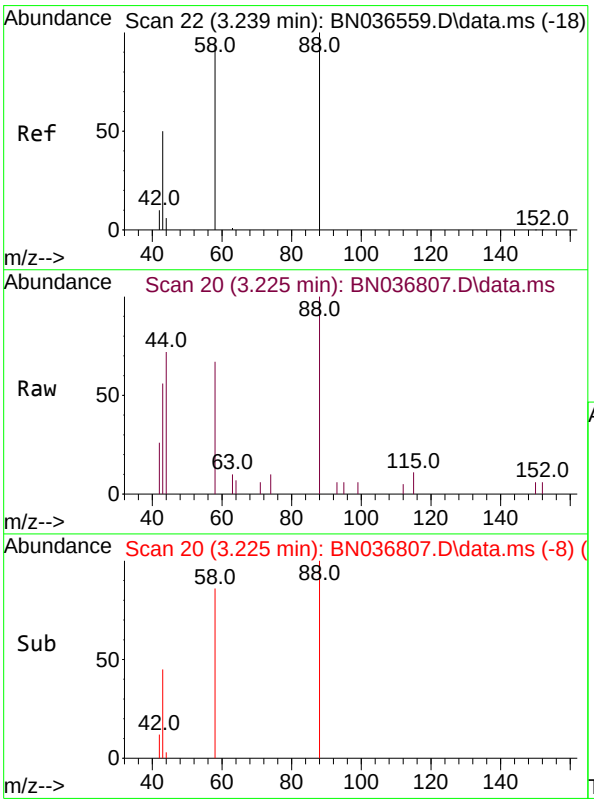

#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.695 min Scan# 6
Delta R.T. -0.029 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:152 Resp: 1976

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 148.3 | 123.7 | 185.5 |
| 115 | 64.8 | 54.3 | 81.5 |

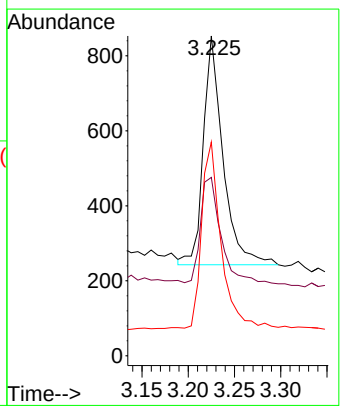


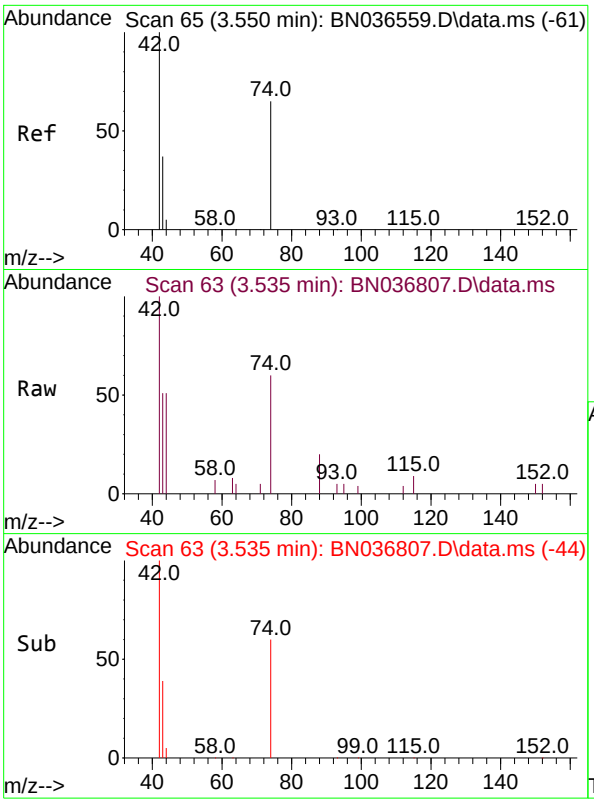




#2
1,4-Dioxane
Concen: 0.411 ng
RT: 3.225 min Scan# 20
Delta R.T. -0.014 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Tgt Ion: 88 Resp: 902

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 48.6 | 37.8 | 56.8 |
| 58 | 81.3 | 67.4 | 101.2 |



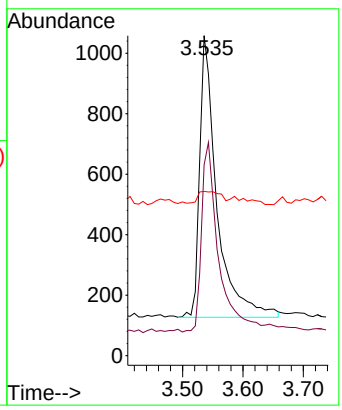


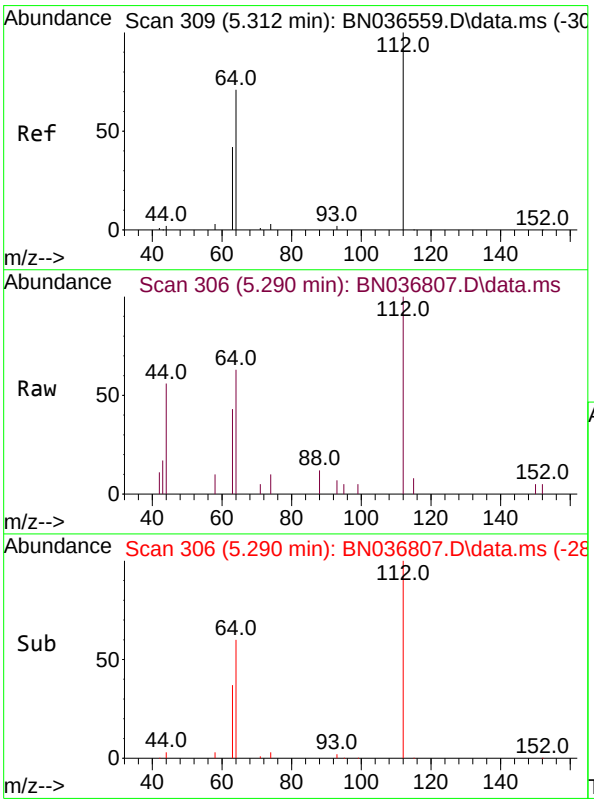

#3
n-Nitrosodimethylamine
Concen: 0.415 ng
RT: 3.535 min Scan# 6
Delta R.T. -0.014 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion: 42 Resp: 1839

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 68.4 | 60.6 | 90.8 |
| 44 | 6.7 | 6.3 | 9.5 |

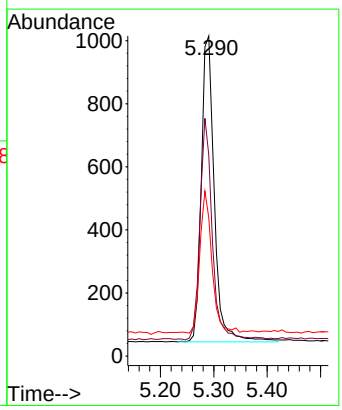


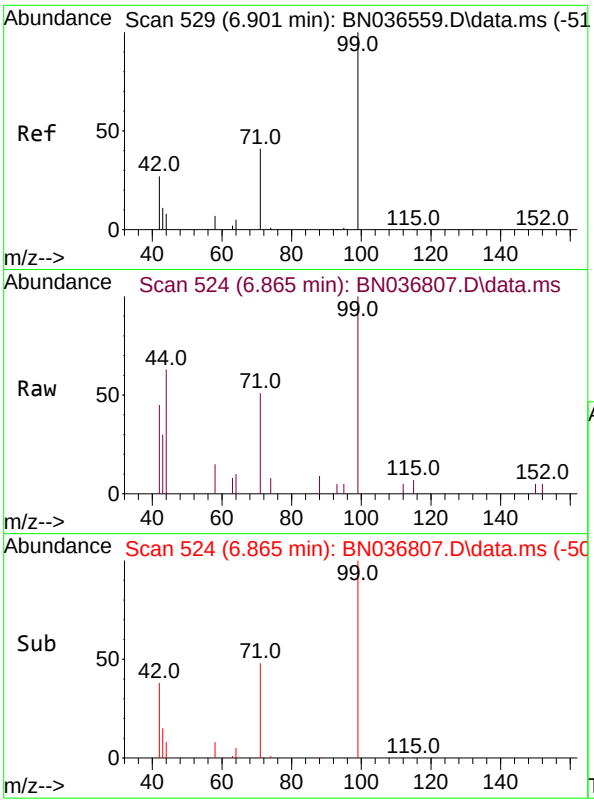




#4
2-Fluorophenol
Concen: 0.358 ng
RT: 5.290 min Scan# 306
Delta R.T. -0.022 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Tgt Ion:112 Resp: 1649

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 68.3 | 53.1 | 79.7 |
| 63 | 42.4 | 31.8 | 47.8 |



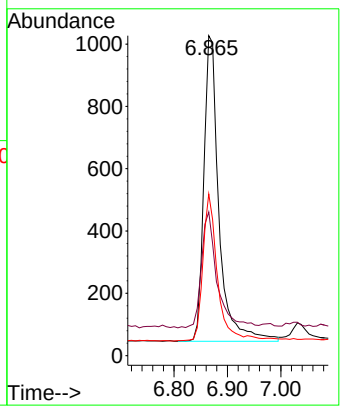


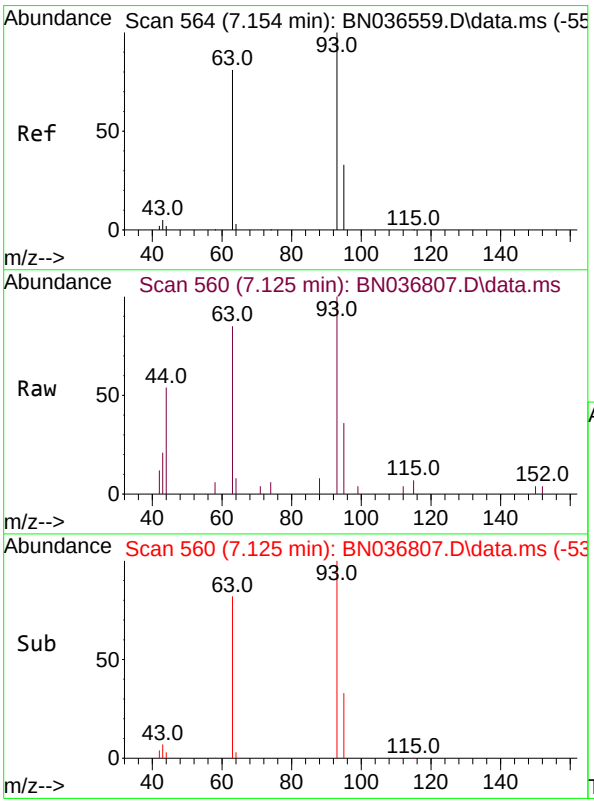

#5
Phenol-d6
Concen: 0.340 ng
RT: 6.865 min Scan# 5
Delta R.T. -0.036 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion: 99 Resp: 1932

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 39.4 | 26.5 | 39.7 |
| 71 | 46.4 | 34.1 | 51.1 |

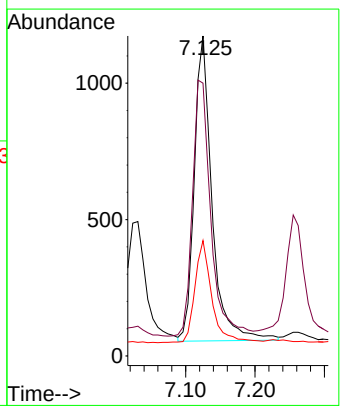


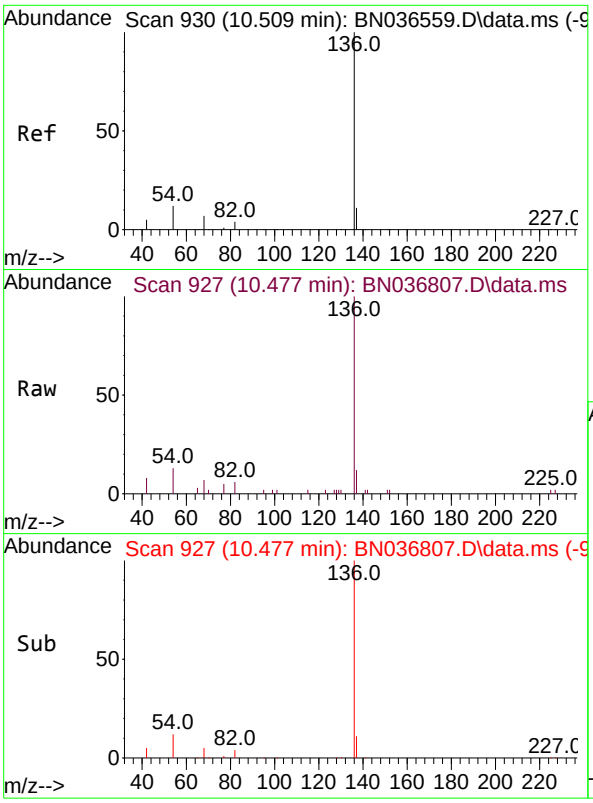




#6
bis(2-Chloroethyl)ether
Concen: 0.338 ng
RT: 7.125 min Scan# 560
Delta R.T. -0.029 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Tgt Ion: 93 Resp: 1990

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 86.3 | 67.7 | 101.5 |
| 95 | 31.9 | 25.6 | 38.4 |



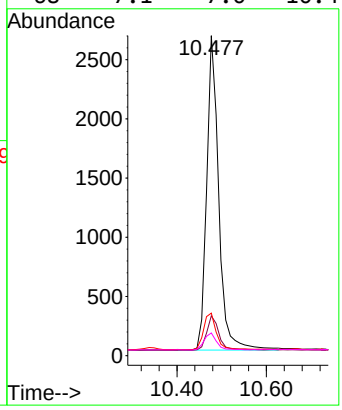


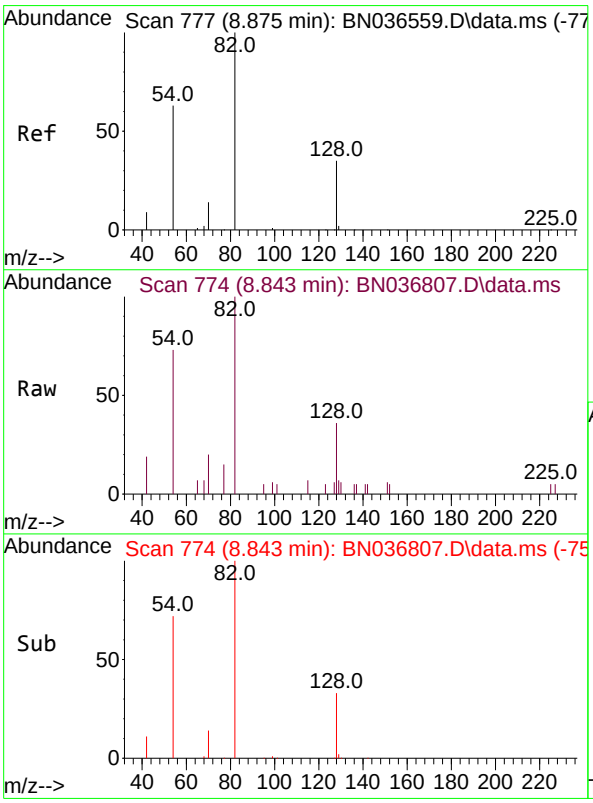

#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.477 min Scan# 9
Delta R.T. -0.032 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:136 Resp: 4956

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 12.4 | 10.3 | 15.5 |
| 54 | 13.3 | 11.5 | 17.3 |
| 68 | 7.1 | 7.0 | 10.4 |

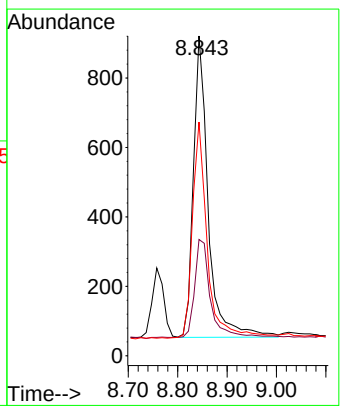


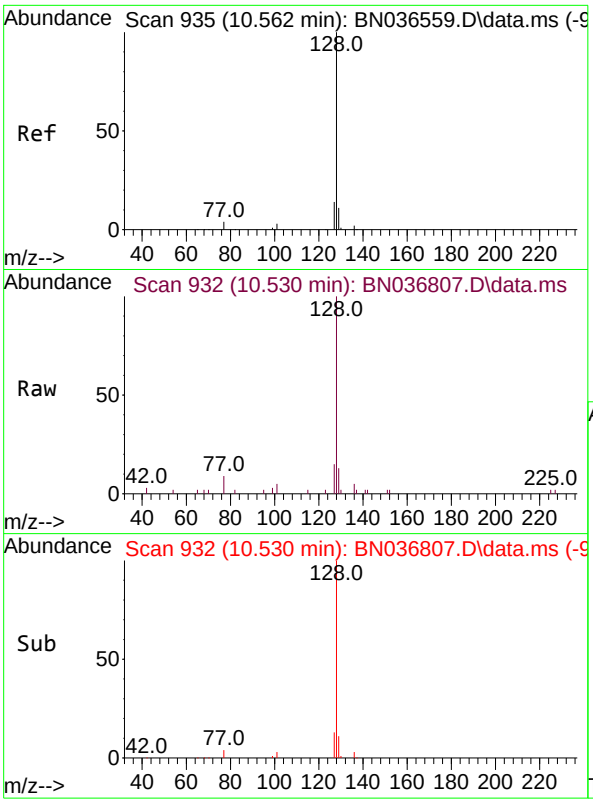




#8
Nitrobenzene-d5
Concen: 0.334 ng
RT: 8.843 min Scan# 774
Delta R.T. -0.032 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Tgt Ion: 82 Resp: 1802

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 36.4 | 30.6 | 45.8 |
| 54 | 73.1 | 52.2 | 78.4 |



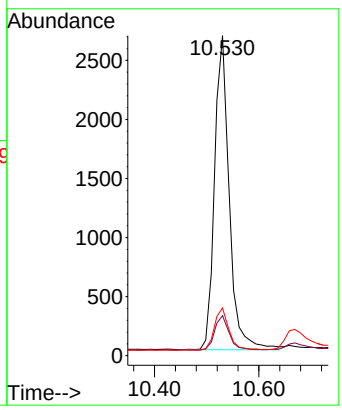


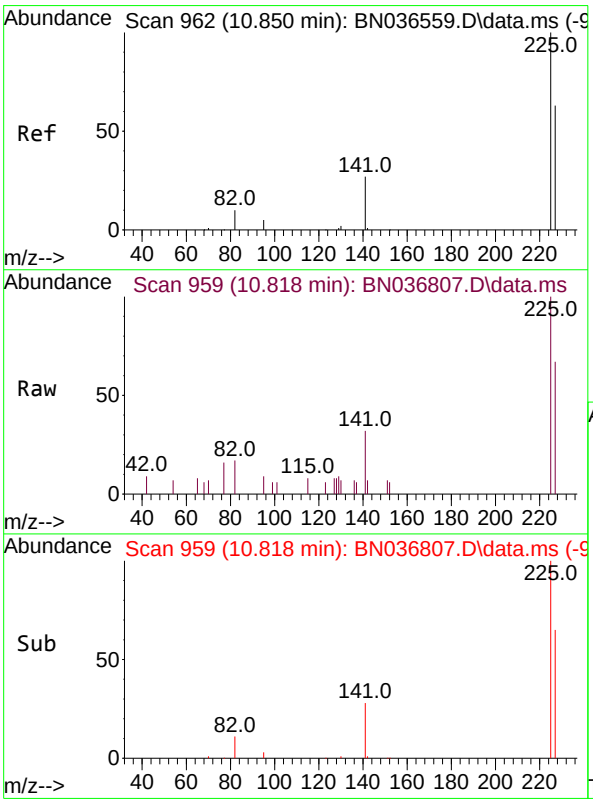

#9
Naphthalene
Concen: 0.356 ng
RT: 10.530 min Scan# 9
Delta R.T. -0.032 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:128 Resp: 5183

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 12.5 | 9.8 | 14.6 |
| 127 | 14.9 | 11.8 | 17.8 |

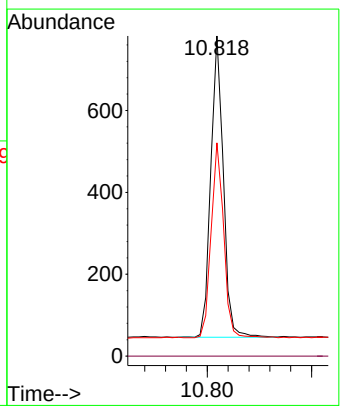


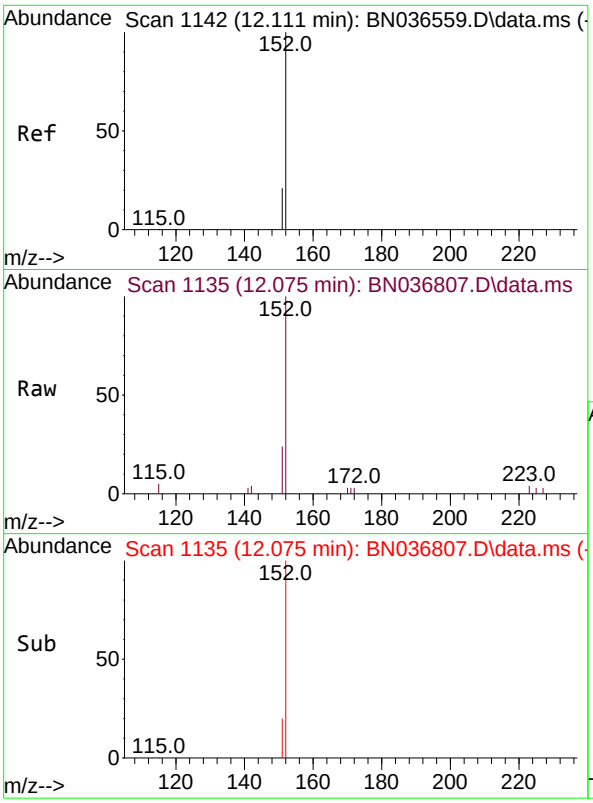




#10
Hexachlorobutadiene
Concen: 0.358 ng
RT: 10.818 min Scan# 959
Delta R.T. -0.032 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Tgt Ion:225 Resp: 1228

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 0.0 | 0.0 | 0.0 |
| 227 | 64.7 | 51.8 | 77.8 |



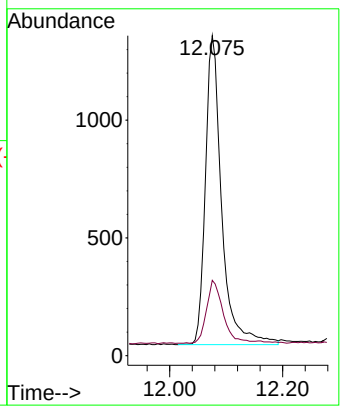


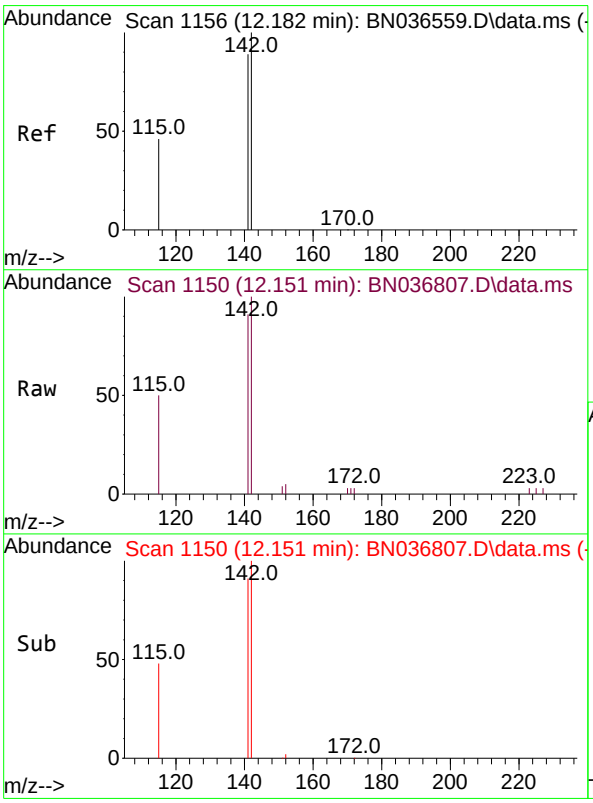

#11
2-Methylnaphthalene-d10
Concen: 0.354 ng
RT: 12.075 min Scan# 11
Delta R.T. -0.035 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:152 Resp: 2608

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.6 | 17.0 | 25.6 |

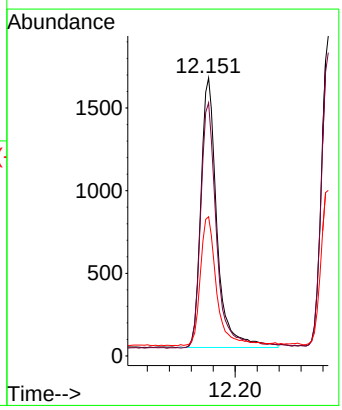


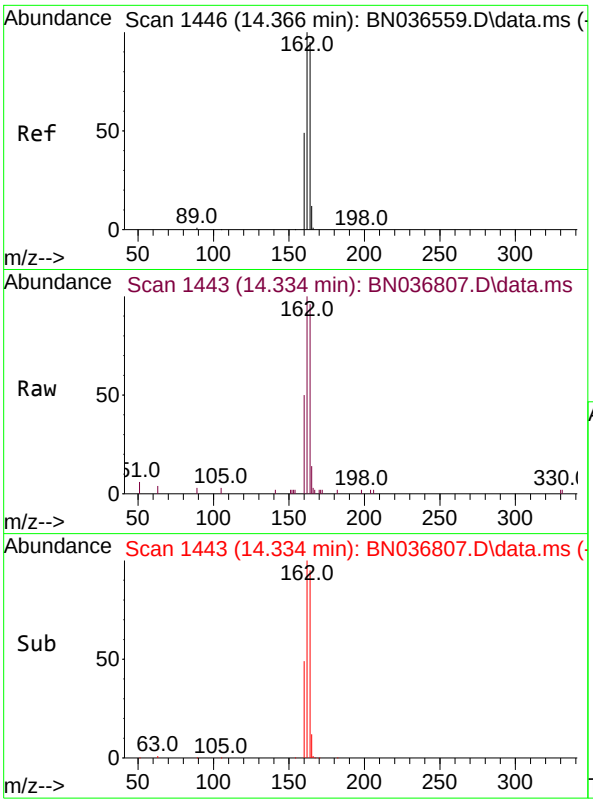




#12
2-Methylnaphthalene
Concen: 0.357 ng
RT: 12.151 min Scan# 1150
Delta R.T. -0.030 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Tgt Ion:142 Resp: 3312

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 91.0 | 71.7 | 107.5 |
| 115 | 50.1 | 38.3 | 57.5 |



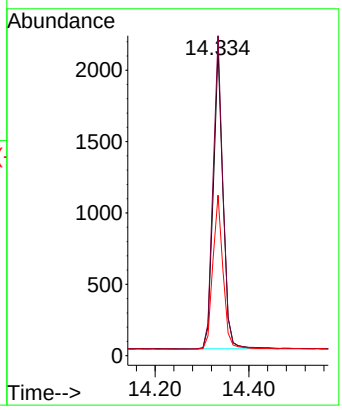


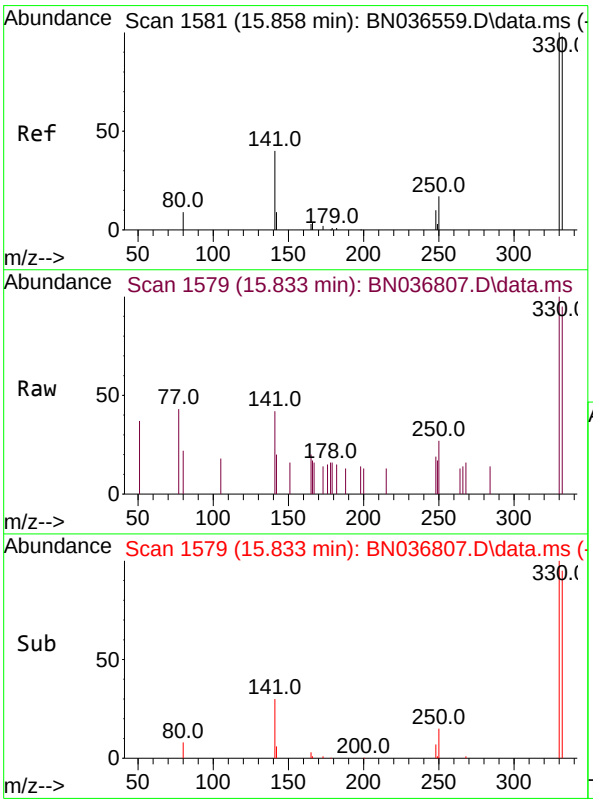

#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.334 min Scan# 14
Delta R.T. -0.032 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:164 Resp: 3044

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 104.5 | 84.2 | 126.2 |
| 160 | 52.4 | 42.2 | 63.2 |

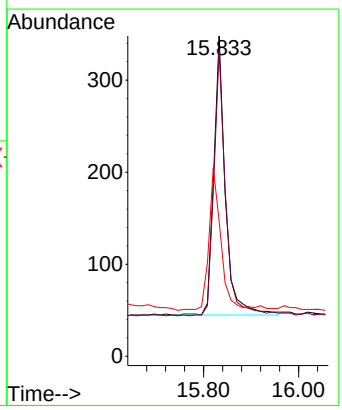


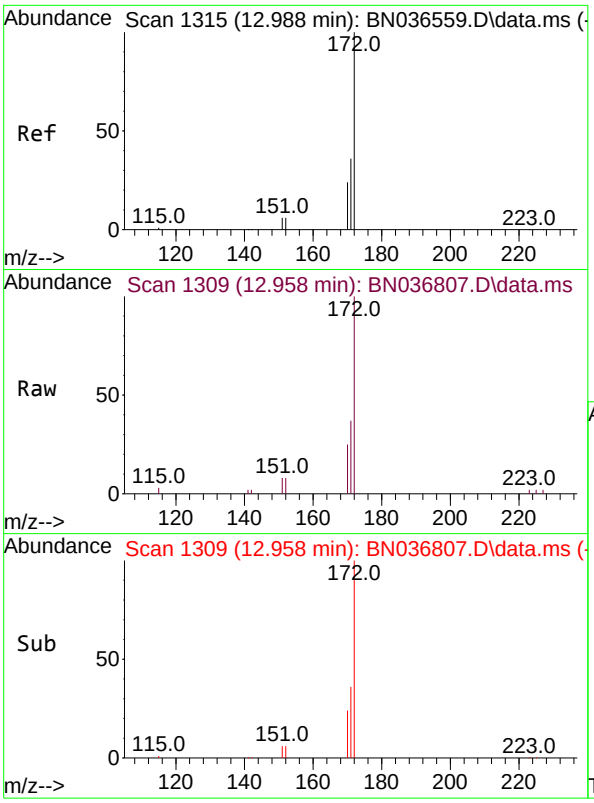




#14
2,4,6-Tribromophenol
Concen: 0.371 ng
RT: 15.833 min Scan# 1579
Delta R.T. -0.025 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Tgt Ion:330 Resp: 513

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 96.9 | 75.2 | 112.8 |
| 141 | 52.4 | 43.4 | 65.2 |



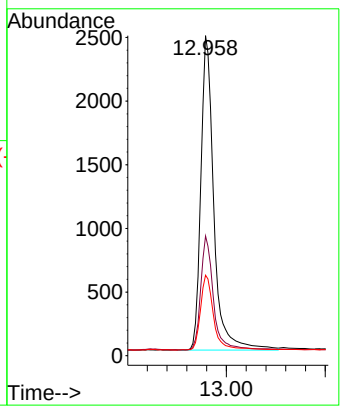


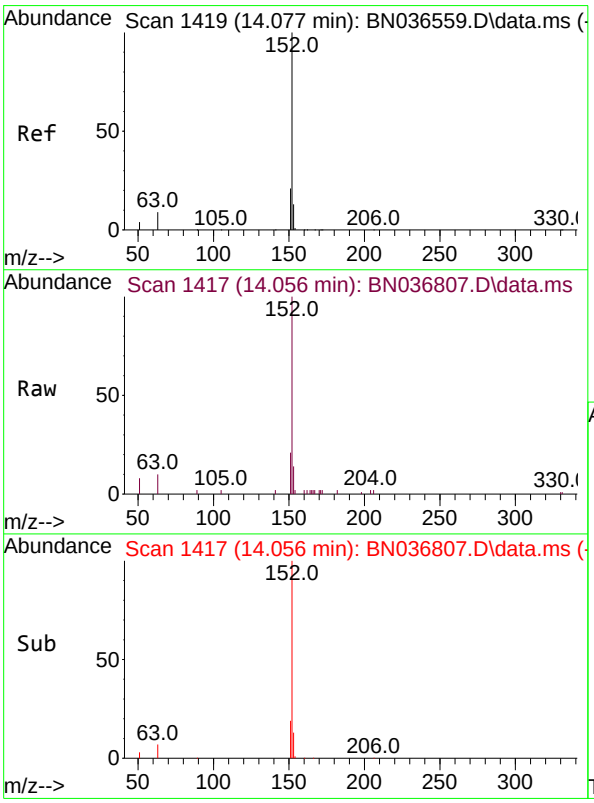

#15
2-Fluorobiphenyl
Concen: 0.329 ng
RT: 12.958 min Scan# 1
Delta R.T. -0.030 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:172 Resp: 5830

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 37.4 | 29.5 | 44.3 |
| 170 | 25.2 | 20.2 | 30.4 |

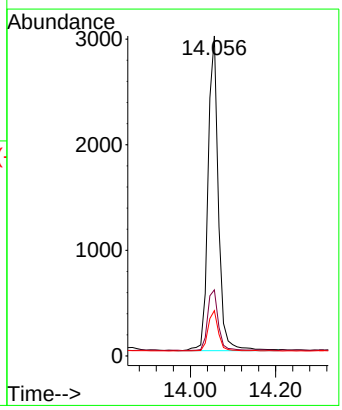


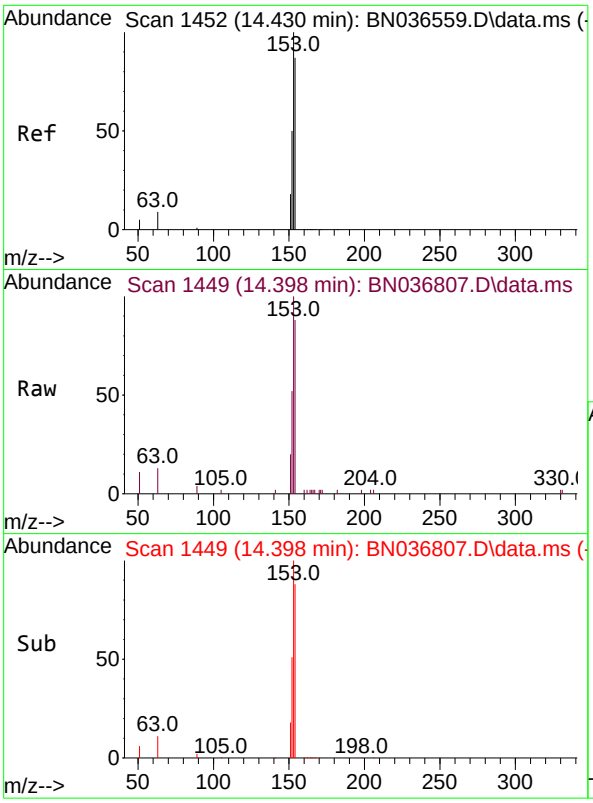




#16
Acenaphthylene
Concen: 0.348 ng
RT: 14.056 min Scan# 1417
Delta R.T. -0.021 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Tgt Ion:152 Resp: 5001

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 19.7 | 16.2 | 24.4 |
| 153 | 12.6 | 10.6 | 15.8 |



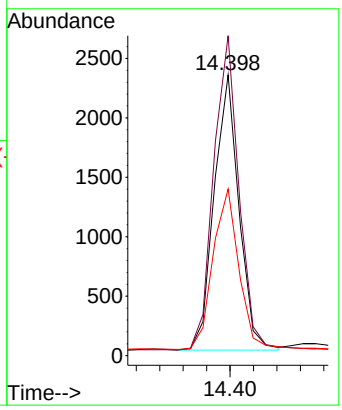


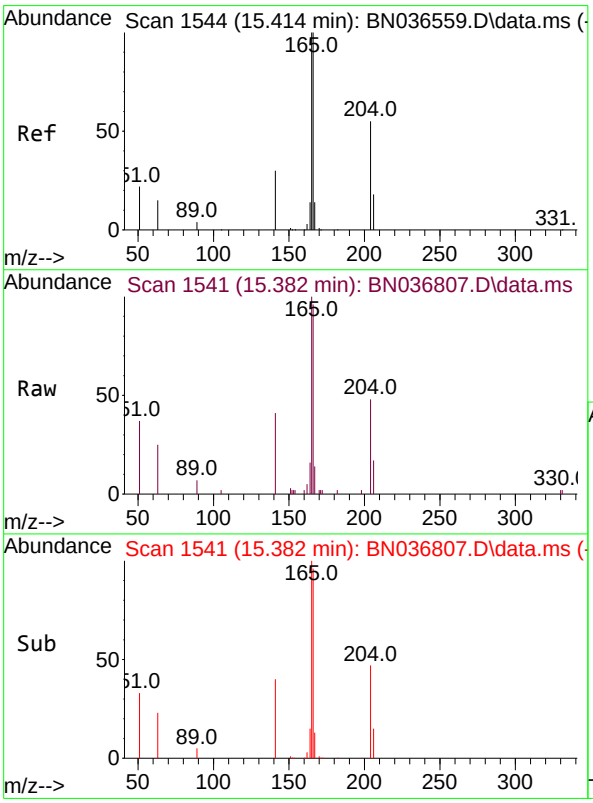

#17
Acenaphthene
Concen: 0.361 ng
RT: 14.398 min Scan# 14
Delta R.T. -0.032 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:154 Resp: 3395

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 116.8 | 94.1 | 141.1 |
| 152 | 61.6 | 49.8 | 74.6 |

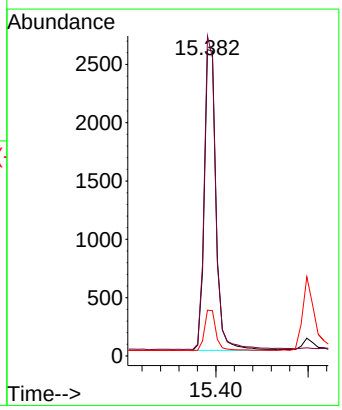


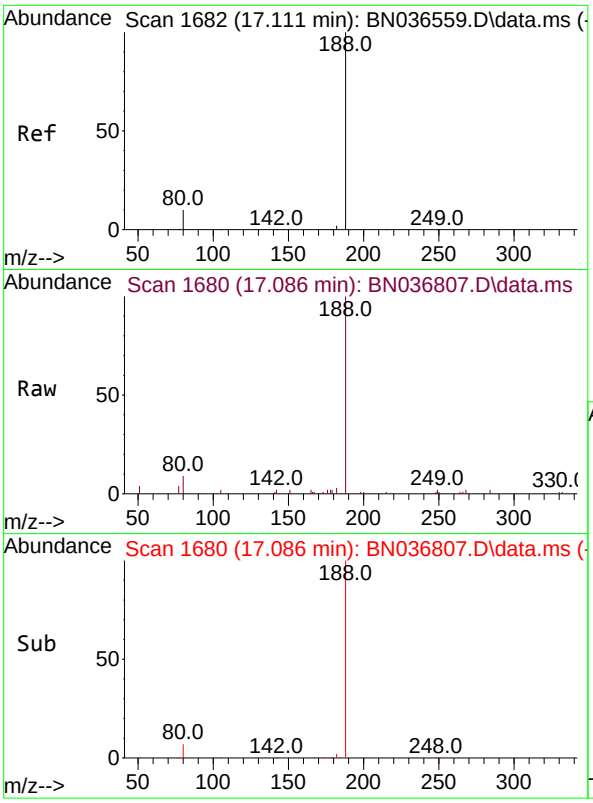




#18
Fluorene
Concen: 0.364 ng
RT: 15.382 min Scan# 1541
Delta R.T. -0.032 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Tgt Ion:166 Resp: 4624

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 99.9 | 79.8 | 119.8 |
| 167 | 13.3 | 10.6 | 15.8 |



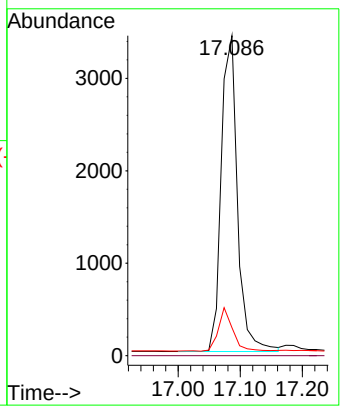


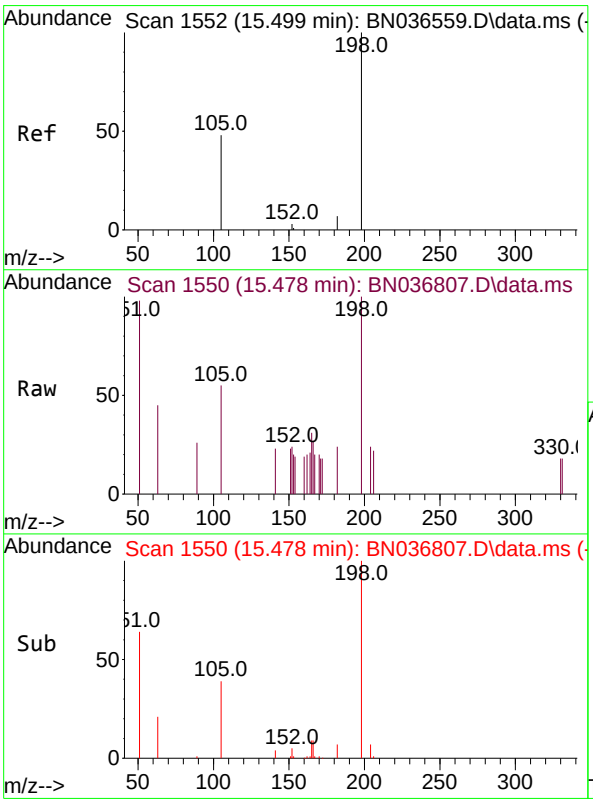

#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.086 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:188 Resp: 6169

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 8.7 | 8.8 | 13.2# |

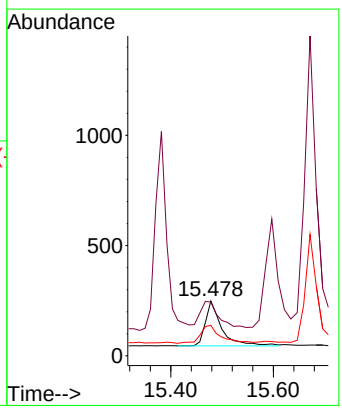


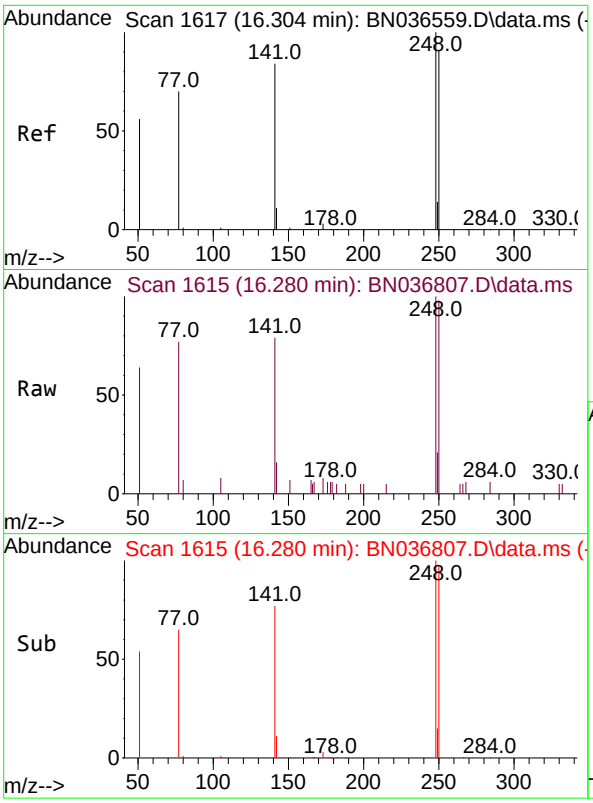




#20
4,6-Dinitro-2-methylphenol
Concen: 0.447 ng
RT: 15.478 min Scan# 1550
Delta R.T. -0.021 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Tgt Ion:198 Resp: 475

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 198 | 100 | | |
| 51 | 98.0 | 107.9 | 161.9# |
| 105 | 55.4 | 56.2 | 84.2# |



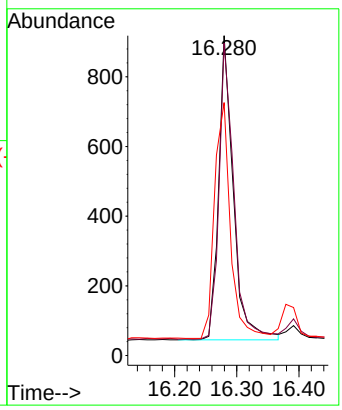


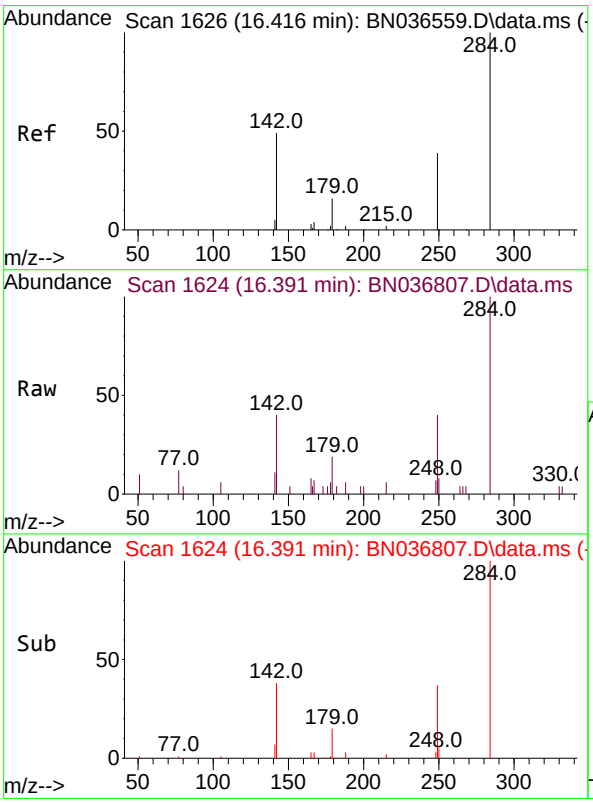

#21
4-Bromophenyl-phenylether
Concen: 0.368 ng
RT: 16.280 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:248 Resp: 1424

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 97.7 | 73.0 | 109.6 |
| 141 | 79.1 | 68.6 | 103.0 |

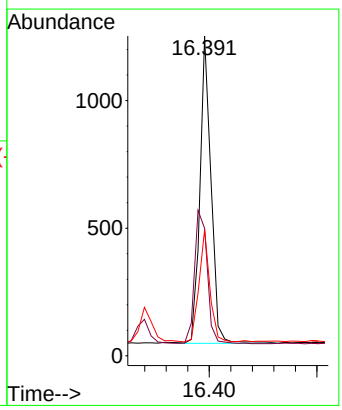


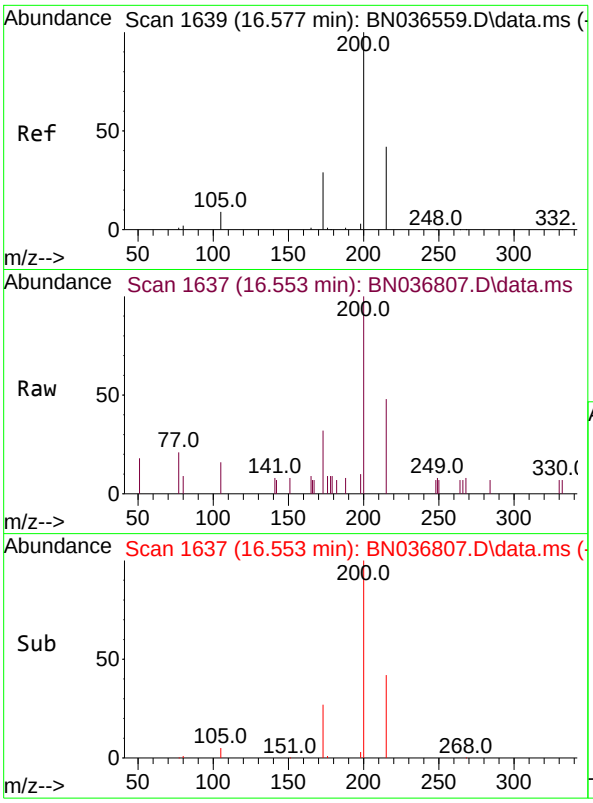




#22
Hexachlorobenzene
Concen: 0.371 ng
RT: 16.391 min Scan# 1624
Delta R.T. -0.025 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Tgt Ion:284 Resp: 1729

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 49.7 | 37.0 | 55.4 |
| 249 | 35.3 | 28.1 | 42.1 |



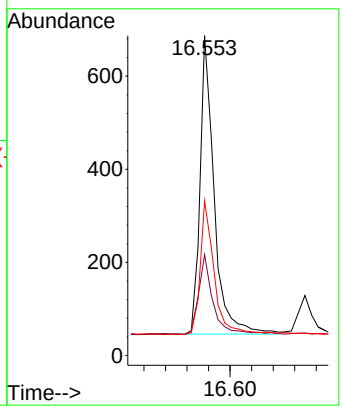


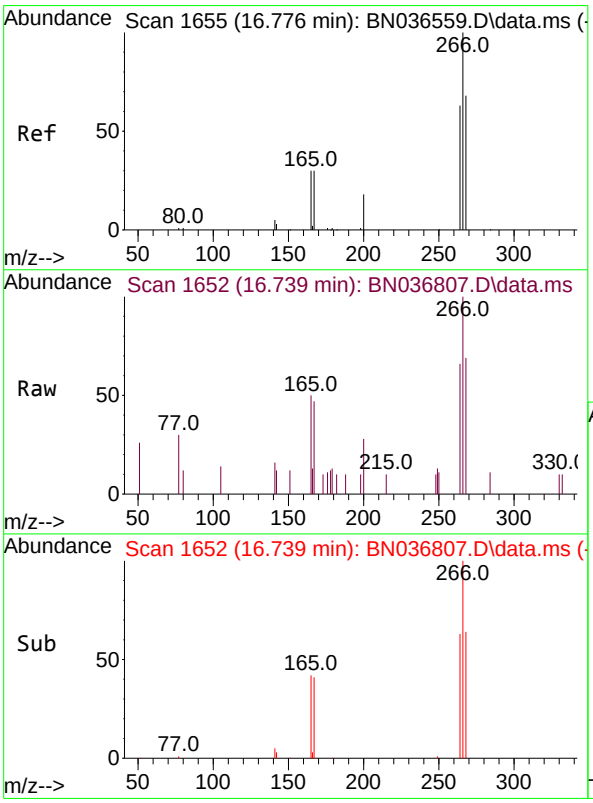

#23
Atrazine
Concen: 0.377 ng
RT: 16.553 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:200 Resp: 1168

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 173 | 31.6 | 27.3 | 40.9 |
| 215 | 48.3 | 36.8 | 55.2 |

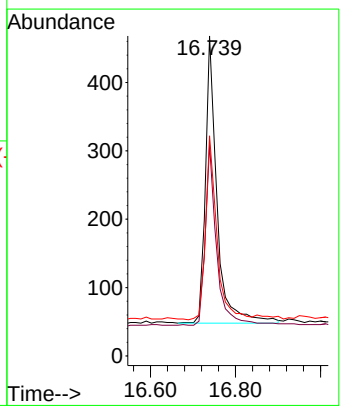


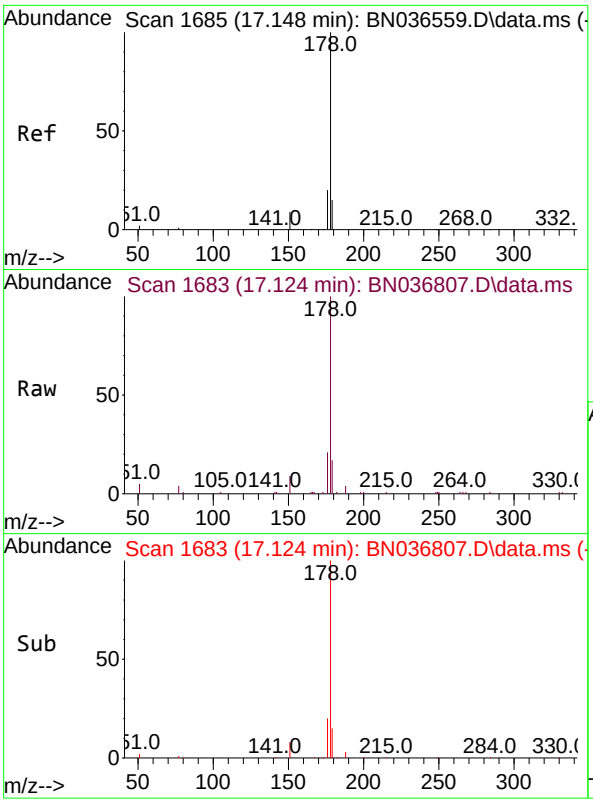




#24
Pentachlorophenol
Concen: 0.372 ng
RT: 16.739 min Scan# 1652
Delta R.T. -0.037 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Tgt Ion:266 Resp: 792

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 264 | 61.1 | 49.6 | 74.4 |
| 268 | 62.4 | 50.9 | 76.3 |



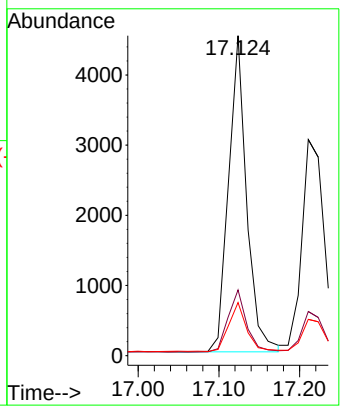


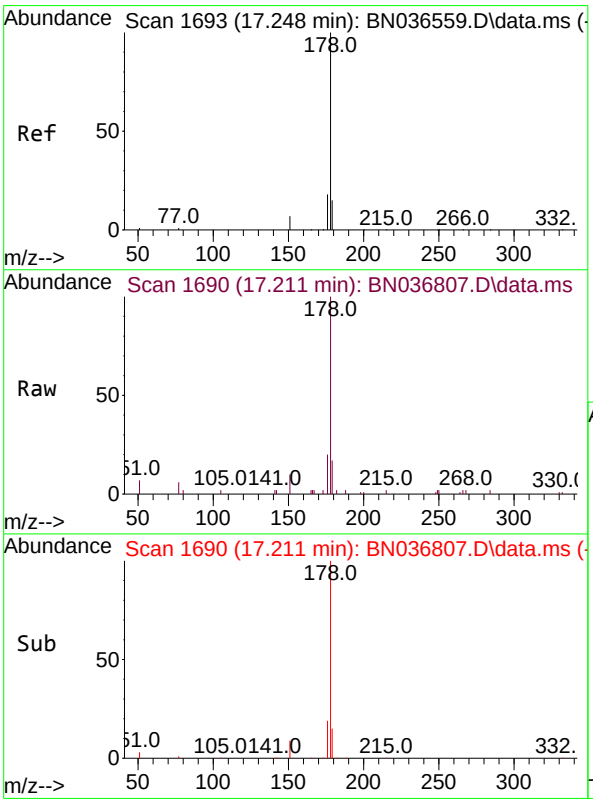

#25
Phenanthrene
Concen: 0.377 ng
RT: 17.124 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:178 Resp: 6985

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.9 | 15.9 | 23.9 |
| 179 | 15.3 | 12.2 | 18.4 |

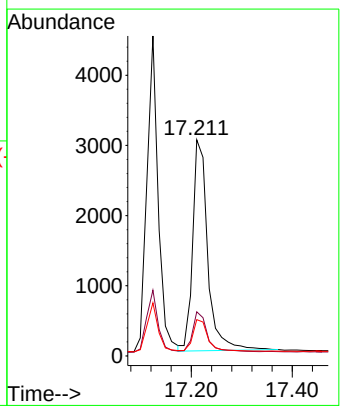


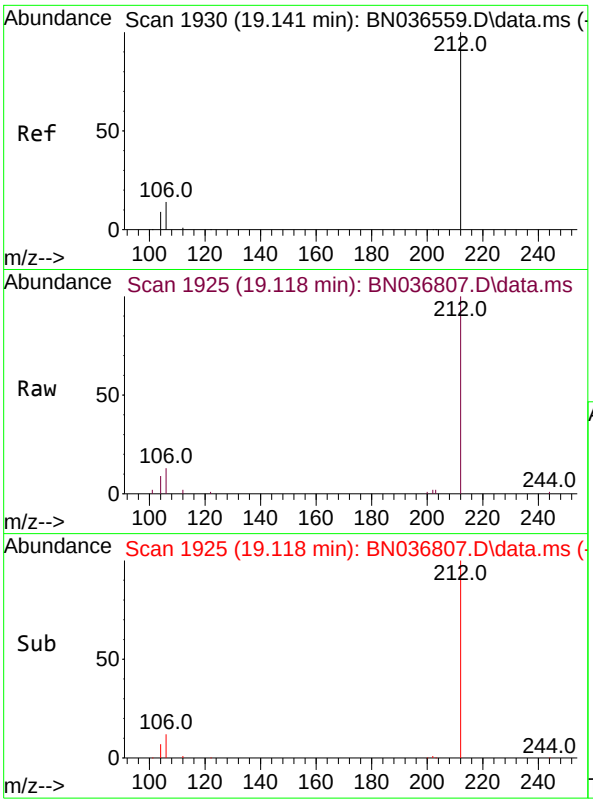




#26
Anthracene
Concen: 0.374 ng
RT: 17.211 min Scan# 1690
Delta R.T. -0.037 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Tgt Ion:178 Resp: 6251

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.3 | 15.4 | 23.2 |
| 179 | 15.1 | 12.6 | 18.8 |



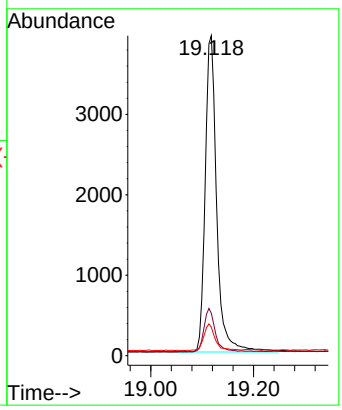


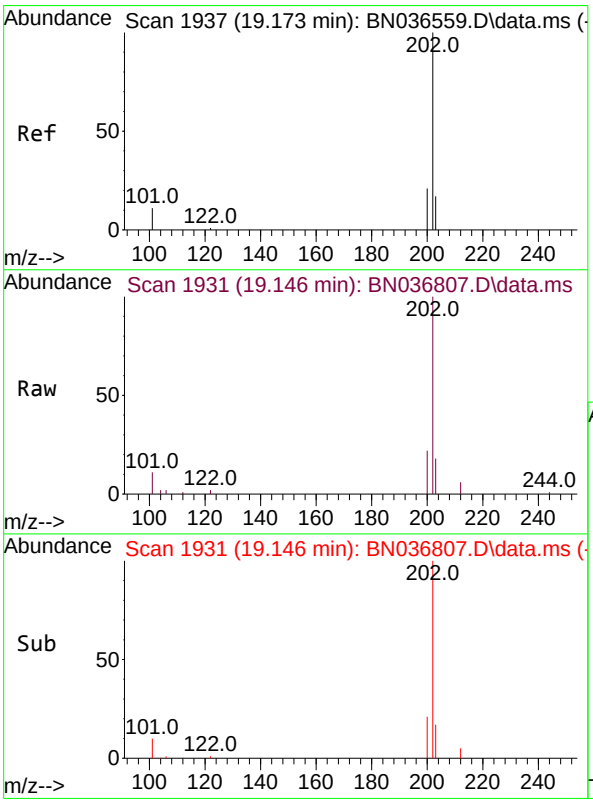

#27
Fluoranthene-d10
Concen: 0.384 ng
RT: 19.118 min Scan# 1
Delta R.T. -0.023 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:212 Resp: 6077

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 13.2 | 11.8 | 17.6 |
| 104 | 8.4 | 7.3 | 10.9 |

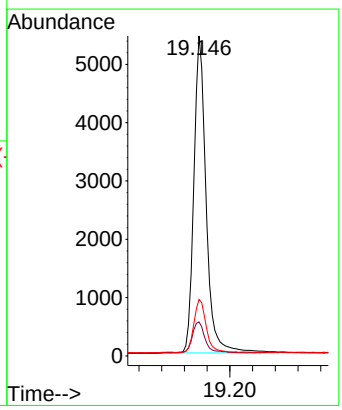


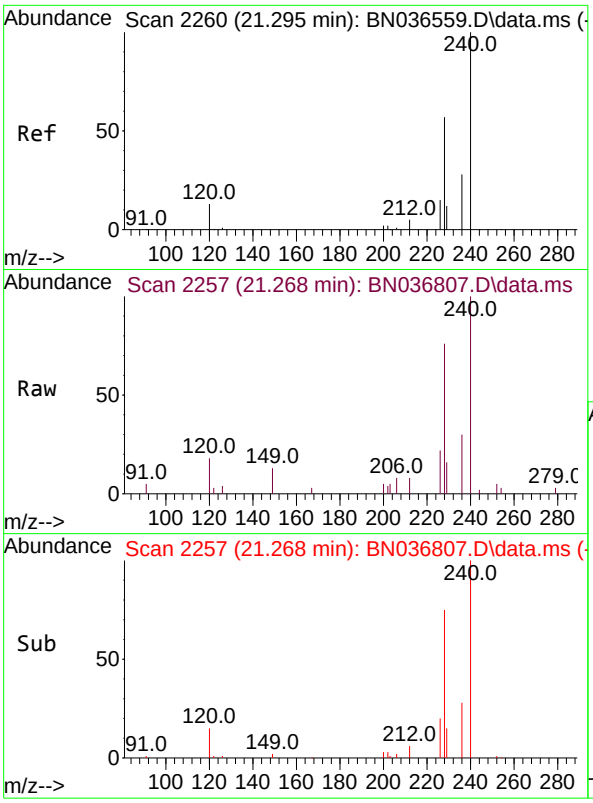




#28
Fluoranthene
Concen: 0.392 ng
RT: 19.146 min Scan# 1931
Delta R.T. -0.028 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Tgt Ion:202 Resp: 8157

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 10.2 | 9.4 | 14.0 |
| 203 | 16.8 | 13.5 | 20.3 |



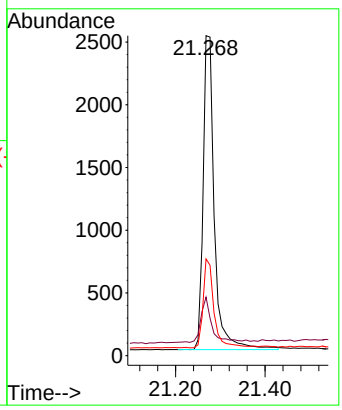


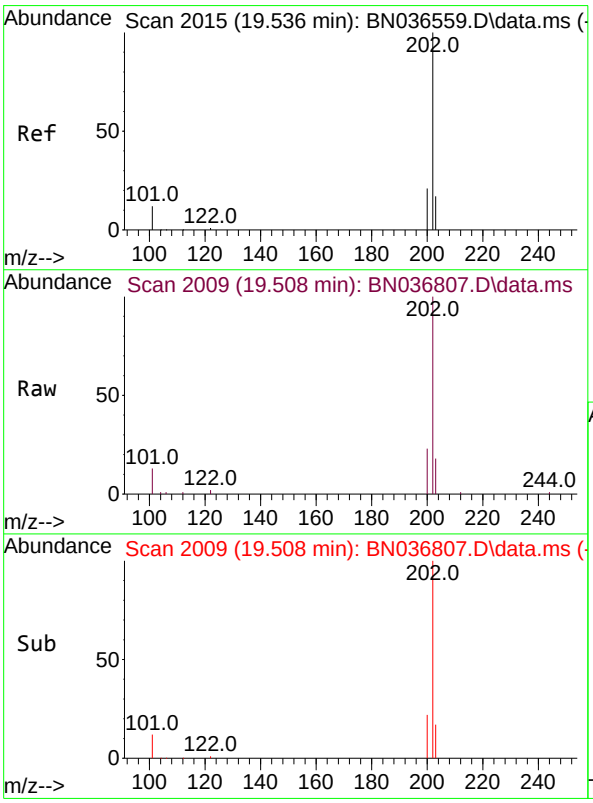

#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.268 min Scan# 2
Delta R.T. -0.027 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:240 Resp: 4366

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 18.3 | 14.6 | 22.0 |
| 236 | 30.3 | 24.1 | 36.1 |

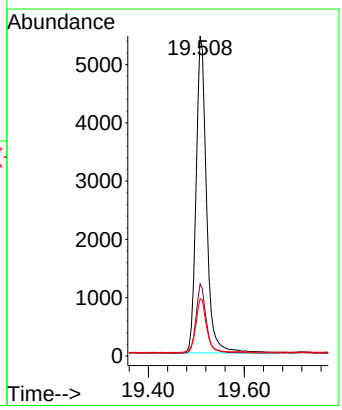


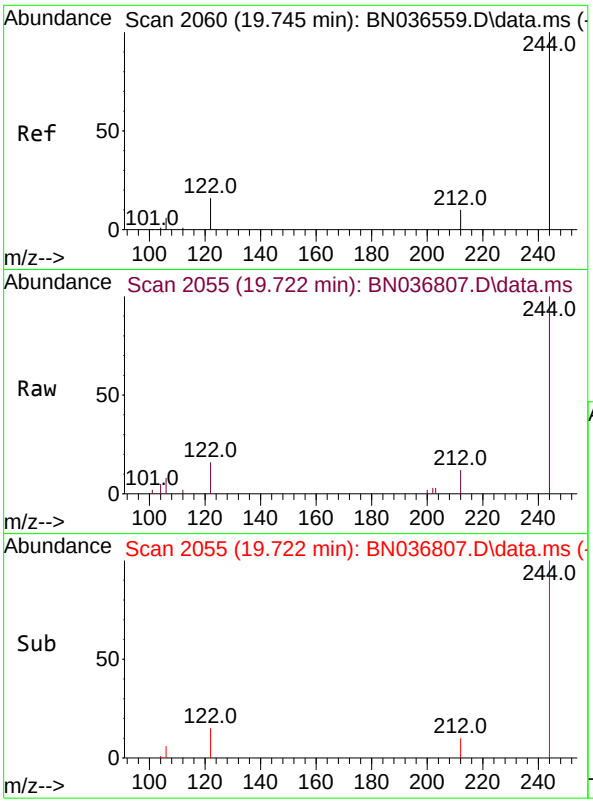




#30
Pyrene
Concen: 0.387 ng
RT: 19.508 min Scan# 2009
Delta R.T. -0.028 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Tgt Ion:202 Resp: 8270

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.2 | 17.1 | 25.7 |
| 203 | 17.4 | 14.1 | 21.1 |



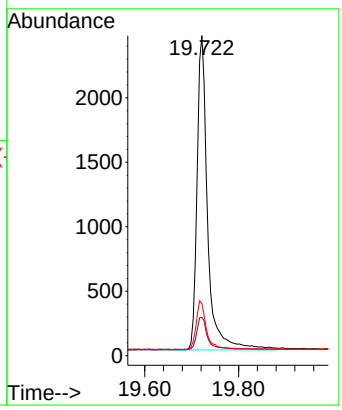


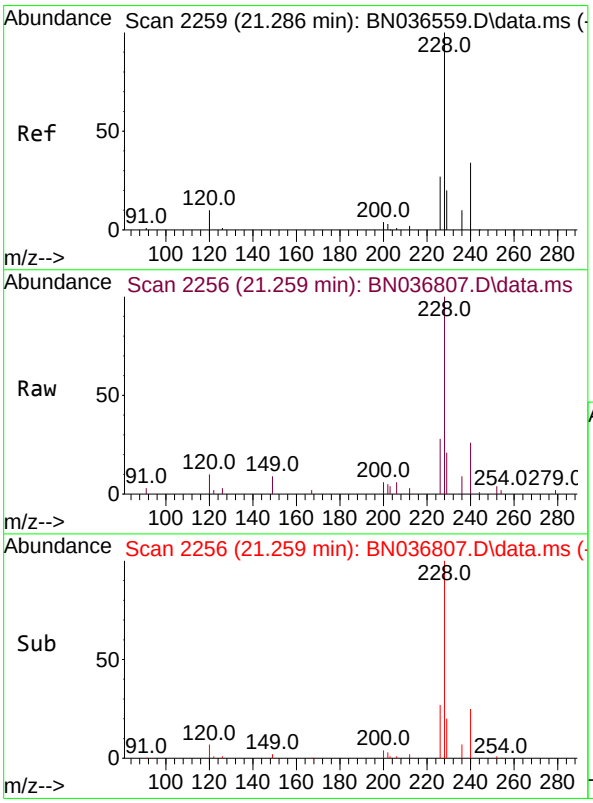

#31
Terphenyl-d14
Concen: 0.365 ng
RT: 19.722 min Scan# 2
Delta R.T. -0.023 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:244 Resp: 3821

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 12.0 | 9.6 | 14.4 |
| 122 | 16.4 | 13.9 | 20.9 |

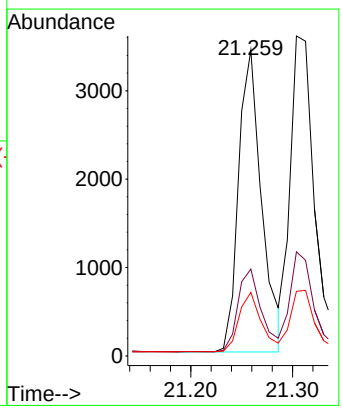


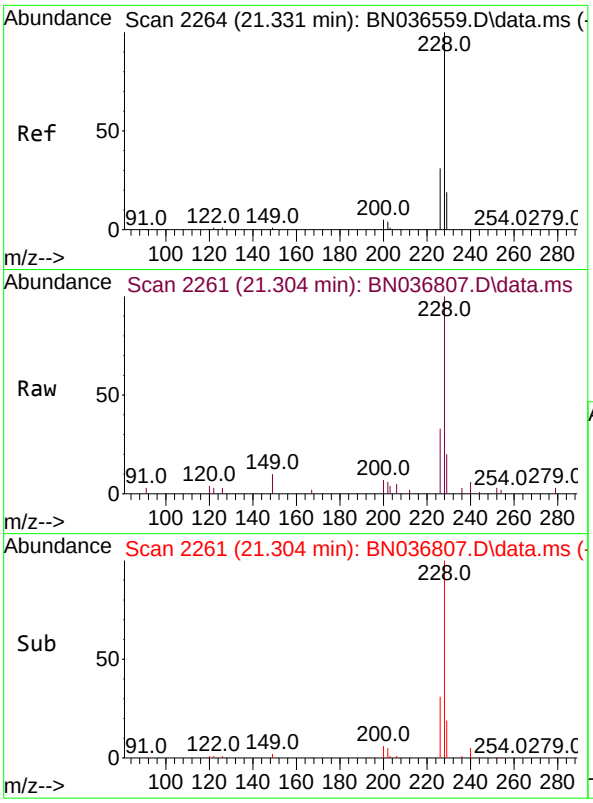




#32
Benzo(a)anthracene
Concen: 0.354 ng
RT: 21.259 min Scan# 2256
Delta R.T. -0.027 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Tgt Ion:228 Resp: 5377

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 28.4 | 22.5 | 33.7 |
| 229 | 20.8 | 16.6 | 25.0 |



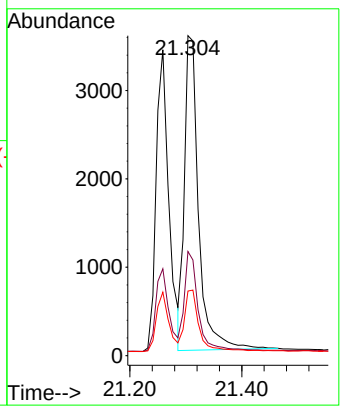


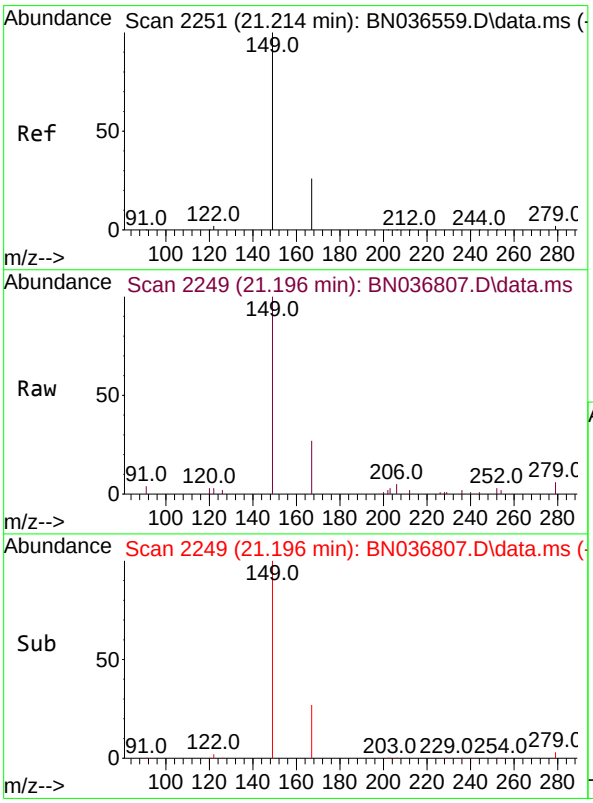

#33
Chrysene
Concen: 0.378 ng
RT: 21.304 min Scan# 2
Delta R.T. -0.027 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:228 Resp: 6263

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 32.6 | 25.3 | 37.9 |
| 229 | 20.2 | 15.8 | 23.8 |

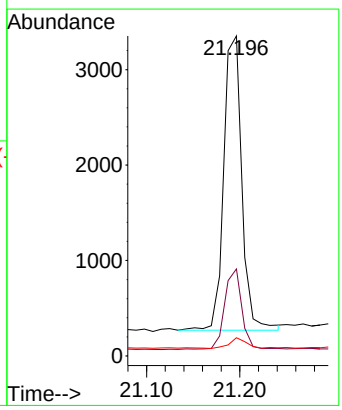


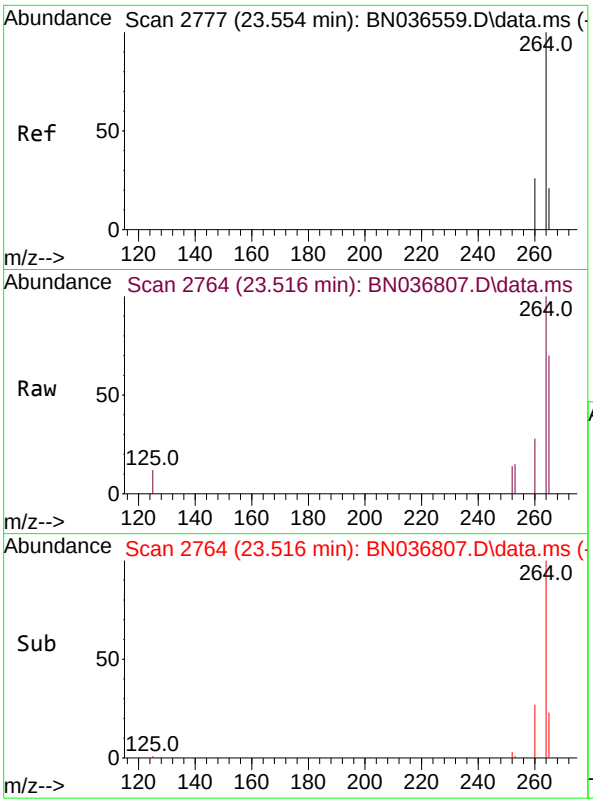




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.385 ng
RT: 21.196 min Scan# 2249
Delta R.T. -0.018 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Tgt Ion:149 Resp: 4162

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 26.1 | 20.7 | 31.1 |
| 279 | 3.6 | 3.6 | 5.4# |



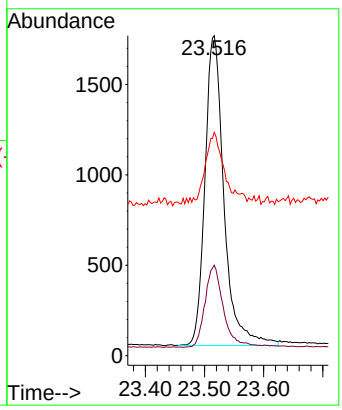


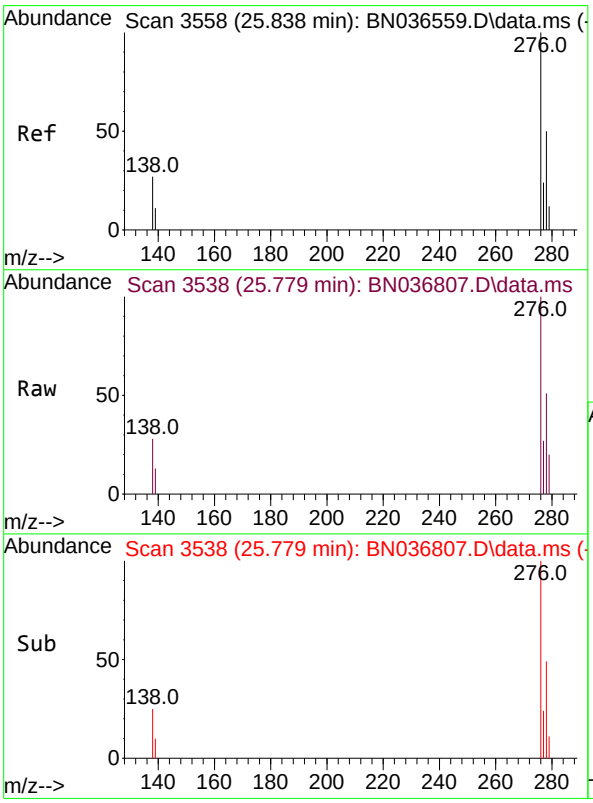

#35
Perylene-d12
Concen: 0.400 ng
RT: 23.516 min Scan# 2
Delta R.T. -0.038 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:264 Resp: 3818

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 28.2 | 22.6 | 33.8 |
| 265 | 69.8 | 88.1 | 132.1# |

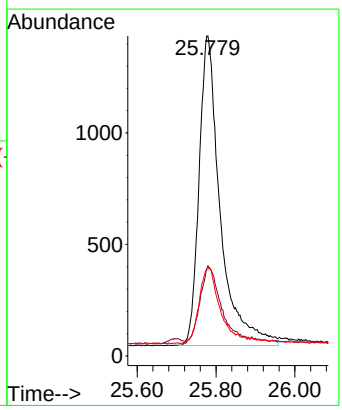


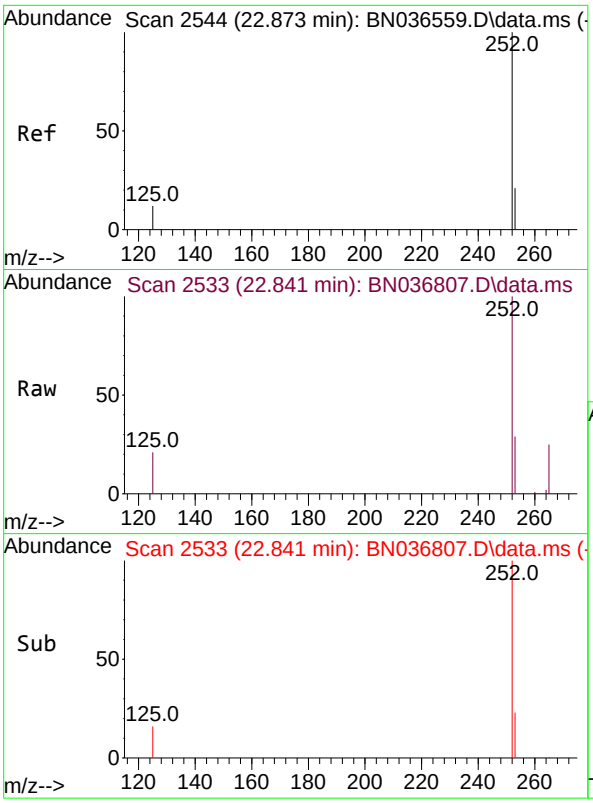




#36
Indeno(1,2,3-cd)pyrene
Concen: 0.376 ng
RT: 25.779 min Scan# 3538
Delta R.T. -0.058 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Tgt Ion:276 Resp: 5188

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 24.1 | 23.4 | 35.2 |
| 277 | 23.0 | 20.0 | 30.0 |



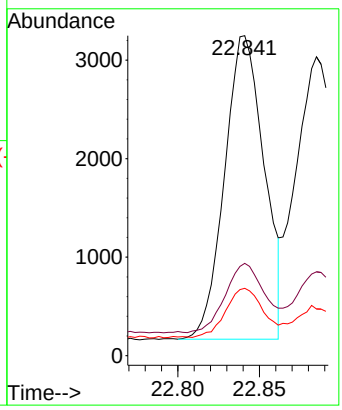


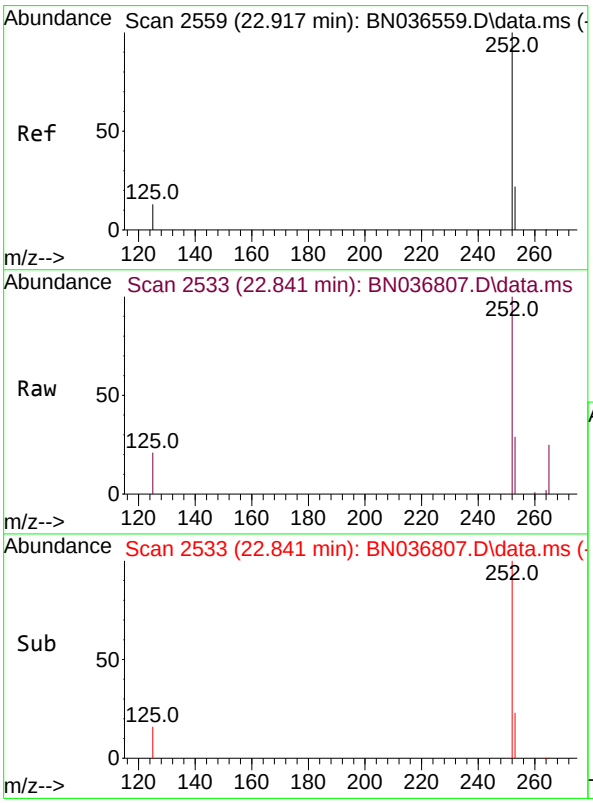

#37
Benzo(b)fluoranthene
Concen: 0.374 ng
RT: 22.841 min Scan# 2
Delta R.T. -0.032 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:252 Resp: 5191

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 28.9 | 23.9 | 35.9 |
| 125 | 21.1 | 17.4 | 26.2 |

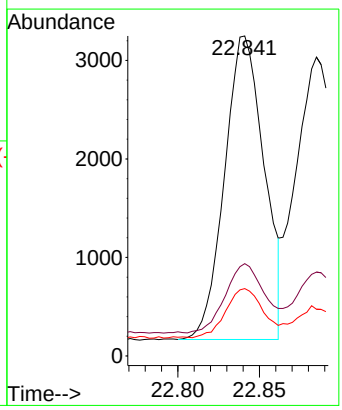


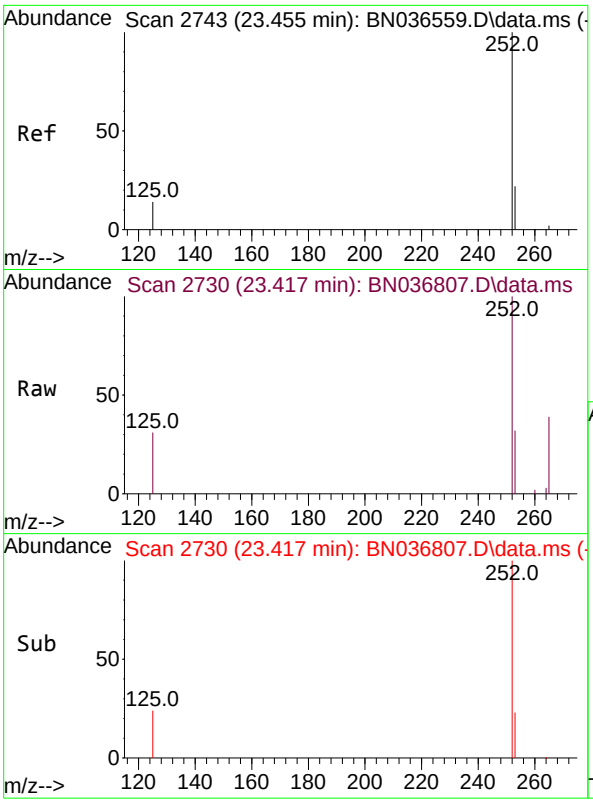




#38
Benzo(k)fluoranthene
Concen: 0.356 ng
RT: 22.841 min Scan# 2533
Delta R.T. -0.076 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Tgt Ion:252 Resp: 5191

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 28.9 | 24.6 | 36.8 |
| 125 | 21.1 | 17.8 | 26.8 |



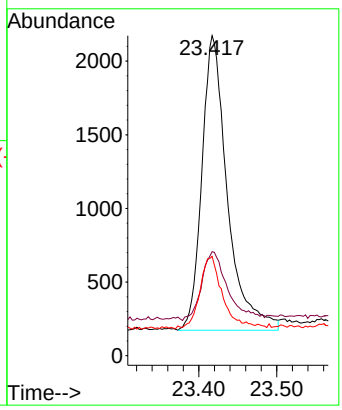


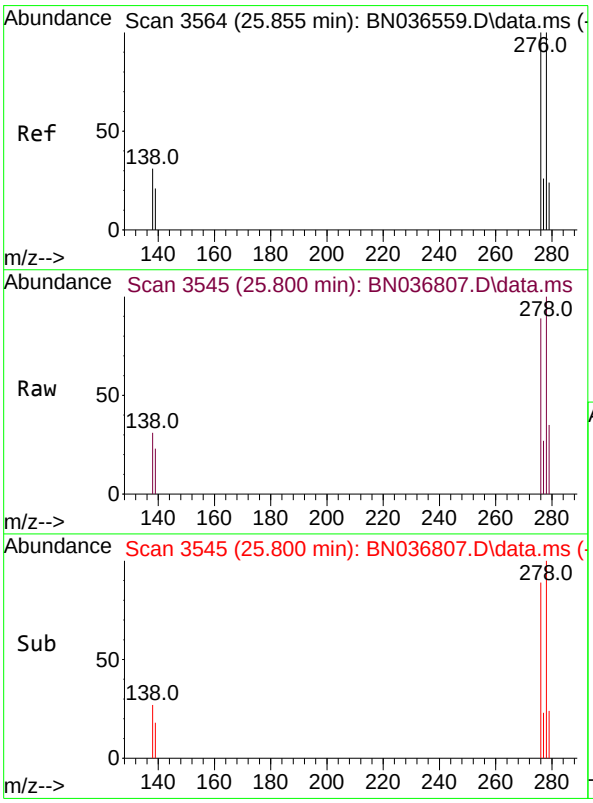

#39
Benzo(a)pyrene
Concen: 0.389 ng
RT: 23.417 min Scan# 2
Delta R.T. -0.038 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:252 Resp: 4547

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 32.5 | 27.8 | 41.8 |
| 125 | 31.1 | 22.7 | 34.1 |

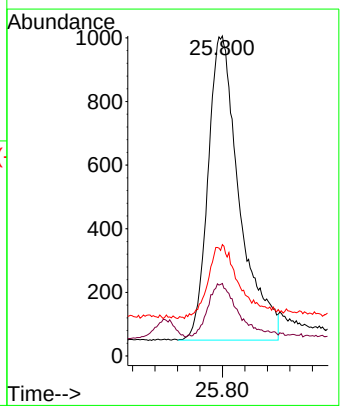


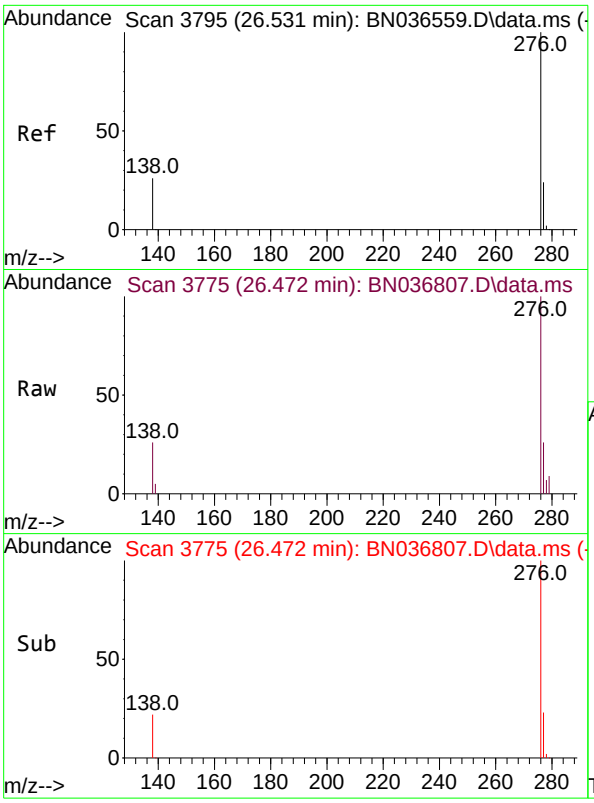




#40
Dibenzo(a,h)anthracene
Concen: 0.346 ng
RT: 25.800 min Scan# 3545
Delta R.T. -0.055 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Tgt Ion:278 Resp: 3712

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 22.7 | 20.8 | 31.2 |
| 279 | 34.8 | 28.8 | 43.2 |



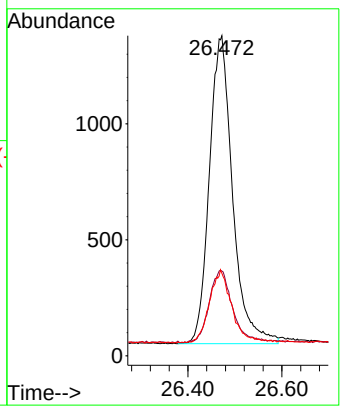



#41
Benzo(g,h,i)perylene
Concen: 0.371 ng
RT: 26.472 min Scan# 3
Delta R.T. -0.058 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:276 Resp: 4558

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 26.4 | 22.2 | 33.4 |
| 138 | 25.8 | 24.1 | 36.1 |



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN033125\
Data File : BN036809.D
Acq On : 31 Mar 2025 10:39
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Quant Time: Mar 31 12:10:51 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

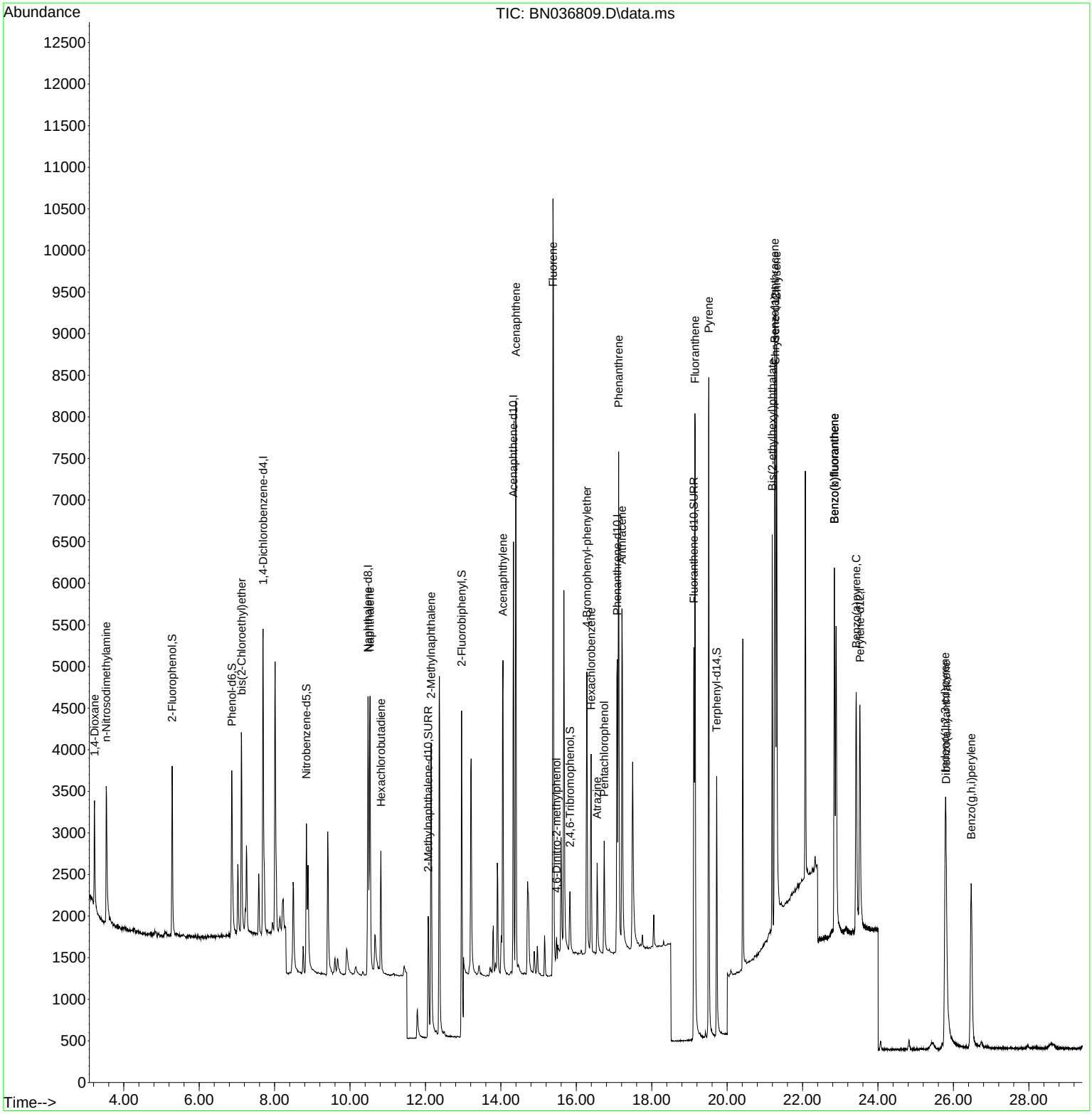
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.695 | 152 | 1888 | 0.400 | ng | | -0.03 |
| 7) Naphthalene-d8 | 10.477 | 136 | 4656 | 0.400 | ng | | -0.03 |
| 13) Acenaphthene-d10 | 14.334 | 164 | 2798 | 0.400 | ng | | -0.03 |
| 19) Phenanthrene-d10 | 17.086 | 188 | 5809 | 0.400 | ng | | -0.02 |
| 29) Chrysene-d12 | 21.277 | 240 | 4586 | 0.400 | ng | | #-0.02 |
| 35) Perylene-d12 | 23.522 | 264 | 3945 | 0.400 | ng | | #-0.03 |
| System Monitoring Compounds | | | | | | | |
| 4) 2-Fluorophenol | 5.283 | 112 | 1544 | 0.351 | ng | | -0.03 |
| 5) Phenol-d6 | 6.865 | 99 | 1799 | 0.331 | ng | | -0.04 |
| 8) Nitrobenzene-d5 | 8.843 | 82 | 1689 | 0.333 | ng | | -0.03 |
| 11) 2-Methylnaphthalene-d10 | 12.075 | 152 | 2501 | 0.361 | ng | | -0.04 |
| 14) 2,4,6-Tribromophenol | 15.833 | 330 | 451 | 0.355 | ng | | -0.02 |
| 15) 2-Fluorobiphenyl | 12.958 | 172 | 5537 | 0.340 | ng | | -0.03 |
| 27) Fluoranthene-d10 | 19.118 | 212 | 5750 | 0.386 | ng | | -0.02 |
| 31) Terphenyl-d14 | 19.722 | 244 | 3660 | 0.333 | ng | | -0.02 |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.225 | 88 | 857 | 0.409 | ng | | 96 |
| 3) n-Nitrosodimethylamine | 3.535 | 42 | 1677 | 0.396 | ng | | 93 |
| 6) bis(2-Chloroethyl)ether | 7.125 | 93 | 1889 | 0.336 | ng | | 98 |
| 9) Naphthalene | 10.530 | 128 | 4851 | 0.354 | ng | | 99 |
| 10) Hexachlorobutadiene | 10.818 | 225 | 1142 | 0.354 | ng | # | 98 |
| 12) 2-Methylnaphthalene | 12.151 | 142 | 3144 | 0.361 | ng | | 99 |
| 16) Acenaphthylene | 14.056 | 152 | 4617 | 0.350 | ng | | 99 |
| 17) Acenaphthene | 14.398 | 154 | 3162 | 0.366 | ng | | 99 |
| 18) Fluorene | 15.382 | 166 | 4232 | 0.362 | ng | | 99 |
| 20) 4,6-Dinitro-2-methylph... | 15.478 | 198 | 405 | 0.419 | ng | | 86 |
| 21) 4-Bromophenyl-phenylether | 16.280 | 248 | 1292 | 0.355 | ng | | 93 |
| 22) Hexachlorobenzene | 16.391 | 284 | 1587 | 0.361 | ng | | 97 |
| 23) Atrazine | 16.553 | 200 | 1096 | 0.376 | ng | | 98 |
| 24) Pentachlorophenol | 16.739 | 266 | 743 | 0.371 | ng | | 98 |
| 25) Phenanthrene | 17.124 | 178 | 6581 | 0.378 | ng | | 100 |
| 26) Anthracene | 17.211 | 178 | 5583 | 0.355 | ng | | 100 |
| 28) Fluoranthene | 19.150 | 202 | 7591 | 0.388 | ng | | 99 |
| 30) Pyrene | 19.513 | 202 | 7799 | 0.348 | ng | | 100 |
| 32) Benzo(a)anthracene | 21.259 | 228 | 5377 | 0.337 | ng | | 98 |
| 33) Chrysene | 21.313 | 228 | 6640 | 0.381 | ng | | 98 |
| 34) Bis(2-ethylhexyl)phtha... | 21.196 | 149 | 4143 | 0.365 | ng | # | 99 |
| 36) Indeno(1,2,3-cd)pyrene | 25.782 | 276 | 5019 | 0.352 | ng | | 94 |
| 37) Benzo(b)fluoranthene | 22.844 | 252 | 5495 | 0.383 | ng | | 98 |
| 38) Benzo(k)fluoranthene | 22.844 | 252 | 5495 | 0.365 | ng | | 97 |
| 39) Benzo(a)pyrene | 23.423 | 252 | 4679 | 0.387 | ng | | 96 |
| 40) Dibenzo(a,h)anthracene | 25.805 | 278 | 3655 | 0.330 | ng | | 99 |
| 41) Benzo(g,h,i)perylene | 26.472 | 276 | 4543 | 0.358 | ng | | 97 |

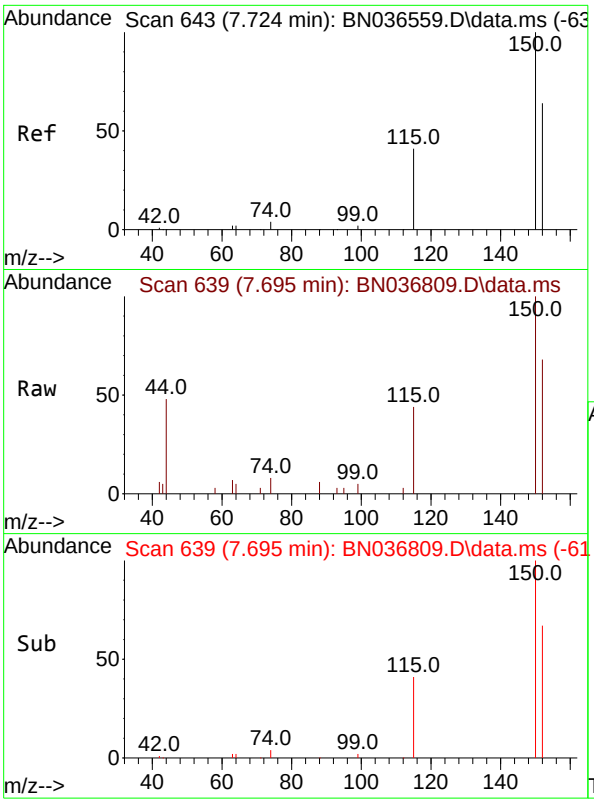
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN033125\
Data File : BN036809.D
Acq On : 31 Mar 2025 10:39
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Quant Time: Mar 31 12:10:51 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration



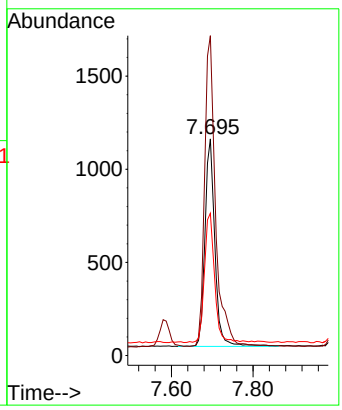


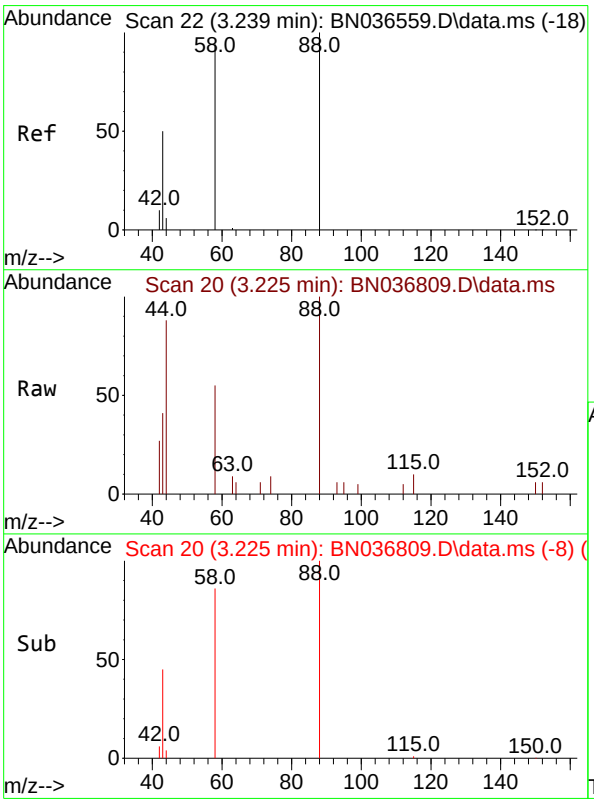

#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.695 min Scan# 6
Delta R.T. -0.029 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:152 Resp: 1888

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 147.6 | 123.7 | 185.5 |
| 115 | 65.7 | 54.3 | 81.5 |

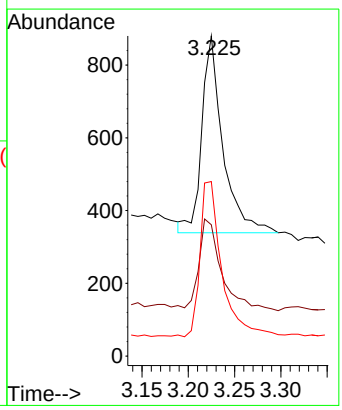


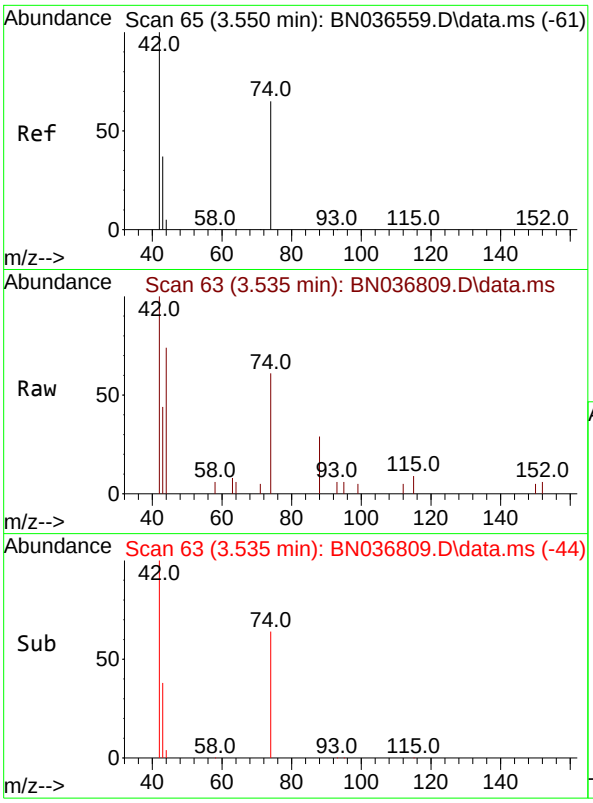




#2
1,4-Dioxane
Concen: 0.409 ng
RT: 3.225 min Scan# 20
Delta R.T. -0.014 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion: 88 Resp: 857

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 50.1 | 37.8 | 56.8 |
| 58 | 80.6 | 67.4 | 101.2 |



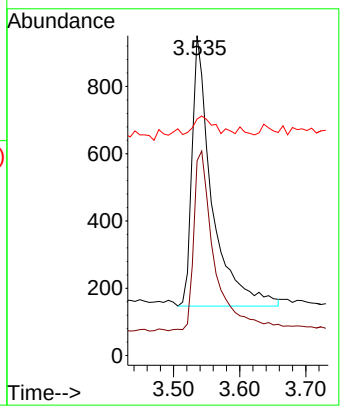


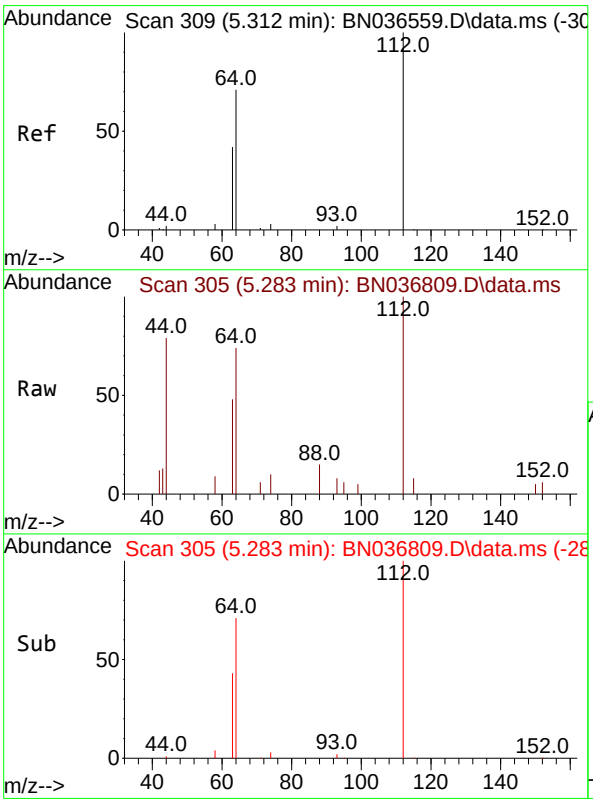

#3
n-Nitrosodimethylamine
Concen: 0.396 ng
RT: 3.535 min Scan# 6
Delta R.T. -0.014 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion: 42 Resp: 1677

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 69.2 | 60.6 | 90.8 |
| 44 | 8.2 | 6.3 | 9.5 |

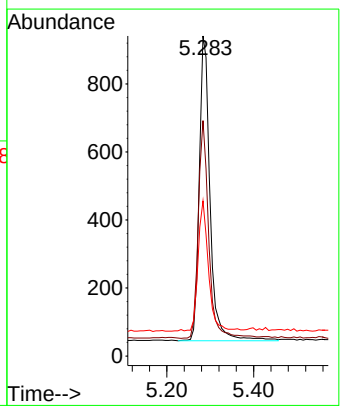


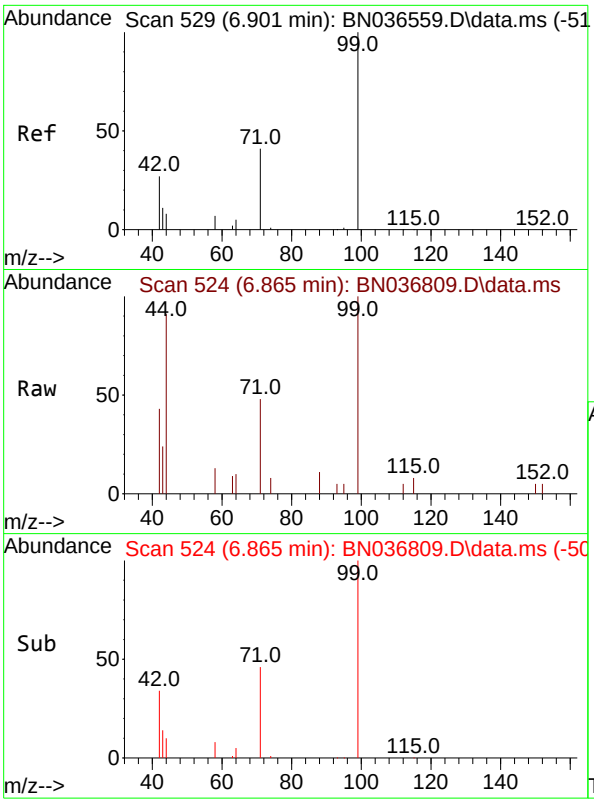




#4
2-Fluorophenol
Concen: 0.351 ng
RT: 5.283 min Scan# 305
Delta R.T. -0.029 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion:112 Resp: 1544

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 69.6 | 53.1 | 79.7 |
| 63 | 40.8 | 31.8 | 47.8 |



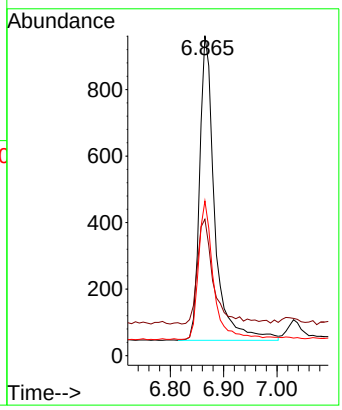


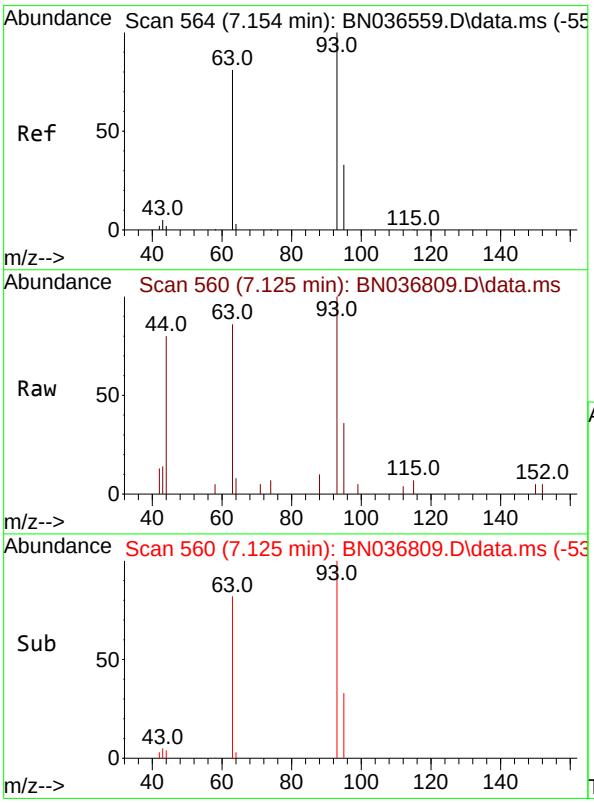

#5
Phenol-d6
Concen: 0.331 ng
RT: 6.865 min Scan# 5
Delta R.T. -0.036 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion: 99 Resp: 1799

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 37.9 | 26.5 | 39.7 |
| 71 | 44.8 | 34.1 | 51.1 |

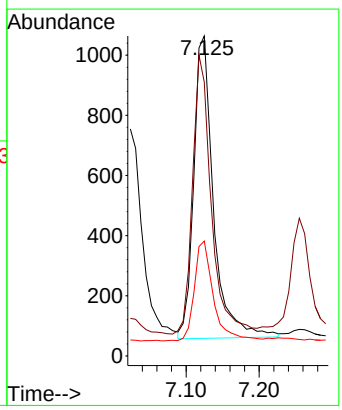


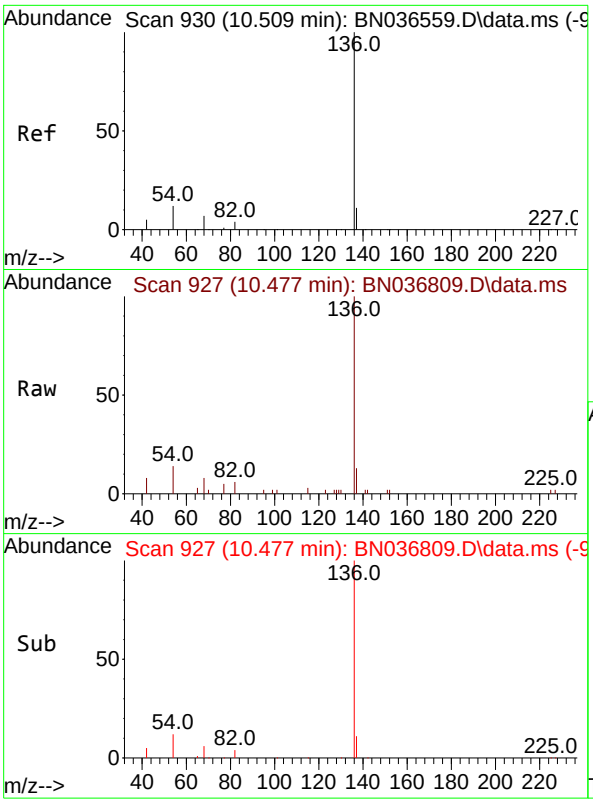




#6
bis(2-Chloroethyl)ether
Concen: 0.336 ng
RT: 7.125 min Scan# 560
Delta R.T. -0.029 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion: 93 Resp: 1889

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 87.3 | 67.7 | 101.5 |
| 95 | 31.9 | 25.6 | 38.4 |



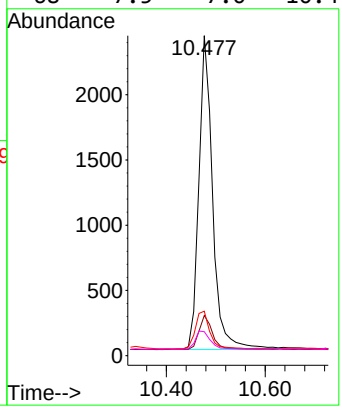


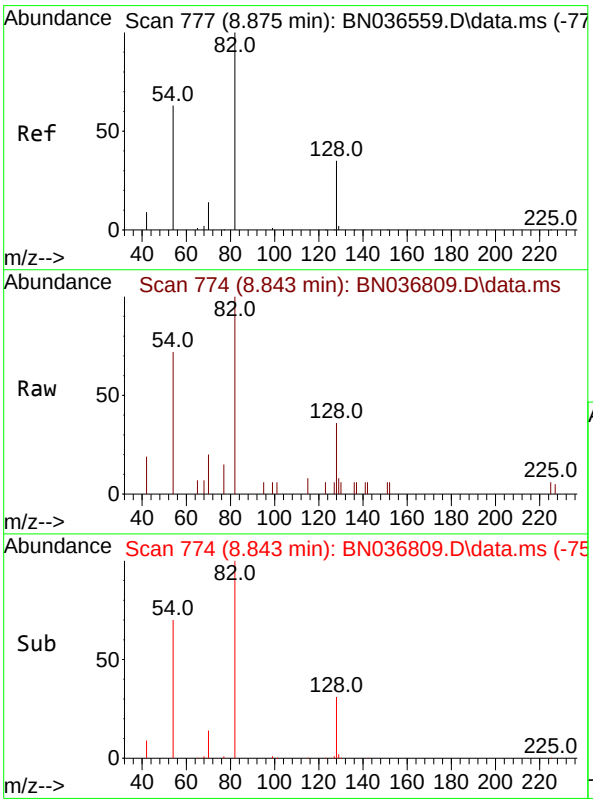

#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.477 min Scan# 9
Delta R.T. -0.032 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:136 Resp: 4656

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 12.5 | 10.3 | 15.5 |
| 54 | 13.9 | 11.5 | 17.3 |
| 68 | 7.5 | 7.0 | 10.4 |

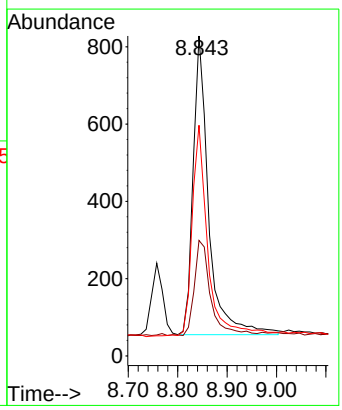


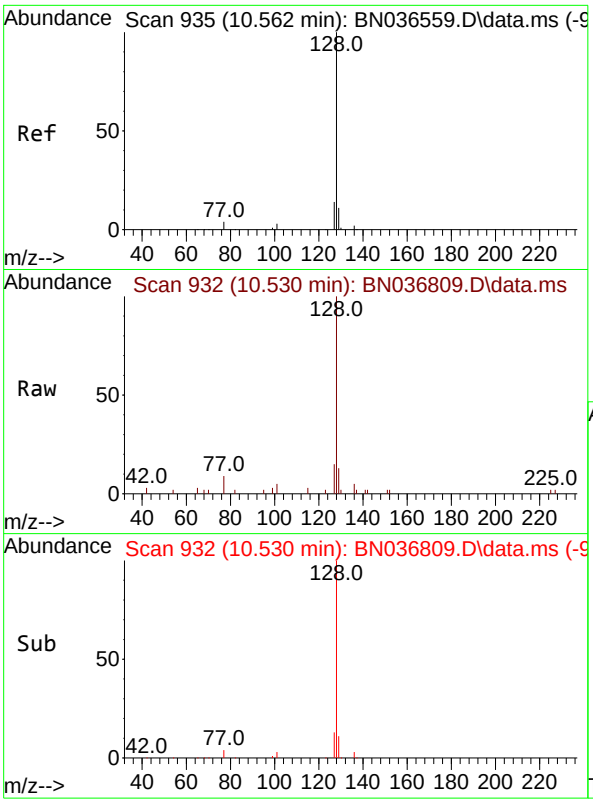




#8
Nitrobenzene-d5
Concen: 0.333 ng
RT: 8.843 min Scan# 774
Delta R.T. -0.032 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion: 82 Resp: 1689

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 36.1 | 30.6 | 45.8 |
| 54 | 72.1 | 52.2 | 78.4 |



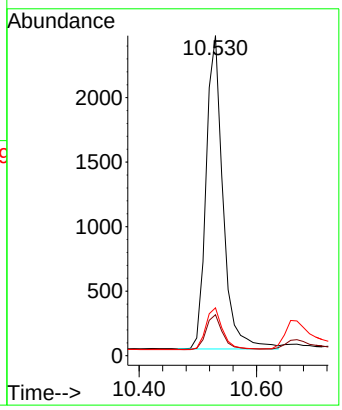


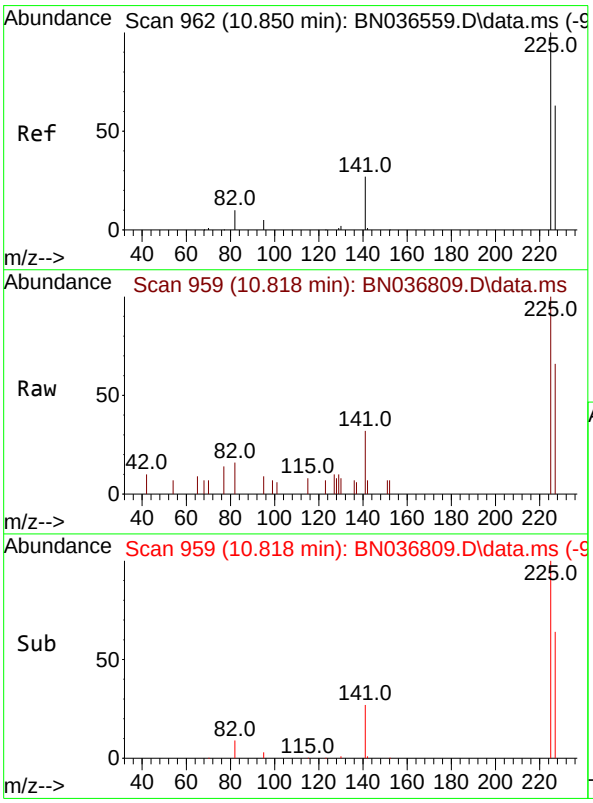

#9
Naphthalene
Concen: 0.354 ng
RT: 10.530 min Scan# 9
Delta R.T. -0.032 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:128 Resp: 4851

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 12.8 | 9.8 | 14.6 |
| 127 | 15.0 | 11.8 | 17.8 |

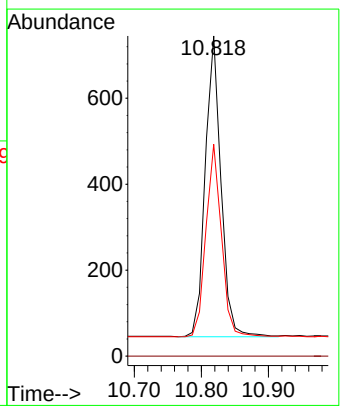


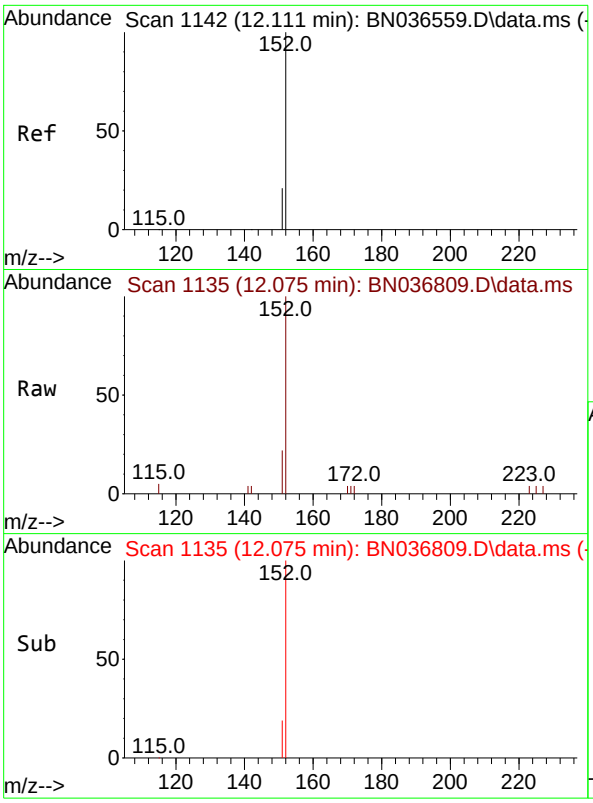




#10
Hexachlorobutadiene
Concen: 0.354 ng
RT: 10.818 min Scan# 959
Delta R.T. -0.032 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion:225 Resp: 1142

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 0.0 | 0.0 | 0.0 |
| 227 | 63.1 | 51.8 | 77.8 |



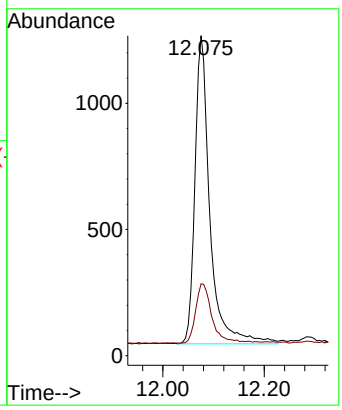


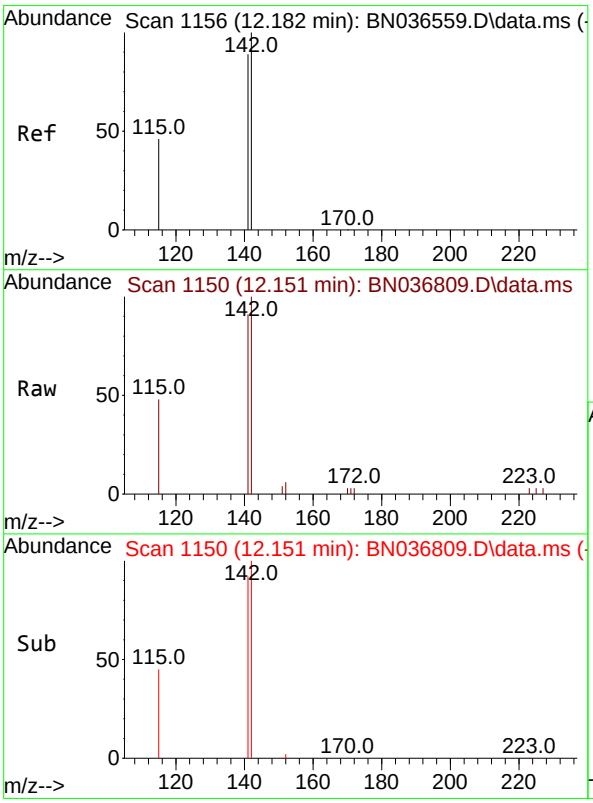

#11
2-Methylnaphthalene-d10
Concen: 0.361 ng
RT: 12.075 min Scan# 11
Delta R.T. -0.035 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:152 Resp: 2501

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.8 | 17.0 | 25.6 |

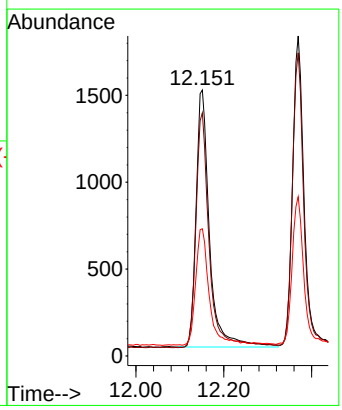


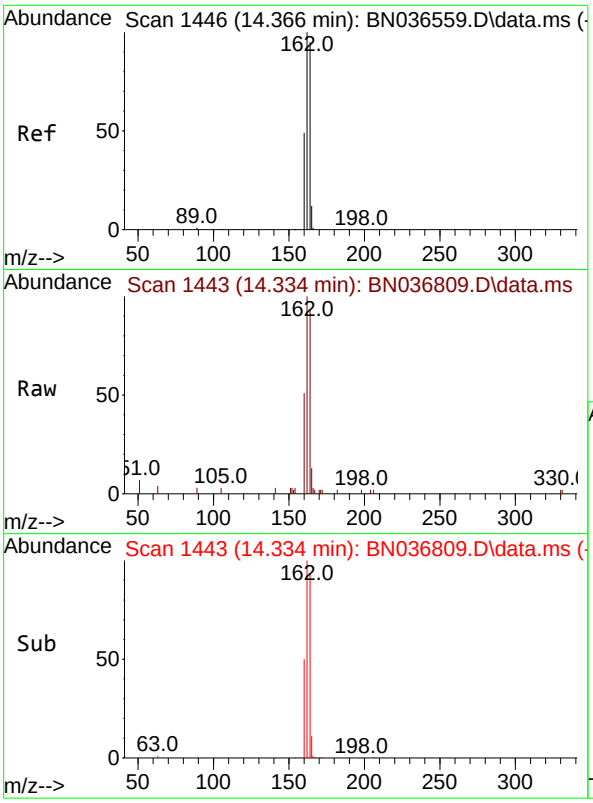




#12
2-Methylnaphthalene
Concen: 0.361 ng
RT: 12.151 min Scan# 1150
Delta R.T. -0.030 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion:142 Resp: 3144

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 91.4 | 71.7 | 107.5 |
| 115 | 47.8 | 38.3 | 57.5 |



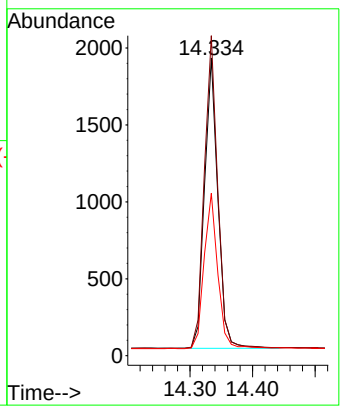


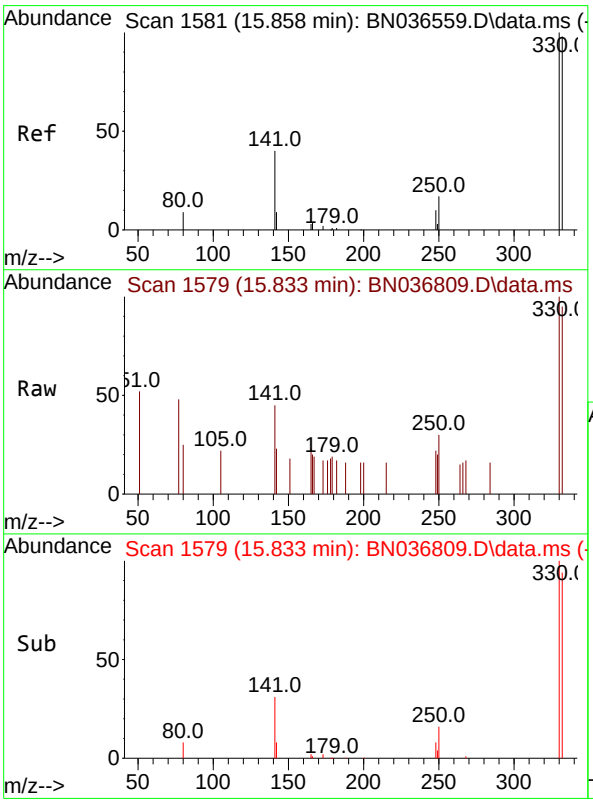

#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.334 min Scan# 14
Delta R.T. -0.032 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:164 Resp: 2798

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 107.5 | 84.2 | 126.2 |
| 160 | 54.6 | 42.2 | 63.2 |

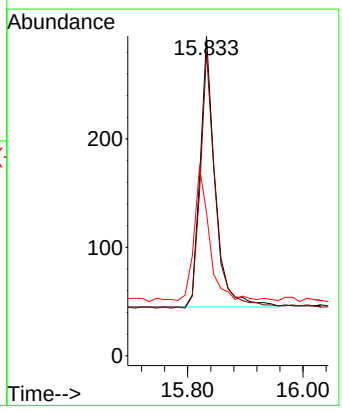


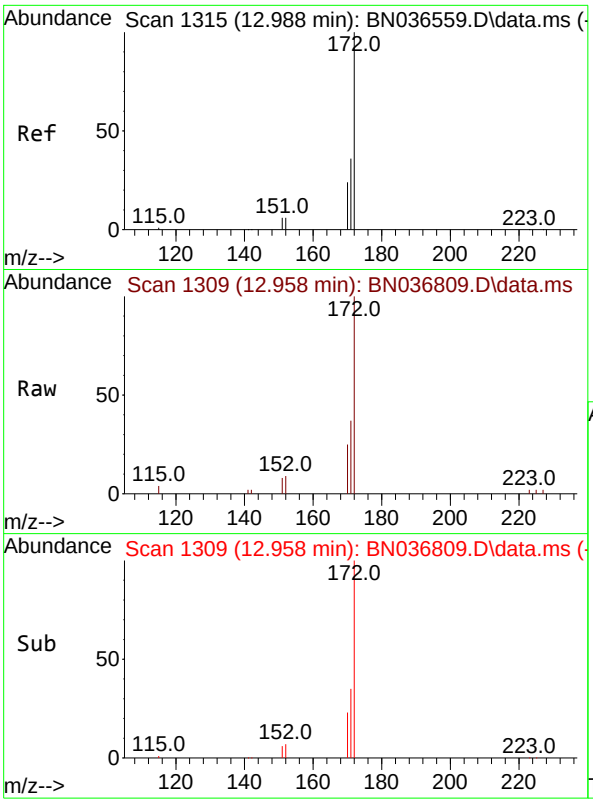




#14
2,4,6-Tribromophenol
Concen: 0.355 ng
RT: 15.833 min Scan# 1579
Delta R.T. -0.025 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion:330 Resp: 451

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 95.3 | 75.2 | 112.8 |
| 141 | 53.9 | 43.4 | 65.2 |



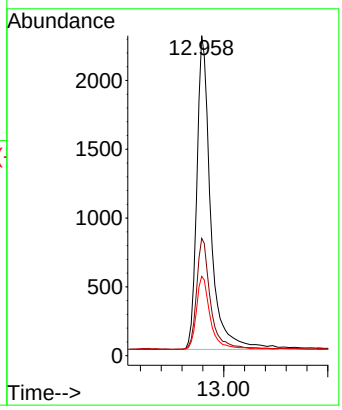


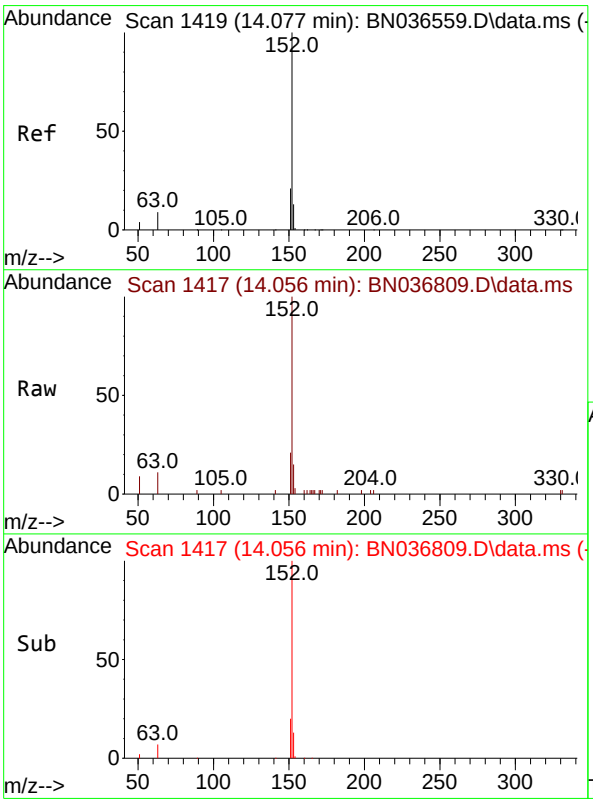

#15
2-Fluorobiphenyl
Concen: 0.340 ng
RT: 12.958 min Scan# 1
Delta R.T. -0.030 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:172 Resp: 5537

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 36.6 | 29.5 | 44.3 |
| 170 | 24.8 | 20.2 | 30.4 |

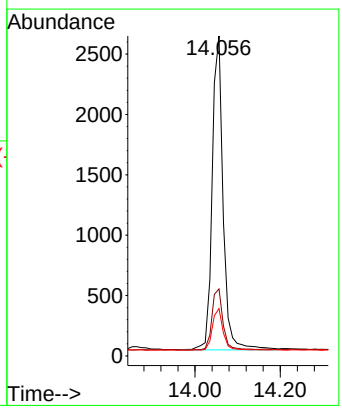


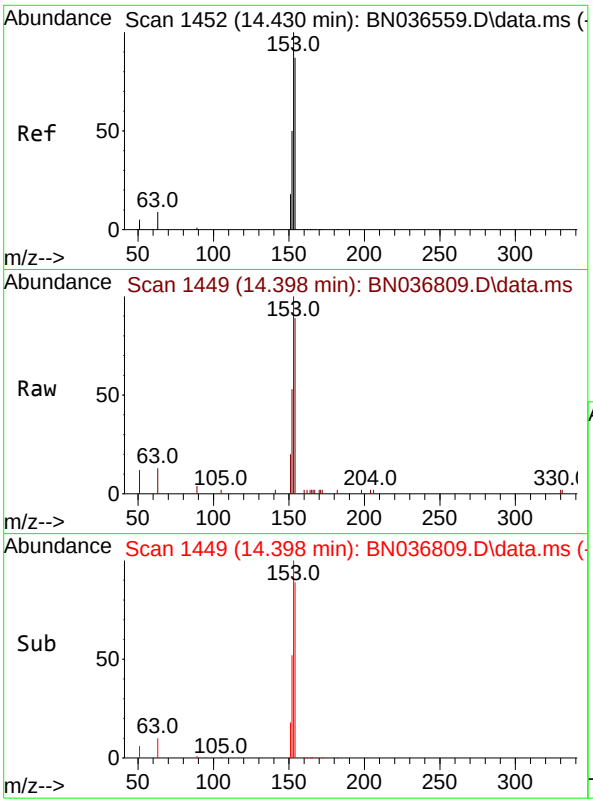




#16
Acenaphthylene
Concen: 0.350 ng
RT: 14.056 min Scan# 1417
Delta R.T. -0.021 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion:152 Resp: 4617

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 19.5 | 16.2 | 24.4 |
| 153 | 13.2 | 10.6 | 15.8 |



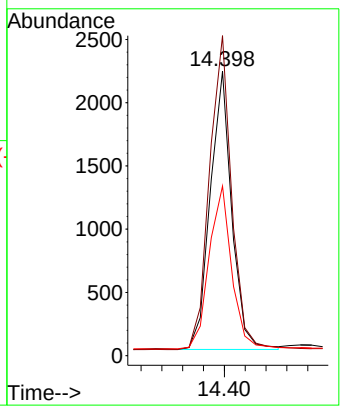


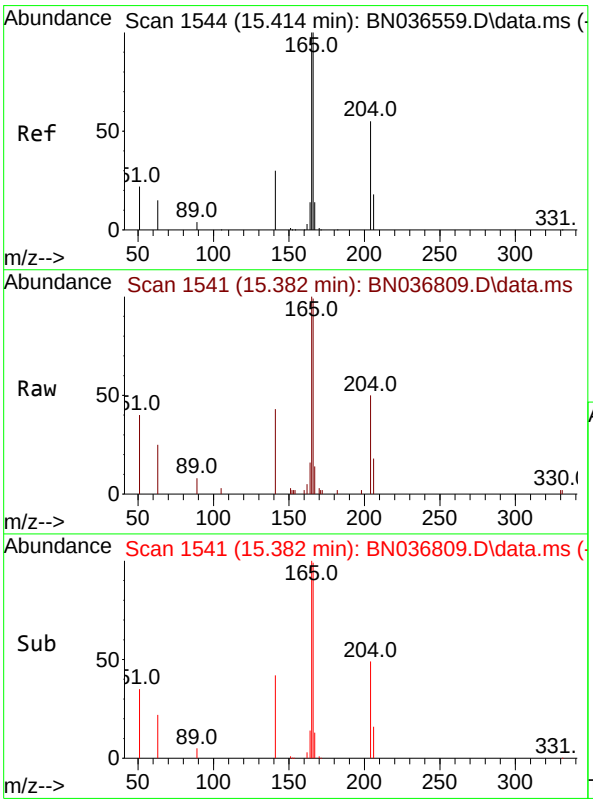

#17
Acenaphthene
Concen: 0.366 ng
RT: 14.398 min Scan# 14
Delta R.T. -0.032 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:154 Resp: 3162

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 116.9 | 94.1 | 141.1 |
| 152 | 62.4 | 49.8 | 74.6 |

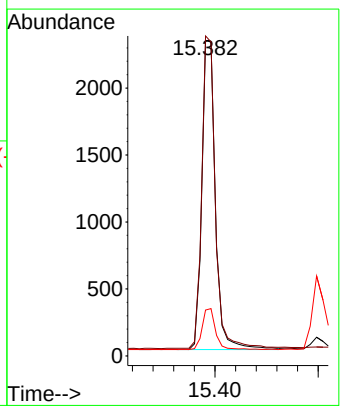


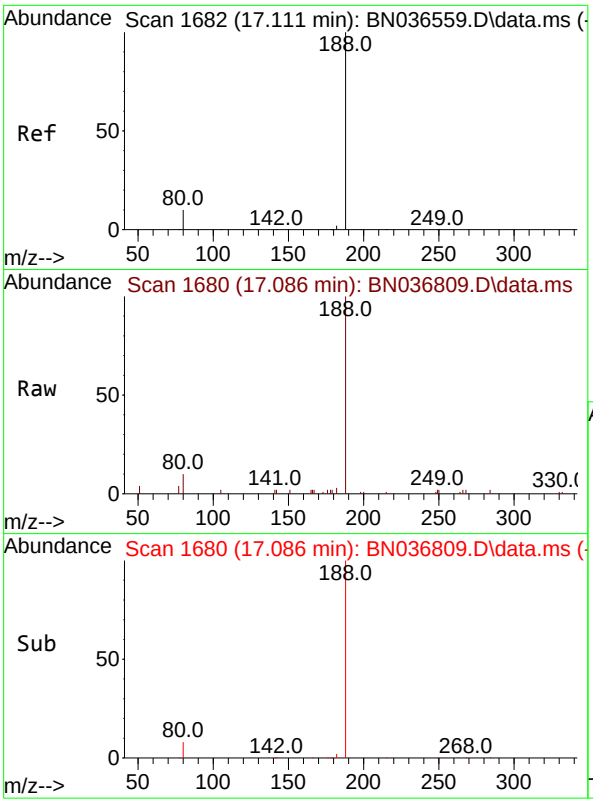




#18
Fluorene
Concen: 0.362 ng
RT: 15.382 min Scan# 1541
Delta R.T. -0.032 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion:166 Resp: 4232

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 100.4 | 79.8 | 119.8 |
| 167 | 13.2 | 10.6 | 15.8 |



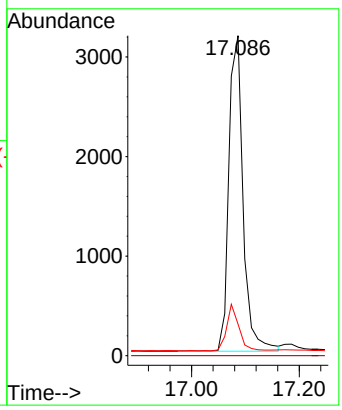


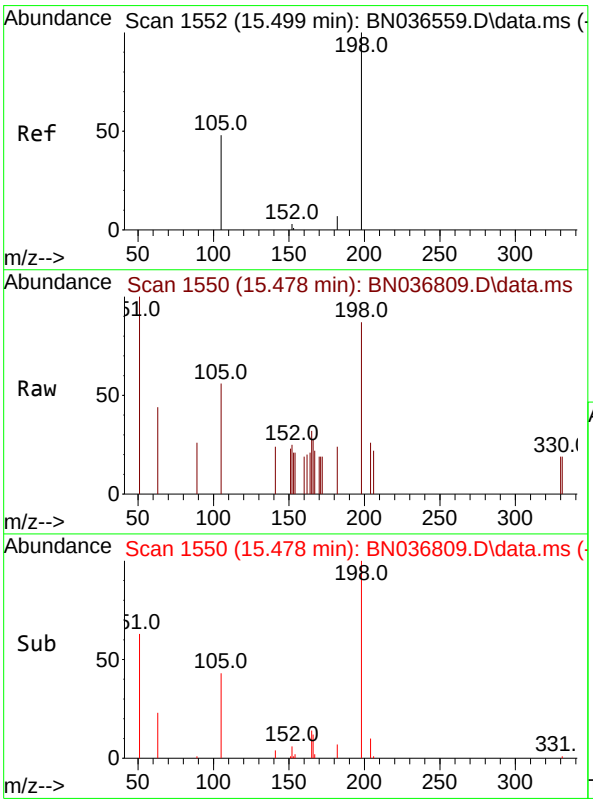

#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.086 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:188 Resp: 5809

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 9.9 | 8.8 | 13.2 |

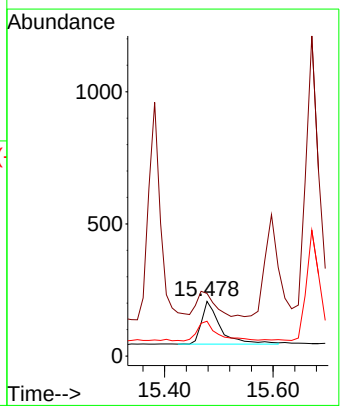


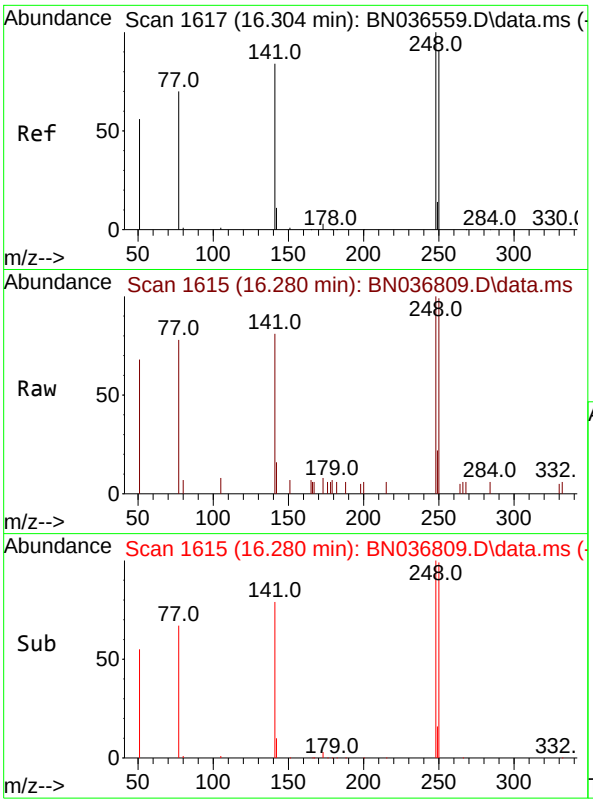




#20
4,6-Dinitro-2-methylphenol
Concen: 0.419 ng
RT: 15.478 min Scan# 1550
Delta R.T. -0.021 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion:198 Resp: 405

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 198 | 100 | | |
| 51 | 114.5 | 107.9 | 161.9 |
| 105 | 63.8 | 56.2 | 84.2 |



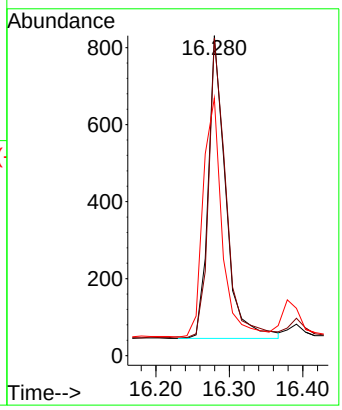


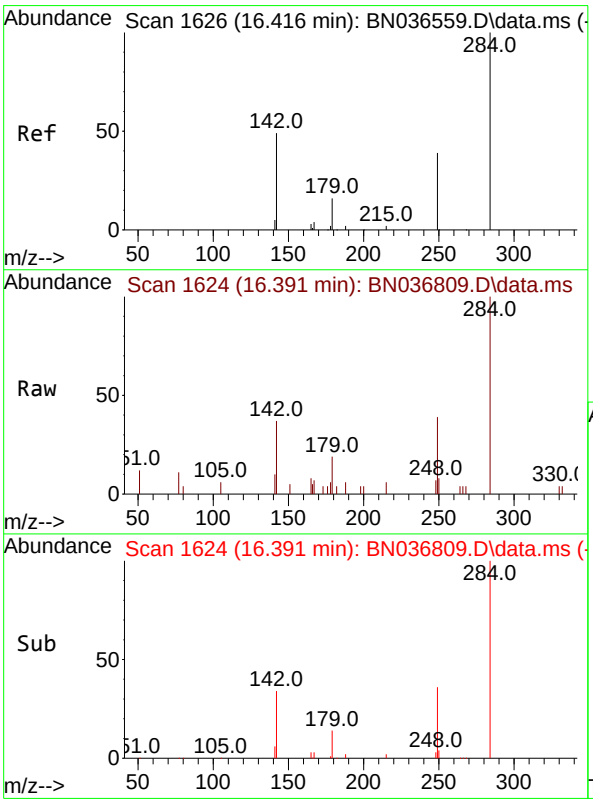

#21
4-Bromophenyl-phenylether
Concen: 0.355 ng
RT: 16.280 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:248 Resp: 1292

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 99.2 | 73.0 | 109.6 |
| 141 | 80.5 | 68.6 | 103.0 |

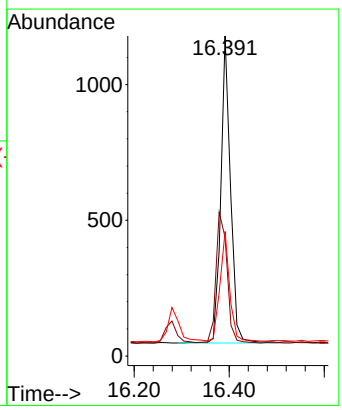


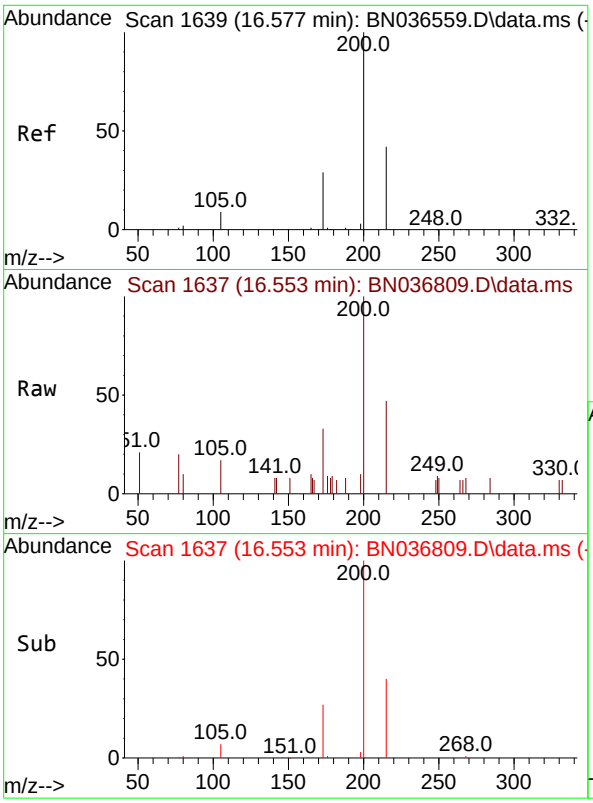




#22
Hexachlorobenzene
Concen: 0.361 ng
RT: 16.391 min Scan# 1624
Delta R.T. -0.025 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion:284 Resp: 1587

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 49.0 | 37.0 | 55.4 |
| 249 | 35.5 | 28.1 | 42.1 |



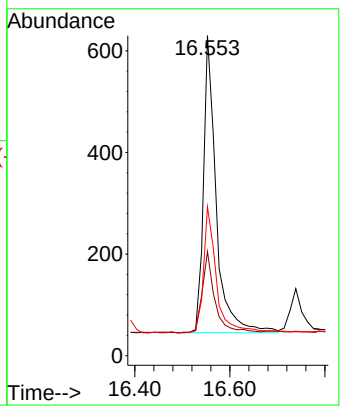


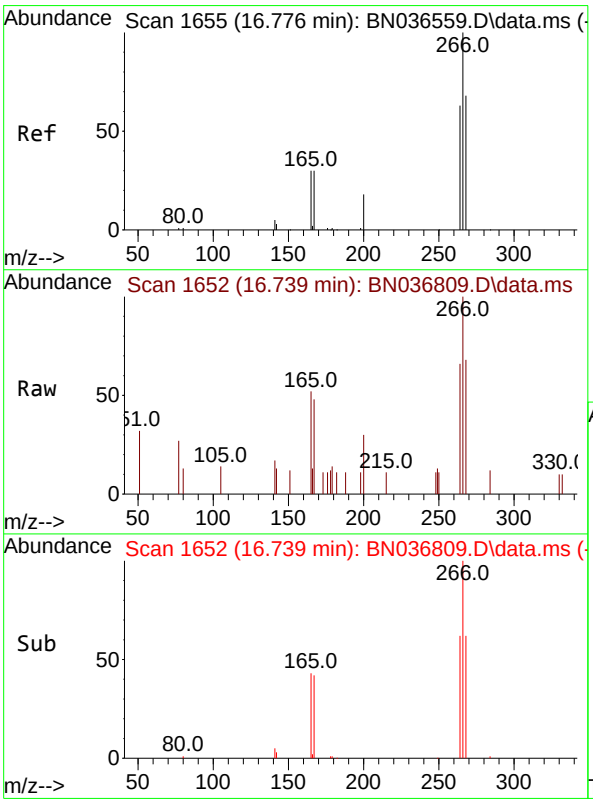

#23
Atrazine
Concen: 0.376 ng
RT: 16.553 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:200 Resp: 1096

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 173 | 32.5 | 27.3 | 40.9 |
| 215 | 46.5 | 36.8 | 55.2 |

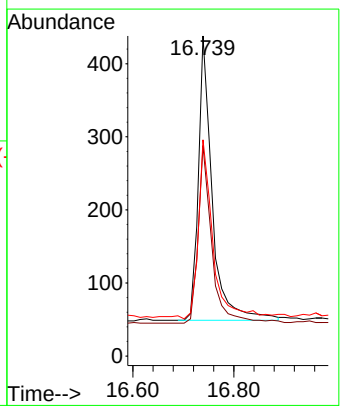


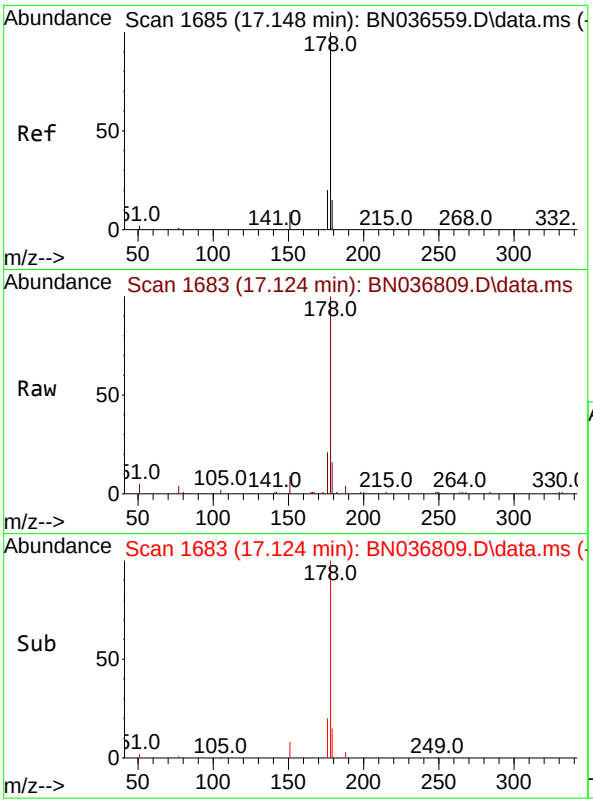




#24
Pentachlorophenol
Concen: 0.371 ng
RT: 16.739 min Scan# 1652
Delta R.T. -0.037 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion:266 Resp: 743

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 264 | 61.8 | 49.6 | 74.4 |
| 268 | 66.6 | 50.9 | 76.3 |



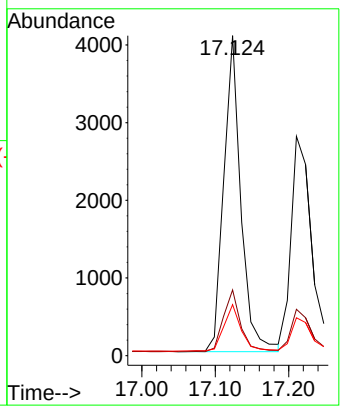


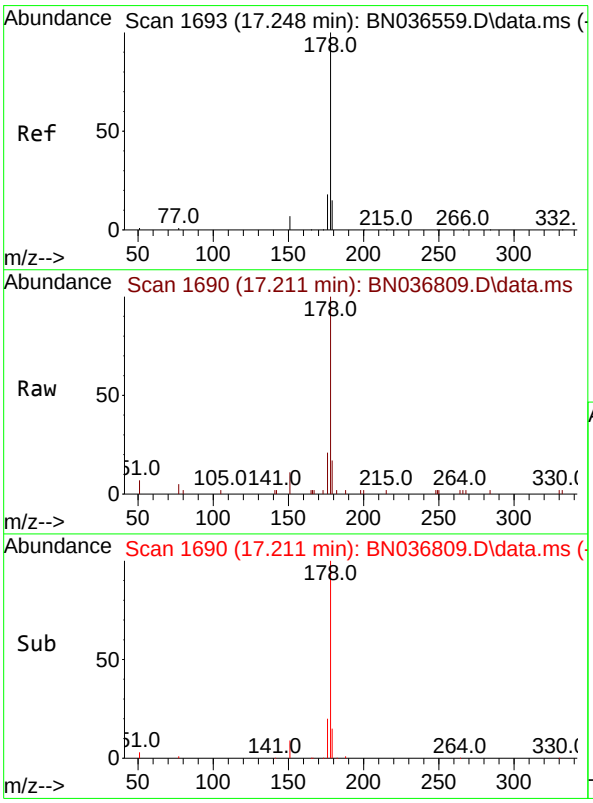

#25
Phenanthrene
Concen: 0.378 ng
RT: 17.124 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:178 Resp: 6581

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.7 | 15.9 | 23.9 |
| 179 | 15.1 | 12.2 | 18.4 |

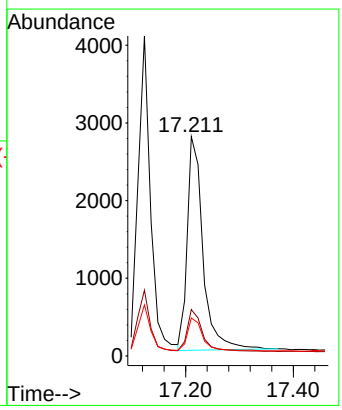


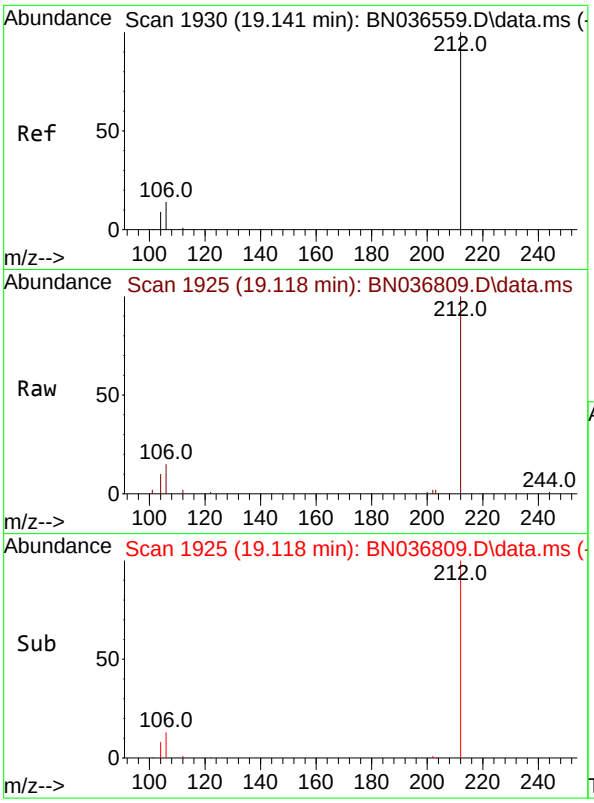




#26
Anthracene
Concen: 0.355 ng
RT: 17.211 min Scan# 1690
Delta R.T. -0.037 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion:178 Resp: 5583

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.3 | 15.4 | 23.2 |
| 179 | 15.3 | 12.6 | 18.8 |



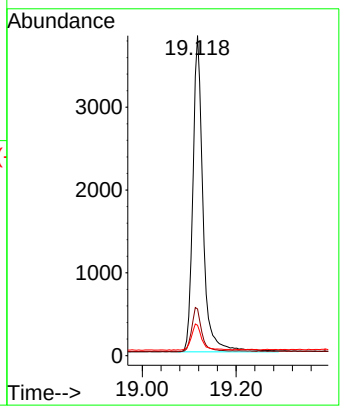


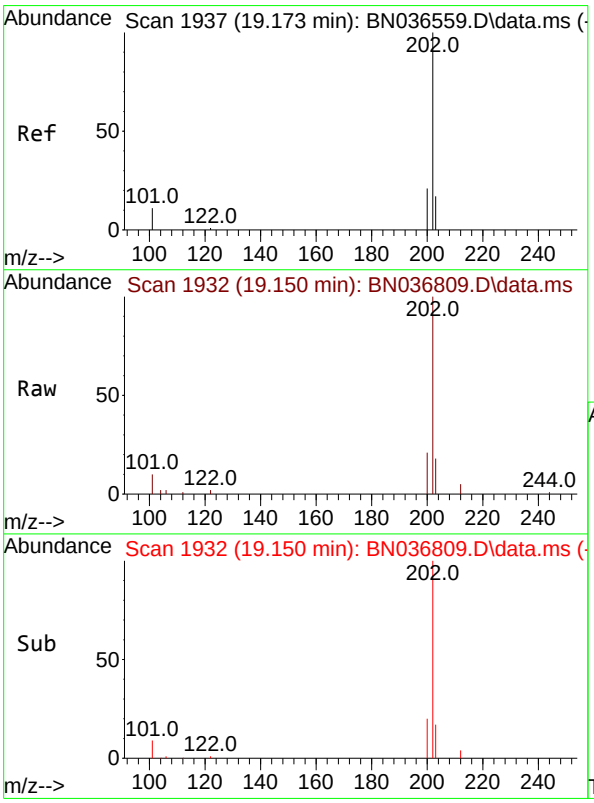

#27
Fluoranthene-d10
Concen: 0.386 ng
RT: 19.118 min Scan# 1
Delta R.T. -0.023 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:212 Resp: 5750

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 13.6 | 11.8 | 17.6 |
| 104 | 8.5 | 7.3 | 10.9 |

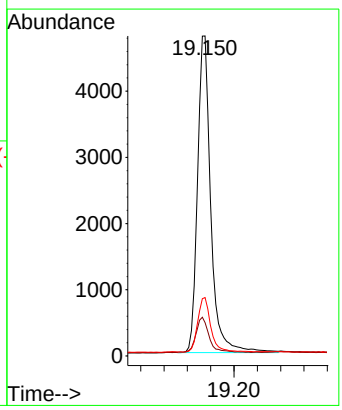


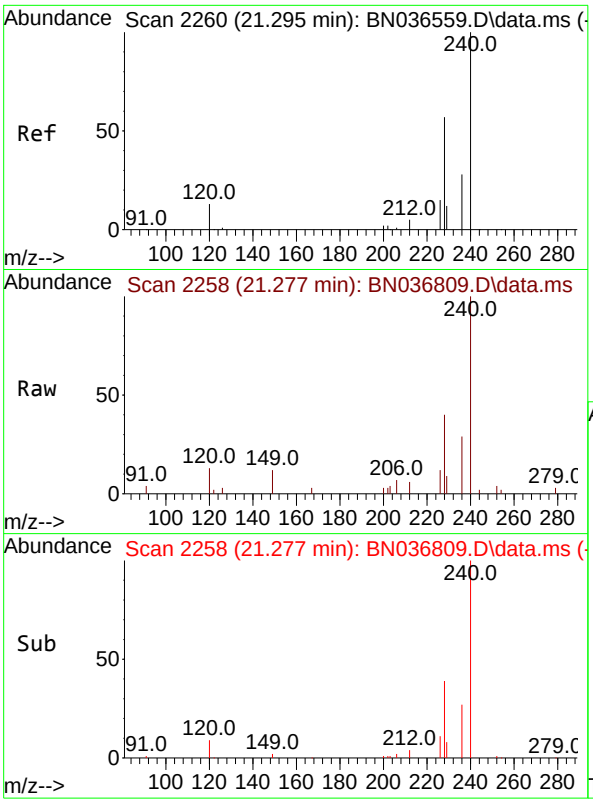




#28
Fluoranthene
Concen: 0.388 ng
RT: 19.150 min Scan# 1932
Delta R.T. -0.023 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion:202 Resp: 7591

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 11.2 | 9.4 | 14.0 |
| 203 | 17.1 | 13.5 | 20.3 |



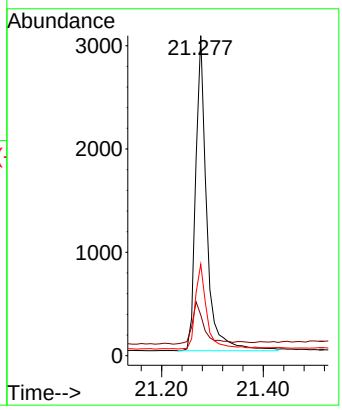


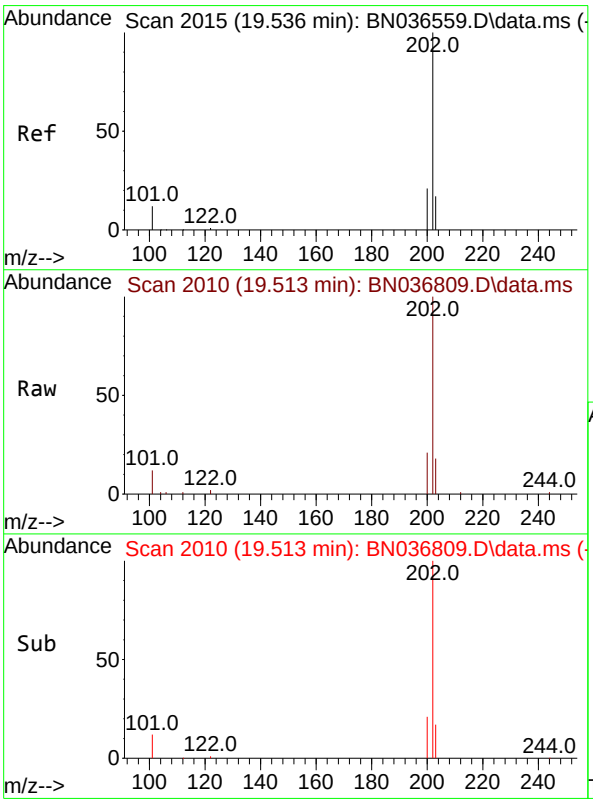

#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:240 Resp: 4586

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 12.7 | 14.6 | 22.0# |
| 236 | 28.6 | 24.1 | 36.1 |

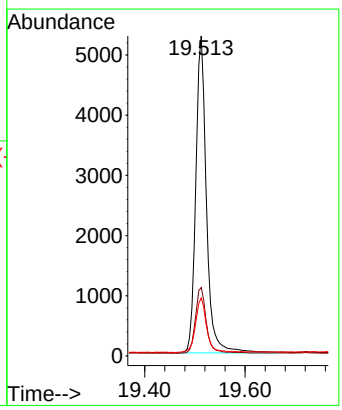


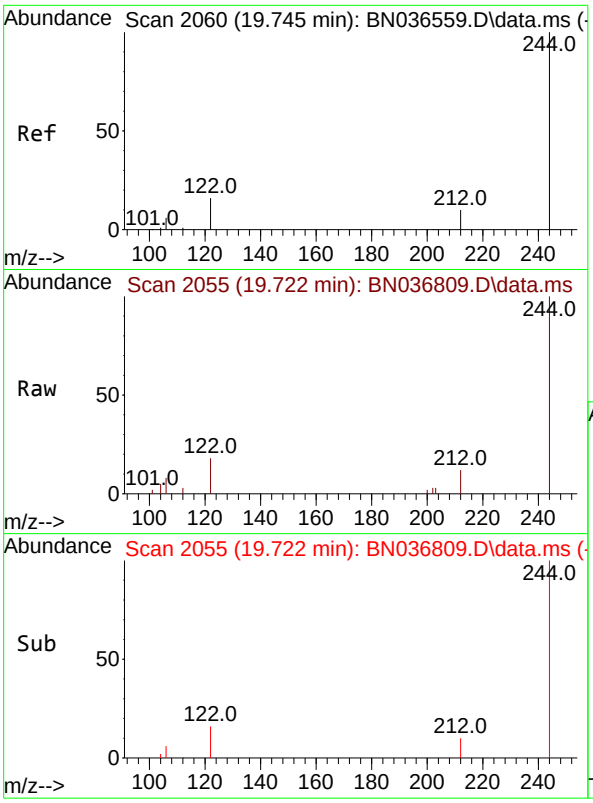




#30
Pyrene
Concen: 0.348 ng
RT: 19.513 min Scan# 2010
Delta R.T. -0.023 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion:202 Resp: 7799

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.1 | 17.1 | 25.7 |
| 203 | 17.5 | 14.1 | 21.1 |



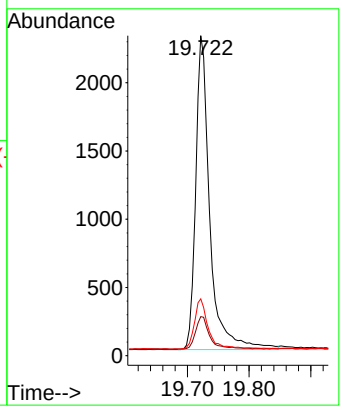


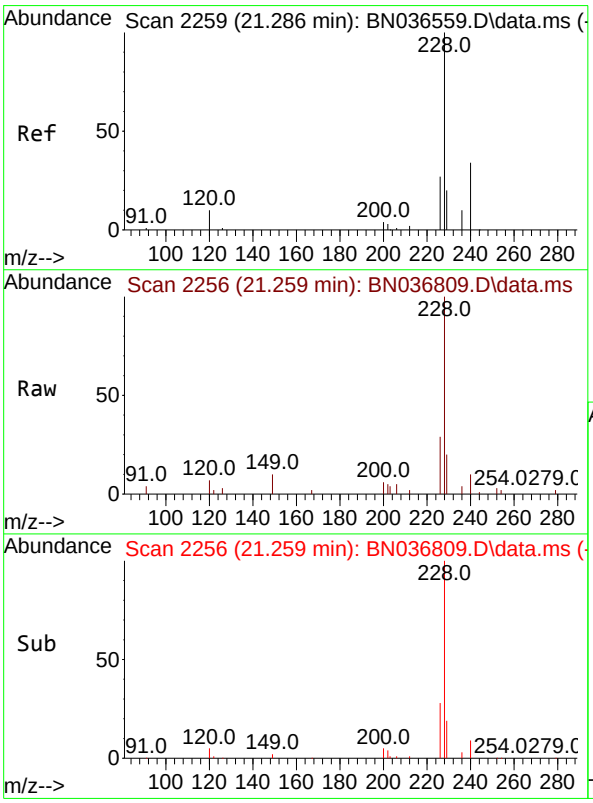

#31
Terphenyl-d14
Concen: 0.333 ng
RT: 19.722 min Scan# 2
Delta R.T. -0.023 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:244 Resp: 3660

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 12.2 | 9.6 | 14.4 |
| 122 | 17.7 | 13.9 | 20.9 |

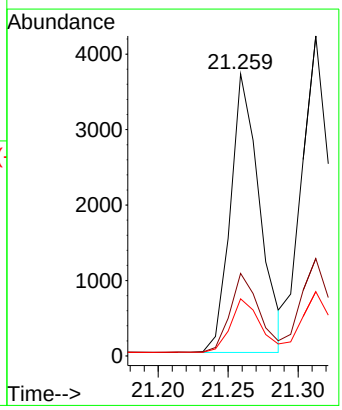


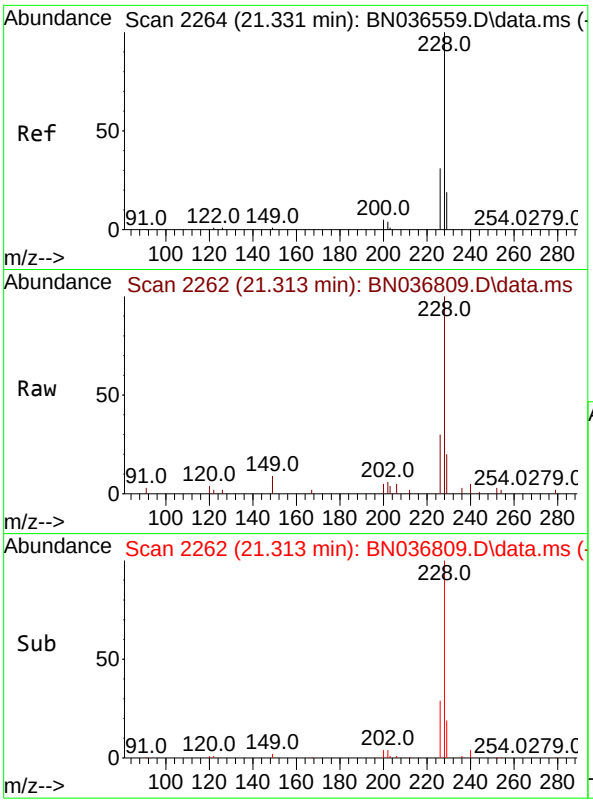




#32
Benzo(a)anthracene
Concen: 0.337 ng
RT: 21.259 min Scan# 2256
Delta R.T. -0.027 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion:228 Resp: 5377

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 29.3 | 22.5 | 33.7 |
| 229 | 20.2 | 16.6 | 25.0 |



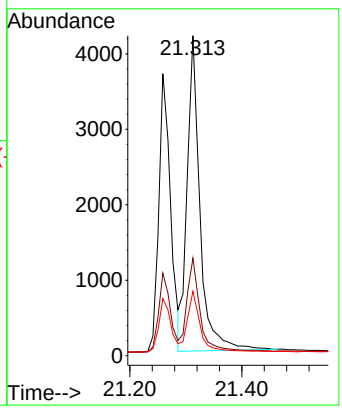


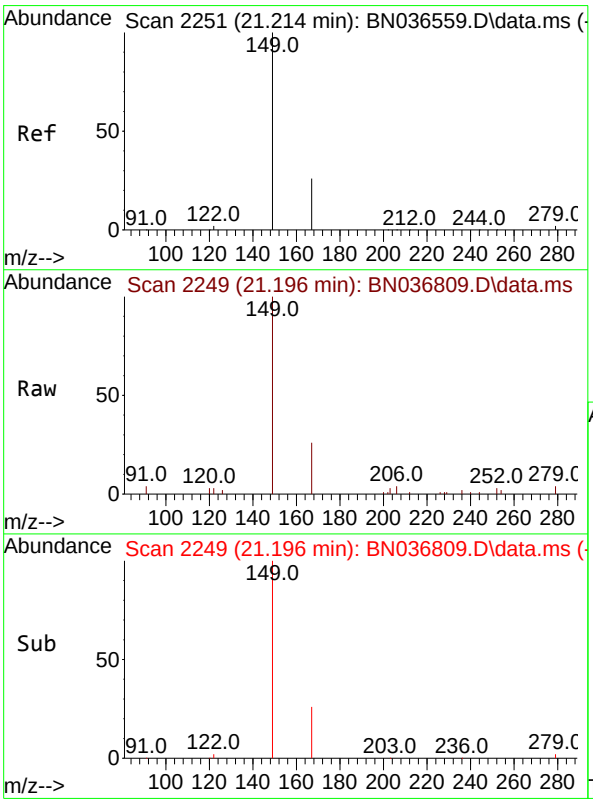

#33
Chrysene
Concen: 0.381 ng
RT: 21.313 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:228 Resp: 6640

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 30.4 | 25.3 | 37.9 |
| 229 | 20.1 | 15.8 | 23.8 |

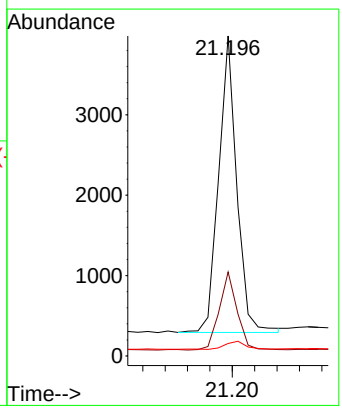


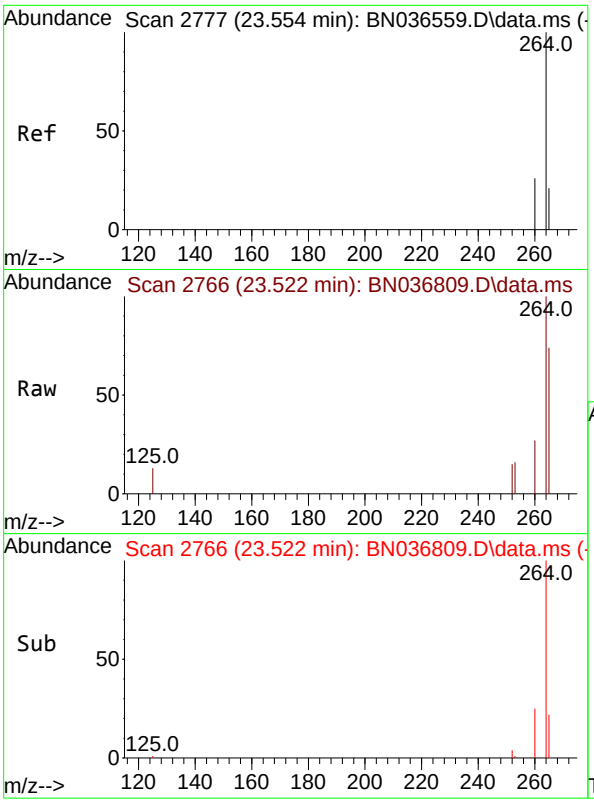




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.365 ng
RT: 21.196 min Scan# 2249
Delta R.T. -0.018 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion:149 Resp: 4143

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 26.0 | 20.7 | 31.1 |
| 279 | 3.0 | 3.6 | 5.4# |



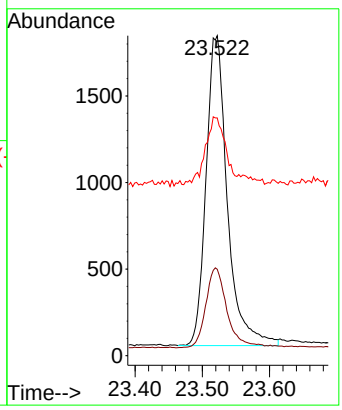


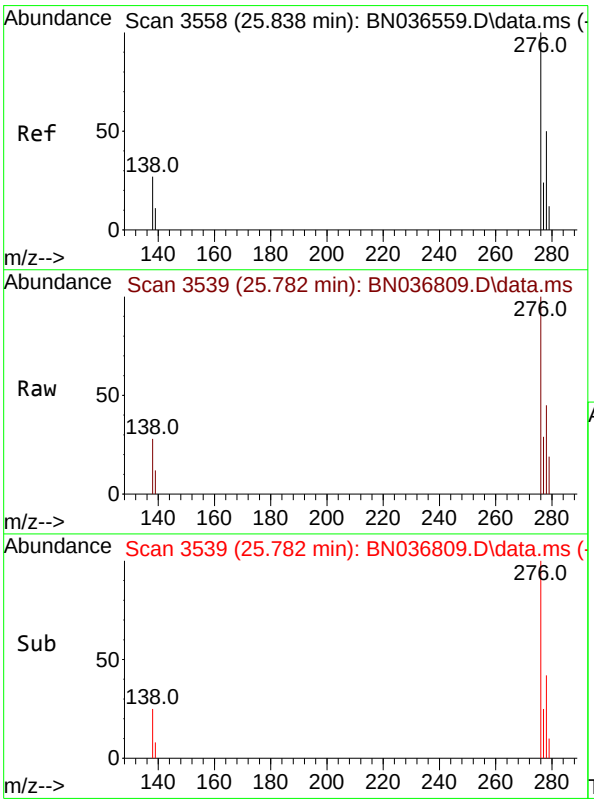

#35
Perylene-d12
Concen: 0.400 ng
RT: 23.522 min Scan# 2
Delta R.T. -0.032 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:264 Resp: 3945

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 27.0 | 22.6 | 33.8 |
| 265 | 74.3 | 88.1 | 132.1# |

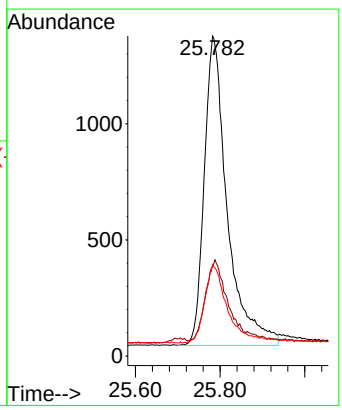


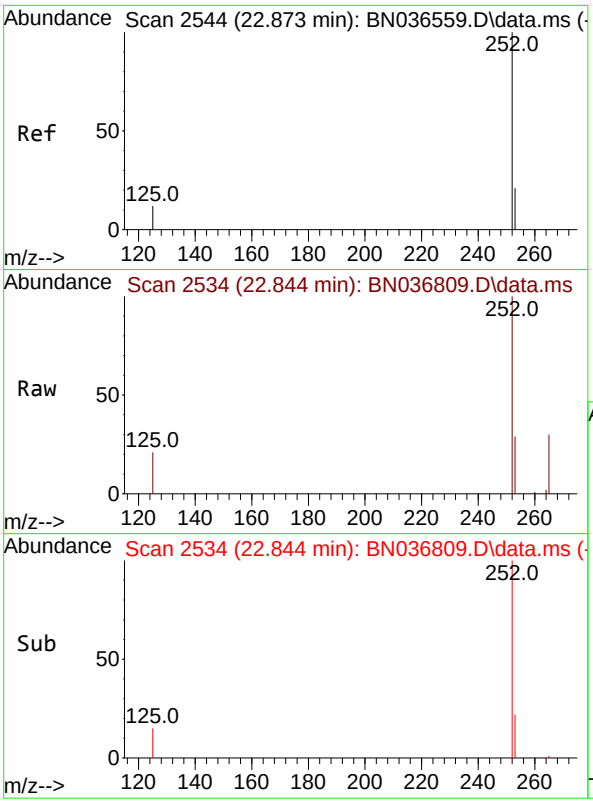




#36
Indeno(1,2,3-cd)pyrene
Concen: 0.352 ng
RT: 25.782 min Scan# 3539
Delta R.T. -0.056 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion:276 Resp: 5019

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 24.2 | 23.4 | 35.2 |
| 277 | 24.6 | 20.0 | 30.0 |



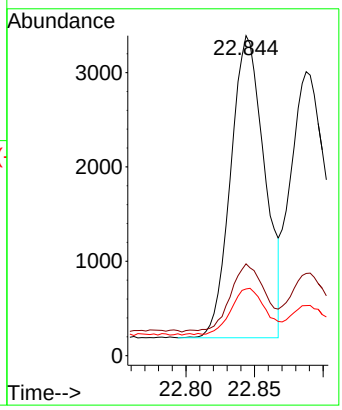


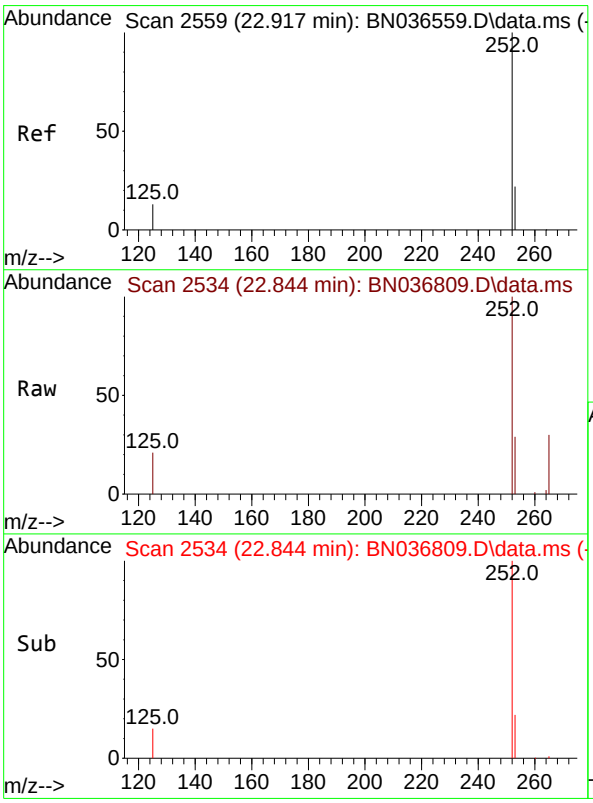

#37
Benzo(b)fluoranthene
Concen: 0.383 ng
RT: 22.844 min Scan# 2
Delta R.T. -0.029 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:252 Resp: 5495

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 28.7 | 23.9 | 35.9 |
| 125 | 20.8 | 17.4 | 26.2 |

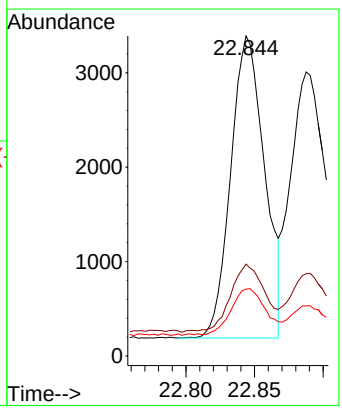


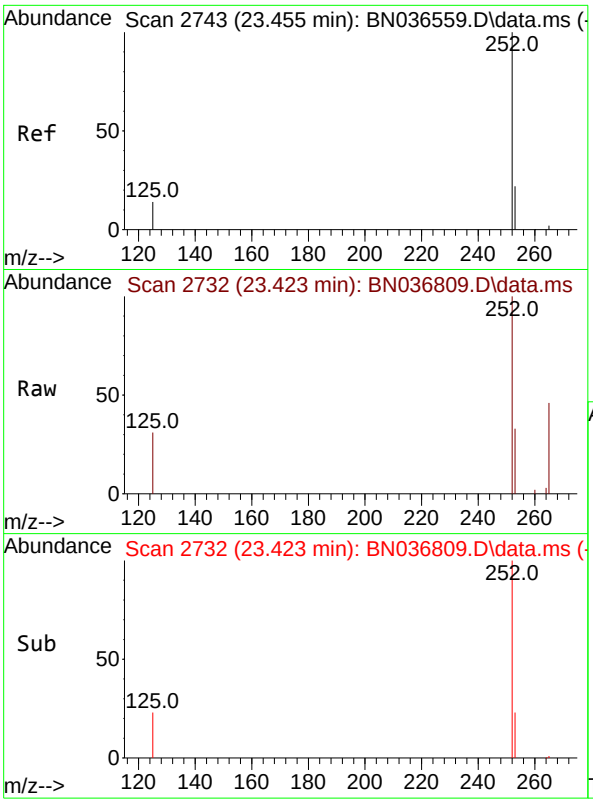




#38
Benzo(k)fluoranthene
Concen: 0.365 ng
RT: 22.844 min Scan# 2534
Delta R.T. -0.073 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion:252 Resp: 5495

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 28.7 | 24.6 | 36.8 |
| 125 | 20.8 | 17.8 | 26.8 |



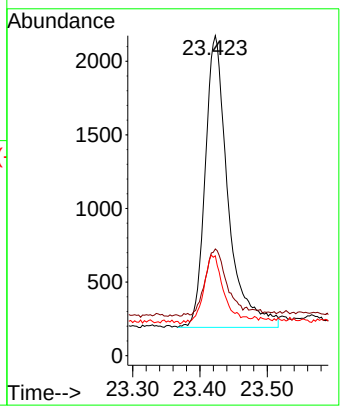


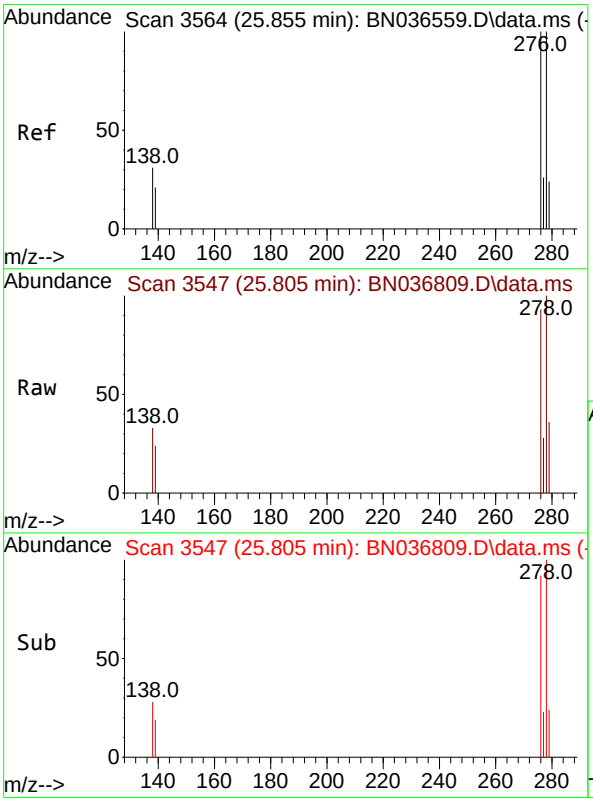

#39
Benzo(a)pyrene
Concen: 0.387 ng
RT: 23.423 min Scan# 2
Delta R.T. -0.032 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:252 Resp: 4679

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 33.3 | 27.8 | 41.8 |
| 125 | 31.2 | 22.7 | 34.1 |

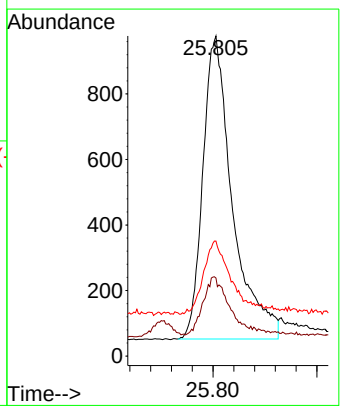


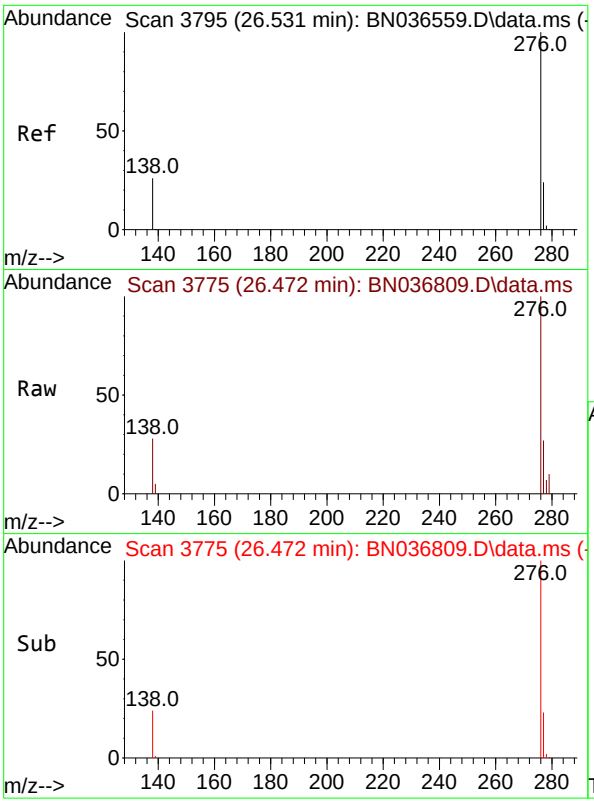




#40
Dibenzo(a,h)anthracene
Concen: 0.330 ng
RT: 25.805 min Scan# 3547
Delta R.T. -0.050 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion:278 Resp: 3655

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 24.4 | 20.8 | 31.2 |
| 279 | 35.9 | 28.8 | 43.2 |



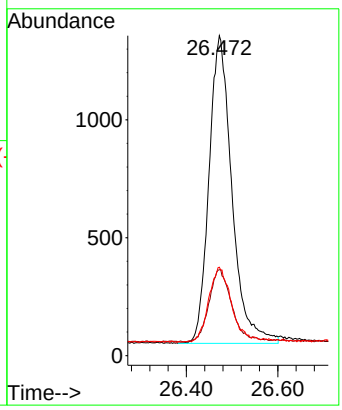



#41
Benzo(g,h,i)perylene
Concen: 0.358 ng
RT: 26.472 min Scan# 3
Delta R.T. -0.058 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:276 Resp: 4543

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 26.8 | 22.2 | 33.4 |
| 138 | 27.6 | 24.1 | 36.1 |



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN033125\
Data File : BN036812.D
Acq On : 31 Mar 2025 13:04
Operator : RC/JU
Sample : Q1629-15MS
Misc :
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01S-20250320MS

Quant Time: Mar 31 13:51:32 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

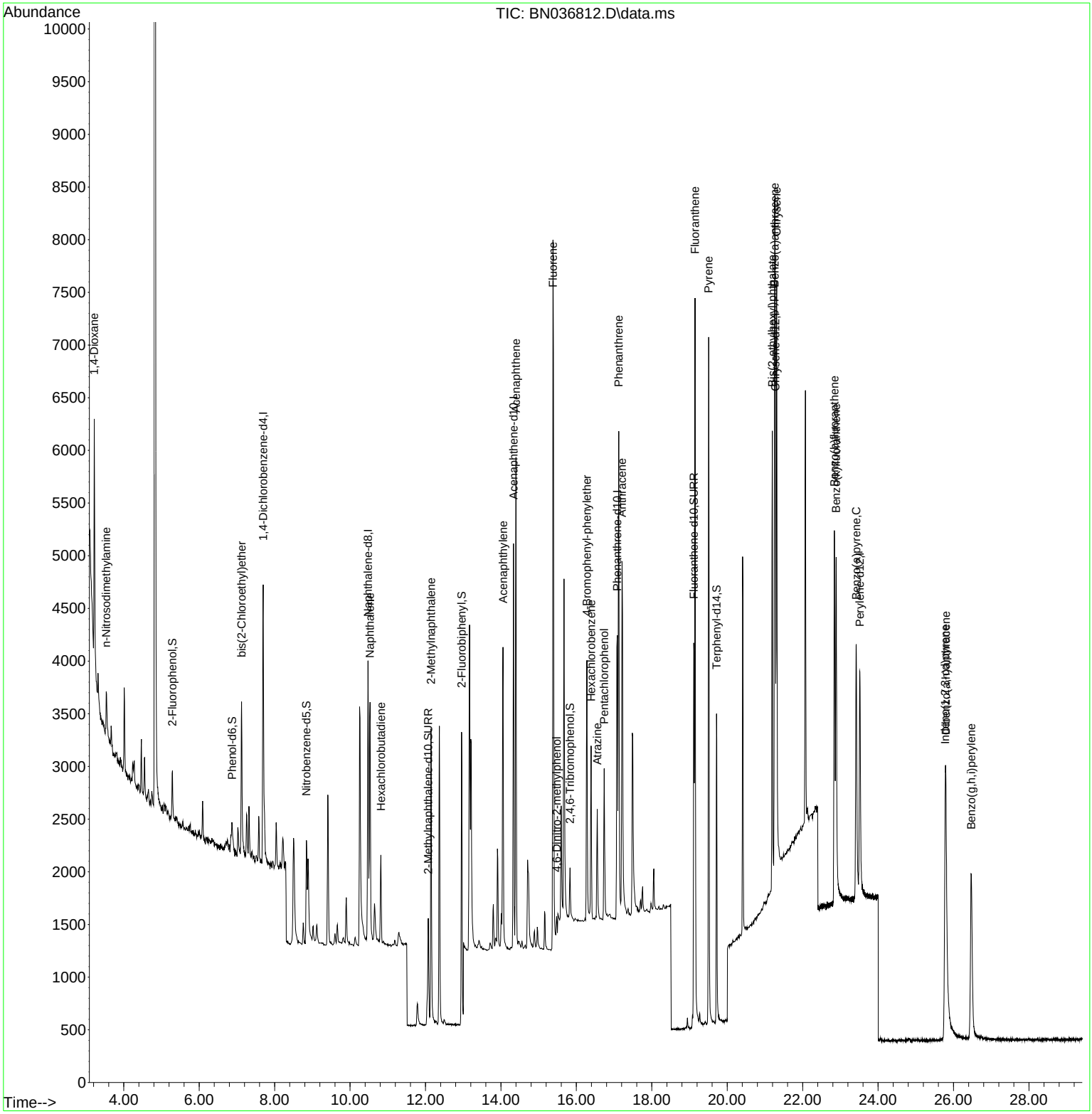
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.696 | 152 | 1333 | 0.400 | ng | -0.03 |
| 7) Naphthalene-d8 | 10.477 | 136 | 3452 | 0.400 | ng | -0.03 |
| 13) Acenaphthene-d10 | 14.334 | 164 | 2071 | 0.400 | ng | -0.03 |
| 19) Phenanthrene-d10 | 17.087 | 188 | 4565 | 0.400 | ng | -0.02 |
| 29) Chrysene-d12 | 21.277 | 240 | 3721 | 0.400 | ng | #-0.02 |
| 35) Perylene-d12 | 23.514 | 264 | 3243 | 0.400 | ng | #-0.04 |
| System Monitoring Compounds | | | | | | |
| 4) 2-Fluorophenol | 5.291 | 112 | 343 | 0.110 | ng | -0.02 |
| 5) Phenol-d6 | 6.872 | 99 | 244 | 0.064 | ng | -0.03 |
| 8) Nitrobenzene-d5 | 8.843 | 82 | 968 | 0.258 | ng | -0.03 |
| 11) 2-Methylnaphthalene-d10 | 12.075 | 152 | 1972 | 0.384 | ng | -0.04 |
| 14) 2,4,6-Tribromophenol | 15.833 | 330 | 298 | 0.317 | ng | -0.02 |
| 15) 2-Fluorobiphenyl | 12.958 | 172 | 3585 | 0.298 | ng | -0.03 |
| 27) Fluoranthene-d10 | 19.113 | 212 | 4467 | 0.382 | ng | -0.03 |
| 31) Terphenyl-d14 | 19.717 | 244 | 3076 | 0.345 | ng | -0.03 |
| Target Compounds | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.218 | 88 | 1205 | 0.815 | ng | # 74 |
| 3) n-Nitrosodimethylamine | 3.536 | 42 | 424 | 0.142 | ng | # 97 |
| 6) bis(2-Chloroethyl)ether | 7.125 | 93 | 1162 | 0.293 | ng | 95 |
| 9) Naphthalene | 10.530 | 128 | 3143 | 0.310 | ng | 97 |
| 10) Hexachlorobutadiene | 10.819 | 225 | 645 | 0.270 | ng | # 99 |
| 12) 2-Methylnaphthalene | 12.146 | 142 | 2086 | 0.323 | ng | 97 |
| 16) Acenaphthylene | 14.056 | 152 | 3407 | 0.349 | ng | 99 |
| 17) Acenaphthene | 14.398 | 154 | 2173 | 0.340 | ng | 100 |
| 18) Fluorene | 15.382 | 166 | 3010 | 0.348 | ng | 100 |
| 20) 4,6-Dinitro-2-methylph... | 15.478 | 198 | 276 | 0.383 | ng | 90 |
| 21) 4-Bromophenyl-phenylether | 16.280 | 248 | 972 | 0.340 | ng | 92 |
| 22) Hexachlorobenzene | 16.392 | 284 | 1104 | 0.320 | ng | 94 |
| 23) Atrazine | 16.553 | 200 | 961 | 0.419 | ng | 96 |
| 24) Pentachlorophenol | 16.739 | 266 | 749 | 0.476 | ng | 97 |
| 25) Phenanthrene | 17.124 | 178 | 5123 | 0.374 | ng | 100 |
| 26) Anthracene | 17.211 | 178 | 4690 | 0.380 | ng | 99 |
| 28) Fluoranthene | 19.146 | 202 | 6331 | 0.412 | ng | 98 |
| 30) Pyrene | 19.508 | 202 | 6526 | 0.359 | ng | 99 |
| 32) Benzo(a)anthracene | 21.259 | 228 | 4950 | 0.383 | ng | 98 |
| 33) Chrysene | 21.313 | 228 | 5624 | 0.398 | ng | 98 |
| 34) Bis(2-ethylhexyl)phtha... | 21.196 | 149 | 3839 | 0.417 | ng | 98 |
| 36) Indeno(1,2,3-cd)pyrene | 25.779 | 276 | 4261 | 0.364 | ng | 95 |
| 37) Benzo(b)fluoranthene | 22.841 | 252 | 4590 | 0.389 | ng | 96 |
| 38) Benzo(k)fluoranthene | 22.888 | 252 | 4906 | 0.396 | ng | 95 |
| 39) Benzo(a)pyrene | 23.420 | 252 | 4050 | 0.408 | ng | 95 |
| 40) Dibenzo(a,h)anthracene | 25.797 | 278 | 3226 | 0.354 | ng | 98 |
| 41) Benzo(g,h,i)perylene | 26.472 | 276 | 3674 | 0.352 | ng | 96 |

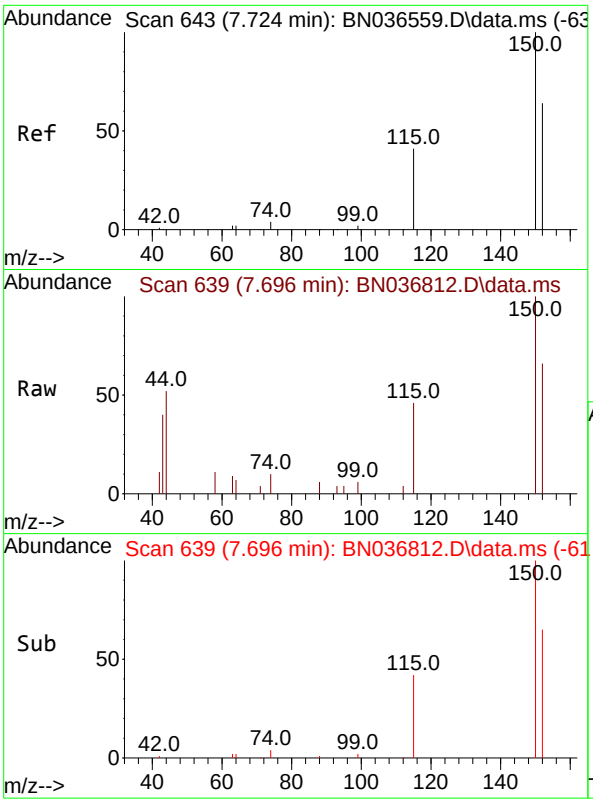
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN033125\
Data File : BN036812.D
Acq On : 31 Mar 2025 13:04
Operator : RC/JU
Sample : Q1629-15MS
Misc :
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01S-20250320MS

Quant Time: Mar 31 13:51:32 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration



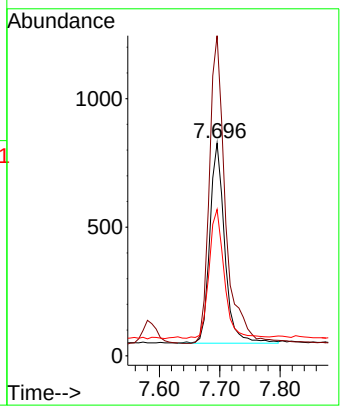


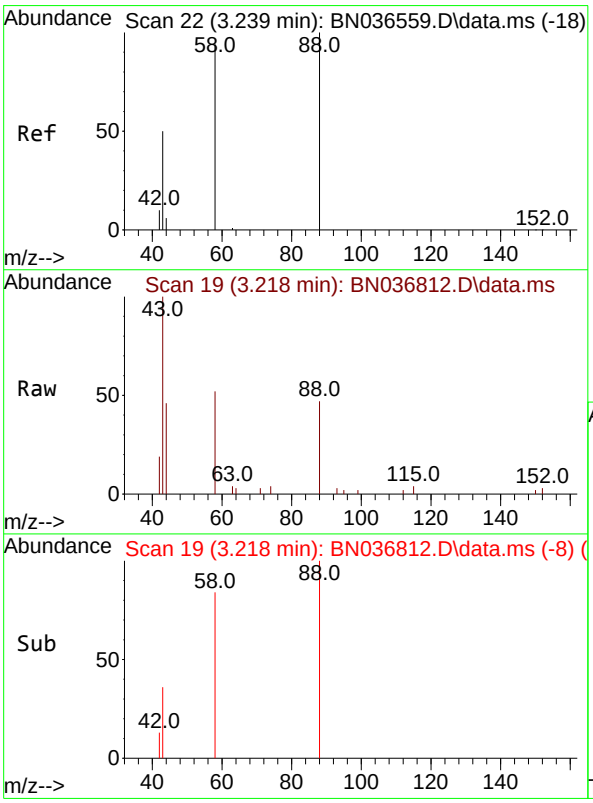

#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.696 min Scan# 6
Delta R.T. -0.028 min
Lab File: BN036812.D
Acq: 31 Mar 2025 13:04

**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01S-20250320MS

Tgt Ion:152 Resp: 1333

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 150.5 | 123.7 | 185.5 |
| 115 | 68.8 | 54.3 | 81.5 |

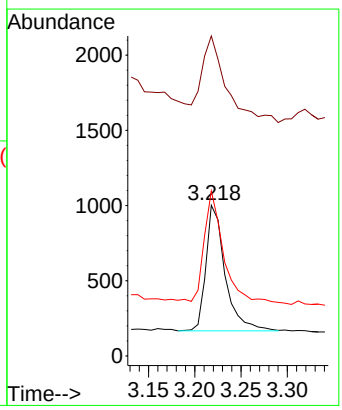


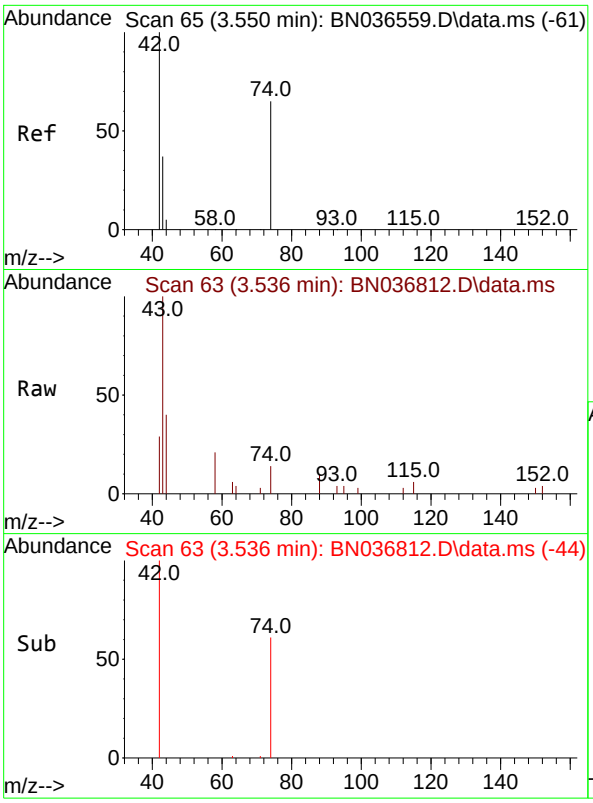




#2
1,4-Dioxane
Concen: 0.815 ng
RT: 3.218 min Scan# 19
Delta R.T. -0.021 min
Lab File: BN036812.D
Acq: 31 Mar 2025 13:04

Tgt Ion: 88 Resp: 1205

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 88.2 | 37.8 | 56.8# |
| 58 | 90.6 | 67.4 | 101.2 |



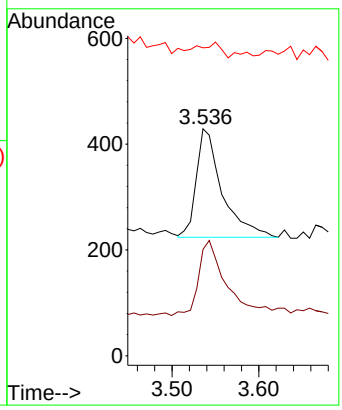


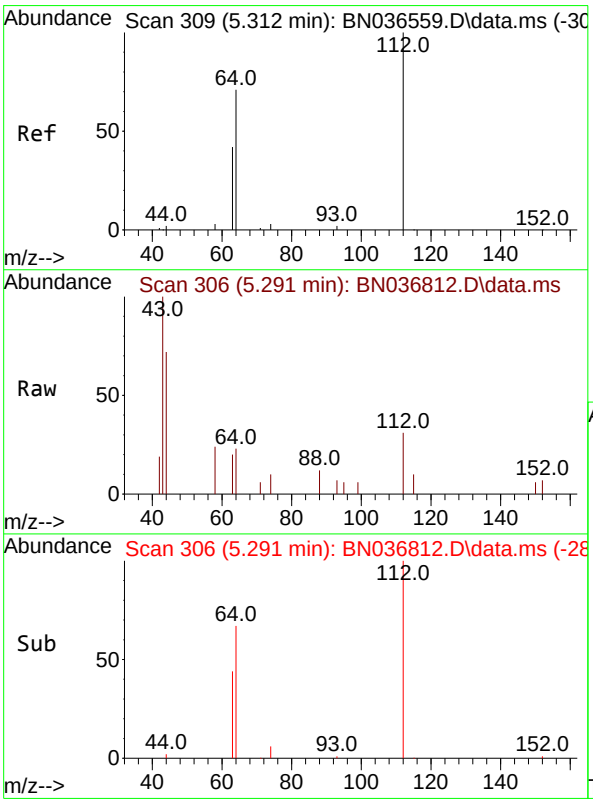

#3
n-Nitrosodimethylamine
Concen: 0.142 ng
RT: 3.536 min Scan# 6
Delta R.T. -0.014 min
Lab File: BN036812.D
Acq: 31 Mar 2025 13:04

**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01S-20250320MS

Tgt Ion: 42 Resp: 424

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 77.1 | 60.6 | 90.8 |
| 44 | 12.7 | 6.3 | 9.5# |

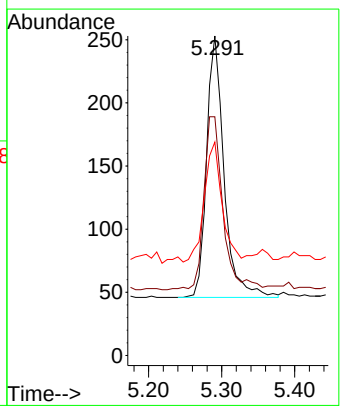


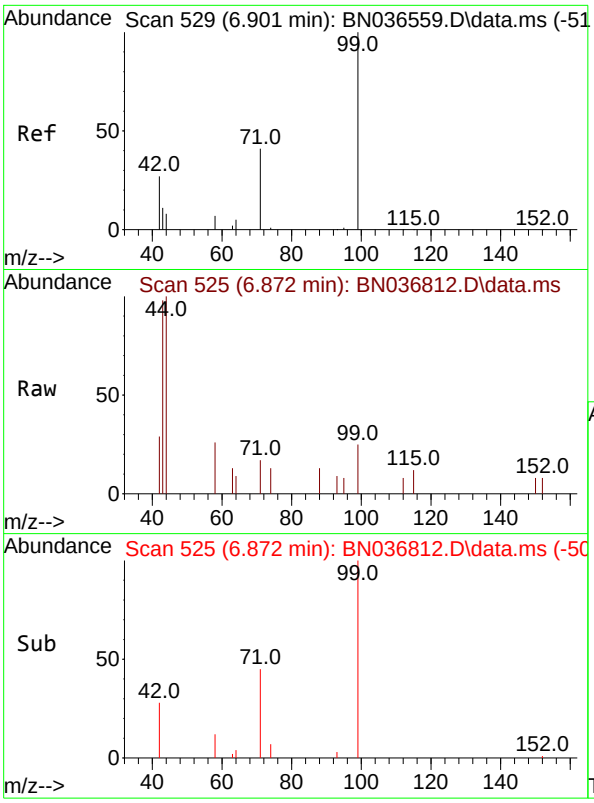




#4
2-Fluorophenol
Concen: 0.110 ng
RT: 5.291 min Scan# 306
Delta R.T. -0.021 min
Lab File: BN036812.D
Acq: 31 Mar 2025 13:04

Tgt Ion:112 Resp: 343

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 72.6 | 53.1 | 79.7 |
| 63 | 48.7 | 31.8 | 47.8# |



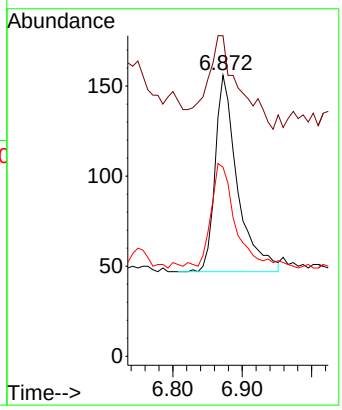


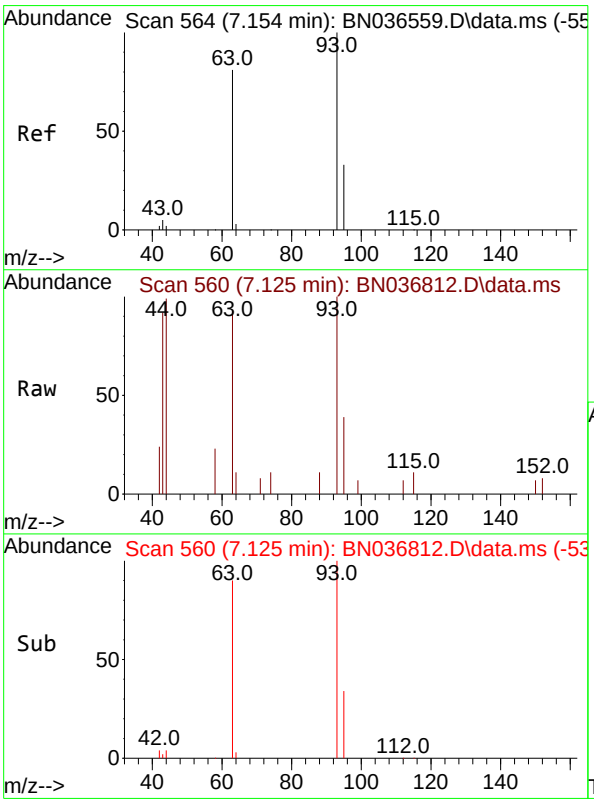

#5
Phenol-d6
Concen: 0.064 ng
RT: 6.872 min Scan# 5
Delta R.T. -0.029 min
Lab File: BN036812.D
Acq: 31 Mar 2025 13:04

**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01S-20250320MS

Tgt Ion: 99 Resp: 244

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 67.2 | 26.5 | 39.7# |
| 71 | 59.8 | 34.1 | 51.1# |

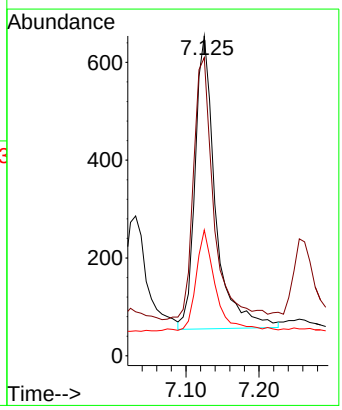


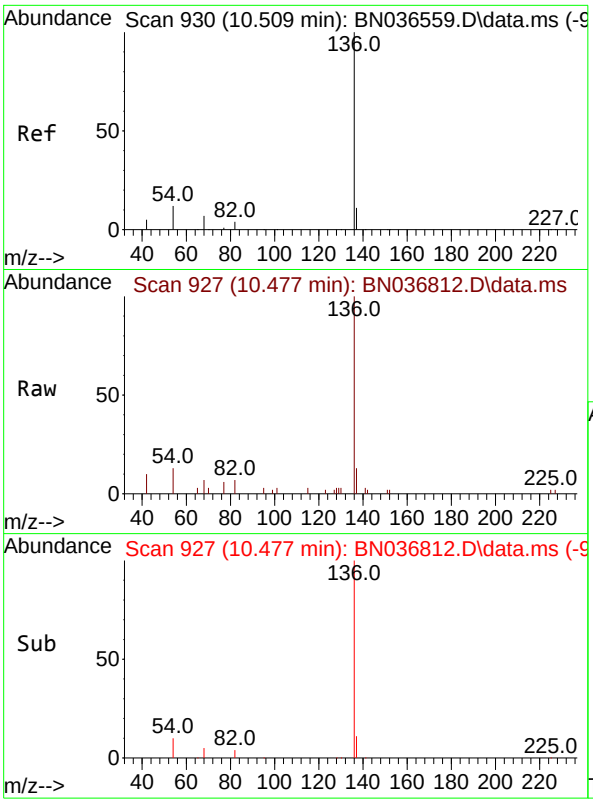




#6
bis(2-Chloroethyl)ether
Concen: 0.293 ng
RT: 7.125 min Scan# 560
Delta R.T. -0.029 min
Lab File: BN036812.D
Acq: 31 Mar 2025 13:04

Tgt Ion: 93 Resp: 1162

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 89.7 | 67.7 | 101.5 |
| 95 | 33.8 | 25.6 | 38.4 |



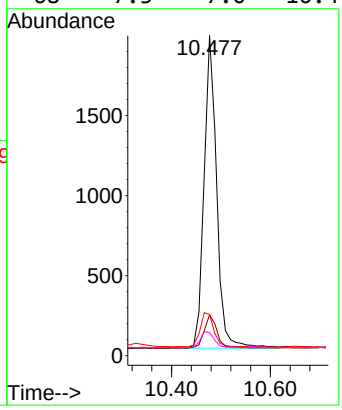


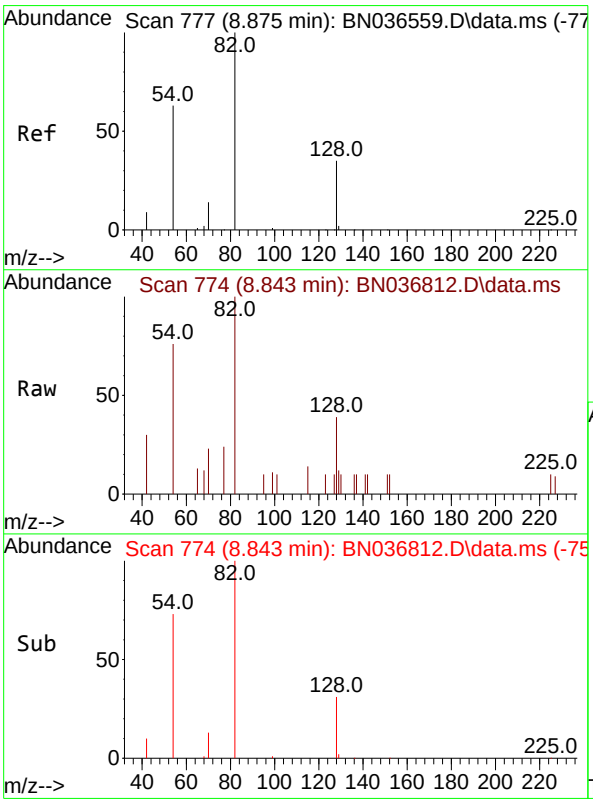

#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.477 min Scan# 9
Delta R.T. -0.032 min
Lab File: BN036812.D
Acq: 31 Mar 2025 13:04

**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01S-20250320MS

Tgt Ion:136 Resp: 3452

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 12.8 | 10.3 | 15.5 |
| 54 | 12.9 | 11.5 | 17.3 |
| 68 | 7.3 | 7.0 | 10.4 |

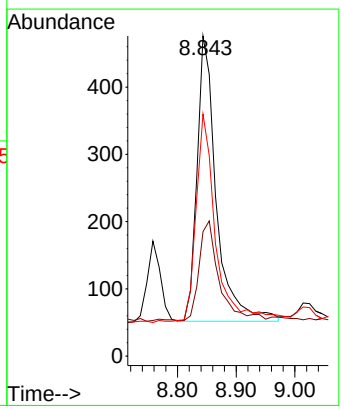


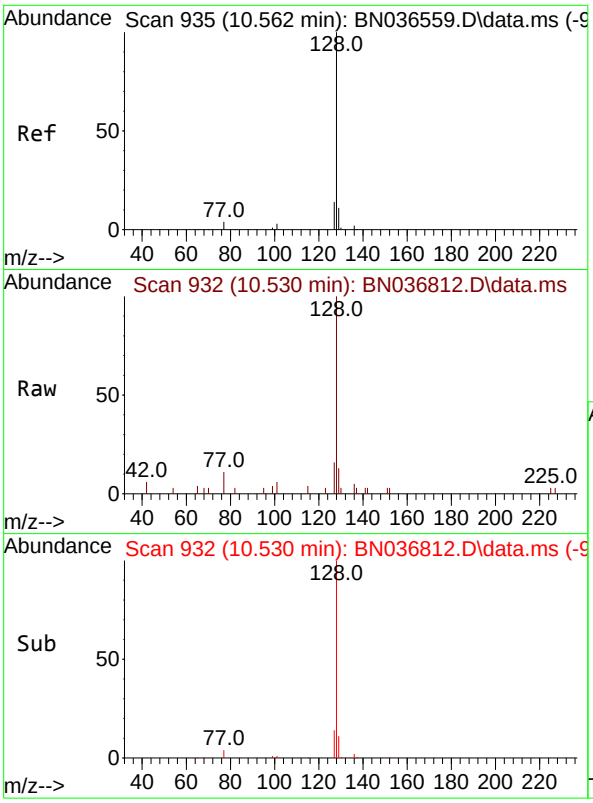




#8
Nitrobenzene-d5
Concen: 0.258 ng
RT: 8.843 min Scan# 774
Delta R.T. -0.032 min
Lab File: BN036812.D
Acq: 31 Mar 2025 13:04

Tgt Ion: 82 Resp: 968

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 38.9 | 30.6 | 45.8 |
| 54 | 75.6 | 52.2 | 78.4 |



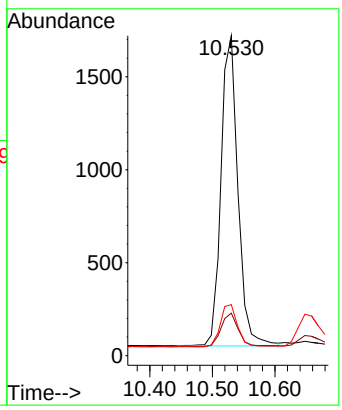


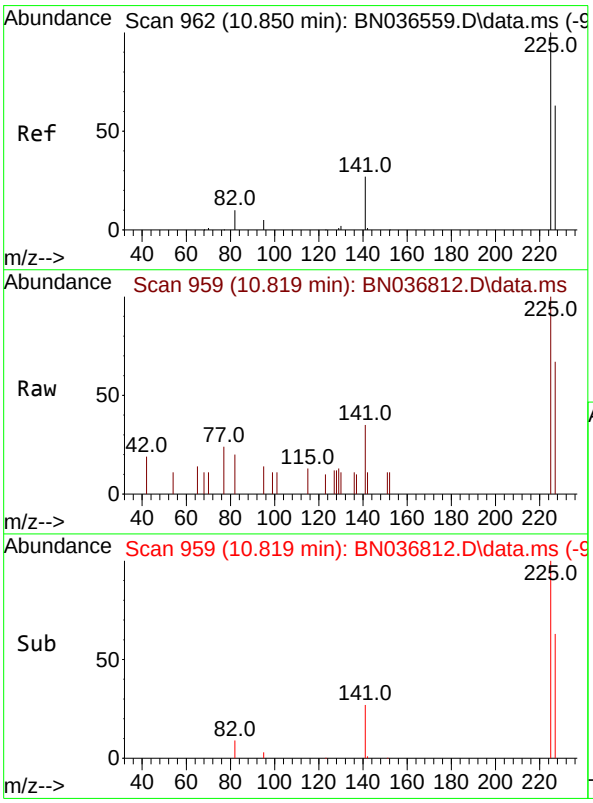

#9
Naphthalene
Concen: 0.310 ng
RT: 10.530 min Scan# 9
Delta R.T. -0.032 min
Lab File: BN036812.D
Acq: 31 Mar 2025 13:04

**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01S-20250320MS

Tgt Ion:128 Resp: 3143

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 13.3 | 9.8 | 14.6 |
| 127 | 15.9 | 11.8 | 17.8 |

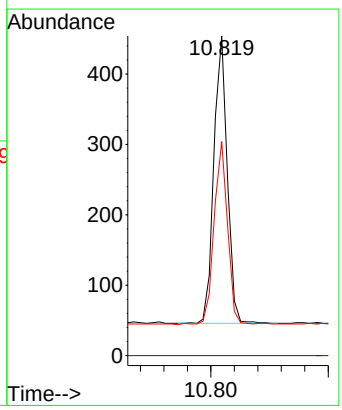


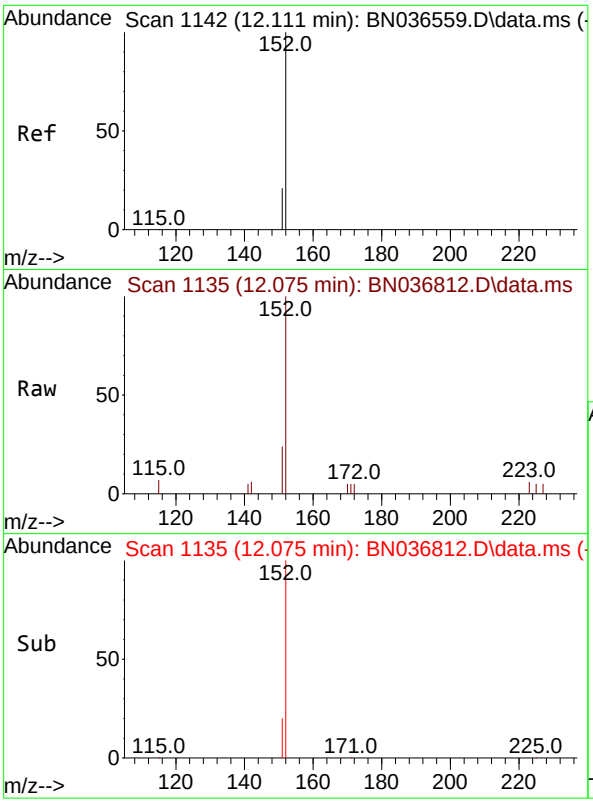




#10
Hexachlorobutadiene
Concen: 0.270 ng
RT: 10.819 min Scan# 959
Delta R.T. -0.032 min
Lab File: BN036812.D
Acq: 31 Mar 2025 13:04

Tgt Ion:225 Resp: 645

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 0.0 | 0.0 | 0.0 |
| 227 | 64.2 | 51.8 | 77.8 |



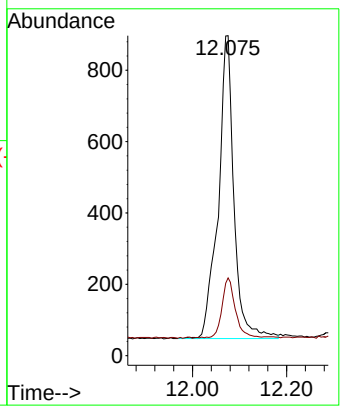


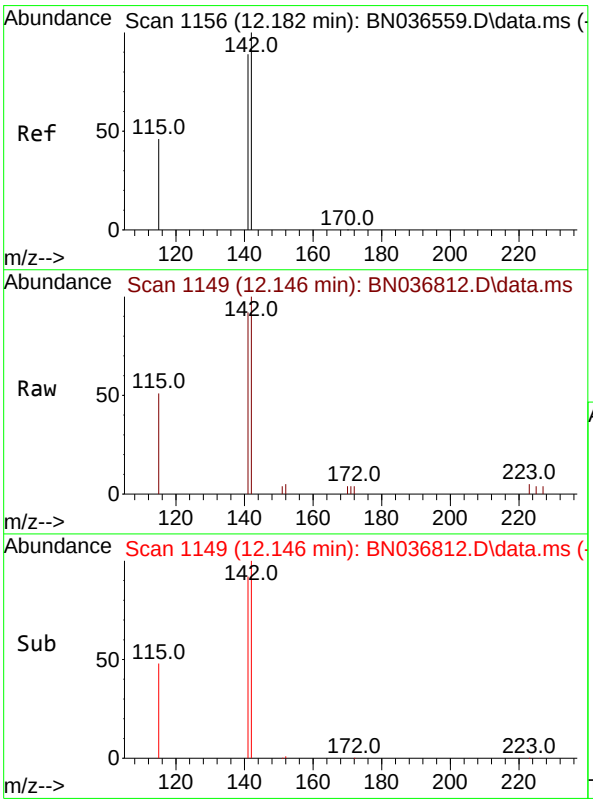

#11
2-Methylnaphthalene-d10
Concen: 0.384 ng
RT: 12.075 min Scan# 11
Delta R.T. -0.035 min
Lab File: BN036812.D
Acq: 31 Mar 2025 13:04

**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01S-20250320MS

Tgt Ion:152 Resp: 1972

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 16.7 | 17.0 | 25.6# |

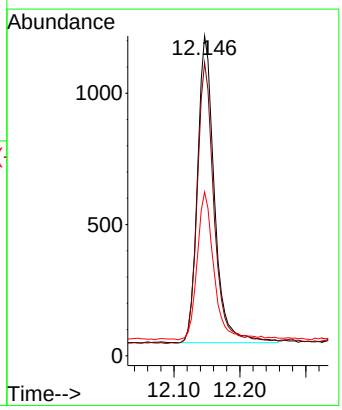


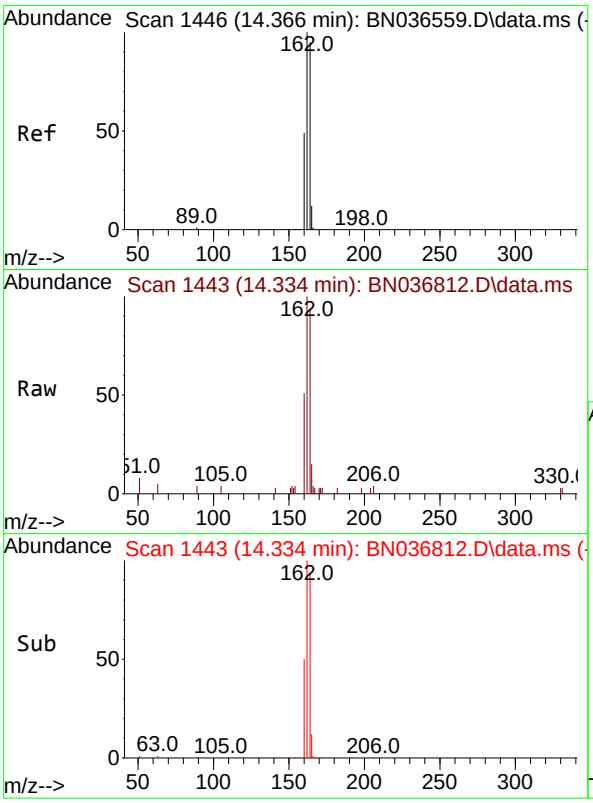




#12
2-Methylnaphthalene
Concen: 0.323 ng
RT: 12.146 min Scan# 1149
Delta R.T. -0.035 min
Lab File: BN036812.D
Acq: 31 Mar 2025 13:04

Tgt Ion:142 Resp: 2086

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 91.7 | 71.7 | 107.5 |
| 115 | 51.2 | 38.3 | 57.5 |



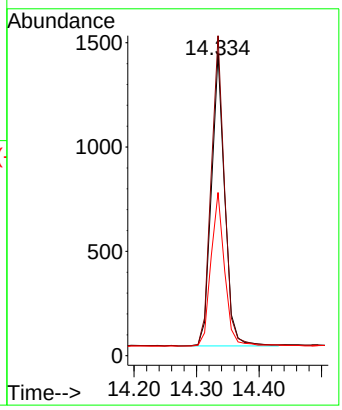


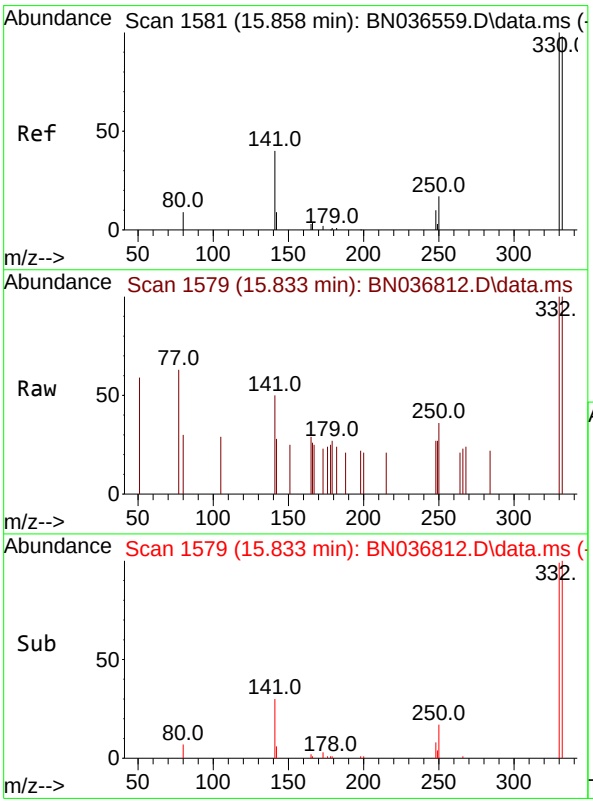

#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.334 min Scan# 14
Delta R.T. -0.032 min
Lab File: BN036812.D
Acq: 31 Mar 2025 13:04

**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01S-20250320MS

Tgt Ion:164 Resp: 2071

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 106.2 | 84.2 | 126.2 |
| 160 | 54.1 | 42.2 | 63.2 |

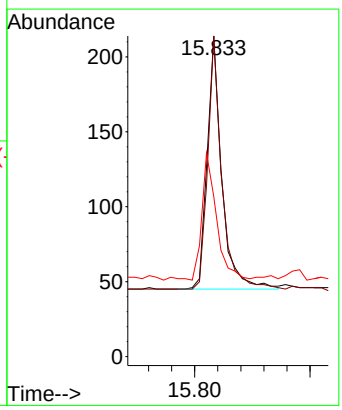


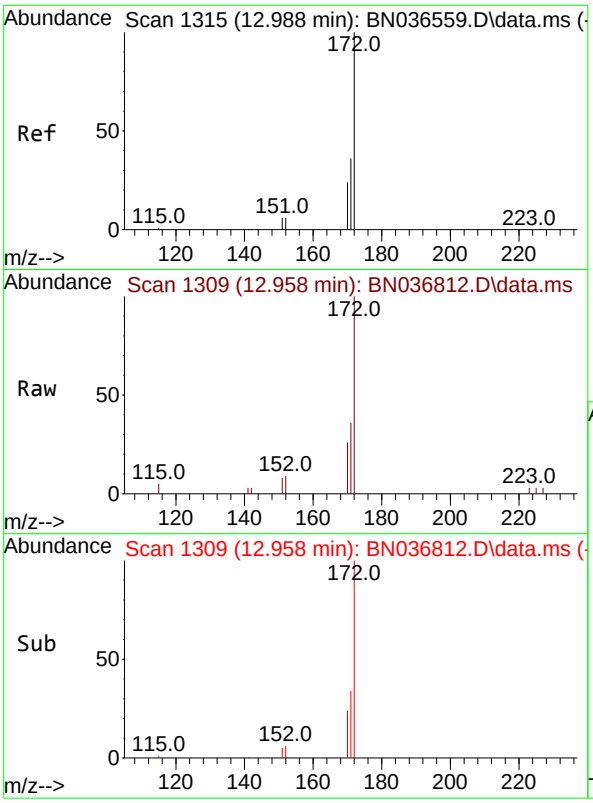




#14
2,4,6-Tribromophenol
Concen: 0.317 ng
RT: 15.833 min Scan# 1579
Delta R.T. -0.025 min
Lab File: BN036812.D
Acq: 31 Mar 2025 13:04

Tgt Ion:330 Resp: 298

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 95.3 | 75.2 | 112.8 |
| 141 | 48.0 | 43.4 | 65.2 |



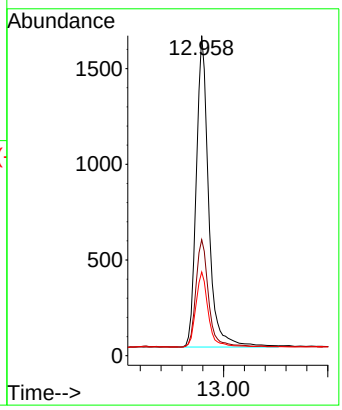


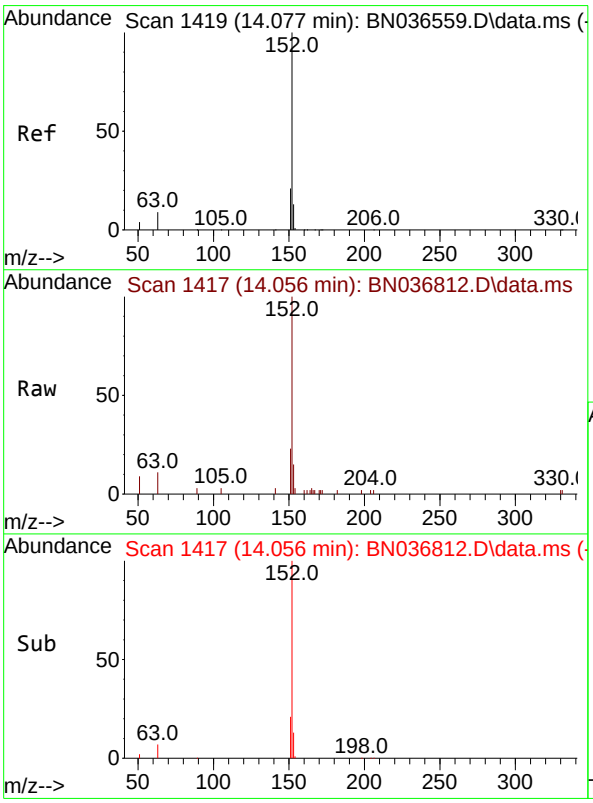

#15
2-Fluorobiphenyl
Concen: 0.298 ng
RT: 12.958 min Scan# 1
Delta R.T. -0.030 min
Lab File: BN036812.D
Acq: 31 Mar 2025 13:04

**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01S-20250320MS

Tgt Ion:172 Resp: 3585

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 36.2 | 29.5 | 44.3 |
| 170 | 26.1 | 20.2 | 30.4 |

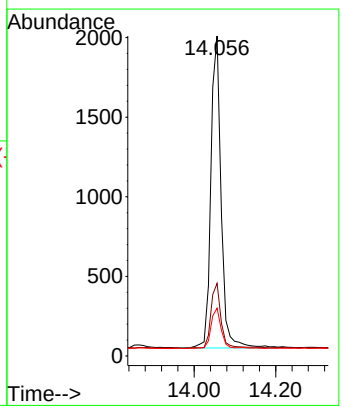


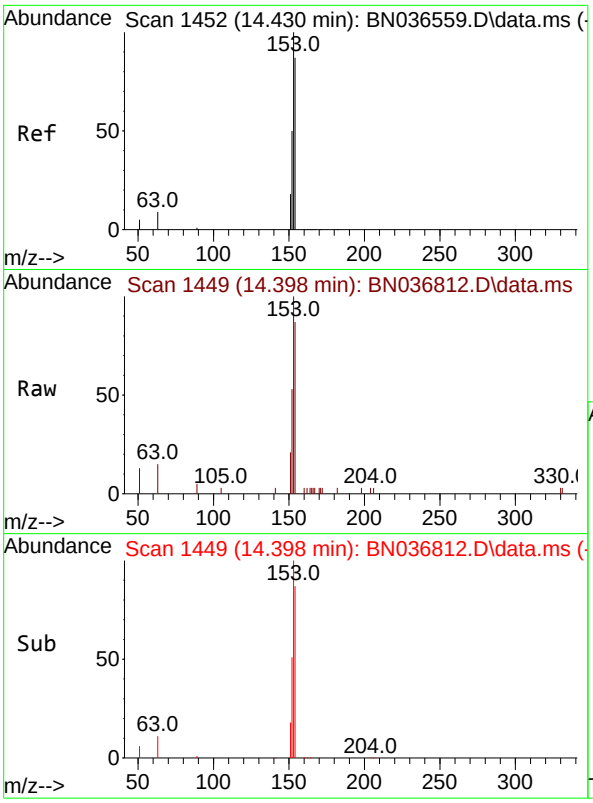




#16
Acenaphthylene
Concen: 0.349 ng
RT: 14.056 min Scan# 1417
Delta R.T. -0.021 min
Lab File: BN036812.D
Acq: 31 Mar 2025 13:04

Tgt Ion:152 Resp: 3407

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.9 | 16.2 | 24.4 |
| 153 | 12.9 | 10.6 | 15.8 |



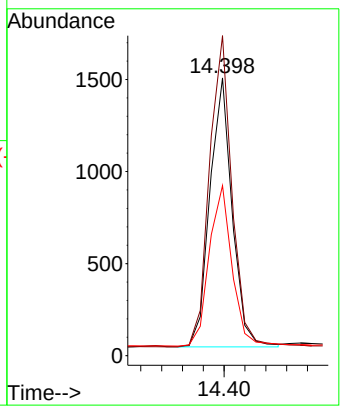


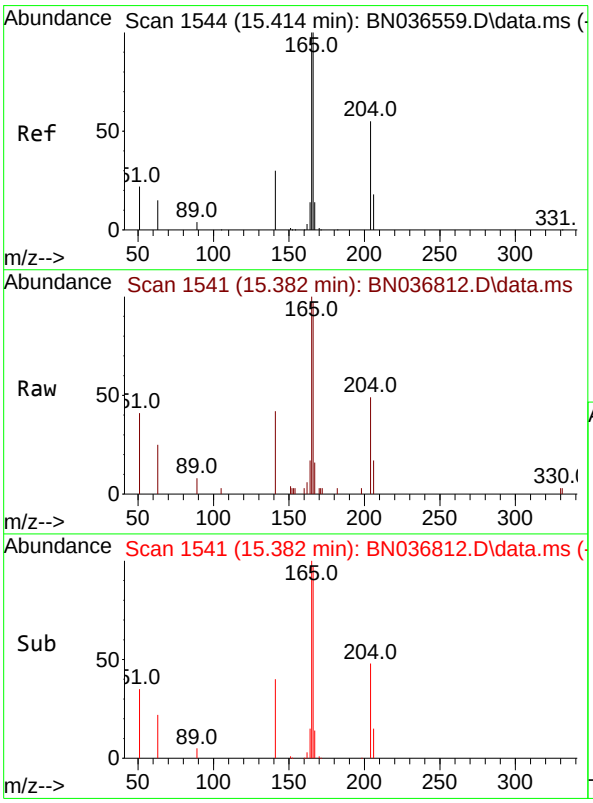

#17
Acenaphthene
Concen: 0.340 ng
RT: 14.398 min Scan# 14
Delta R.T. -0.032 min
Lab File: BN036812.D
Acq: 31 Mar 2025 13:04

**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01S-20250320MS

Tgt Ion:154 Resp: 2173

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 117.7 | 94.1 | 141.1 |
| 152 | 61.9 | 49.8 | 74.6 |

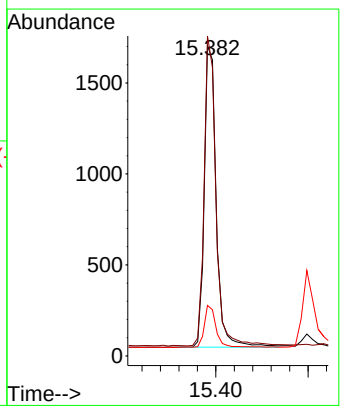


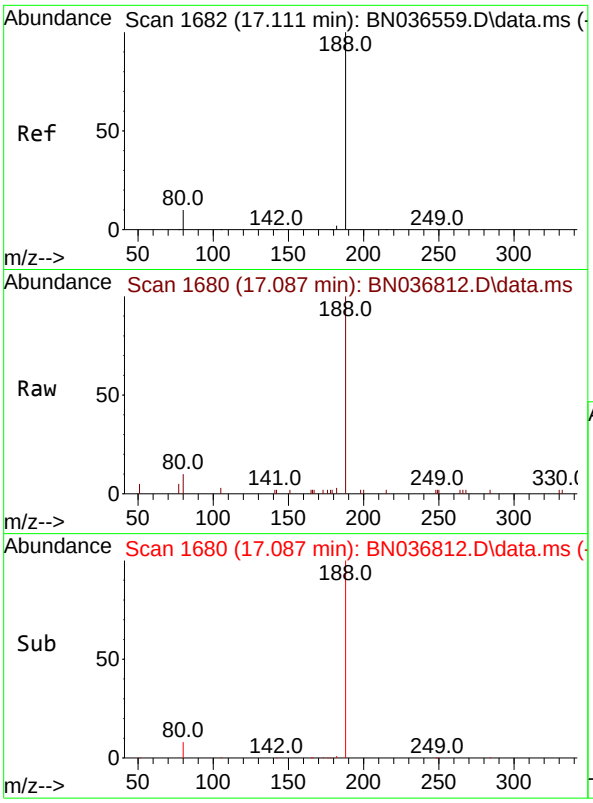




#18
Fluorene
Concen: 0.348 ng
RT: 15.382 min Scan# 1541
Delta R.T. -0.032 min
Lab File: BN036812.D
Acq: 31 Mar 2025 13:04

Tgt Ion:166 Resp: 3010

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 100.1 | 79.8 | 119.8 |
| 167 | 13.9 | 10.6 | 15.8 |



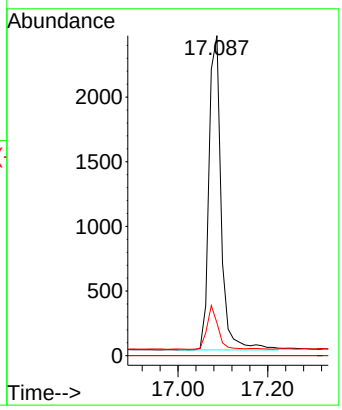


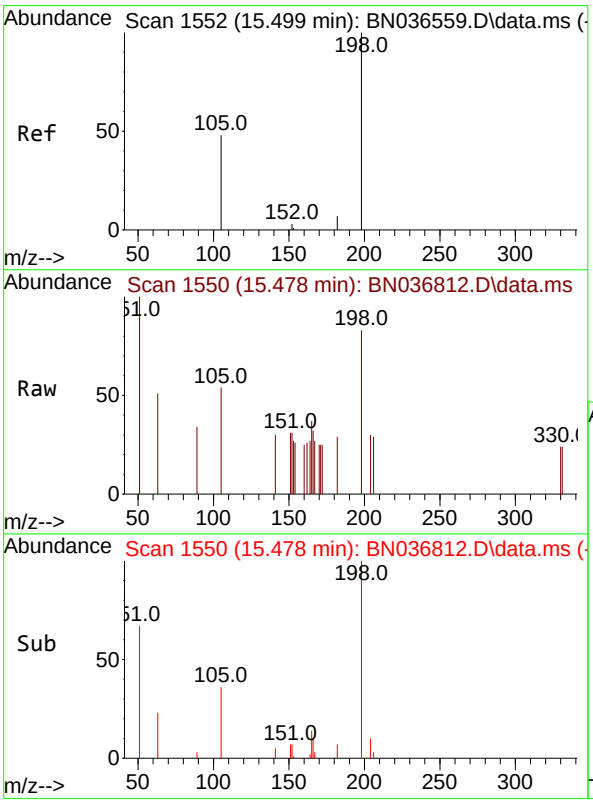

#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.087 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036812.D
Acq: 31 Mar 2025 13:04

**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01S-20250320MS

Tgt Ion:188 Resp: 4565

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 10.3 | 8.8 | 13.2 |

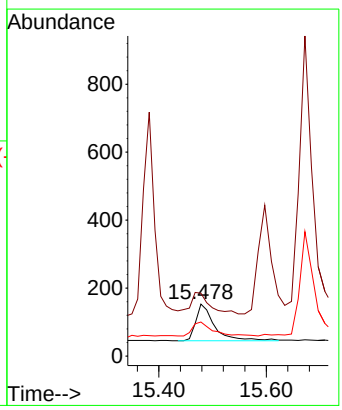


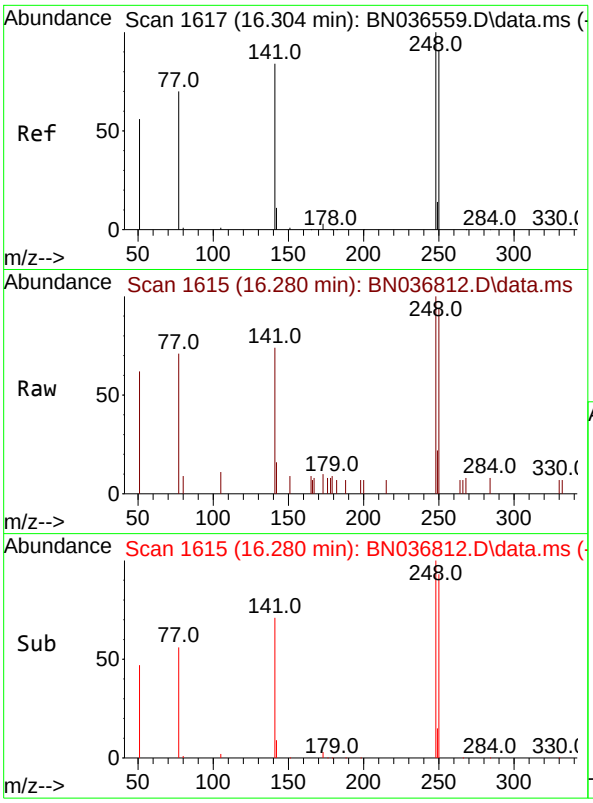




#20
4,6-Dinitro-2-methylphenol
Concen: 0.383 ng
RT: 15.478 min Scan# 1550
Delta R.T. -0.021 min
Lab File: BN036812.D
Acq: 31 Mar 2025 13:04

Tgt Ion:198 Resp: 276

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 198 | 100 | | |
| 51 | 120.9 | 107.9 | 161.9 |
| 105 | 65.4 | 56.2 | 84.2 |



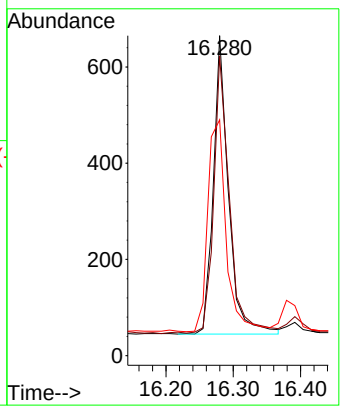


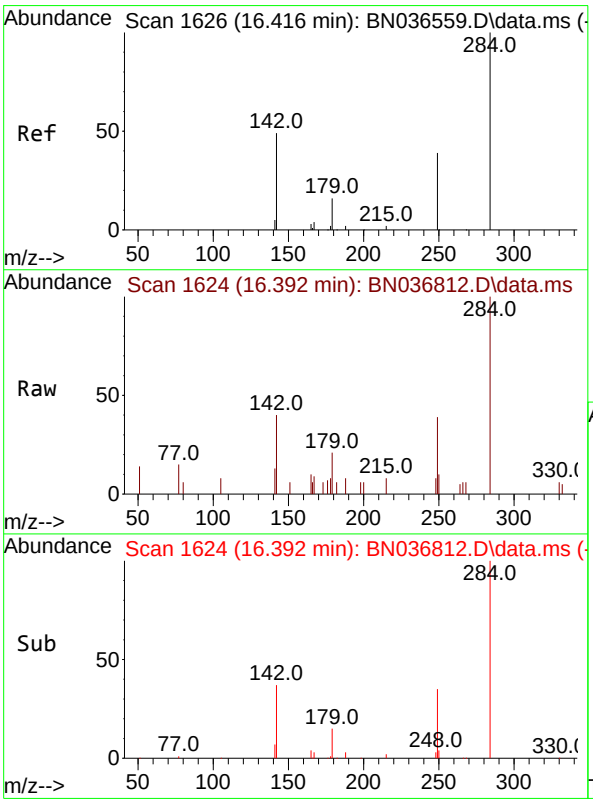

#21
4-Bromophenyl-phenylether
Concen: 0.340 ng
RT: 16.280 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036812.D
Acq: 31 Mar 2025 13:04

**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01S-20250320MS

Tgt Ion:248 Resp: 972

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 93.7 | 73.0 | 109.6 |
| 141 | 73.7 | 68.6 | 103.0 |

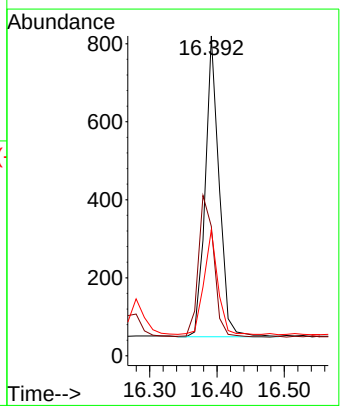


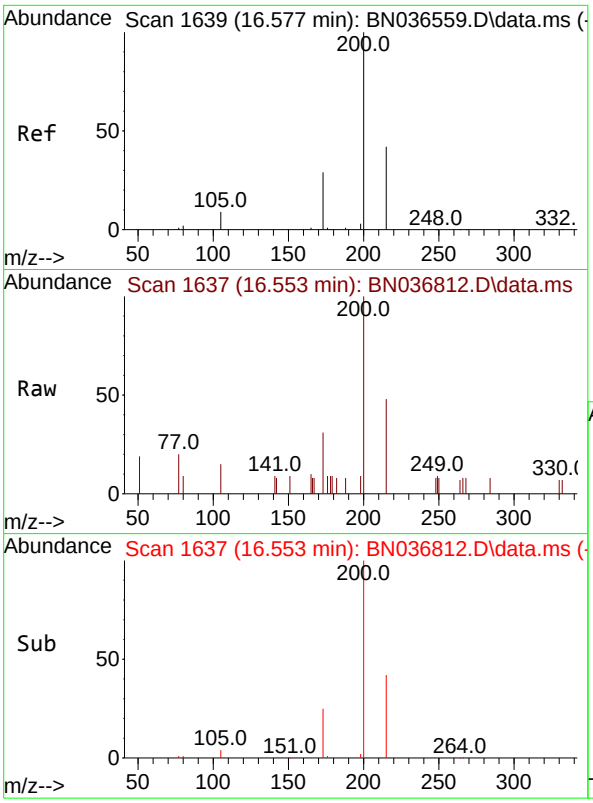




#22
Hexachlorobenzene
Concen: 0.320 ng
RT: 16.392 min Scan# 1624
Delta R.T. -0.025 min
Lab File: BN036812.D
Acq: 31 Mar 2025 13:04

Tgt Ion:284 Resp: 1104

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 52.6 | 37.0 | 55.4 |
| 249 | 34.8 | 28.1 | 42.1 |



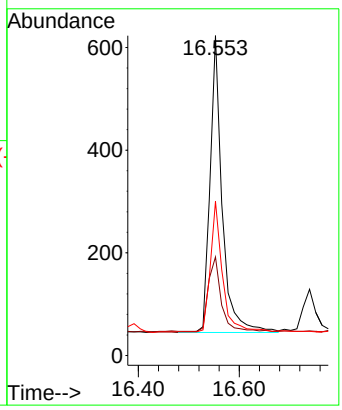


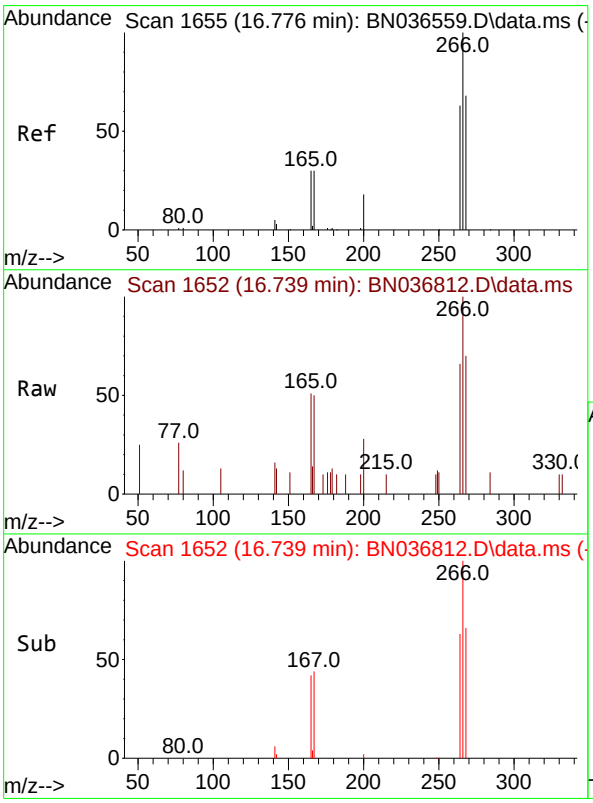

#23
Atrazine
Concen: 0.419 ng
RT: 16.553 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036812.D
Acq: 31 Mar 2025 13:04

**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01S-20250320MS

Tgt Ion:200 Resp: 961

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 173 | 30.8 | 27.3 | 40.9 |
| 215 | 48.2 | 36.8 | 55.2 |

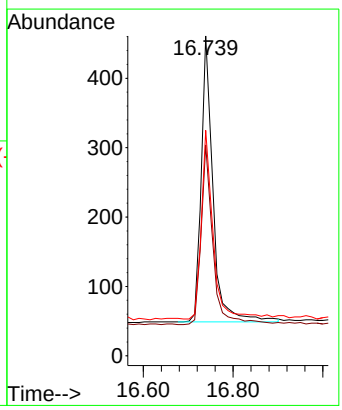


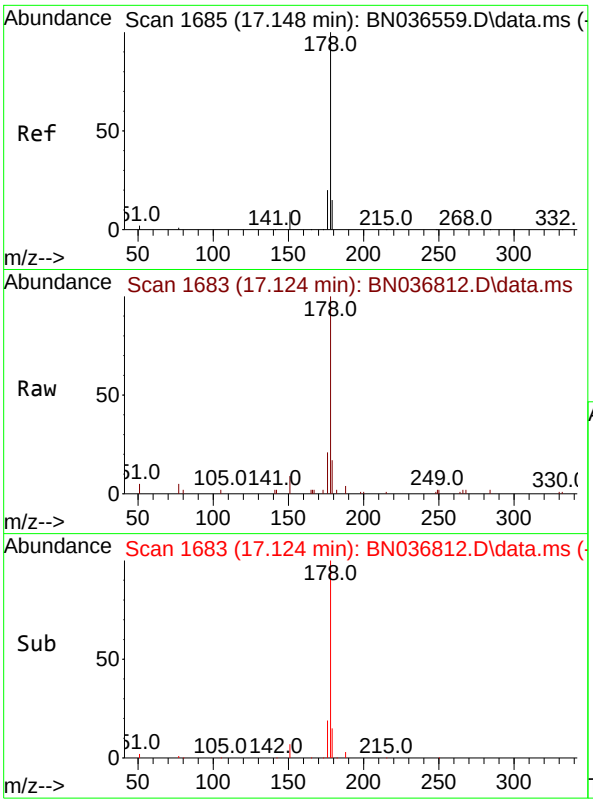




#24
Pentachlorophenol
Concen: 0.476 ng
RT: 16.739 min Scan# 1652
Delta R.T. -0.037 min
Lab File: BN036812.D
Acq: 31 Mar 2025 13:04

Tgt Ion:266 Resp: 749

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 264 | 62.9 | 49.6 | 74.4 |
| 268 | 66.6 | 50.9 | 76.3 |



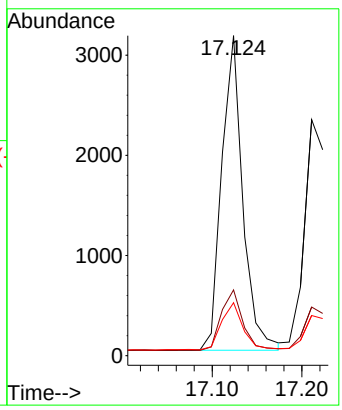


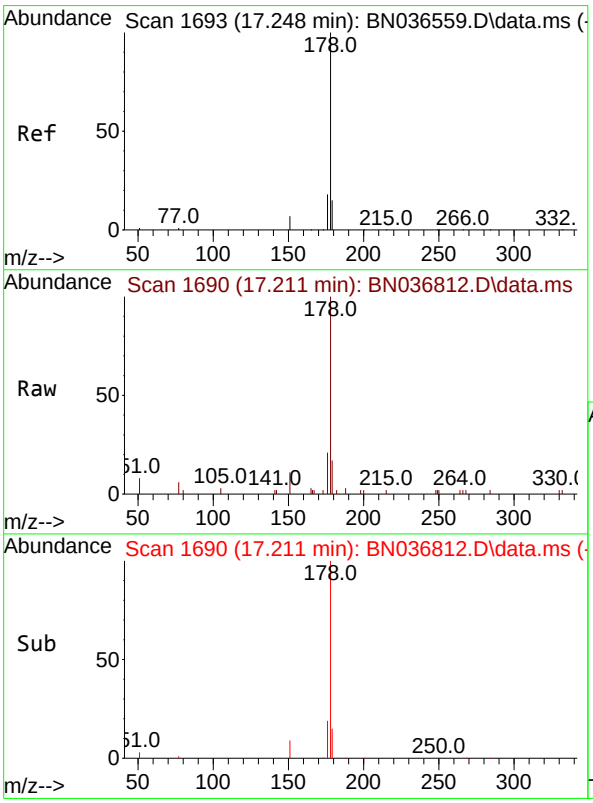

#25
Phenanthrene
Concen: 0.374 ng
RT: 17.124 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036812.D
Acq: 31 Mar 2025 13:04

**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01S-20250320MS

Tgt Ion:178 Resp: 5123

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.9 | 15.9 | 23.9 |
| 179 | 15.7 | 12.2 | 18.4 |

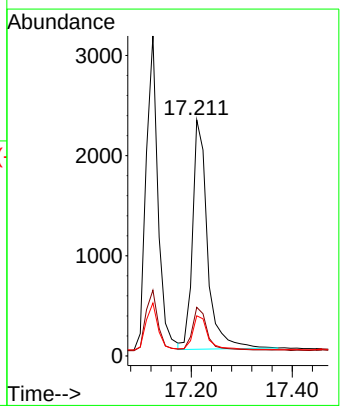


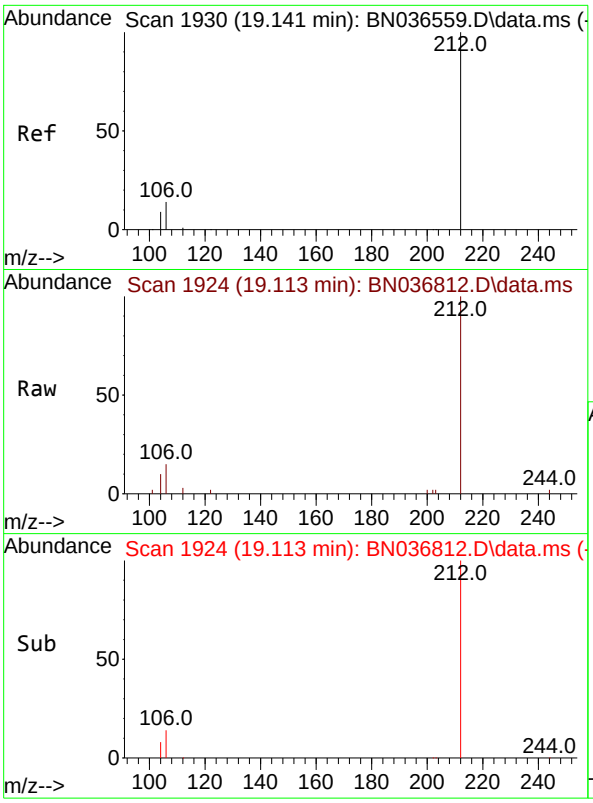




#26
Anthracene
Concen: 0.380 ng
RT: 17.211 min Scan# 1690
Delta R.T. -0.037 min
Lab File: BN036812.D
Acq: 31 Mar 2025 13:04

Tgt Ion:178 Resp: 4690

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.7 | 15.4 | 23.2 |
| 179 | 15.4 | 12.6 | 18.8 |



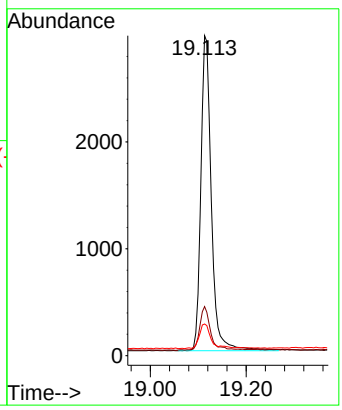


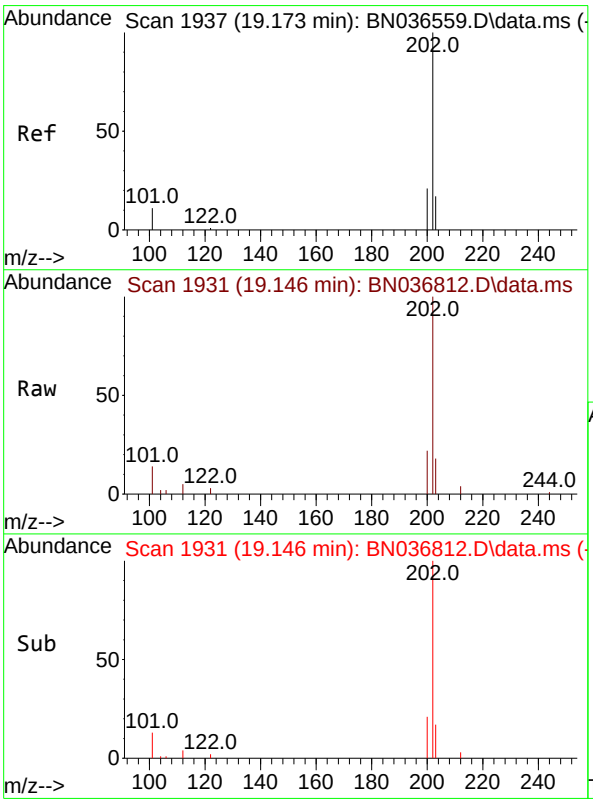

#27
Fluoranthene-d10
Concen: 0.382 ng
RT: 19.113 min Scan# 1
Delta R.T. -0.028 min
Lab File: BN036812.D
Acq: 31 Mar 2025 13:04

**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01S-20250320MS

Tgt Ion:212 Resp: 4467

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 14.0 | 11.8 | 17.6 |
| 104 | 8.5 | 7.3 | 10.9 |

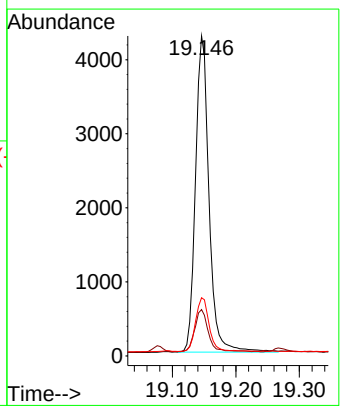


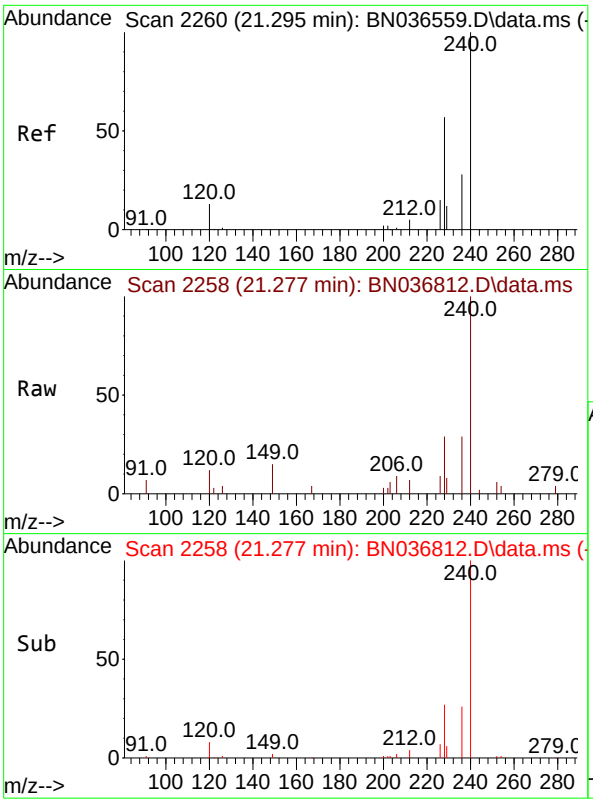




#28
Fluoranthene
Concen: 0.412 ng
RT: 19.146 min Scan# 1931
Delta R.T. -0.028 min
Lab File: BN036812.D
Acq: 31 Mar 2025 13:04

Tgt Ion:202 Resp: 6331

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 13.1 | 9.4 | 14.0 |
| 203 | 17.0 | 13.5 | 20.3 |



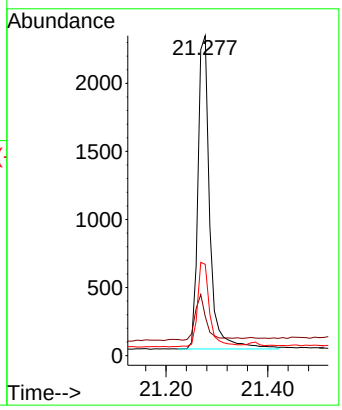


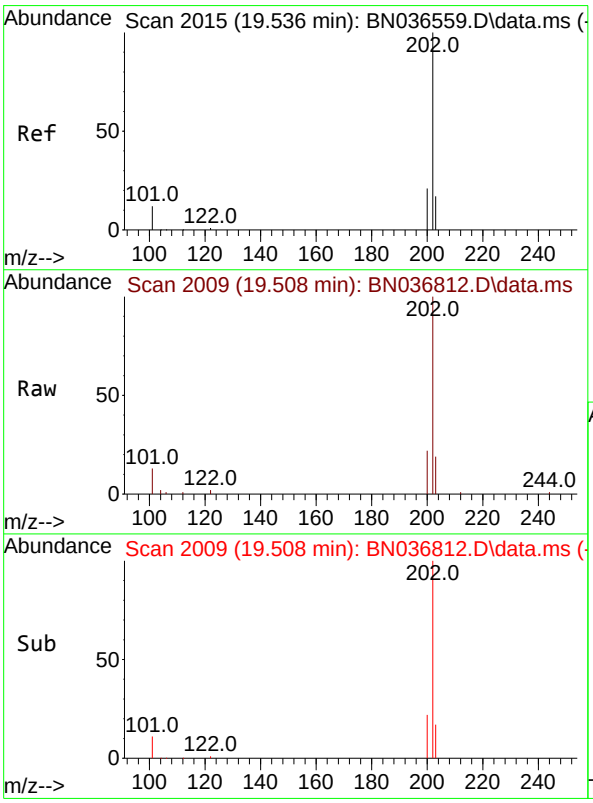

#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036812.D
Acq: 31 Mar 2025 13:04

**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01S-20250320MS

Tgt Ion:240 Resp: 3721

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 12.3 | 14.6 | 22.0# |
| 236 | 28.6 | 24.1 | 36.1 |

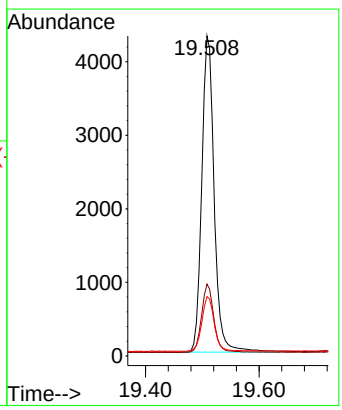


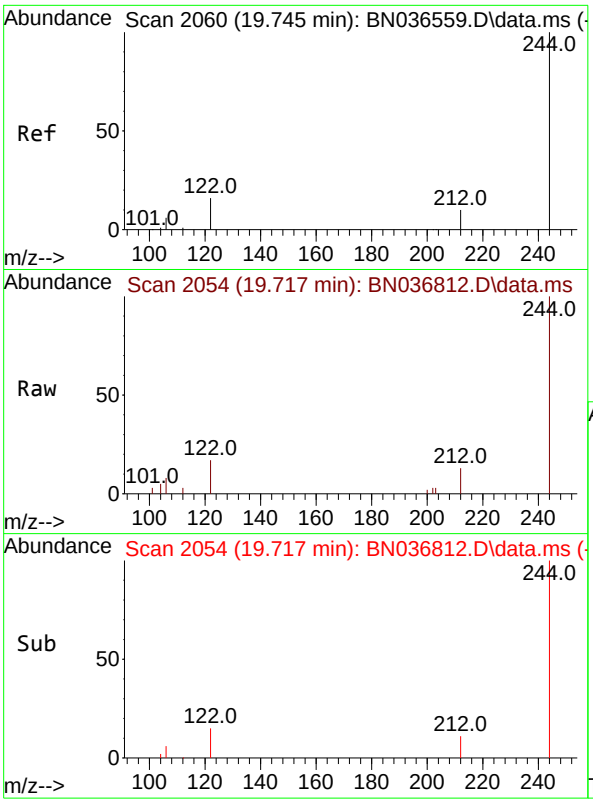




#30
Pyrene
Concen: 0.359 ng
RT: 19.508 min Scan# 2009
Delta R.T. -0.028 min
Lab File: BN036812.D
Acq: 31 Mar 2025 13:04

Tgt Ion:202 Resp: 6526

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.2 | 17.1 | 25.7 |
| 203 | 17.0 | 14.1 | 21.1 |



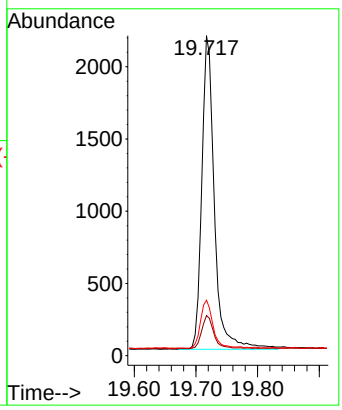


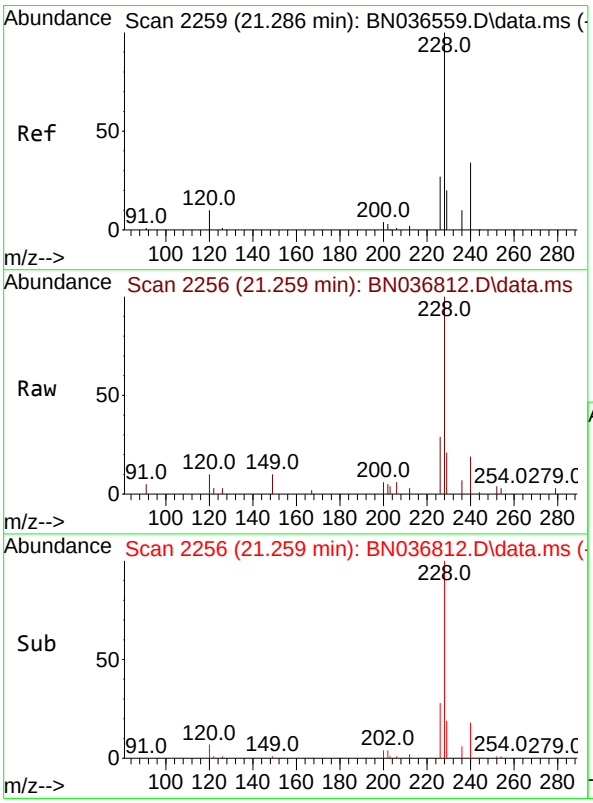

#31
Terphenyl-d14
Concen: 0.345 ng
RT: 19.717 min Scan# 2
Delta R.T. -0.028 min
Lab File: BN036812.D
Acq: 31 Mar 2025 13:04

**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01S-20250320MS

Tgt Ion:244 Resp: 3076

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 12.6 | 9.6 | 14.4 |
| 122 | 17.4 | 13.9 | 20.9 |

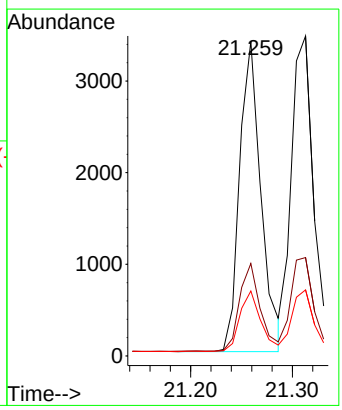


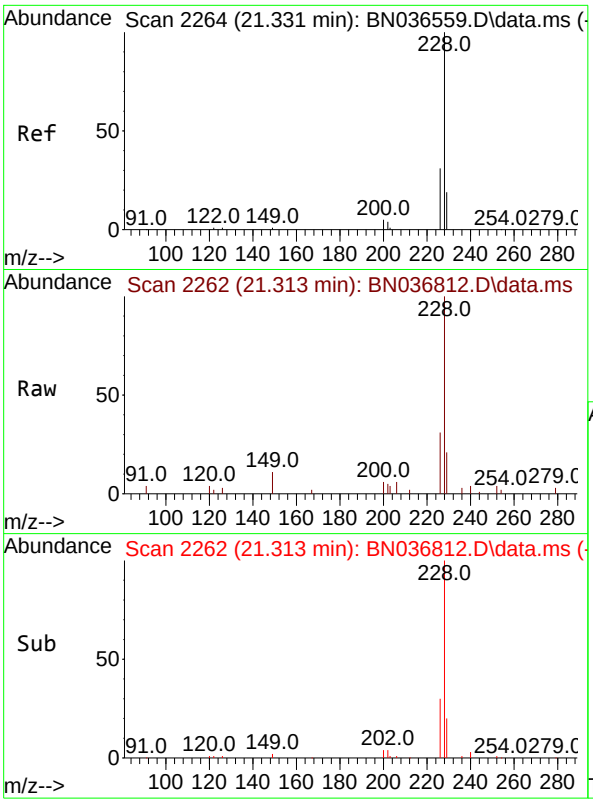




#32
Benzo(a)anthracene
Concen: 0.383 ng
RT: 21.259 min Scan# 2256
Delta R.T. -0.027 min
Lab File: BN036812.D
Acq: 31 Mar 2025 13:04

Tgt Ion:228 Resp: 4950

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 29.4 | 22.5 | 33.7 |
| 229 | 20.6 | 16.6 | 25.0 |



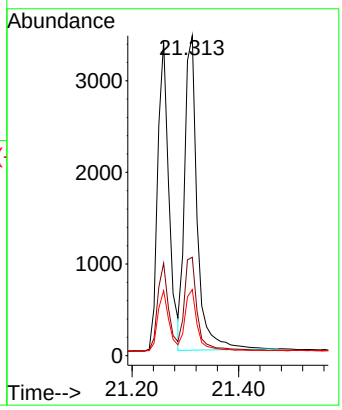


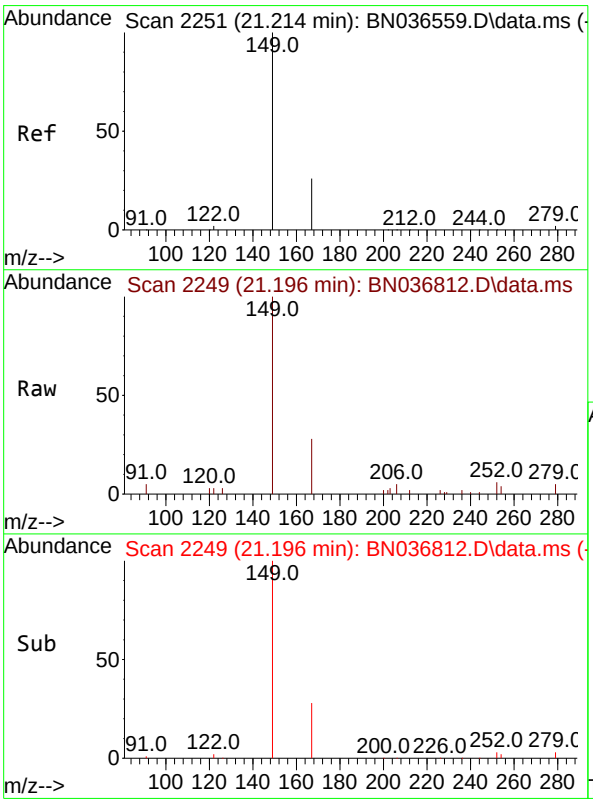

#33
Chrysene
Concen: 0.398 ng
RT: 21.313 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036812.D
Acq: 31 Mar 2025 13:04

**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01S-20250320MS

Tgt Ion:228 Resp: 5624

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 30.8 | 25.3 | 37.9 |
| 229 | 20.6 | 15.8 | 23.8 |

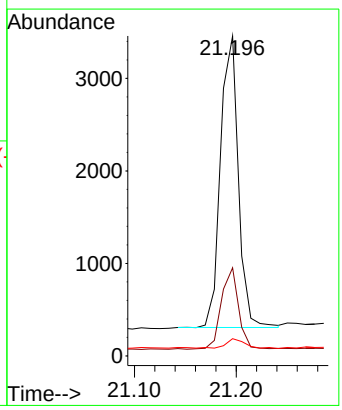


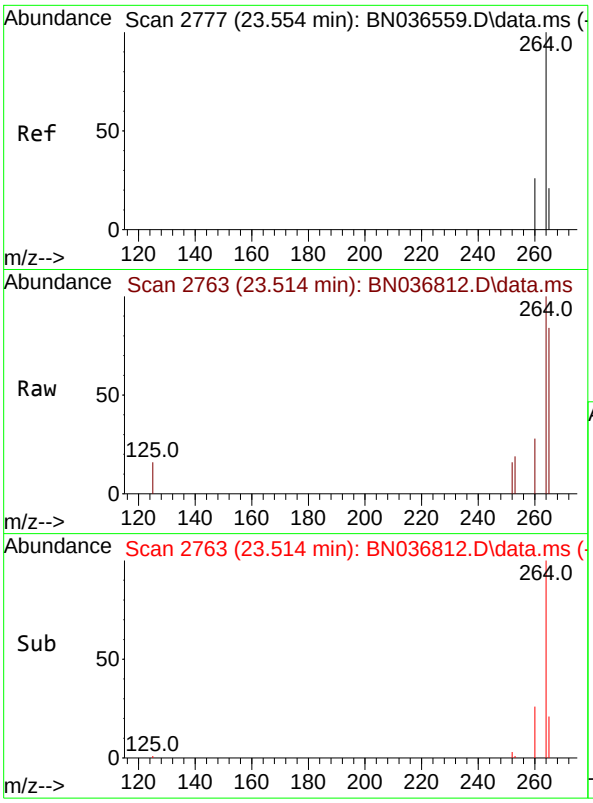




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.417 ng
RT: 21.196 min Scan# 2249
Delta R.T. -0.018 min
Lab File: BN036812.D
Acq: 31 Mar 2025 13:04

Tgt Ion:149 Resp: 3839

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 26.9 | 20.7 | 31.1 |
| 279 | 3.6 | 3.6 | 5.4 |



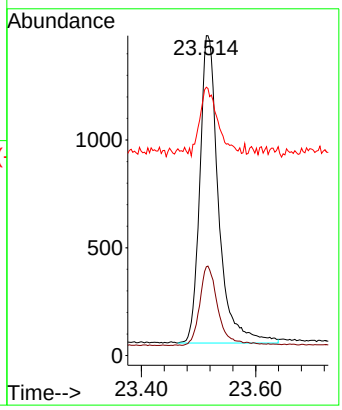


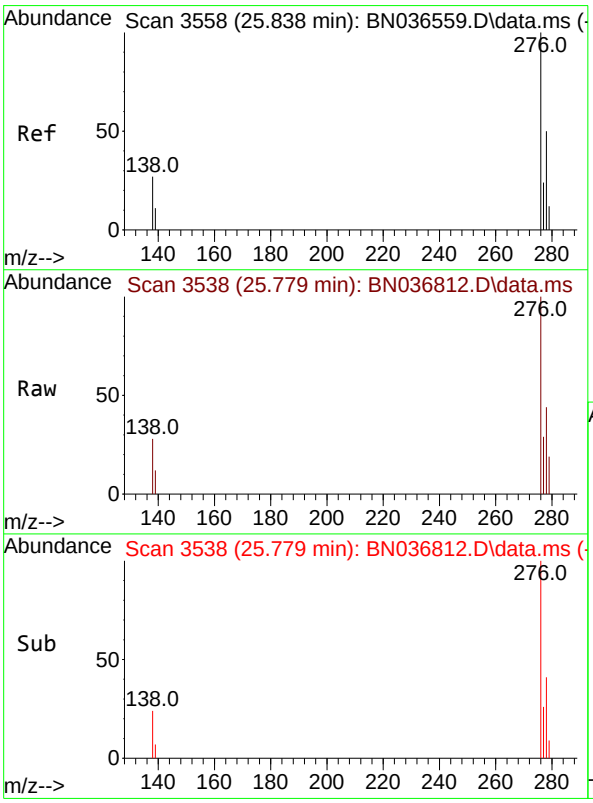

#35
Perylene-d12
Concen: 0.400 ng
RT: 23.514 min Scan# 2
Delta R.T. -0.041 min
Lab File: BN036812.D
Acq: 31 Mar 2025 13:04

**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01S-20250320MS

Tgt Ion:264 Resp: 3243

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 27.8 | 22.6 | 33.8 |
| 265 | 83.9 | 88.1 | 132.1# |

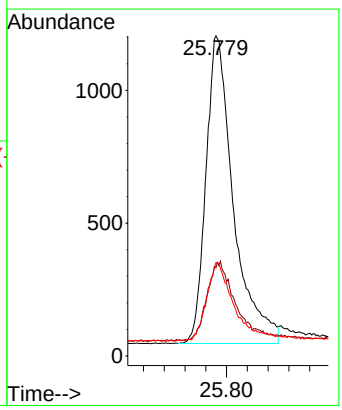


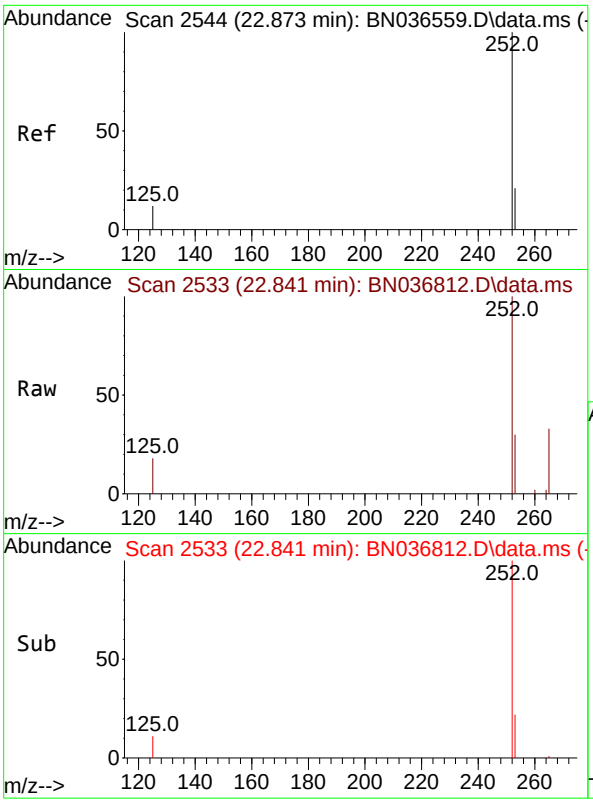




#36
Indeno(1,2,3-cd)pyrene
Concen: 0.364 ng
RT: 25.779 min Scan# 3538
Delta R.T. -0.058 min
Lab File: BN036812.D
Acq: 31 Mar 2025 13:04

Tgt Ion:276 Resp: 4261

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 24.6 | 23.4 | 35.2 |
| 277 | 25.0 | 20.0 | 30.0 |



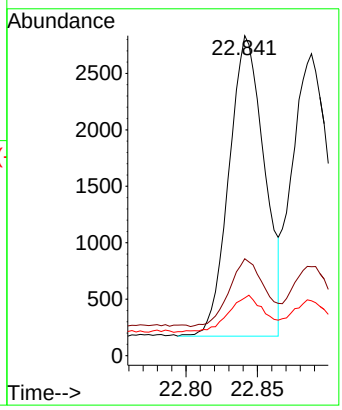


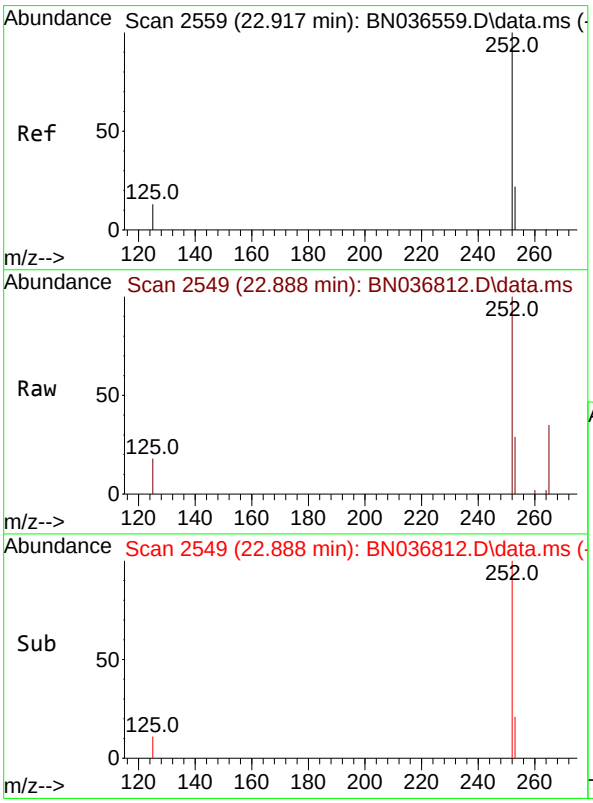

#37
Benzo(b)fluoranthene
Concen: 0.389 ng
RT: 22.841 min Scan# 2
Delta R.T. -0.032 min
Lab File: BN036812.D
Acq: 31 Mar 2025 13:04

**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01S-20250320MS

Tgt Ion:252 Resp: 4590

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 30.3 | 23.9 | 35.9 |
| 125 | 18.0 | 17.4 | 26.2 |

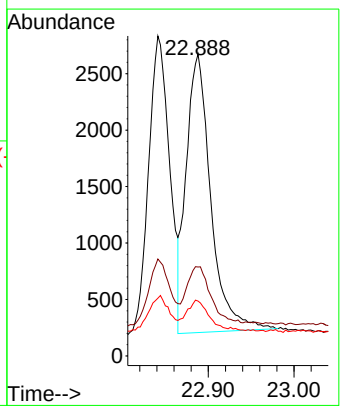


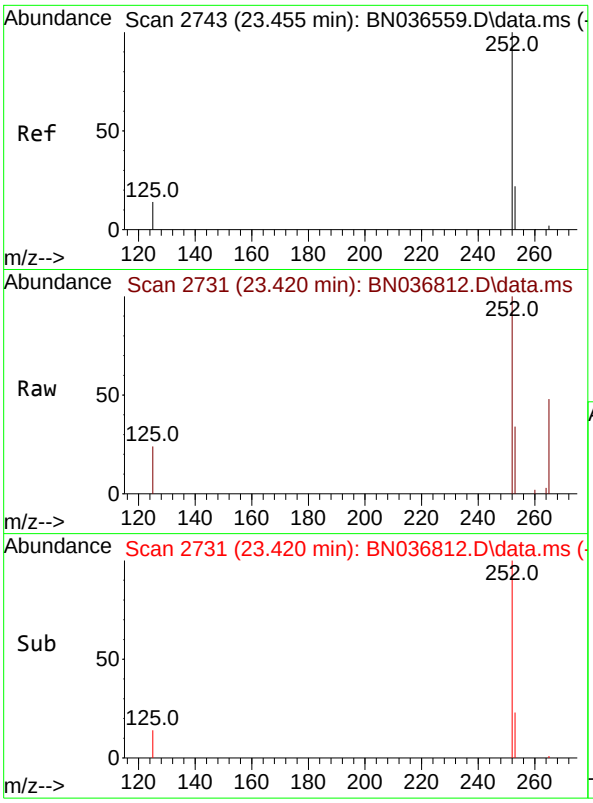




#38
Benzo(k)fluoranthene
Concen: 0.396 ng
RT: 22.888 min Scan# 2549
Delta R.T. -0.029 min
Lab File: BN036812.D
Acq: 31 Mar 2025 13:04

Tgt Ion:252 Resp: 4906

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 29.5 | 24.6 | 36.8 |
| 125 | 18.2 | 17.8 | 26.8 |



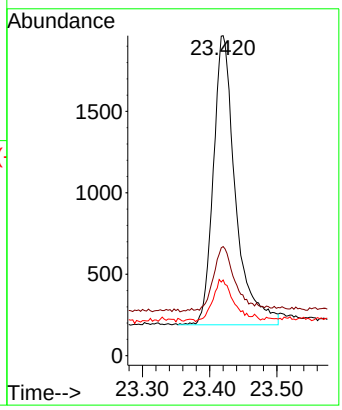


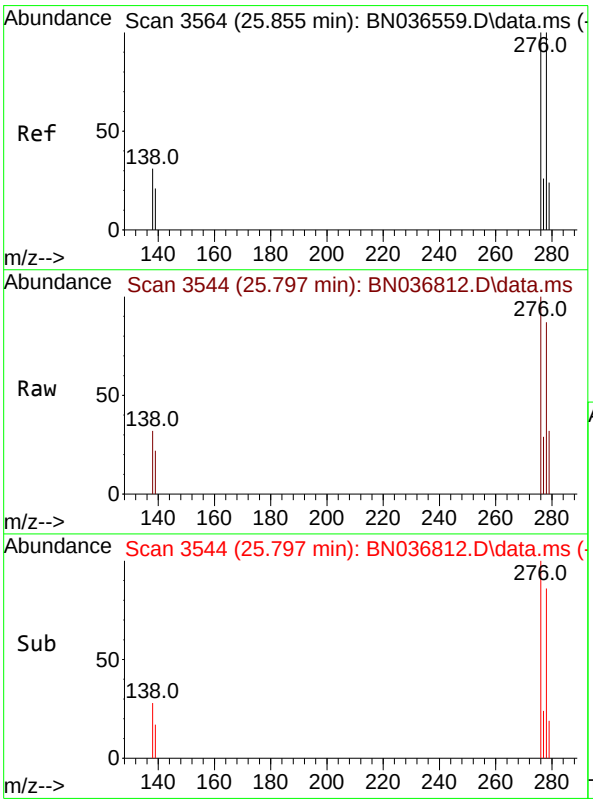

#39
Benzo(a)pyrene
Concen: 0.408 ng
RT: 23.420 min Scan# 2
Delta R.T. -0.035 min
Lab File: BN036812.D
Acq: 31 Mar 2025 13:04

**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01S-20250320MS

Tgt Ion:252 Resp: 4050

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 34.1 | 27.8 | 41.8 |
| 125 | 23.7 | 22.7 | 34.1 |

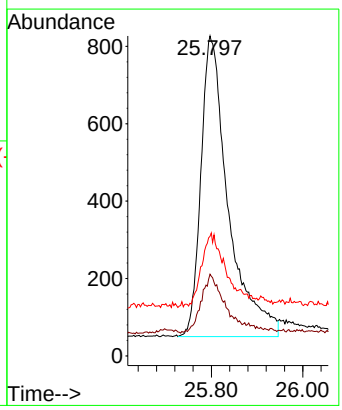


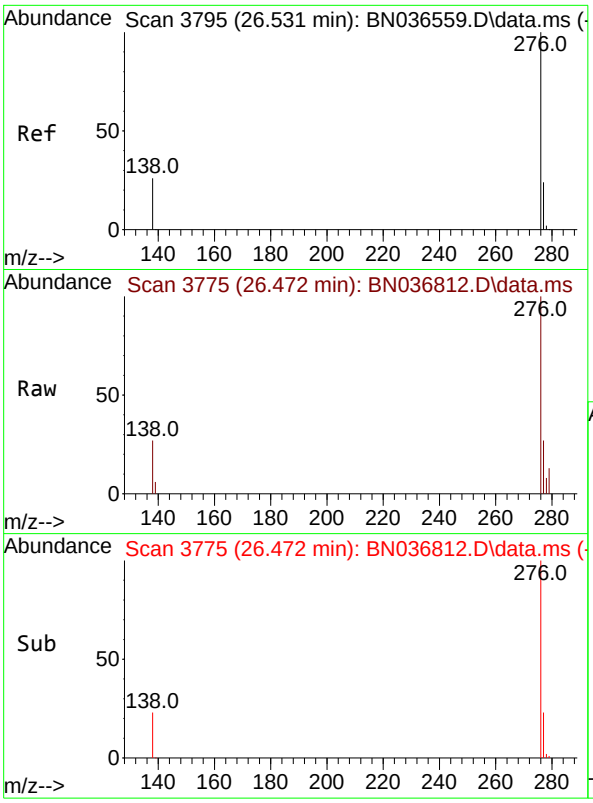




#40
Dibenzo(a,h)anthracene
Concen: 0.354 ng
RT: 25.797 min Scan# 3544
Delta R.T. -0.058 min
Lab File: BN036812.D
Acq: 31 Mar 2025 13:04

Tgt Ion:278 Resp: 3226

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 25.5 | 20.8 | 31.2 |
| 279 | 37.4 | 28.8 | 43.2 |



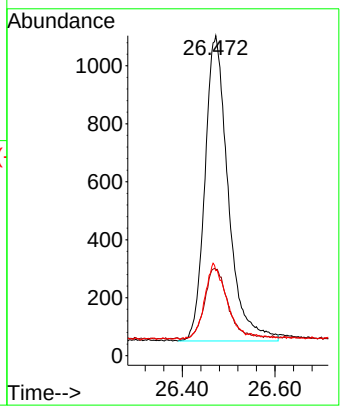



#41
Benzo(g,h,i)perylene
Concen: 0.352 ng
RT: 26.472 min Scan# 3
Delta R.T. -0.058 min
Lab File: BN036812.D
Acq: 31 Mar 2025 13:04

**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01S-20250320MS

Tgt Ion:276 Resp: 3674

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 26.9 | 22.2 | 33.4 |
| 138 | 26.5 | 24.1 | 36.1 |



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN033125\
Data File : BN036813.D
Acq On : 31 Mar 2025 13:40
Operator : RC/JU
Sample : Q1629-16MSD
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01S-20250320MSD

Quant Time: Mar 31 14:15:50 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.695 | 152 | 1372 | 0.400 | ng | -0.03 |
| 7) Naphthalene-d8 | 10.477 | 136 | 3583 | 0.400 | ng | -0.03 |
| 13) Acenaphthene-d10 | 14.334 | 164 | 2162 | 0.400 | ng | -0.03 |
| 19) Phenanthrene-d10 | 17.086 | 188 | 4671 | 0.400 | ng | -0.02 |
| 29) Chrysene-d12 | 21.277 | 240 | 3683 | 0.400 | ng | #-0.02 |
| 35) Perylene-d12 | 23.516 | 264 | 3184 | 0.400 | ng | #-0.04 |
| System Monitoring Compounds | | | | | | |
| 4) 2-Fluorophenol | 5.290 | 112 | 364 | 0.114 | ng | -0.02 |
| 5) Phenol-d6 | 6.872 | 99 | 261 | 0.066 | ng | -0.03 |
| 8) Nitrobenzene-d5 | 8.843 | 82 | 1029 | 0.264 | ng | -0.03 |
| 11) 2-Methylnaphthalene-d10 | 12.075 | 152 | 2049 | 0.384 | ng | -0.04 |
| 14) 2,4,6-Tribromophenol | 15.833 | 330 | 313 | 0.319 | ng | -0.02 |
| 15) 2-Fluorobiphenyl | 12.958 | 172 | 3616 | 0.288 | ng | -0.03 |
| 27) Fluoranthene-d10 | 19.118 | 212 | 4544 | 0.380 | ng | -0.02 |
| 31) Terphenyl-d14 | 19.717 | 244 | 3134 | 0.355 | ng | -0.03 |
| Target Compounds | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.218 | 88 | 1280 | 0.841 | ng | # 83 |
| 3) n-Nitrosodimethylamine | 3.535 | 42 | 439 | 0.143 | ng | # 92 |
| 6) bis(2-Chloroethyl)ether | 7.125 | 93 | 1165 | 0.285 | ng | 94 |
| 9) Naphthalene | 10.530 | 128 | 3289 | 0.312 | ng | 98 |
| 10) Hexachlorobutadiene | 10.818 | 225 | 687 | 0.277 | ng | # 99 |
| 12) 2-Methylnaphthalene | 12.146 | 142 | 2187 | 0.326 | ng | 97 |
| 16) Acenaphthylene | 14.056 | 152 | 3518 | 0.345 | ng | 100 |
| 17) Acenaphthene | 14.398 | 154 | 2211 | 0.331 | ng | 98 |
| 18) Fluorene | 15.382 | 166 | 3103 | 0.343 | ng | 98 |
| 20) 4,6-Dinitro-2-methylph... | 15.478 | 198 | 273 | 0.375 | ng | 94 |
| 21) 4-Bromophenyl-phenylether | 16.280 | 248 | 1009 | 0.345 | ng | 92 |
| 22) Hexachlorobenzene | 16.391 | 284 | 1122 | 0.318 | ng | 94 |
| 23) Atrazine | 16.553 | 200 | 992 | 0.423 | ng | 96 |
| 24) Pentachlorophenol | 16.739 | 266 | 763 | 0.474 | ng | 99 |
| 25) Phenanthrene | 17.124 | 178 | 5288 | 0.377 | ng | 99 |
| 26) Anthracene | 17.210 | 178 | 4871 | 0.385 | ng | 98 |
| 28) Fluoranthene | 19.146 | 202 | 6484 | 0.412 | ng | 98 |
| 30) Pyrene | 19.508 | 202 | 6632 | 0.368 | ng | 100 |
| 32) Benzo(a)anthracene | 21.259 | 228 | 4899 | 0.383 | ng | 99 |
| 33) Chrysene | 21.313 | 228 | 5677 | 0.406 | ng | 99 |
| 34) Bis(2-ethylhexyl)phtha... | 21.196 | 149 | 4003 | 0.439 | ng | # 98 |
| 36) Indeno(1,2,3-cd)pyrene | 25.788 | 276 | 4286 | 0.373 | ng | 96 |
| 37) Benzo(b)fluoranthene | 22.844 | 252 | 4479 | 0.387 | ng | 97 |
| 38) Benzo(k)fluoranthene | 22.888 | 252 | 4899 | 0.403 | ng | 96 |
| 39) Benzo(a)pyrene | 23.423 | 252 | 4067 | 0.417 | ng | 96 |
| 40) Dibenzo(a,h)anthracene | 25.803 | 278 | 3174 | 0.355 | ng | 99 |
| 41) Benzo(g,h,i)perylene | 26.475 | 276 | 3612 | 0.353 | ng | 98 |

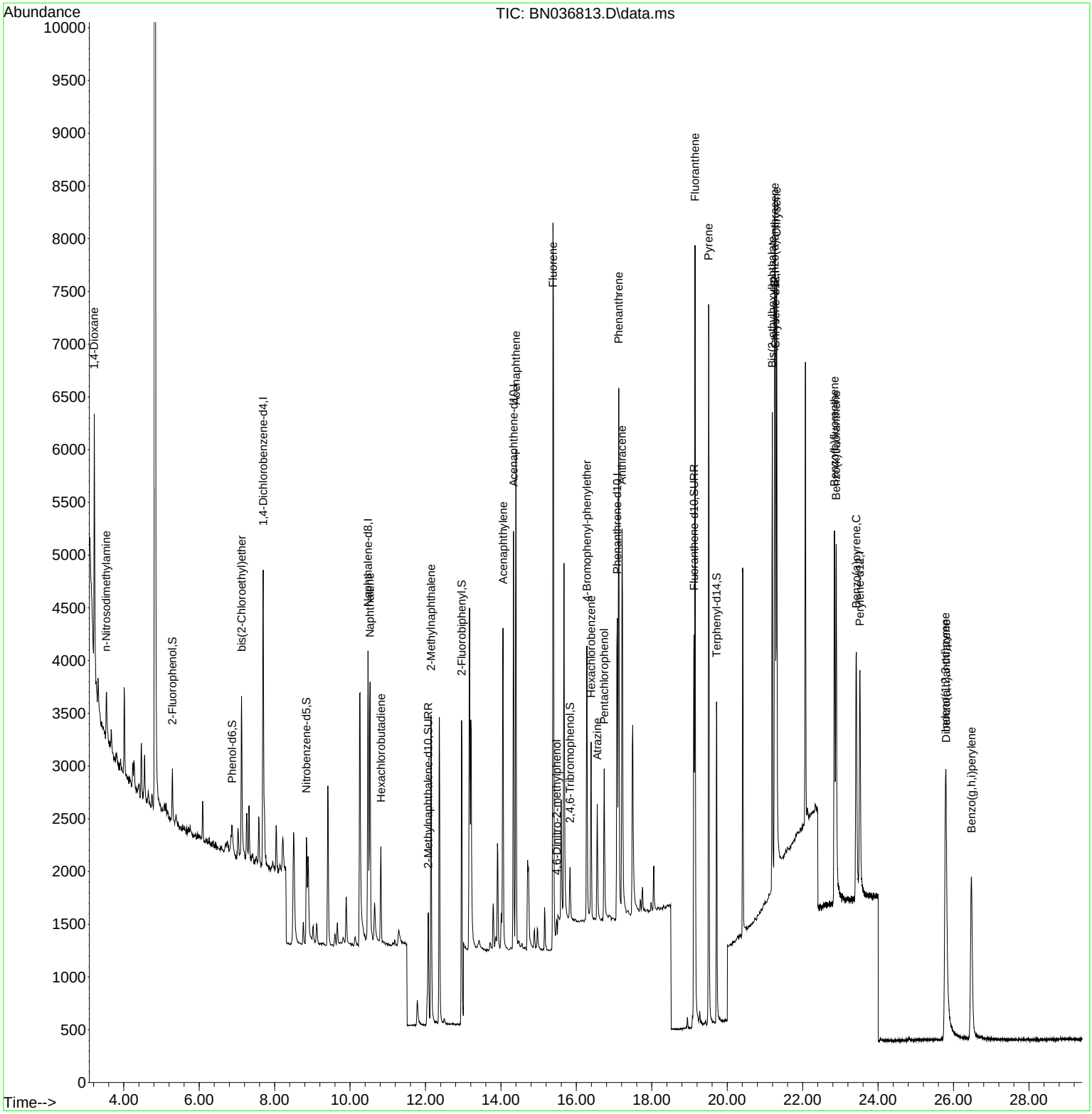
(#) = qualifier out of range (m) = manual integration (+) = signals summed

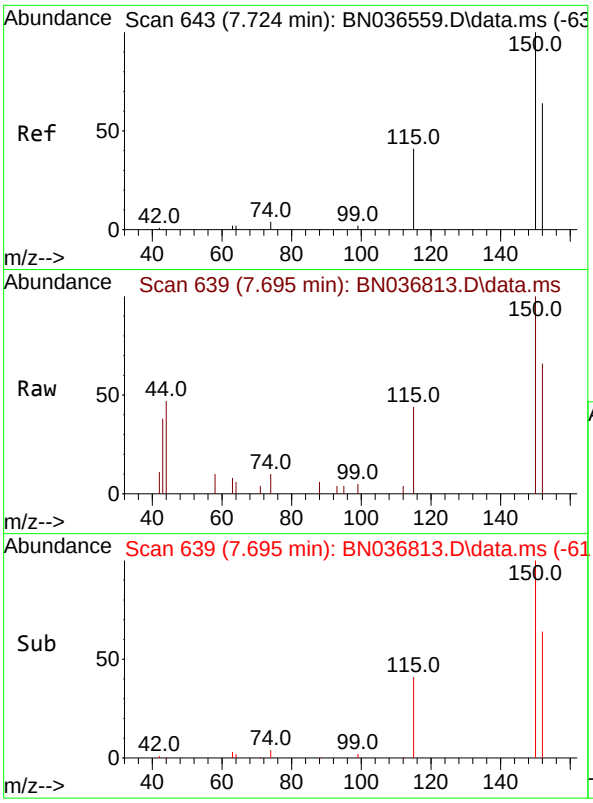
Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN033125\
Data File : BN036813.D
Acq On : 31 Mar 2025 13:40
Operator : RC/JU
Sample : Q1629-16MSD
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01S-20250320MSD

Quant Time: Mar 31 14:15:50 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration



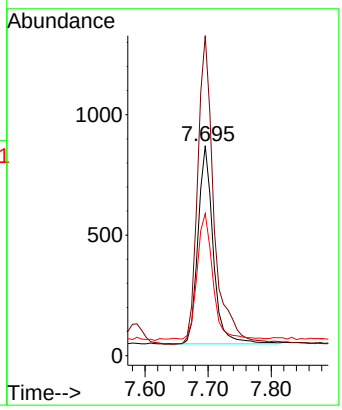


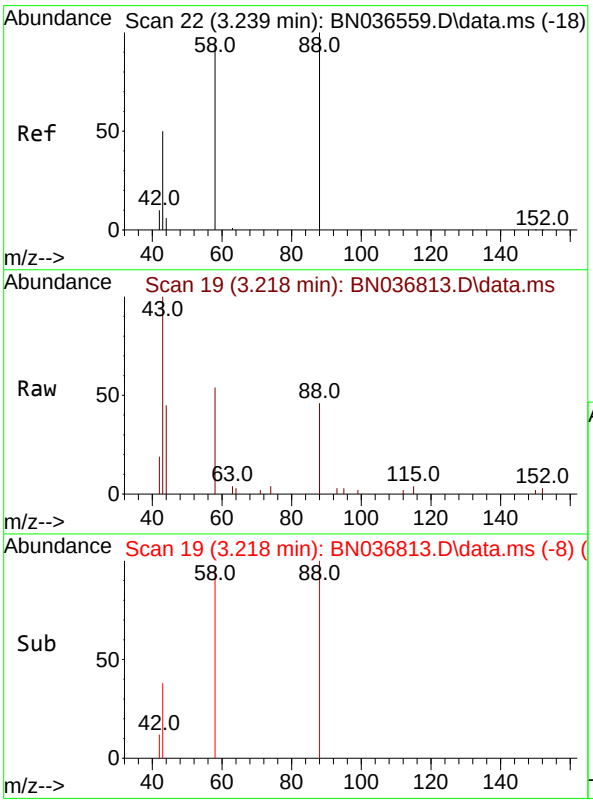

#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.695 min Scan# 6
Delta R.T. -0.029 min
Lab File: BN036813.D
Acq: 31 Mar 2025 13:40

**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01S-20250320MSD

Tgt Ion:152 Resp: 1372

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 152.5 | 123.7 | 185.5 |
| 115 | 67.7 | 54.3 | 81.5 |

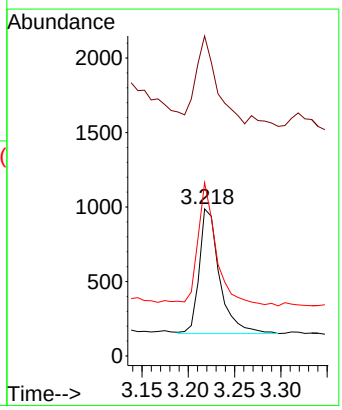


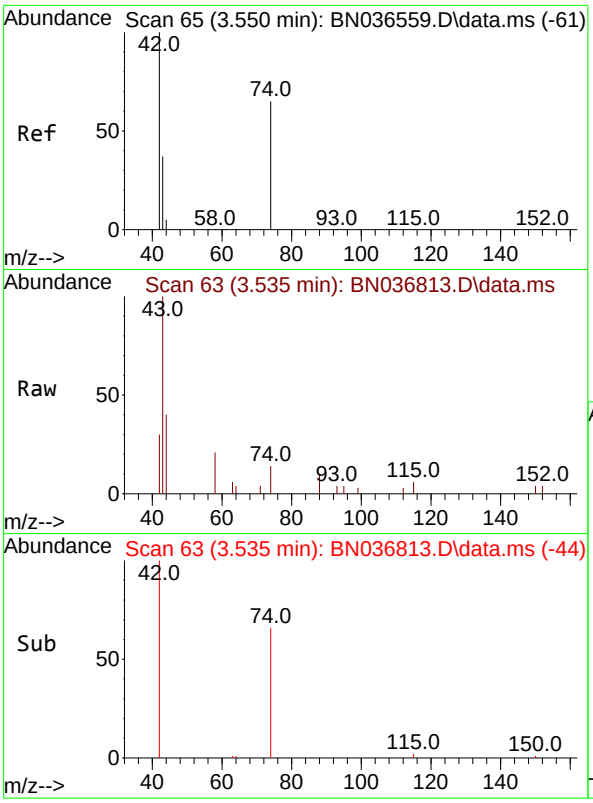




#2
1,4-Dioxane
Concen: 0.841 ng
RT: 3.218 min Scan# 19
Delta R.T. -0.021 min
Lab File: BN036813.D
Acq: 31 Mar 2025 13:40

Tgt Ion: 88 Resp: 1280

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 69.8 | 37.8 | 56.8# |
| 58 | 91.5 | 67.4 | 101.2 |



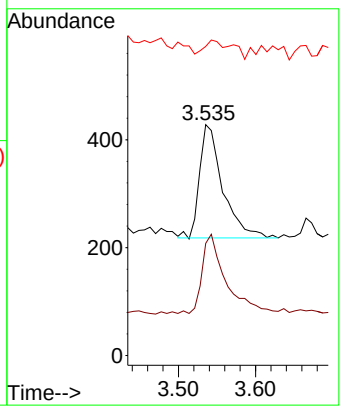


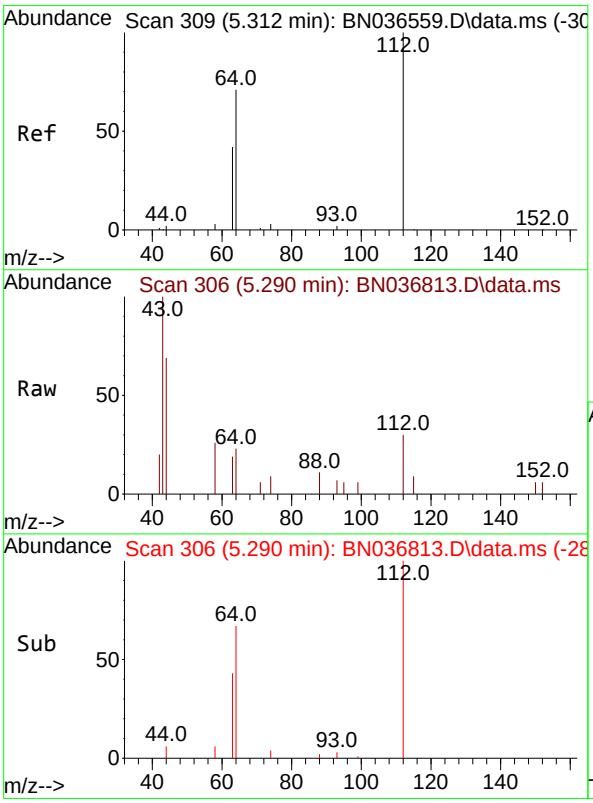

#3
n-Nitrosodimethylamine
Concen: 0.143 ng
RT: 3.535 min Scan# 6
Delta R.T. -0.014 min
Lab File: BN036813.D
Acq: 31 Mar 2025 13:40

**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01S-20250320MSD

Tgt Ion: 42 Resp: 439

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 71.5 | 60.6 | 90.8 |
| 44 | 20.3 | 6.3 | 9.5# |

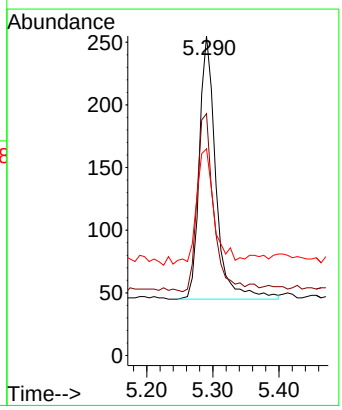


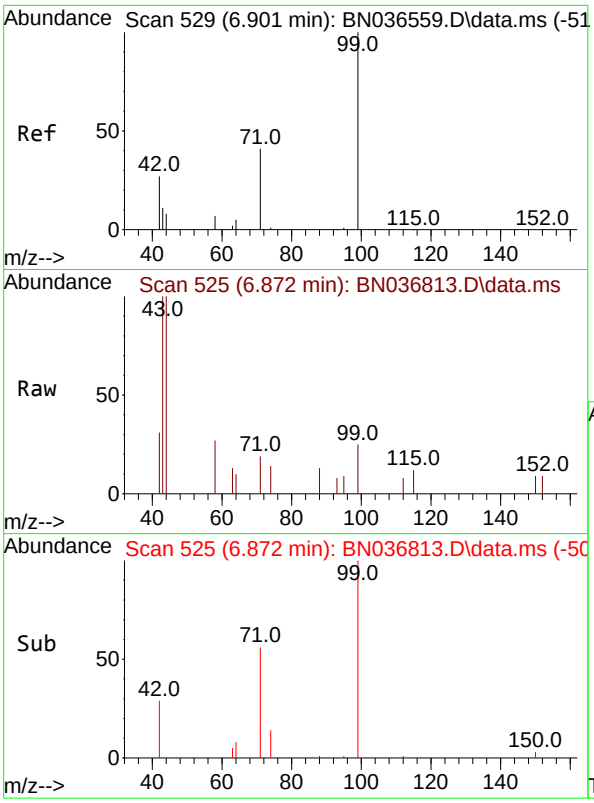




#4
2-Fluorophenol
Concen: 0.114 ng
RT: 5.290 min Scan# 306
Delta R.T. -0.022 min
Lab File: BN036813.D
Acq: 31 Mar 2025 13:40

Tgt Ion:112 Resp: 364

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 67.6 | 53.1 | 79.7 |
| 63 | 45.6 | 31.8 | 47.8 |



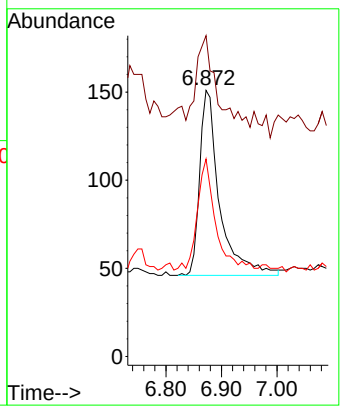


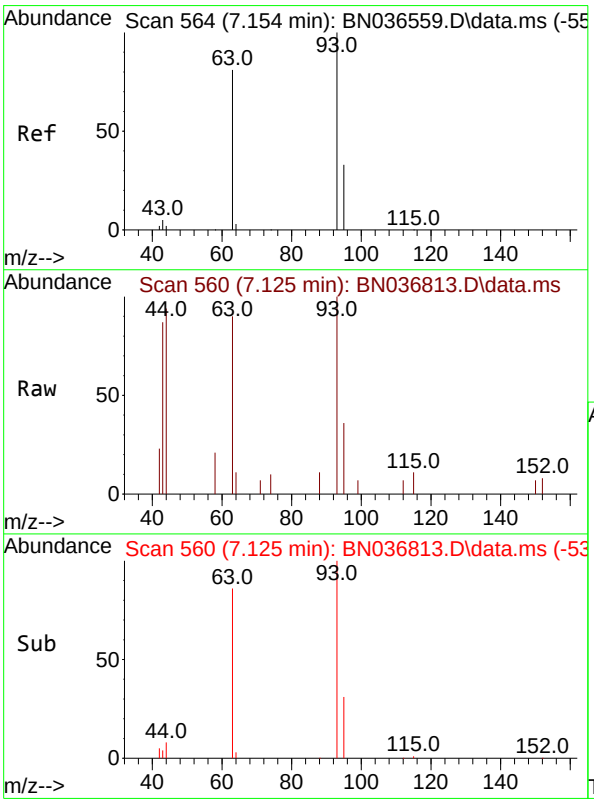

#5
Phenol-d6
Concen: 0.066 ng
RT: 6.872 min Scan# 5
Delta R.T. -0.029 min
Lab File: BN036813.D
Acq: 31 Mar 2025 13:40

**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01S-20250320MSD

Tgt Ion: 99 Resp: 261

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 49.0 | 26.5 | 39.7# |
| 71 | 55.2 | 34.1 | 51.1# |

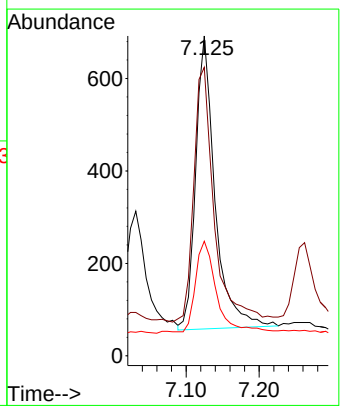


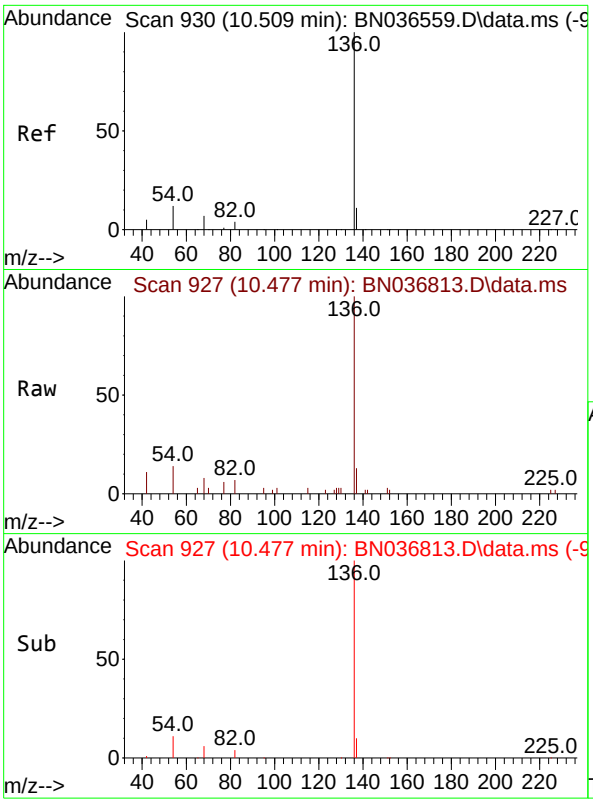




#6
bis(2-Chloroethyl)ether
Concen: 0.285 ng
RT: 7.125 min Scan# 560
Delta R.T. -0.029 min
Lab File: BN036813.D
Acq: 31 Mar 2025 13:40

Tgt Ion: 93 Resp: 1165

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 91.8 | 67.7 | 101.5 |
| 95 | 33.1 | 25.6 | 38.4 |



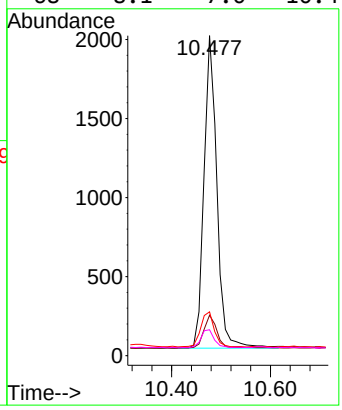


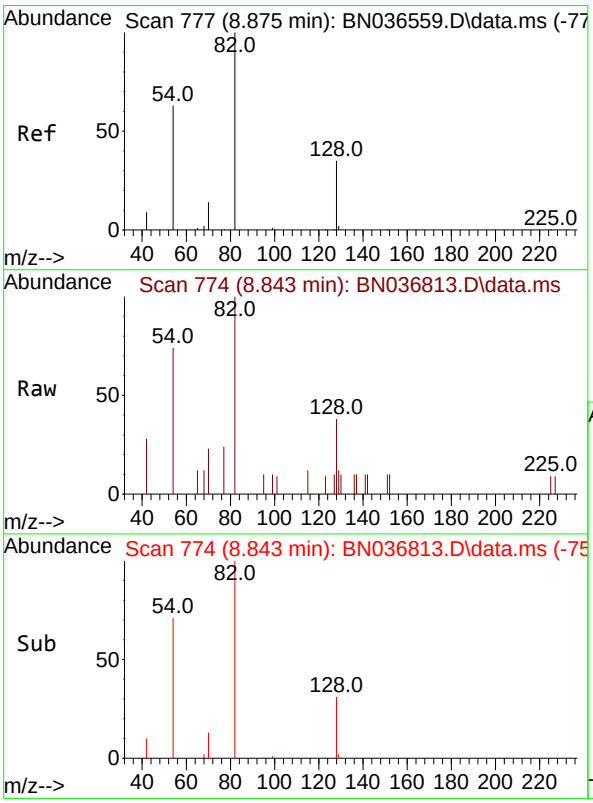

#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.477 min Scan# 9
Delta R.T. -0.032 min
Lab File: BN036813.D
Acq: 31 Mar 2025 13:40

**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01S-20250320MSD

Tgt Ion:136 Resp: 3583

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 12.6 | 10.3 | 15.5 |
| 54 | 13.7 | 11.5 | 17.3 |
| 68 | 8.1 | 7.0 | 10.4 |

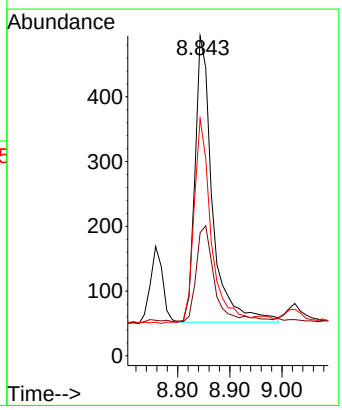


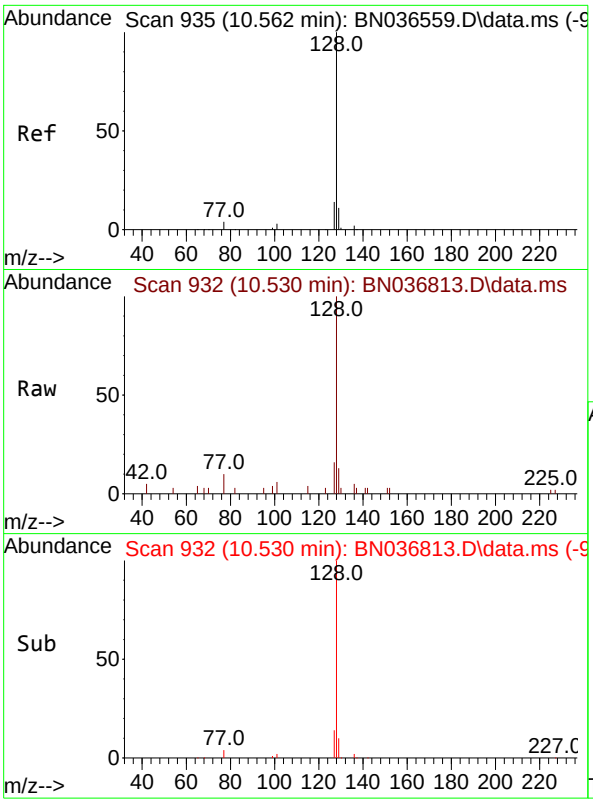




#8
Nitrobenzene-d5
Concen: 0.264 ng
RT: 8.843 min Scan# 774
Delta R.T. -0.032 min
Lab File: BN036813.D
Acq: 31 Mar 2025 13:40

Tgt Ion: 82 Resp: 1029

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 38.5 | 30.6 | 45.8 |
| 54 | 74.1 | 52.2 | 78.4 |



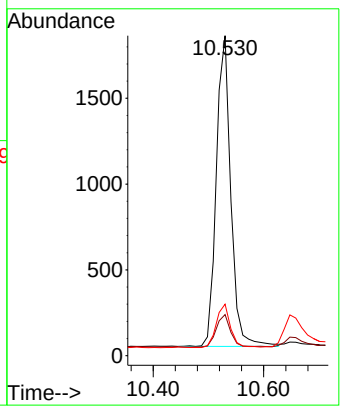


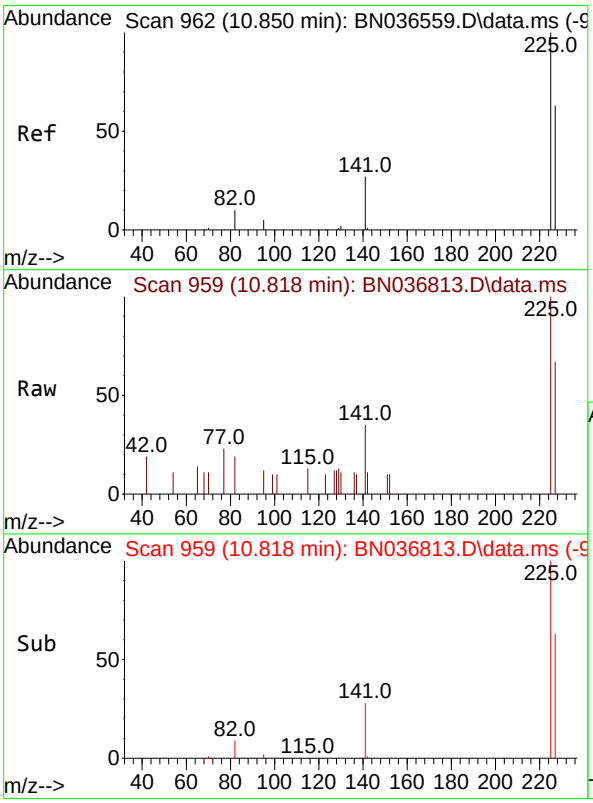

#9
Naphthalene
Concen: 0.312 ng
RT: 10.530 min Scan# 9
Delta R.T. -0.032 min
Lab File: BN036813.D
Acq: 31 Mar 2025 13:40

**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01S-20250320MSD

Tgt Ion:128 Resp: 3289

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 12.9 | 9.8 | 14.6 |
| 127 | 16.1 | 11.8 | 17.8 |

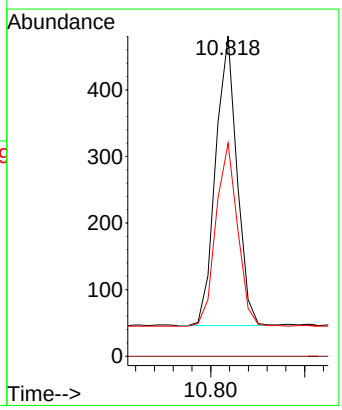


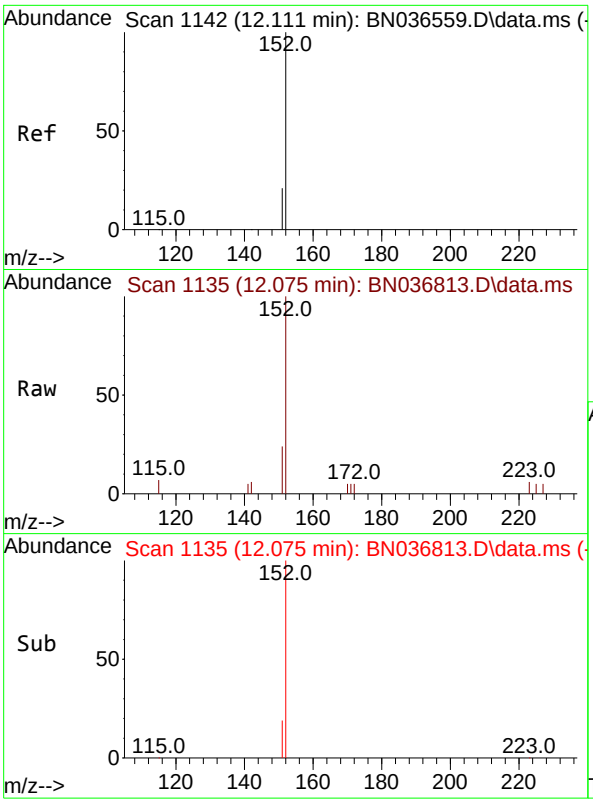




#10
Hexachlorobutadiene
Concen: 0.277 ng
RT: 10.818 min Scan# 959
Delta R.T. -0.032 min
Lab File: BN036813.D
Acq: 31 Mar 2025 13:40

Tgt Ion:225 Resp: 687

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 0.0 | 0.0 | 0.0 |
| 227 | 64.0 | 51.8 | 77.8 |



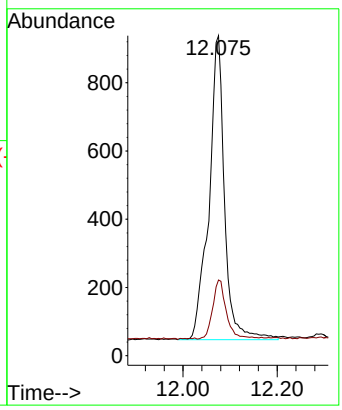


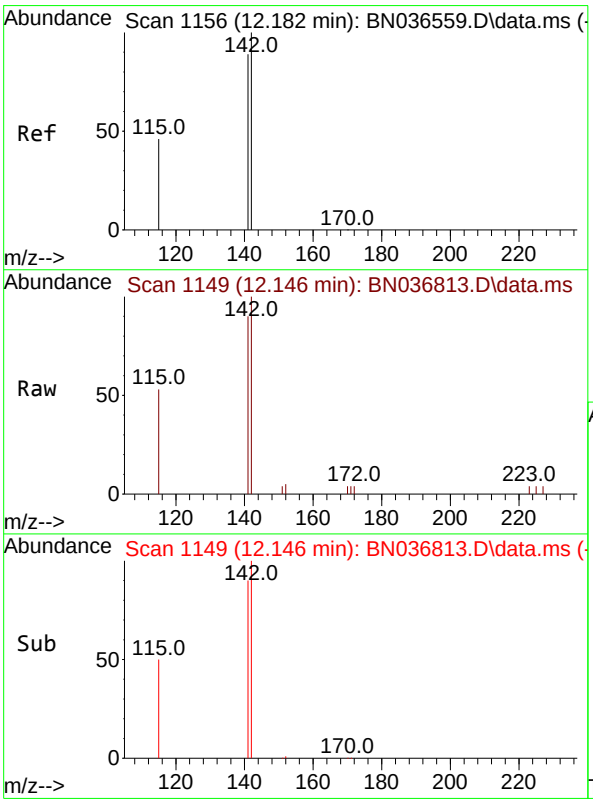

#11
2-Methylnaphthalene-d10
Concen: 0.384 ng
RT: 12.075 min Scan# 11
Delta R.T. -0.035 min
Lab File: BN036813.D
Acq: 31 Mar 2025 13:40

**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01S-20250320MSD

Tgt Ion:152 Resp: 2049

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 17.0 | 17.0 | 25.6# |

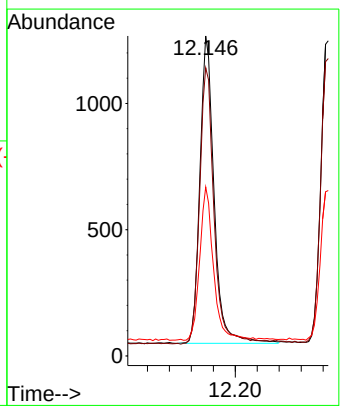


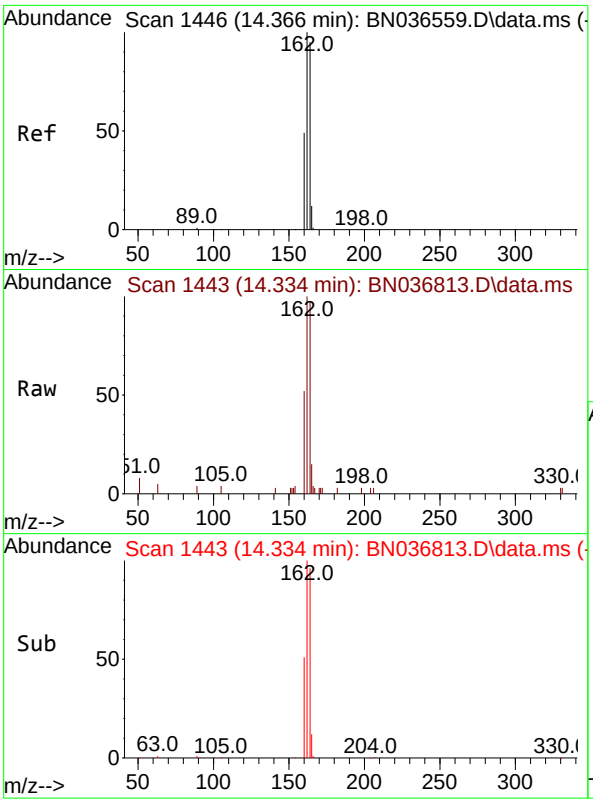




#12
2-Methylnaphthalene
Concen: 0.326 ng
RT: 12.146 min Scan# 1149
Delta R.T. -0.035 min
Lab File: BN036813.D
Acq: 31 Mar 2025 13:40

Tgt Ion:142 Resp: 2187

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 90.1 | 71.7 | 107.5 |
| 115 | 52.8 | 38.3 | 57.5 |



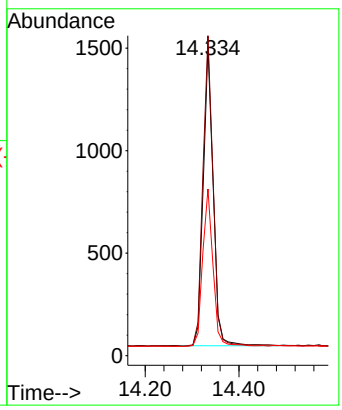


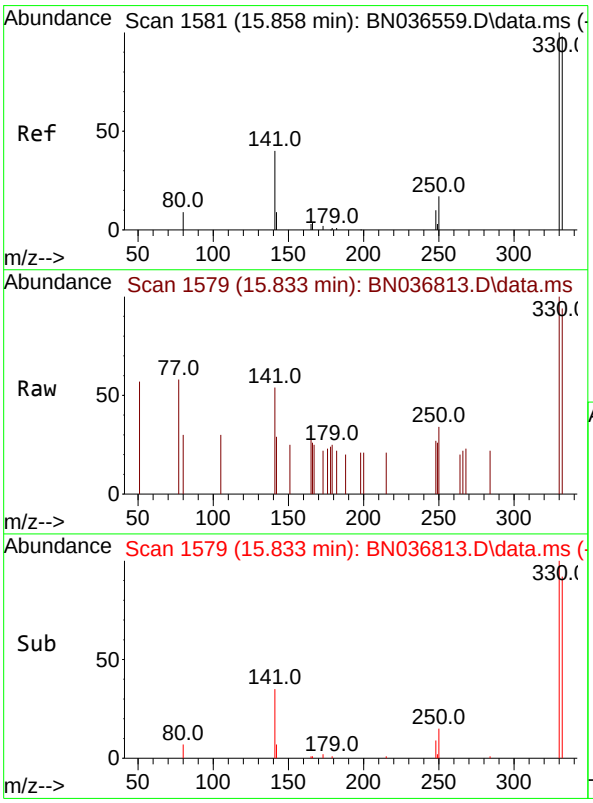

#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.334 min Scan# 14
Delta R.T. -0.032 min
Lab File: BN036813.D
Acq: 31 Mar 2025 13:40

**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01S-20250320MSD

Tgt Ion:164 Resp: 2162

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 103.5 | 84.2 | 126.2 |
| 160 | 53.9 | 42.2 | 63.2 |

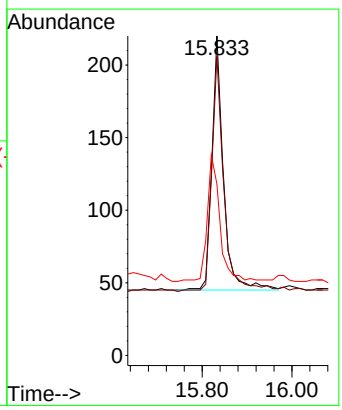


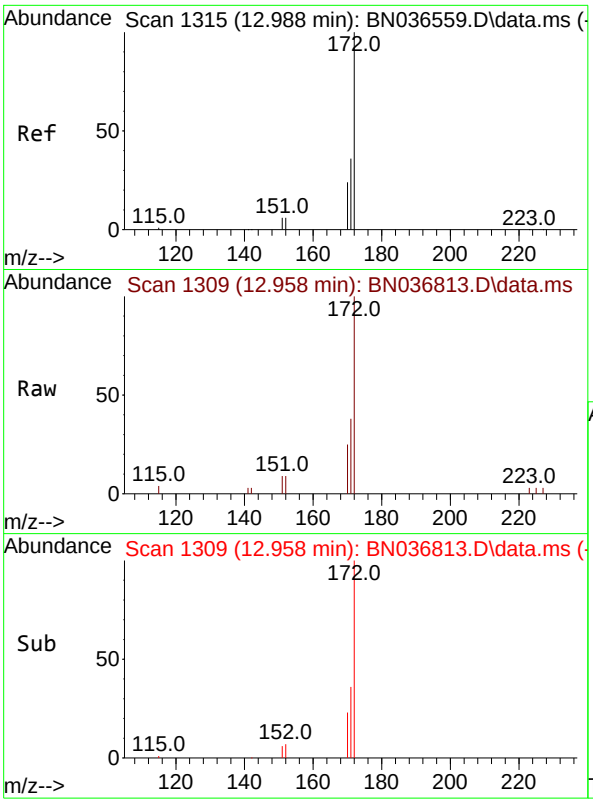




#14
2,4,6-Tribromophenol
Concen: 0.319 ng
RT: 15.833 min Scan# 1579
Delta R.T. -0.025 min
Lab File: BN036813.D
Acq: 31 Mar 2025 13:40

Tgt Ion:330 Resp: 313

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 96.2 | 75.2 | 112.8 |
| 141 | 54.3 | 43.4 | 65.2 |



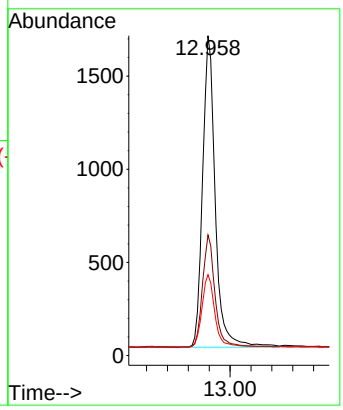


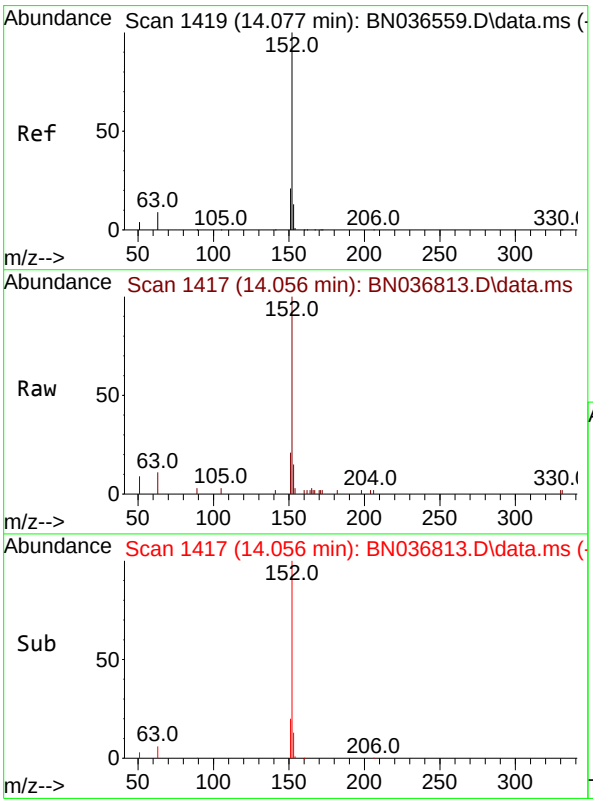

#15
2-Fluorobiphenyl
Concen: 0.288 ng
RT: 12.958 min Scan# 1
Delta R.T. -0.030 min
Lab File: BN036813.D
Acq: 31 Mar 2025 13:40

**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01S-20250320MSD

Tgt Ion:172 Resp: 3616

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 37.7 | 29.5 | 44.3 |
| 170 | 25.3 | 20.2 | 30.4 |

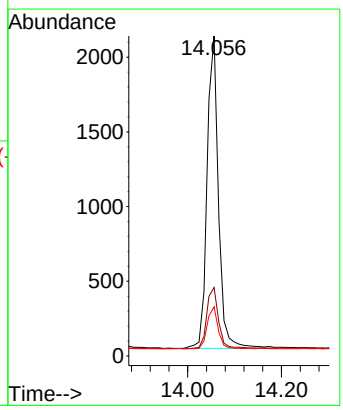


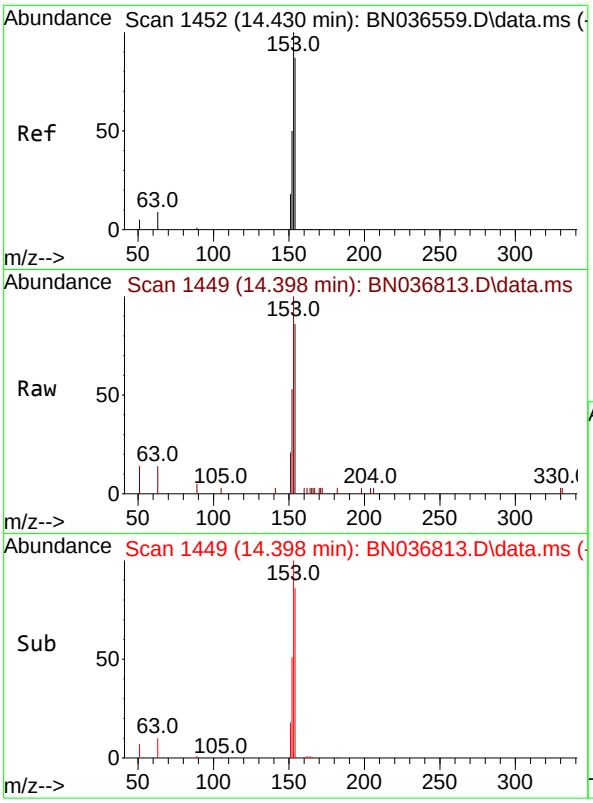




#16
Acenaphthylene
Concen: 0.345 ng
RT: 14.056 min Scan# 1417
Delta R.T. -0.021 min
Lab File: BN036813.D
Acq: 31 Mar 2025 13:40

Tgt Ion:152 Resp: 3518

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.4 | 16.2 | 24.4 |
| 153 | 13.0 | 10.6 | 15.8 |



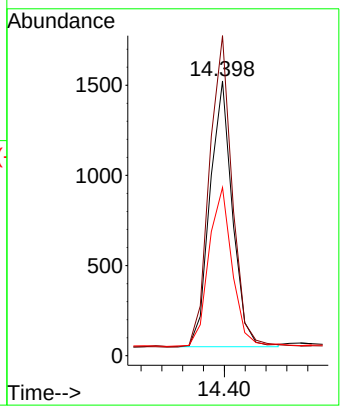


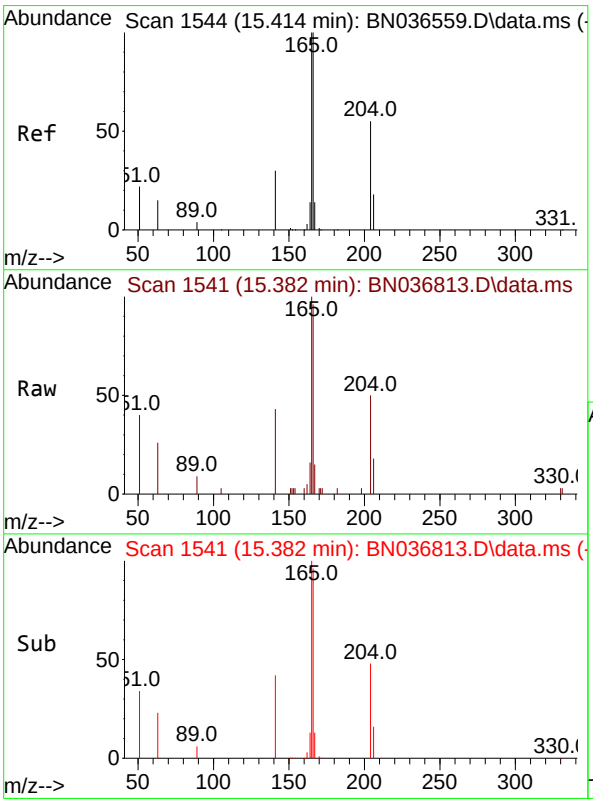

#17
Acenaphthene
Concen: 0.331 ng
RT: 14.398 min Scan# 14
Delta R.T. -0.032 min
Lab File: BN036813.D
Acq: 31 Mar 2025 13:40

**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01S-20250320MSD

Tgt Ion:154 Resp: 2211

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 120.6 | 94.1 | 141.1 |
| 152 | 62.6 | 49.8 | 74.6 |

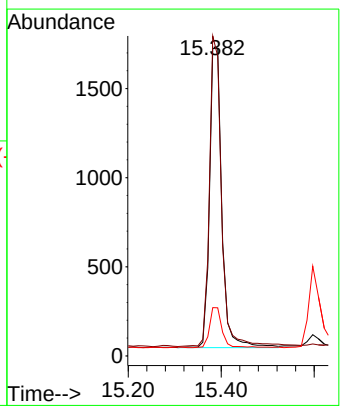


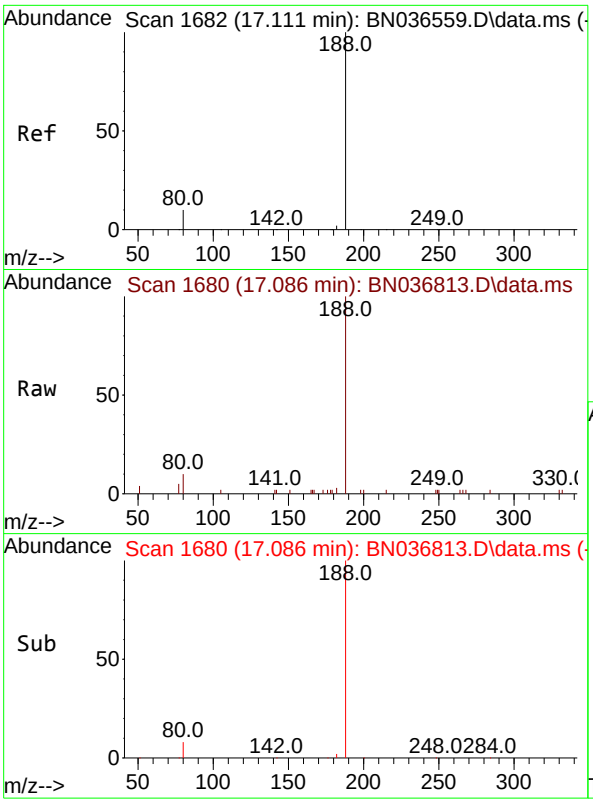




#18
Fluorene
Concen: 0.343 ng
RT: 15.382 min Scan# 1541
Delta R.T. -0.032 min
Lab File: BN036813.D
Acq: 31 Mar 2025 13:40

Tgt Ion:166 Resp: 3103

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 102.2 | 79.8 | 119.8 |
| 167 | 13.7 | 10.6 | 15.8 |



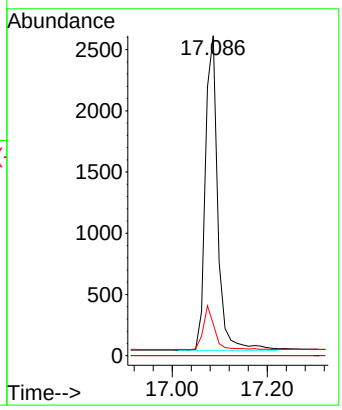


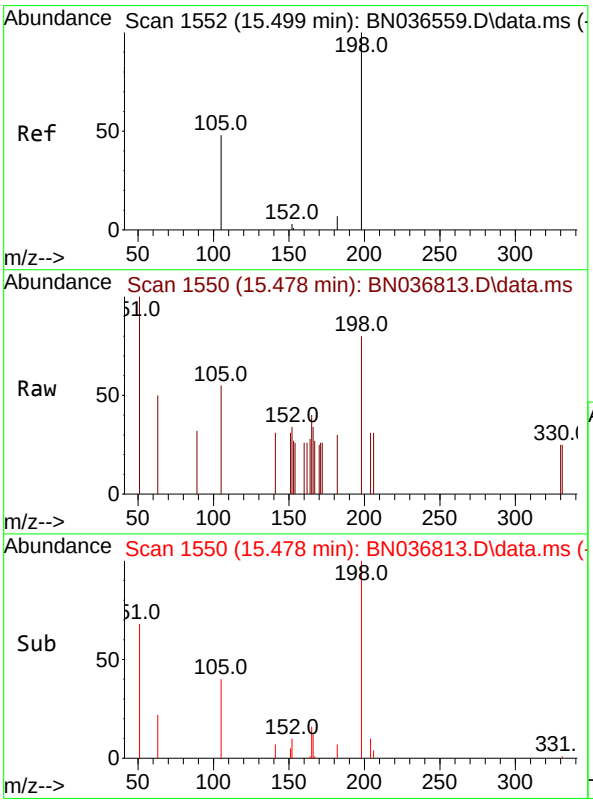

#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.086 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036813.D
Acq: 31 Mar 2025 13:40

**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01S-20250320MSD

Tgt Ion:188 Resp: 4671

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 9.9 | 8.8 | 13.2 |

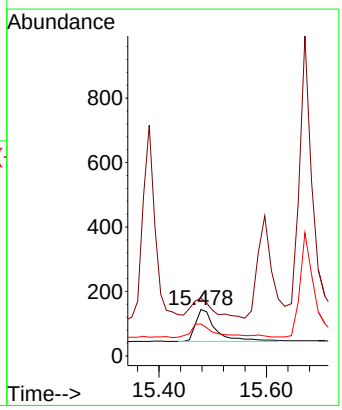


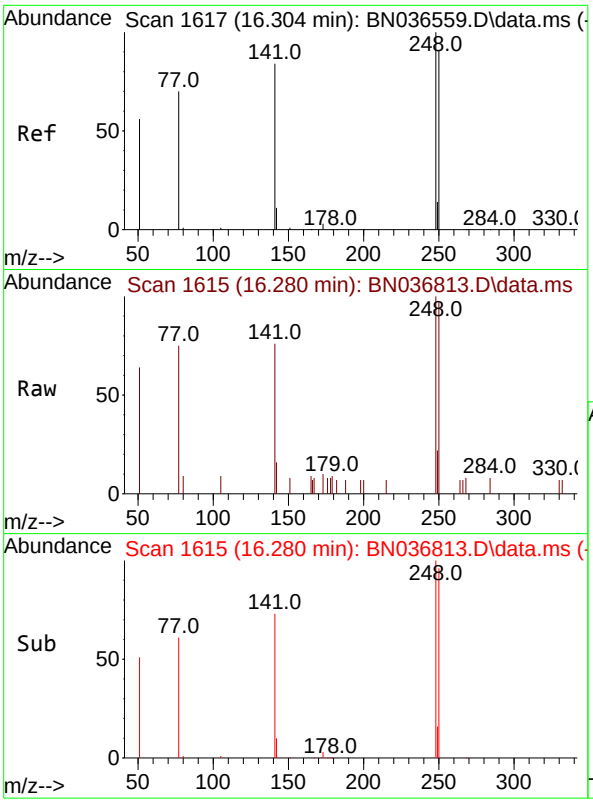




#20
4,6-Dinitro-2-methylphenol
Concen: 0.375 ng
RT: 15.478 min Scan# 1550
Delta R.T. -0.021 min
Lab File: BN036813.D
Acq: 31 Mar 2025 13:40

Tgt Ion:198 Resp: 273

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 198 | 100 | | |
| 51 | 124.3 | 107.9 | 161.9 |
| 105 | 68.8 | 56.2 | 84.2 |



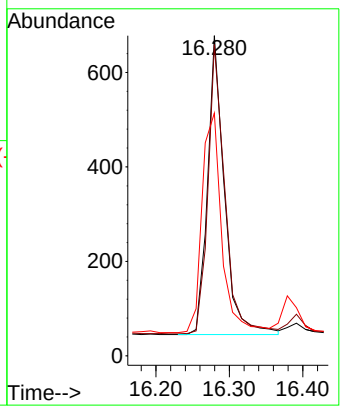


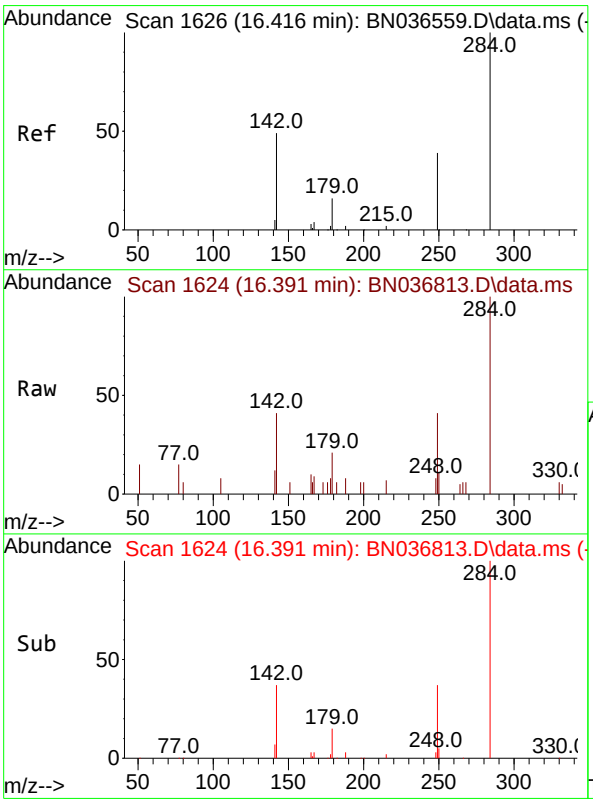

#21
4-Bromophenyl-phenylether
Concen: 0.345 ng
RT: 16.280 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036813.D
Acq: 31 Mar 2025 13:40

**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01S-20250320MSD

Tgt Ion:248 Resp: 1009

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 97.2 | 73.0 | 109.6 |
| 141 | 75.8 | 68.6 | 103.0 |

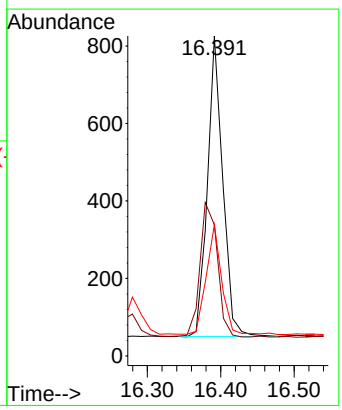


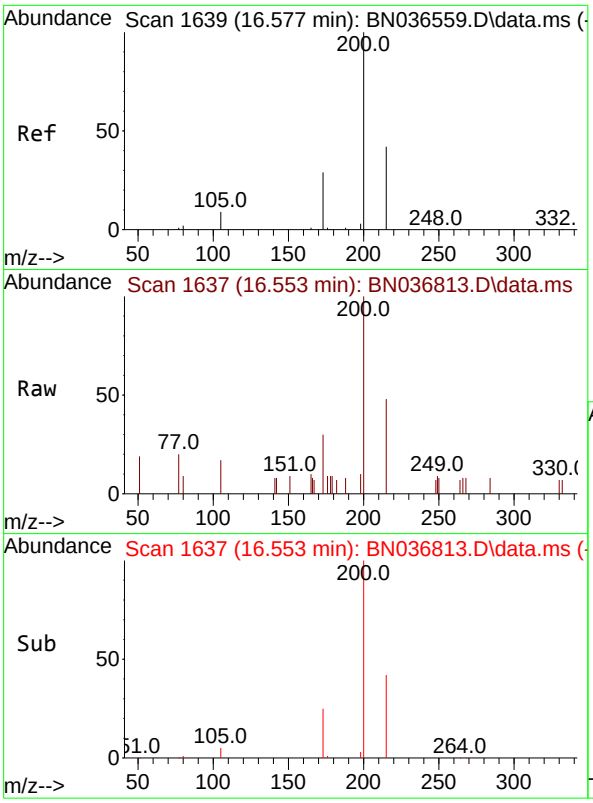




#22
Hexachlorobenzene
Concen: 0.318 ng
RT: 16.391 min Scan# 1624
Delta R.T. -0.025 min
Lab File: BN036813.D
Acq: 31 Mar 2025 13:40

Tgt Ion:284 Resp: 1122

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 51.2 | 37.0 | 55.4 |
| 249 | 37.4 | 28.1 | 42.1 |



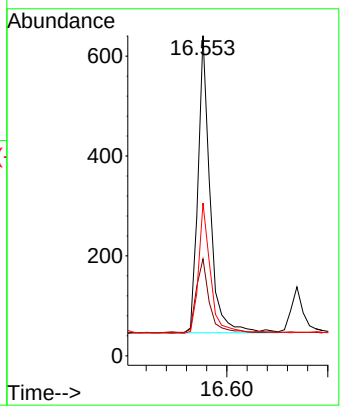


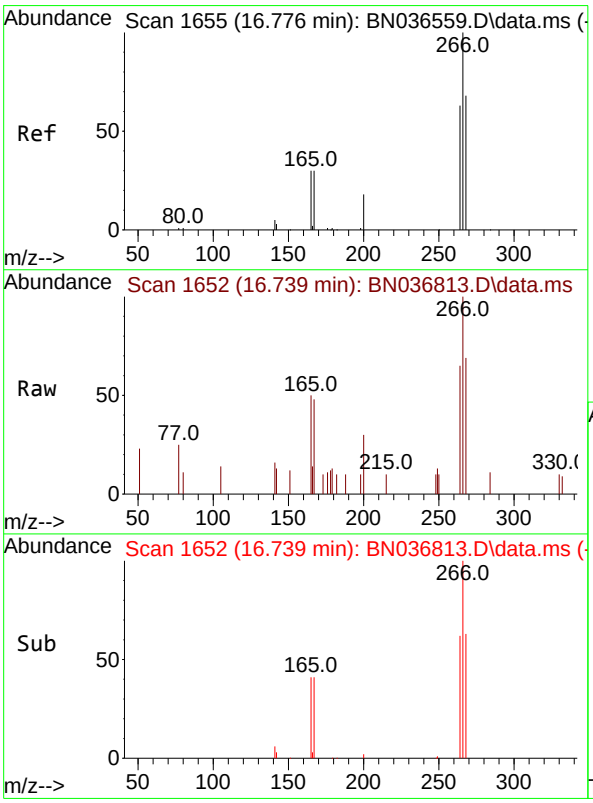

#23
Atrazine
Concen: 0.423 ng
RT: 16.553 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036813.D
Acq: 31 Mar 2025 13:40

**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01S-20250320MSD

Tgt Ion:200 Resp: 992

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 173 | 30.3 | 27.3 | 40.9 |
| 215 | 47.7 | 36.8 | 55.2 |

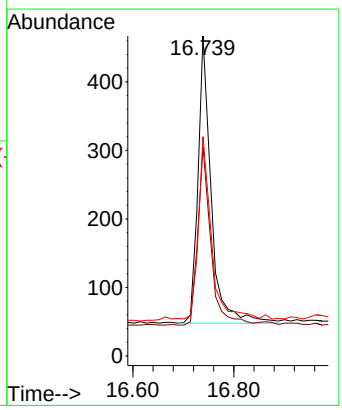


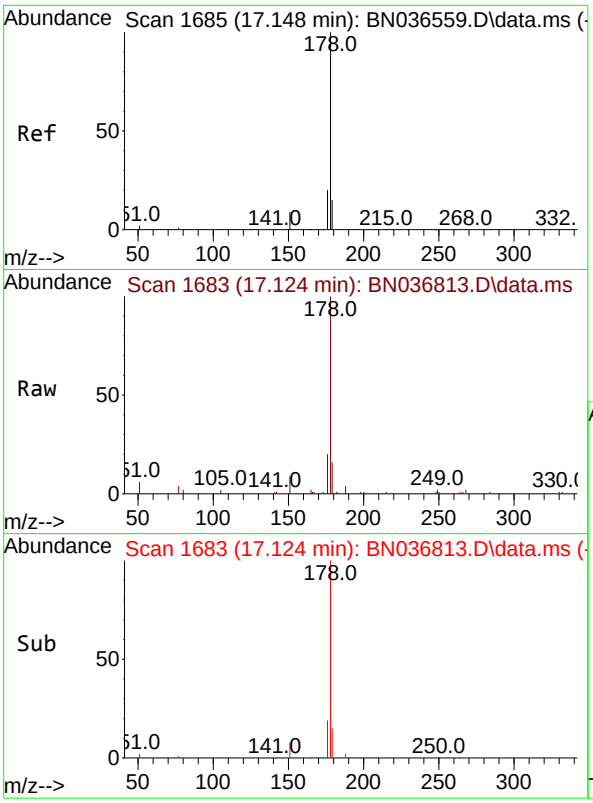




#24
Pentachlorophenol
Concen: 0.474 ng
RT: 16.739 min Scan# 1652
Delta R.T. -0.037 min
Lab File: BN036813.D
Acq: 31 Mar 2025 13:40

Tgt Ion:266 Resp: 763

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 264 | 60.9 | 49.6 | 74.4 |
| 268 | 63.8 | 50.9 | 76.3 |



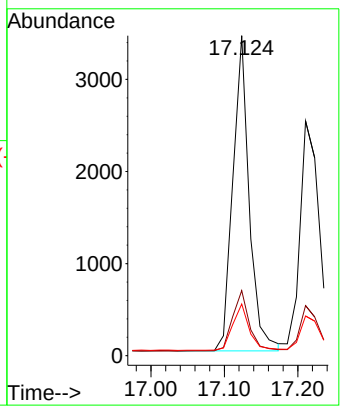


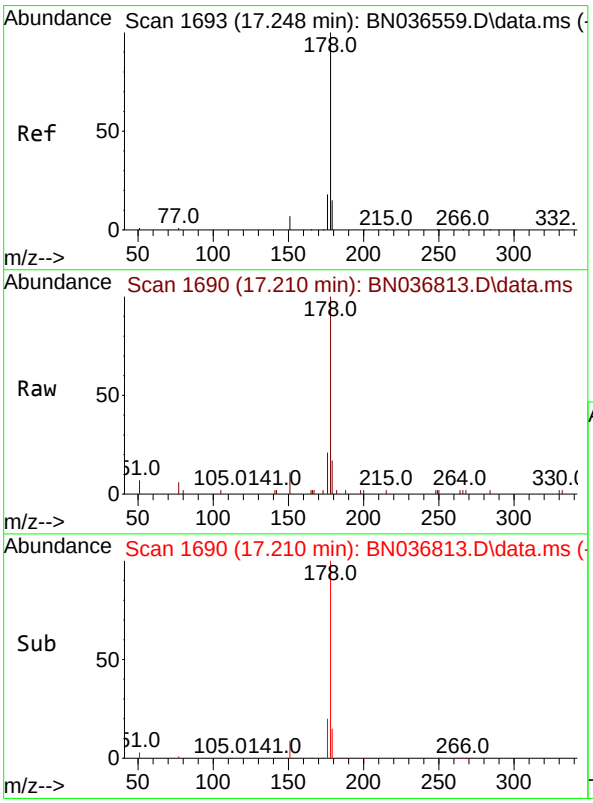

#25
Phenanthrene
Concen: 0.377 ng
RT: 17.124 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036813.D
Acq: 31 Mar 2025 13:40

**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01S-20250320MSD

Tgt Ion:178 Resp: 5288

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.5 | 15.9 | 23.9 |
| 179 | 15.2 | 12.2 | 18.4 |

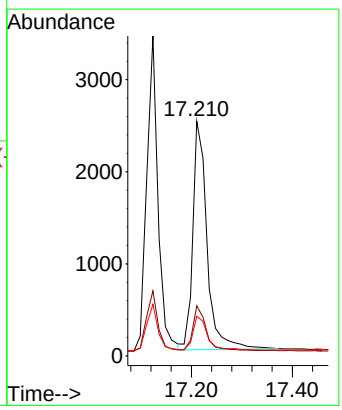


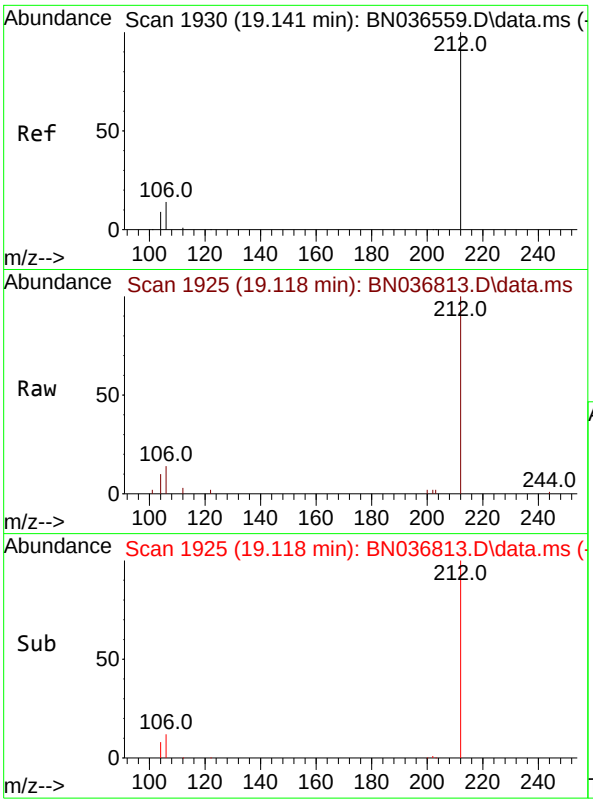




#26
Anthracene
Concen: 0.385 ng
RT: 17.210 min Scan# 1690
Delta R.T. -0.037 min
Lab File: BN036813.D
Acq: 31 Mar 2025 13:40

Tgt Ion:178 Resp: 4871

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.2 | 15.4 | 23.2 |
| 179 | 15.1 | 12.6 | 18.8 |



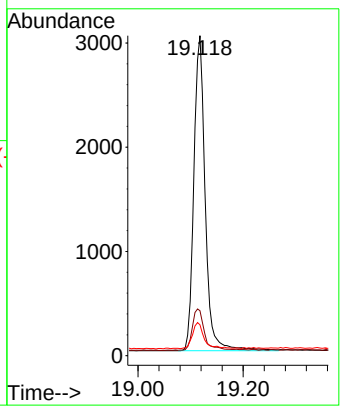


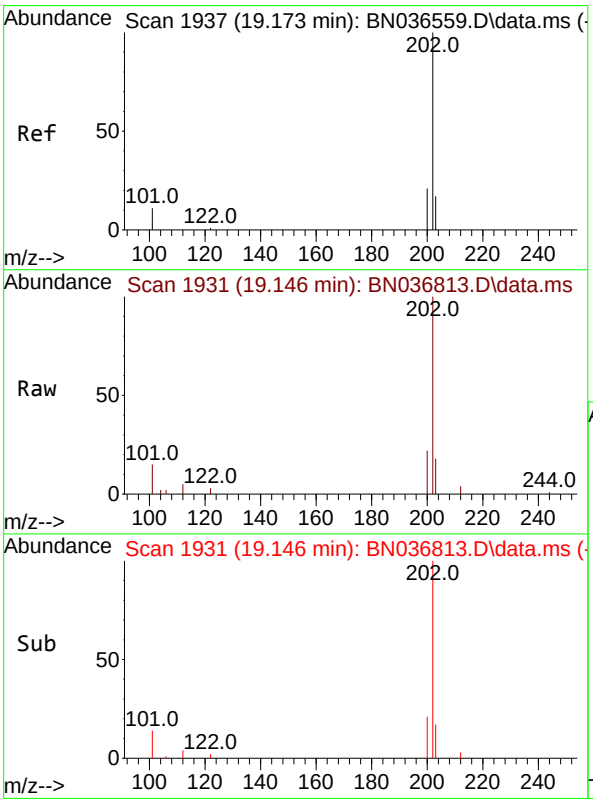

#27
Fluoranthene-d10
Concen: 0.380 ng
RT: 19.118 min Scan# 1
Delta R.T. -0.023 min
Lab File: BN036813.D
Acq: 31 Mar 2025 13:40

**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01S-20250320MSD

Tgt Ion:212 Resp: 4544

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 13.8 | 11.8 | 17.6 |
| 104 | 8.7 | 7.3 | 10.9 |

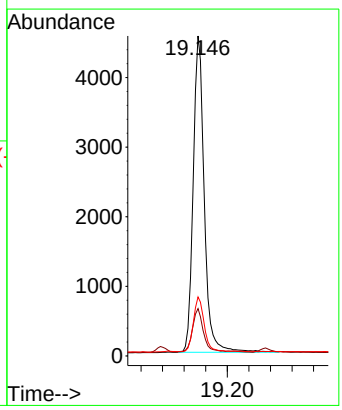


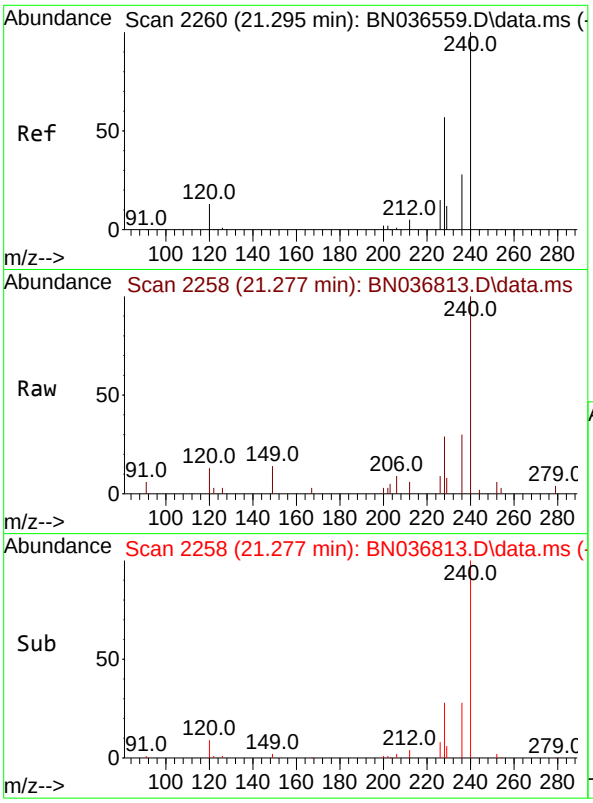




#28
Fluoranthene
Concen: 0.412 ng
RT: 19.146 min Scan# 1931
Delta R.T. -0.028 min
Lab File: BN036813.D
Acq: 31 Mar 2025 13:40

Tgt Ion:202 Resp: 6484

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 13.1 | 9.4 | 14.0 |
| 203 | 16.9 | 13.5 | 20.3 |



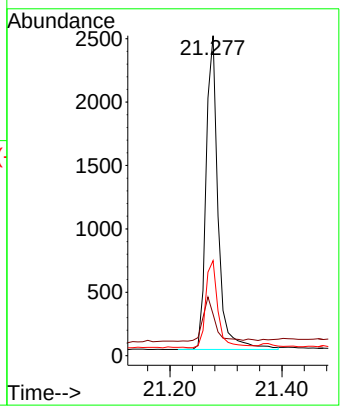


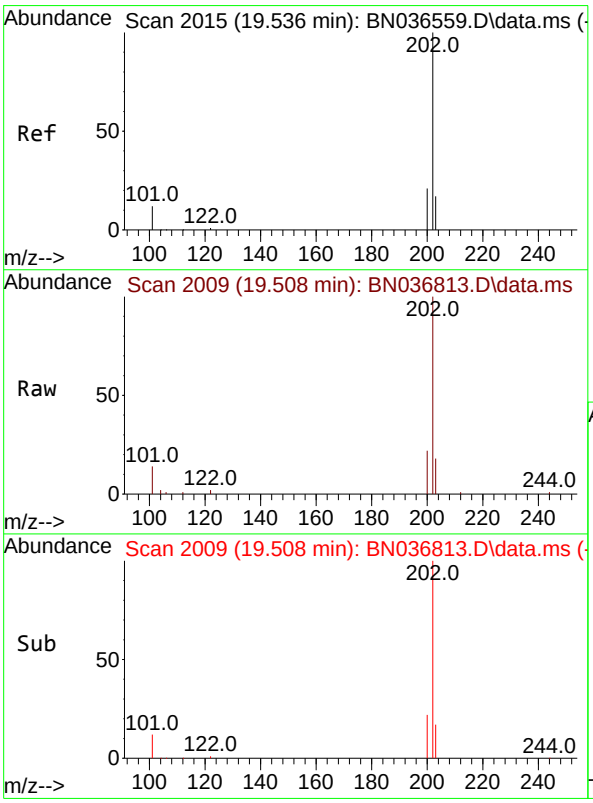

#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036813.D
Acq: 31 Mar 2025 13:40

**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01S-20250320MSD

Tgt Ion:240 Resp: 3683

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 13.0 | 14.6 | 22.0# |
| 236 | 29.7 | 24.1 | 36.1 |

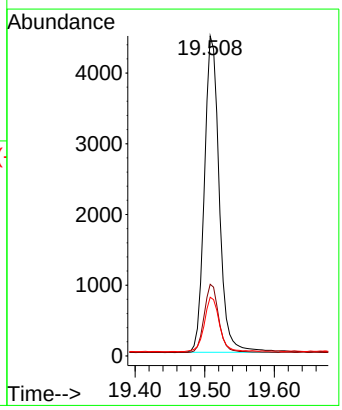


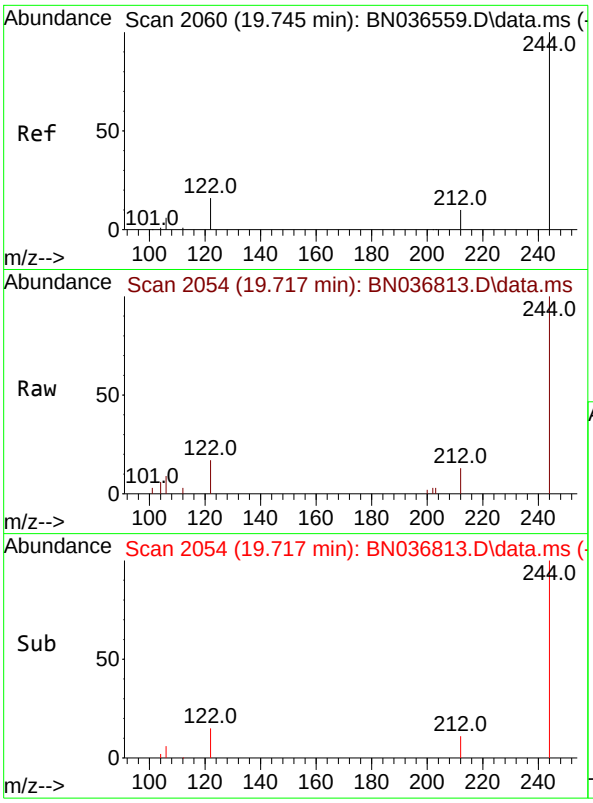




#30
Pyrene
Concen: 0.368 ng
RT: 19.508 min Scan# 2009
Delta R.T. -0.028 min
Lab File: BN036813.D
Acq: 31 Mar 2025 13:40

Tgt Ion:202 Resp: 6632

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.5 | 17.1 | 25.7 |
| 203 | 17.5 | 14.1 | 21.1 |



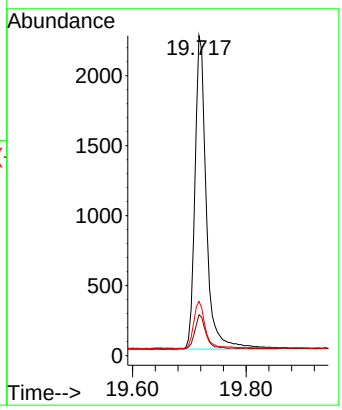


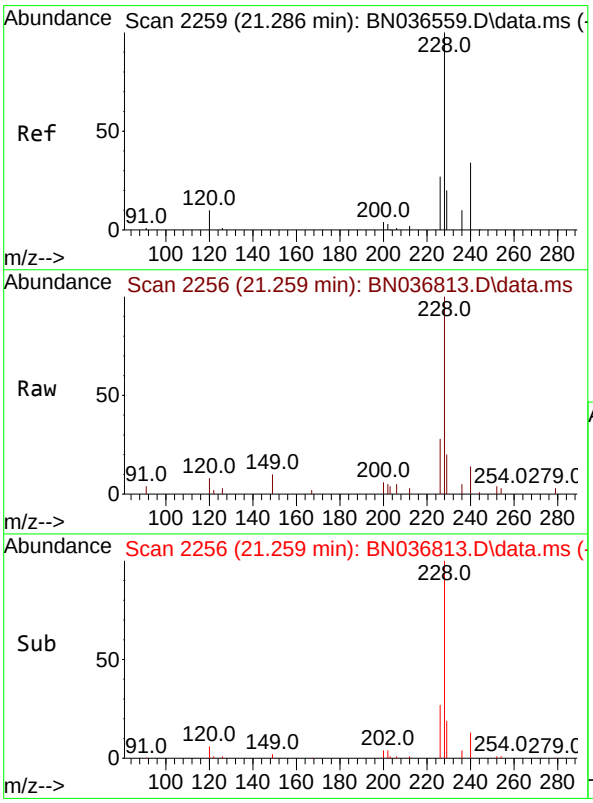

#31
Terphenyl-d14
Concen: 0.355 ng
RT: 19.717 min Scan# 2
Delta R.T. -0.028 min
Lab File: BN036813.D
Acq: 31 Mar 2025 13:40

**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01S-20250320MSD

Tgt Ion:244 Resp: 3134

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 12.8 | 9.6 | 14.4 |
| 122 | 16.9 | 13.9 | 20.9 |

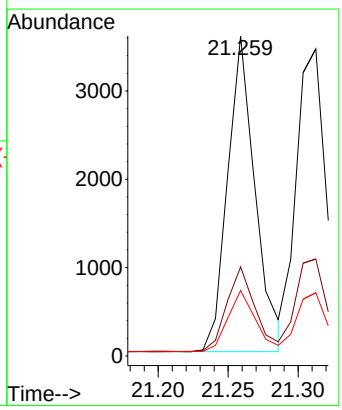


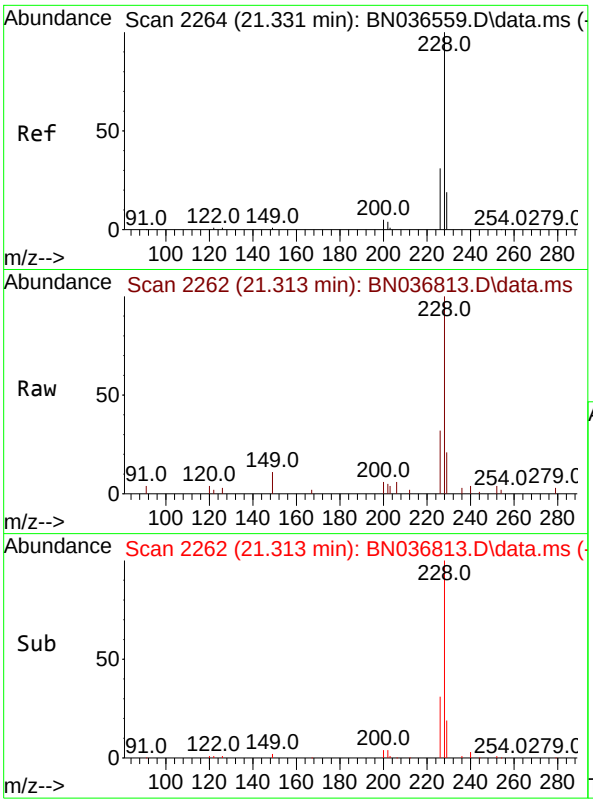




#32
Benzo(a)anthracene
Concen: 0.383 ng
RT: 21.259 min Scan# 2256
Delta R.T. -0.027 min
Lab File: BN036813.D
Acq: 31 Mar 2025 13:40

Tgt Ion:228 Resp: 4899

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 27.8 | 22.5 | 33.7 |
| 229 | 20.4 | 16.6 | 25.0 |



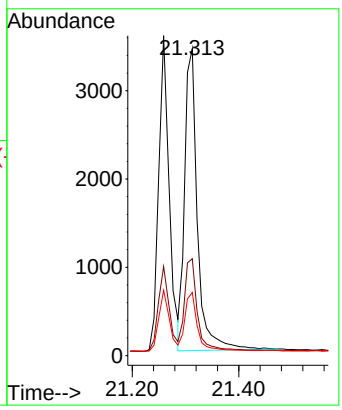


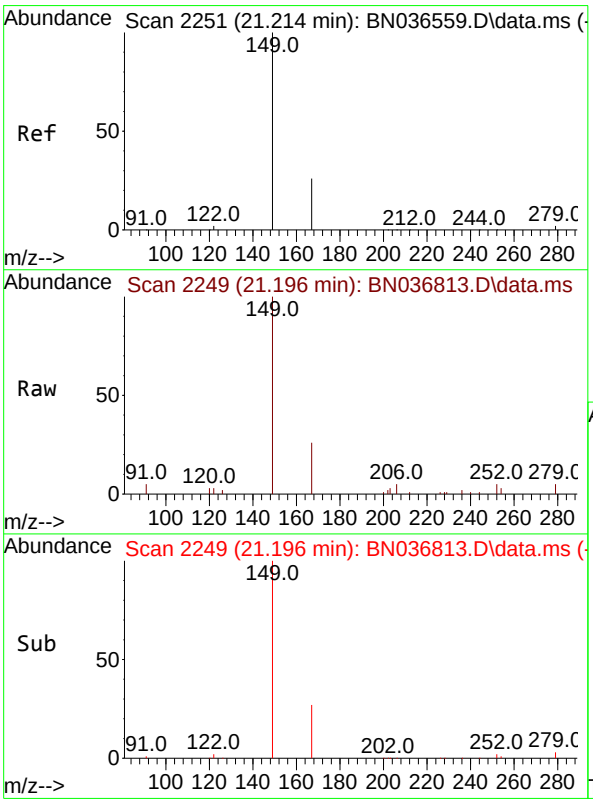

#33
Chrysene
Concen: 0.406 ng
RT: 21.313 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036813.D
Acq: 31 Mar 2025 13:40

**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01S-20250320MSD

Tgt Ion:228 Resp: 5677

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 31.6 | 25.3 | 37.9 |
| 229 | 20.6 | 15.8 | 23.8 |

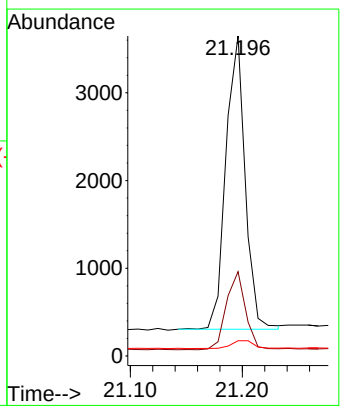


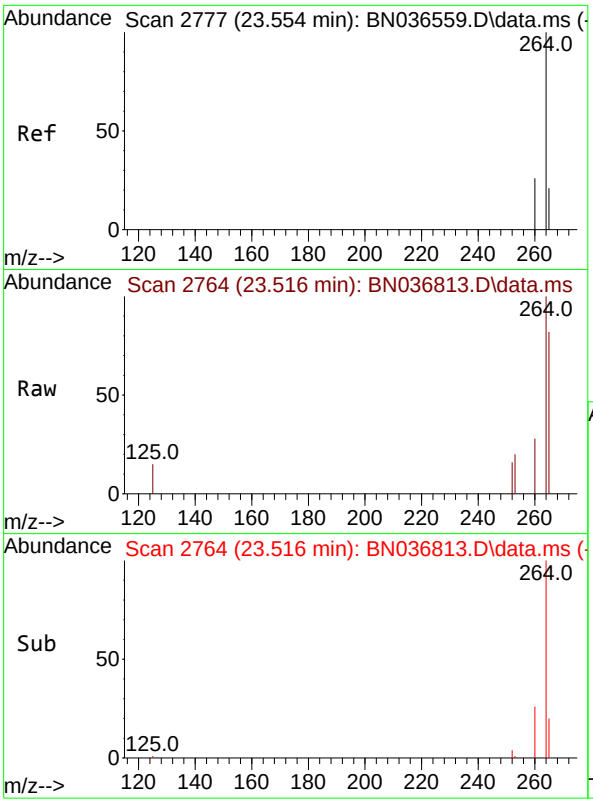




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.439 ng
RT: 21.196 min Scan# 2249
Delta R.T. -0.018 min
Lab File: BN036813.D
Acq: 31 Mar 2025 13:40

Tgt Ion:149 Resp: 4003

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 26.8 | 20.7 | 31.1 |
| 279 | 3.2 | 3.6 | 5.4# |



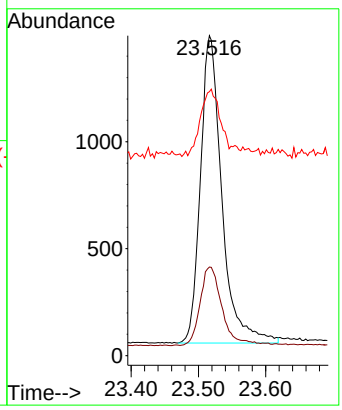


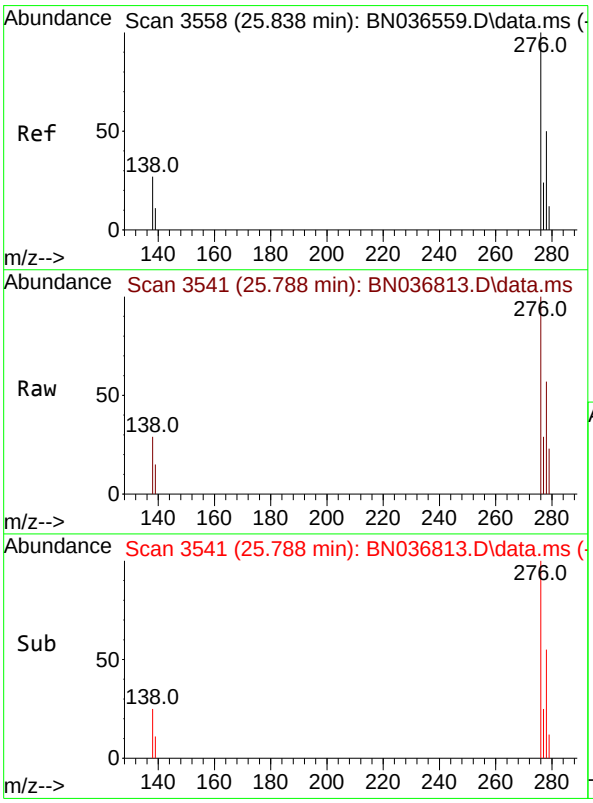

#35
Perylene-d12
Concen: 0.400 ng
RT: 23.516 min Scan# 2
Delta R.T. -0.038 min
Lab File: BN036813.D
Acq: 31 Mar 2025 13:40

**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01S-20250320MSD

Tgt Ion:264 Resp: 3184

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 27.7 | 22.6 | 33.8 |
| 265 | 82.5 | 88.1 | 132.1# |

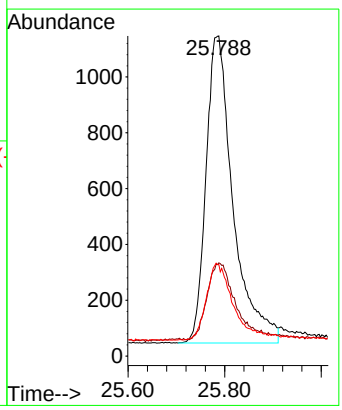


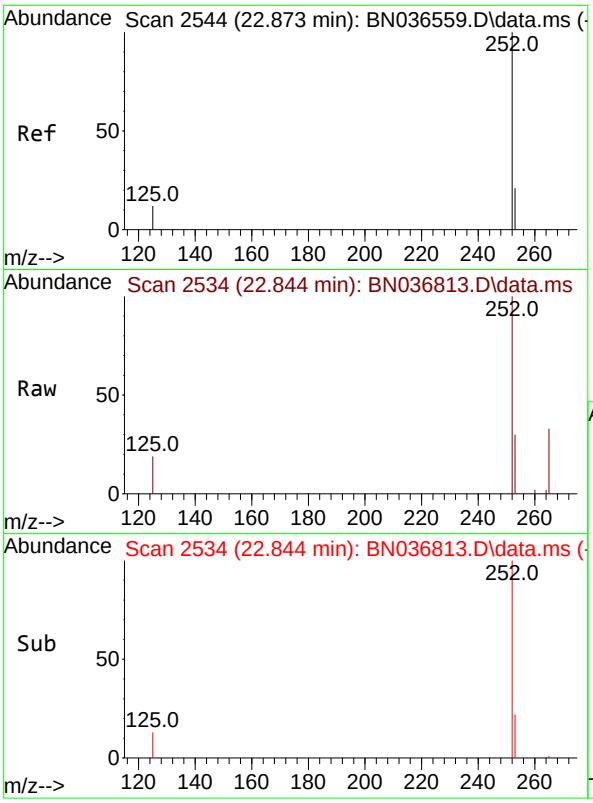




#36
Indeno(1,2,3-cd)pyrene
Concen: 0.373 ng
RT: 25.788 min Scan# 3541
Delta R.T. -0.050 min
Lab File: BN036813.D
Acq: 31 Mar 2025 13:40

Tgt Ion:276 Resp: 4286

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 26.0 | 23.4 | 35.2 |
| 277 | 24.6 | 20.0 | 30.0 |



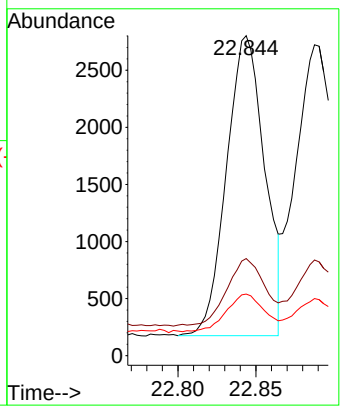


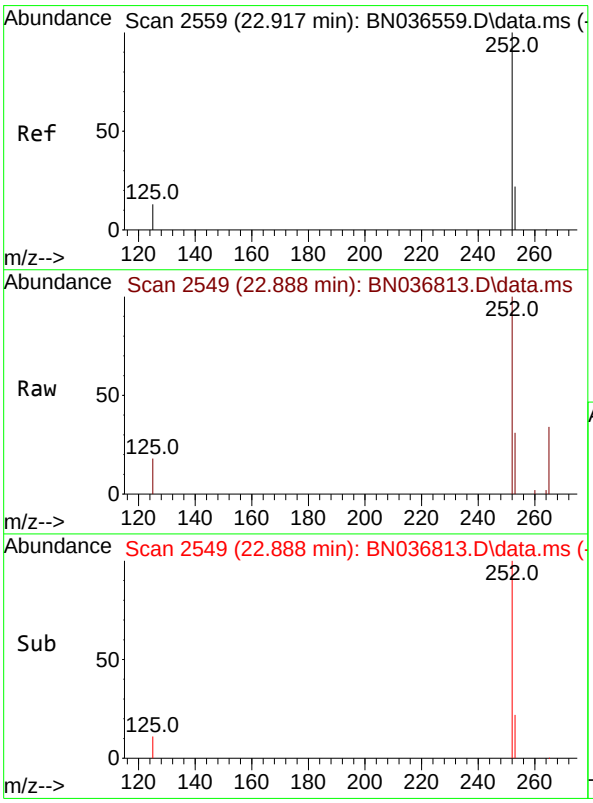

#37
Benzo(b)fluoranthene
Concen: 0.387 ng
RT: 22.844 min Scan# 2
Delta R.T. -0.029 min
Lab File: BN036813.D
Acq: 31 Mar 2025 13:40

**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01S-20250320MSD

Tgt Ion:252 Resp: 4479

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 30.4 | 23.9 | 35.9 |
| 125 | 19.2 | 17.4 | 26.2 |

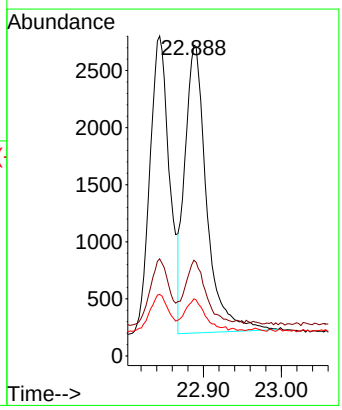


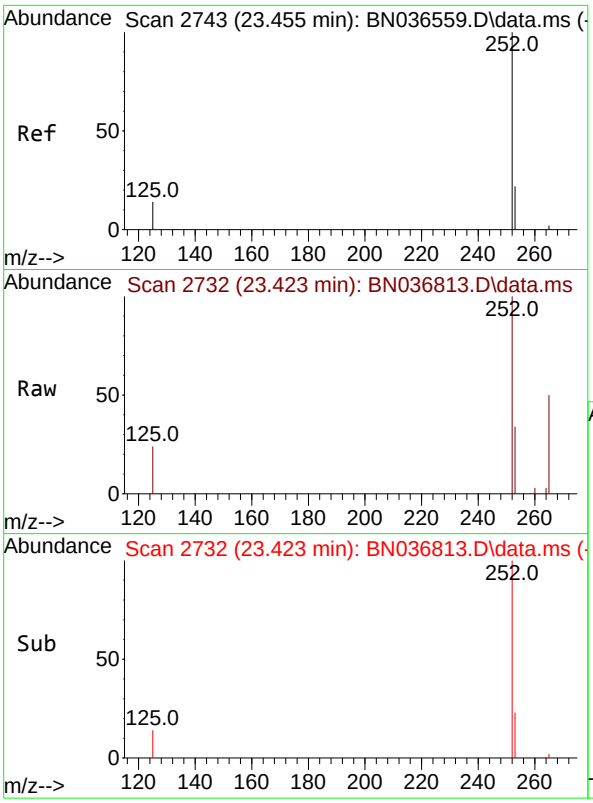




#38
Benzo(k)fluoranthene
Concen: 0.403 ng
RT: 22.888 min Scan# 2549
Delta R.T. -0.029 min
Lab File: BN036813.D
Acq: 31 Mar 2025 13:40

Tgt Ion:252 Resp: 4899

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 30.8 | 24.6 | 36.8 |
| 125 | 18.4 | 17.8 | 26.8 |



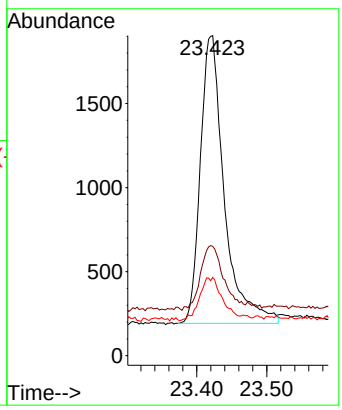


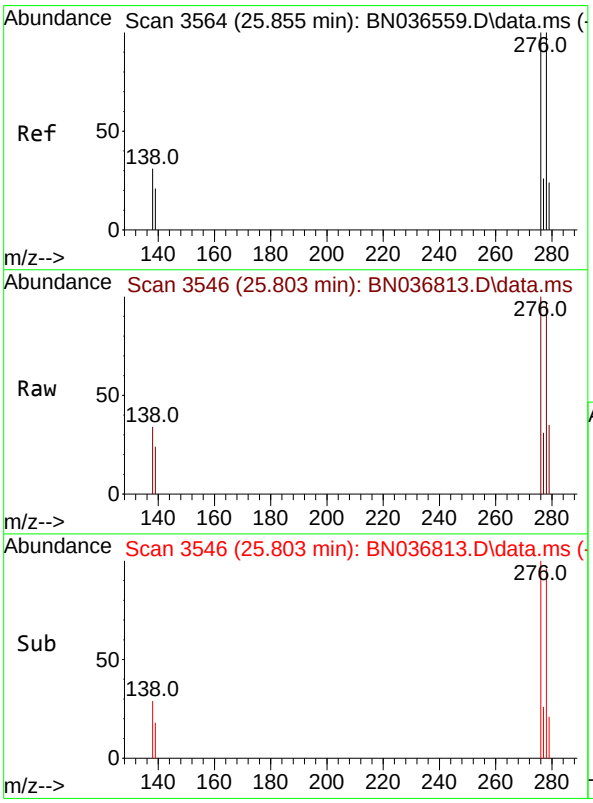

#39
Benzo(a)pyrene
Concen: 0.417 ng
RT: 23.423 min Scan# 2
Delta R.T. -0.032 min
Lab File: BN036813.D
Acq: 31 Mar 2025 13:40

**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01S-20250320MSD

Tgt Ion:252 Resp: 4067

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 34.1 | 27.8 | 41.8 |
| 125 | 24.5 | 22.7 | 34.1 |

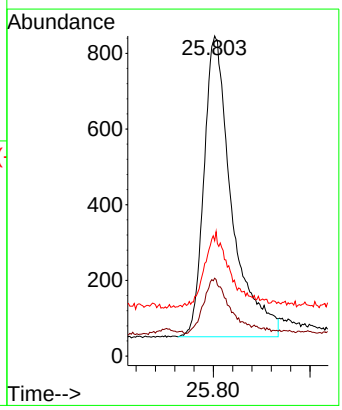


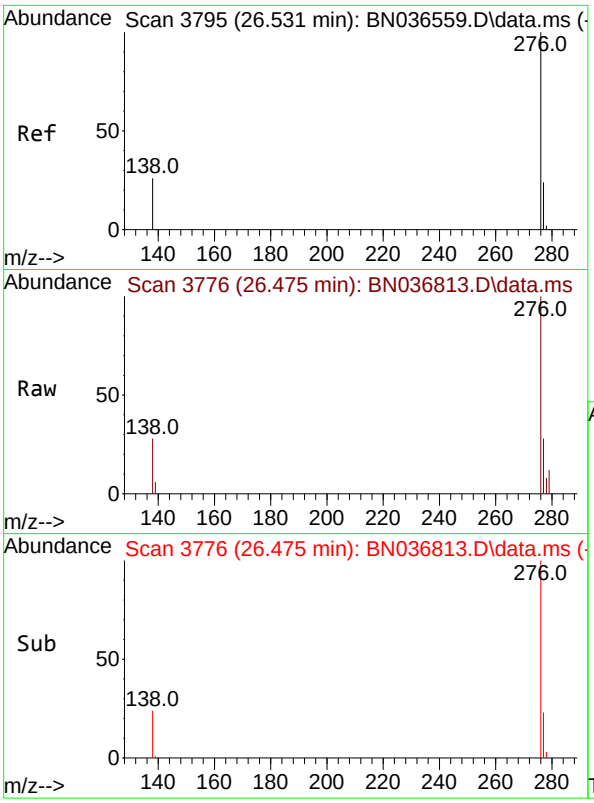




#40
Dibenzo(a,h)anthracene
Concen: 0.355 ng
RT: 25.803 min Scan# 3546
Delta R.T. -0.053 min
Lab File: BN036813.D
Acq: 31 Mar 2025 13:40

Tgt Ion:278 Resp: 3174

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 24.3 | 20.8 | 31.2 |
| 279 | 36.1 | 28.8 | 43.2 |



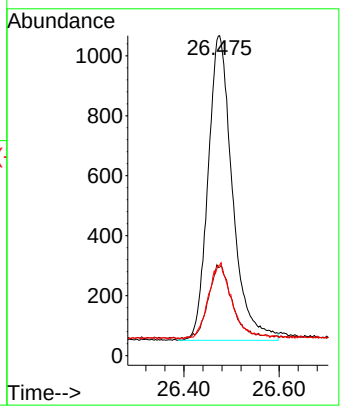



#41
Benzo(g,h,i)perylene
Concen: 0.353 ng
RT: 26.475 min Scan# 3
Delta R.T. -0.056 min
Lab File: BN036813.D
Acq: 31 Mar 2025 13:40

**Instrument :**
BNA_N
**ClientSampleId :**
RW09-MW01S-20250320MSD

Tgt Ion:276 Resp: 3612

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 27.6 | 22.2 | 33.4 |
| 138 | 28.3 | 24.1 | 36.1 |



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN033125\
Data File : BN036815.D
Acq On : 31 Mar 2025 15:08
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Quant Time: Mar 31 15:30:13 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

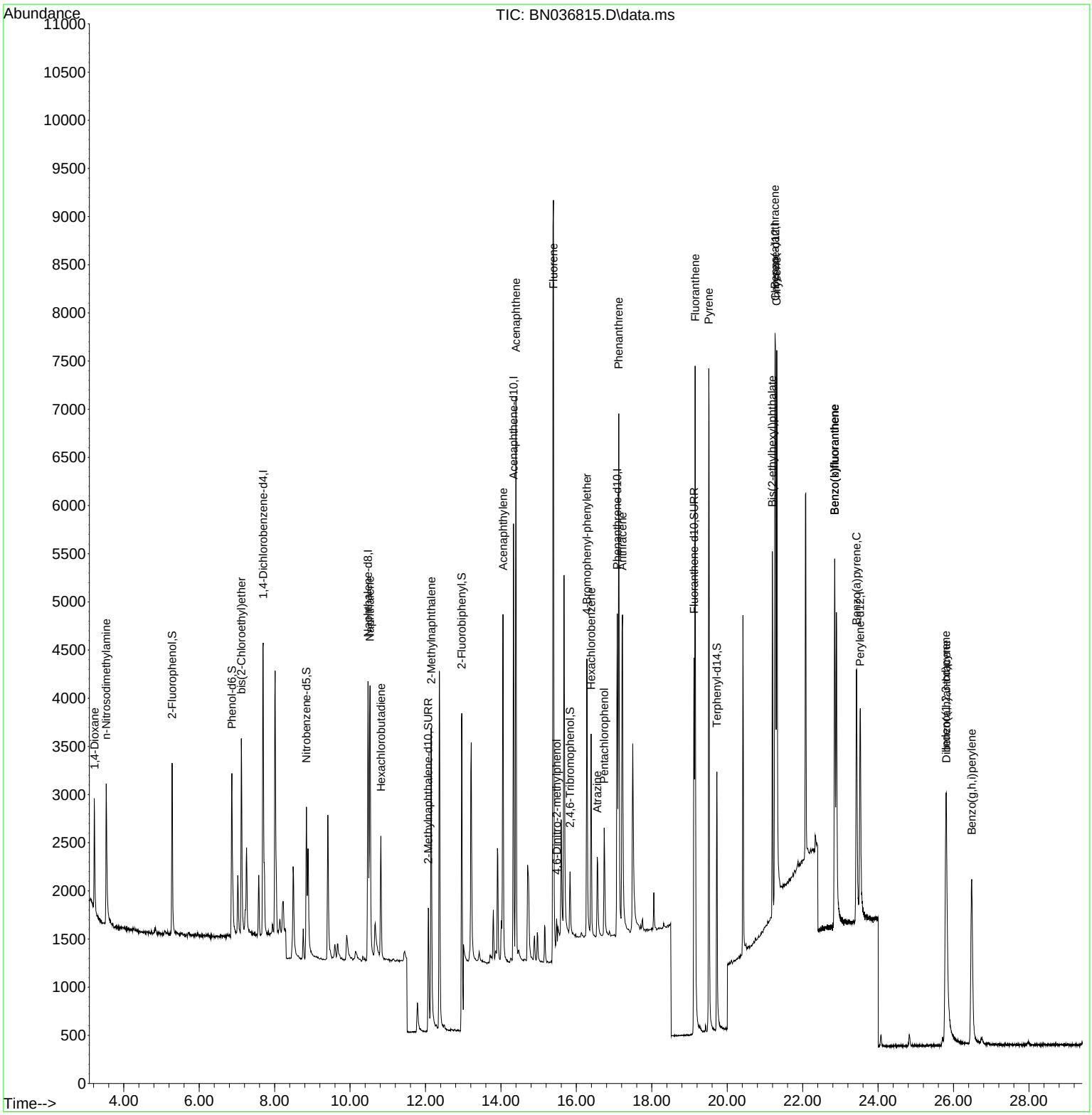
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.696 | 152 | 1563 | 0.400 | ng | -0.03 |
| 7) Naphthalene-d8 | 10.477 | 136 | 4089 | 0.400 | ng | -0.03 |
| 13) Acenaphthene-d10 | 14.334 | 164 | 2524 | 0.400 | ng | -0.03 |
| 19) Phenanthrene-d10 | 17.087 | 188 | 5032 | 0.400 | ng | -0.02 |
| 29) Chrysene-d12 | 21.277 | 240 | 3863 | 0.400 | ng | -0.02 |
| 35) Perylene-d12 | 23.525 | 264 | 3435 | 0.400 | ng | #-0.03 |
| System Monitoring Compounds | | | | | | |
| 4) 2-Fluorophenol | 5.283 | 112 | 1311 | 0.360 | ng | -0.03 |
| 5) Phenol-d6 | 6.865 | 99 | 1525 | 0.339 | ng | -0.04 |
| 8) Nitrobenzene-d5 | 8.843 | 82 | 1424 | 0.320 | ng | -0.03 |
| 11) 2-Methylnaphthalene-d10 | 12.075 | 152 | 2219 | 0.365 | ng | -0.04 |
| 14) 2,4,6-Tribromophenol | 15.833 | 330 | 402 | 0.351 | ng | -0.02 |
| 15) 2-Fluorobiphenyl | 12.963 | 172 | 4939 | 0.336 | ng | -0.03 |
| 27) Fluoranthene-d10 | 19.118 | 212 | 5000 | 0.388 | ng | -0.02 |
| 31) Terphenyl-d14 | 19.726 | 244 | 3254 | 0.352 | ng | -0.02 |
| Target Compounds | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.225 | 88 | 698 | 0.403 | ng | 97 |
| 3) n-Nitrosodimethylamine | 3.536 | 42 | 1430 | 0.408 | ng | 93 |
| 6) bis(2-Chloroethyl)ether | 7.118 | 93 | 1597 | 0.343 | ng | 98 |
| 9) Naphthalene | 10.530 | 128 | 4210 | 0.350 | ng | 99 |
| 10) Hexachlorobutadiene | 10.818 | 225 | 998 | 0.352 | ng | # 99 |
| 12) 2-Methylnaphthalene | 12.151 | 142 | 2722 | 0.356 | ng | 99 |
| 16) Acenaphthylene | 14.056 | 152 | 4054 | 0.340 | ng | 100 |
| 17) Acenaphthene | 14.398 | 154 | 2777 | 0.356 | ng | 99 |
| 18) Fluorene | 15.393 | 166 | 3732 | 0.354 | ng | 99 |
| 20) 4,6-Dinitro-2-methylph... | 15.478 | 198 | 396 | 0.454 | ng | 85 |
| 21) 4-Bromophenyl-phenylether | 16.280 | 248 | 1144 | 0.363 | ng | 94 |
| 22) Hexachlorobenzene | 16.391 | 284 | 1380 | 0.363 | ng | 95 |
| 23) Atrazine | 16.553 | 200 | 954 | 0.377 | ng | 97 |
| 24) Pentachlorophenol | 16.739 | 266 | 651 | 0.375 | ng | 97 |
| 25) Phenanthrene | 17.124 | 178 | 5703 | 0.378 | ng | 100 |
| 26) Anthracene | 17.223 | 178 | 4933 | 0.362 | ng | 99 |
| 28) Fluoranthene | 19.150 | 202 | 6761 | 0.399 | ng | 98 |
| 30) Pyrene | 19.513 | 202 | 6826 | 0.361 | ng | 100 |
| 32) Benzo(a)anthracene | 21.268 | 228 | 4715 | 0.351 | ng | 99 |
| 33) Chrysene | 21.313 | 228 | 5650 | 0.385 | ng | 100 |
| 34) Bis(2-ethylhexyl)phtha... | 21.196 | 149 | 3477 | 0.364 | ng | # 99 |
| 36) Indeno(1,2,3-cd)pyrene | 25.800 | 276 | 4428 | 0.357 | ng | 94 |
| 37) Benzo(b)fluoranthene | 22.850 | 252 | 4732 | 0.379 | ng | 98 |
| 38) Benzo(k)fluoranthene | 22.850 | 252 | 4732 | 0.361 | ng | 98 |
| 39) Benzo(a)pyrene | 23.429 | 252 | 4200 | 0.399 | ng | 97 |
| 40) Dibenzo(a,h)anthracene | 25.811 | 278 | 3277 | 0.340 | ng | 97 |
| 41) Benzo(g,h,i)perylene | 26.484 | 276 | 4006 | 0.363 | ng | 97 |

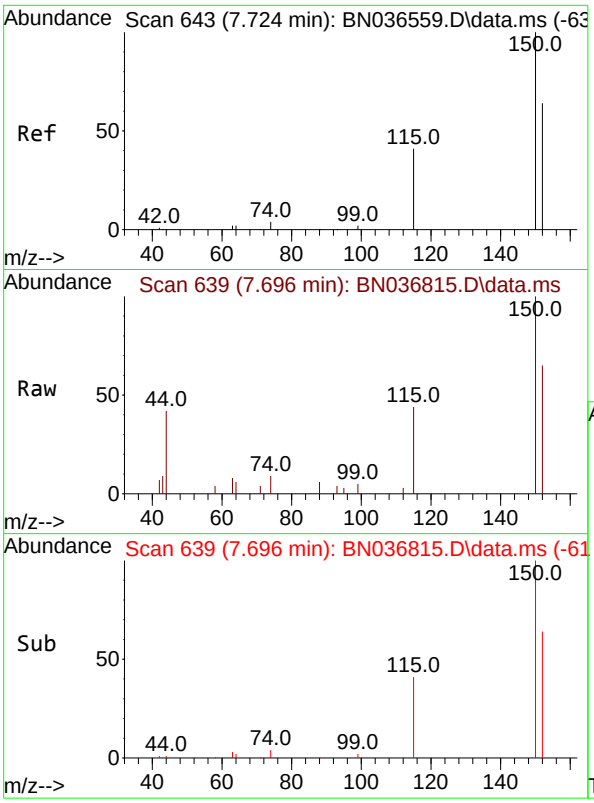
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN033125\
Data File : BN036815.D
Acq On : 31 Mar 2025 15:08
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Quant Time: Mar 31 15:30:13 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration



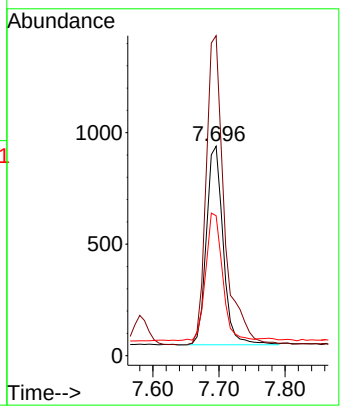


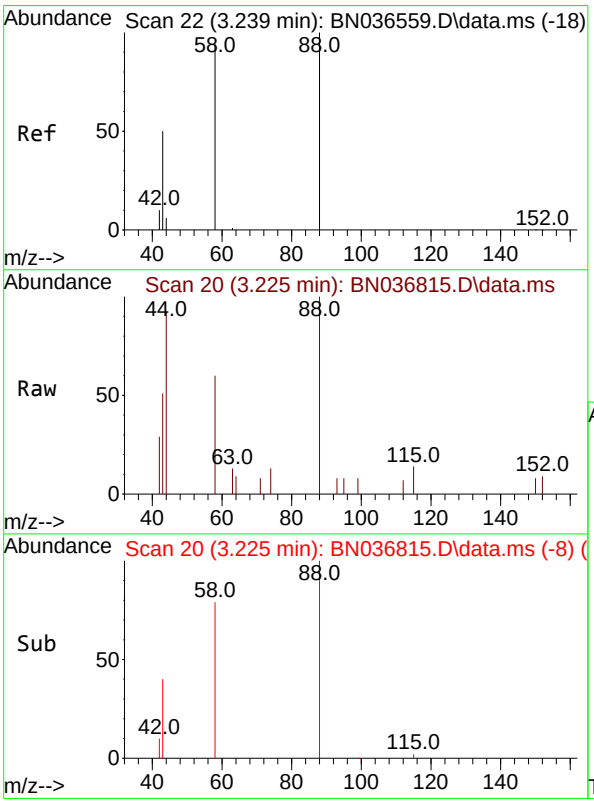

#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.696 min Scan# 6
Delta R.T. -0.028 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:152 Resp: 1563

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 152.8 | 123.7 | 185.5 |
| 115 | 66.9 | 54.3 | 81.5 |

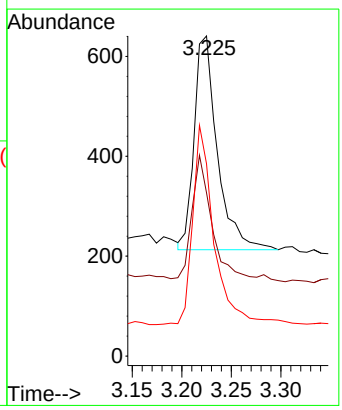


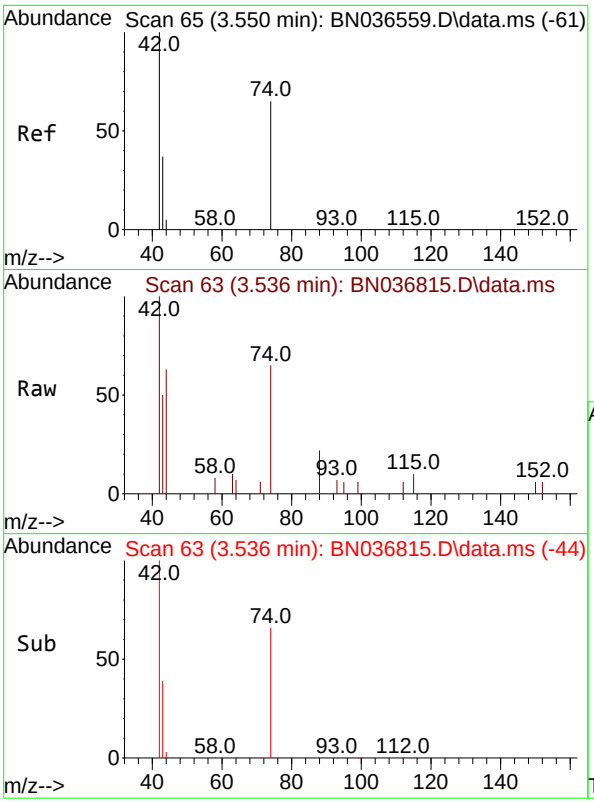




#2
1,4-Dioxane
Concen: 0.403 ng
RT: 3.225 min Scan# 20
Delta R.T. -0.014 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion: 88 Resp: 698

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 51.7 | 37.8 | 56.8 |
| 58 | 85.5 | 67.4 | 101.2 |



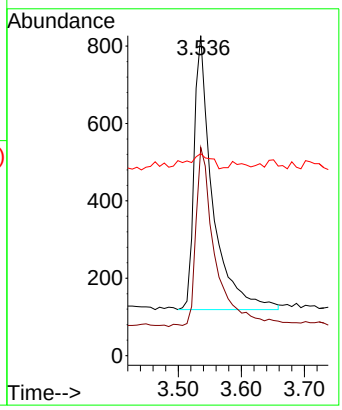


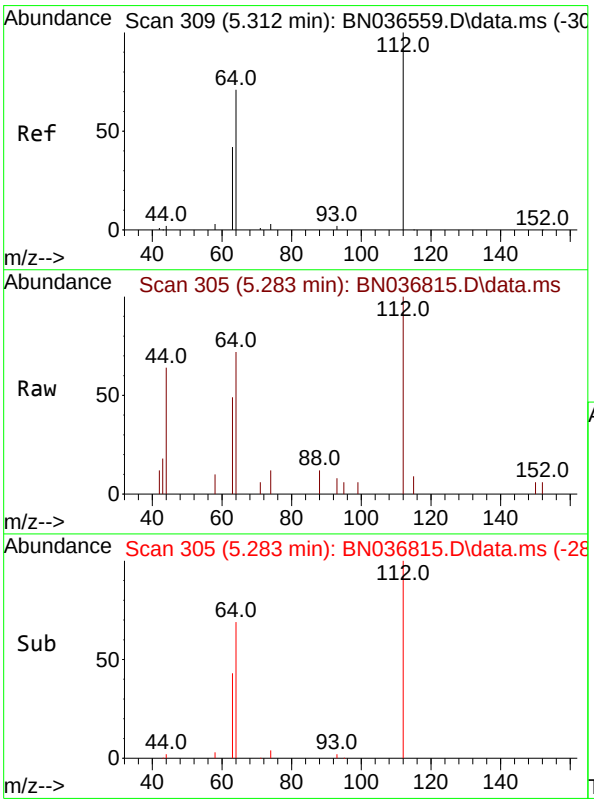

#3
n-Nitrosodimethylamine
Concen: 0.408 ng
RT: 3.536 min Scan# 6
Delta R.T. -0.014 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion: 42 Resp: 1430

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 69.3 | 60.6 | 90.8 |
| 44 | 6.6 | 6.3 | 9.5 |

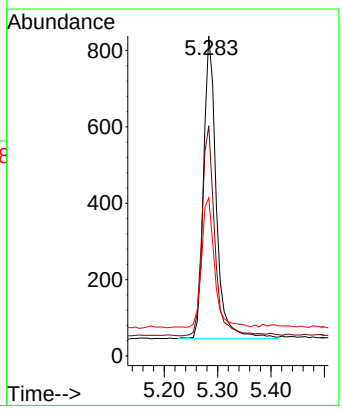


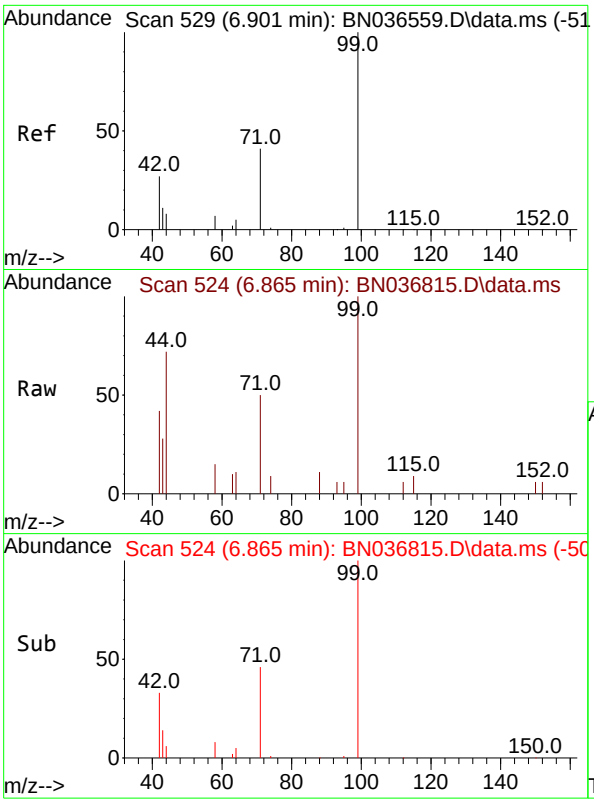




#4
2-Fluorophenol
Concen: 0.360 ng
RT: 5.283 min Scan# 305
Delta R.T. -0.029 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion:112 Resp: 1311

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 69.4 | 53.1 | 79.7 |
| 63 | 43.9 | 31.8 | 47.8 |



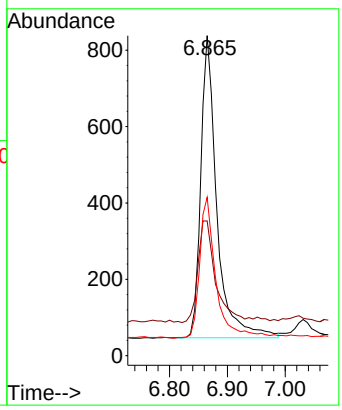


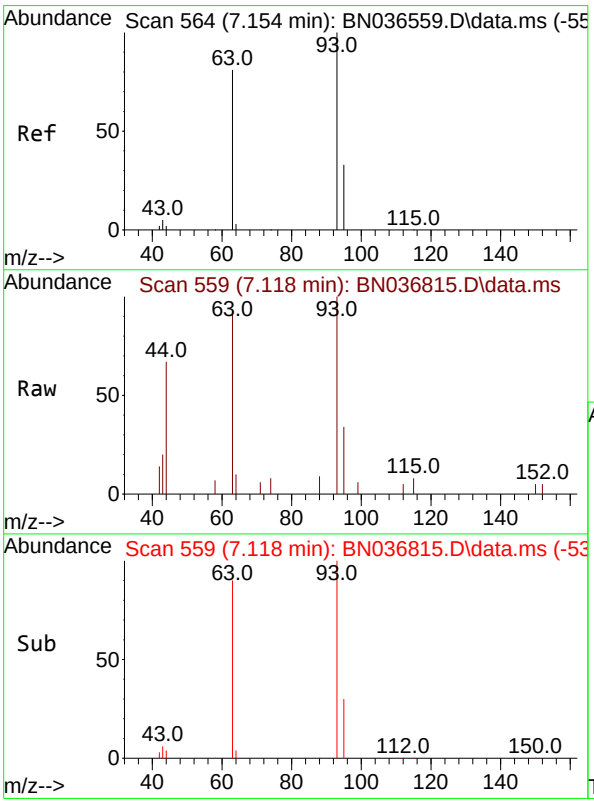

#5
Phenol-d6
Concen: 0.339 ng
RT: 6.865 min Scan# 5
Delta R.T. -0.036 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion: 99 Resp: 1525

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 37.5 | 26.5 | 39.7 |
| 71 | 48.4 | 34.1 | 51.1 |

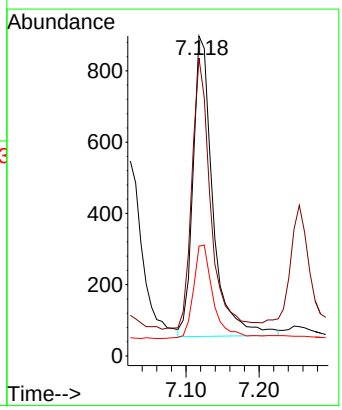


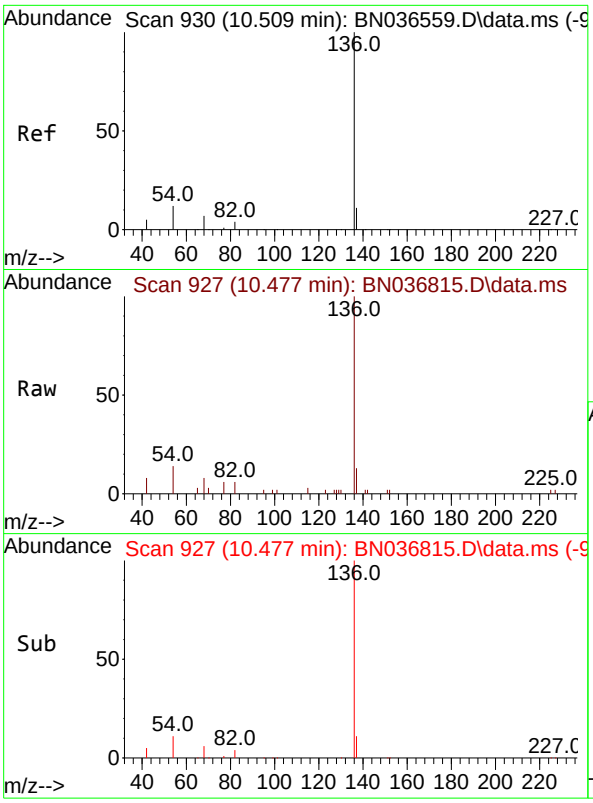




#6
bis(2-Chloroethyl)ether
Concen: 0.343 ng
RT: 7.118 min Scan# 559
Delta R.T. -0.036 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion: 93 Resp: 1597

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 82.9 | 67.7 | 101.5 |
| 95 | 30.6 | 25.6 | 38.4 |



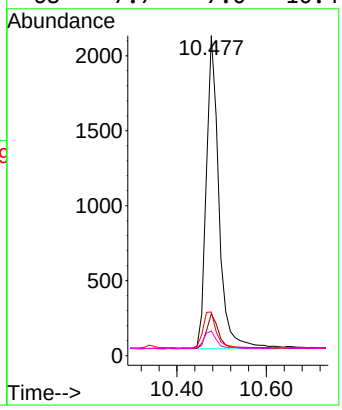


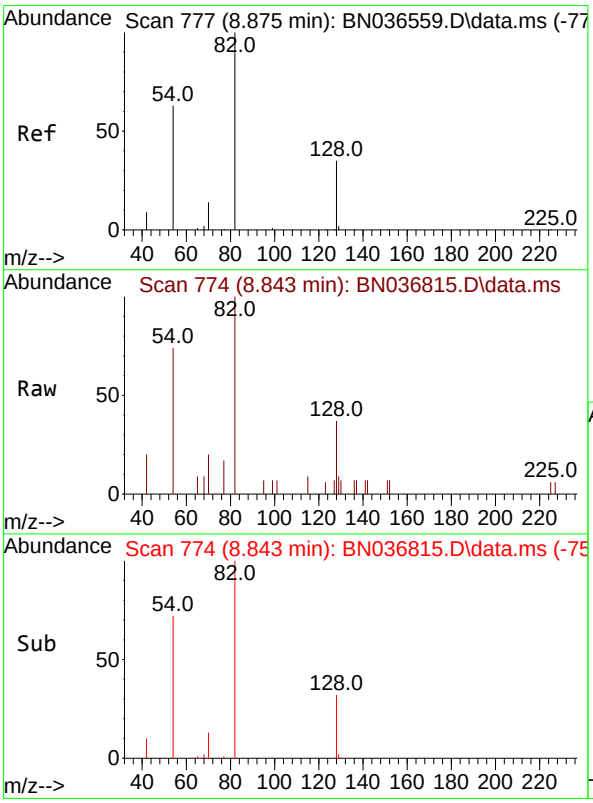

#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.477 min Scan# 9
Delta R.T. -0.032 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:136 Resp: 4089

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 13.1 | 10.3 | 15.5 |
| 54 | 13.6 | 11.5 | 17.3 |
| 68 | 7.7 | 7.0 | 10.4 |

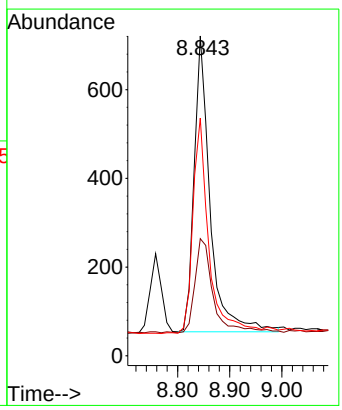


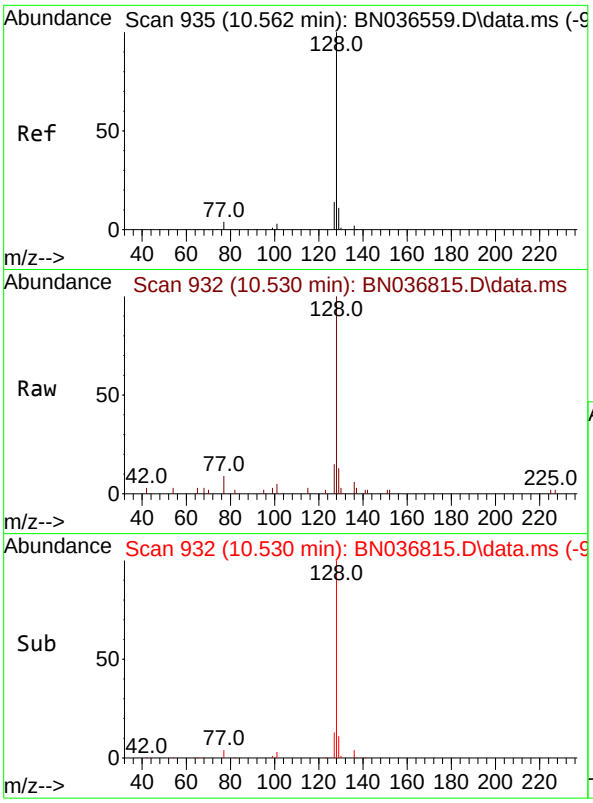




#8
Nitrobenzene-d5
Concen: 0.320 ng
RT: 8.843 min Scan# 774
Delta R.T. -0.032 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion: 82 Resp: 1424

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 36.6 | 30.6 | 45.8 |
| 54 | 74.3 | 52.2 | 78.4 |



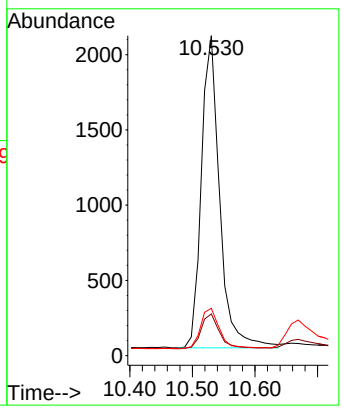


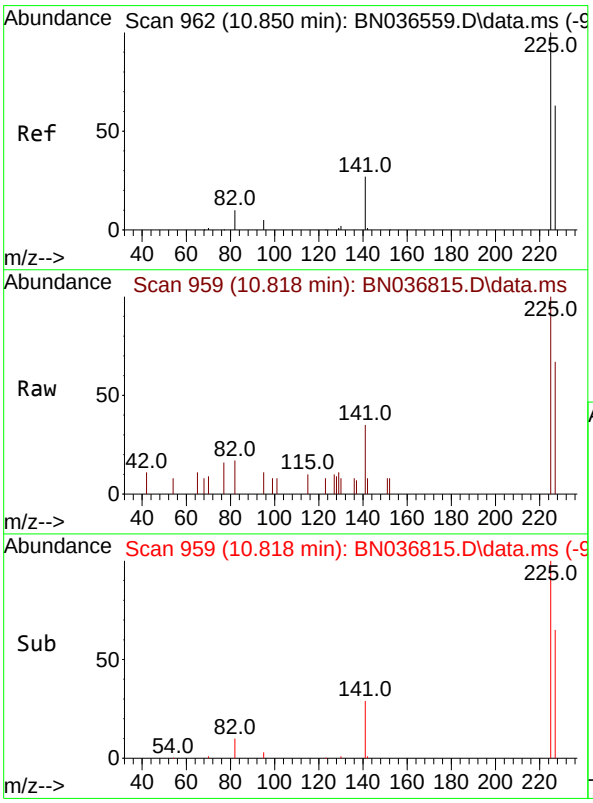

#9
Naphthalene
Concen: 0.350 ng
RT: 10.530 min Scan# 9
Delta R.T. -0.032 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:128 Resp: 4210

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 13.0 | 9.8 | 14.6 |
| 127 | 14.8 | 11.8 | 17.8 |

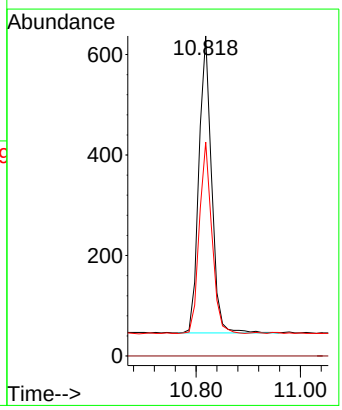


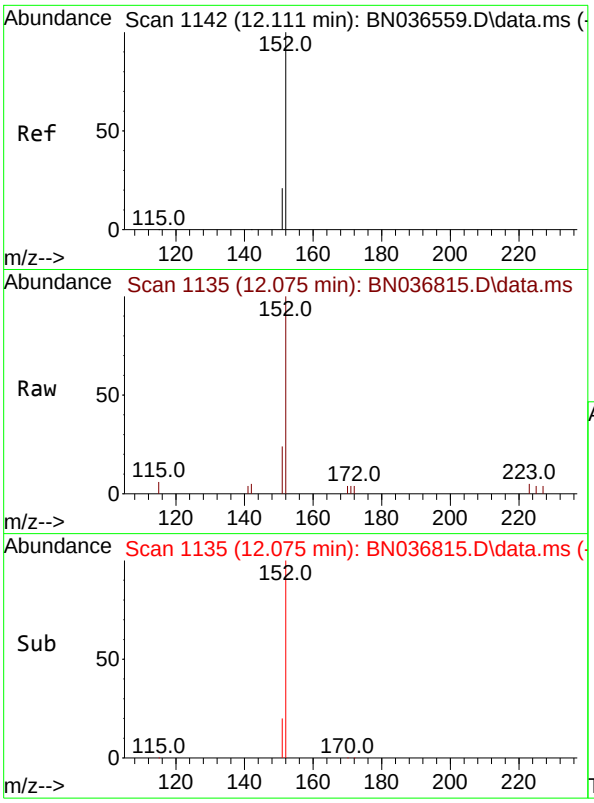




#10
Hexachlorobutadiene
Concen: 0.352 ng
RT: 10.818 min Scan# 959
Delta R.T. -0.032 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion:225 Resp: 998

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 0.0 | 0.0 | 0.0 |
| 227 | 64.0 | 51.8 | 77.8 |



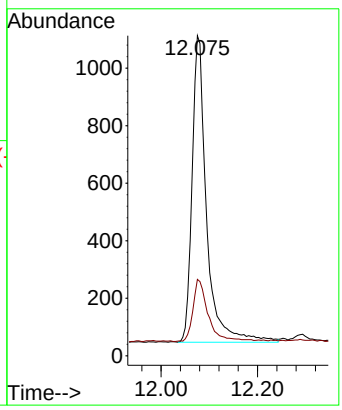


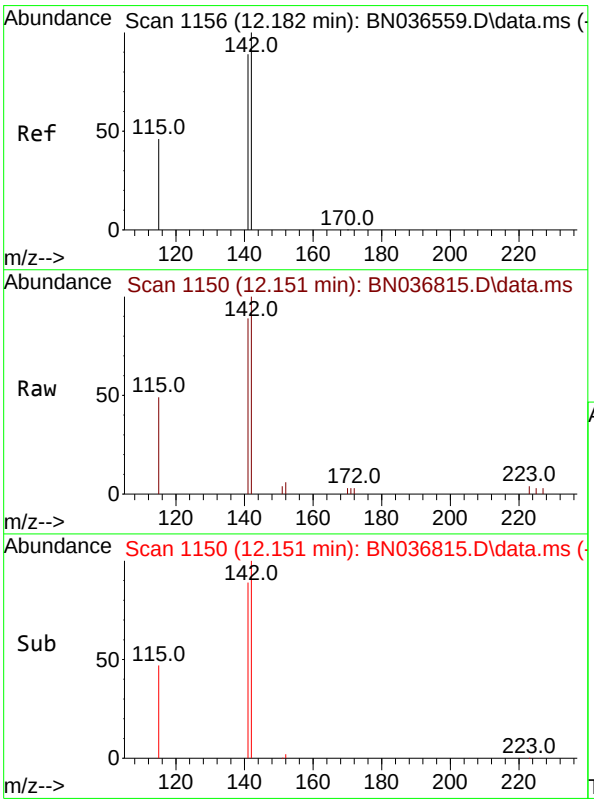

#11
2-Methylnaphthalene-d10
Concen: 0.365 ng
RT: 12.075 min Scan# 11
Delta R.T. -0.035 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:152 Resp: 2219

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 21.2 | 17.0 | 25.6 |

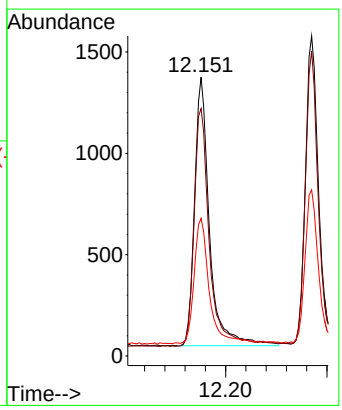


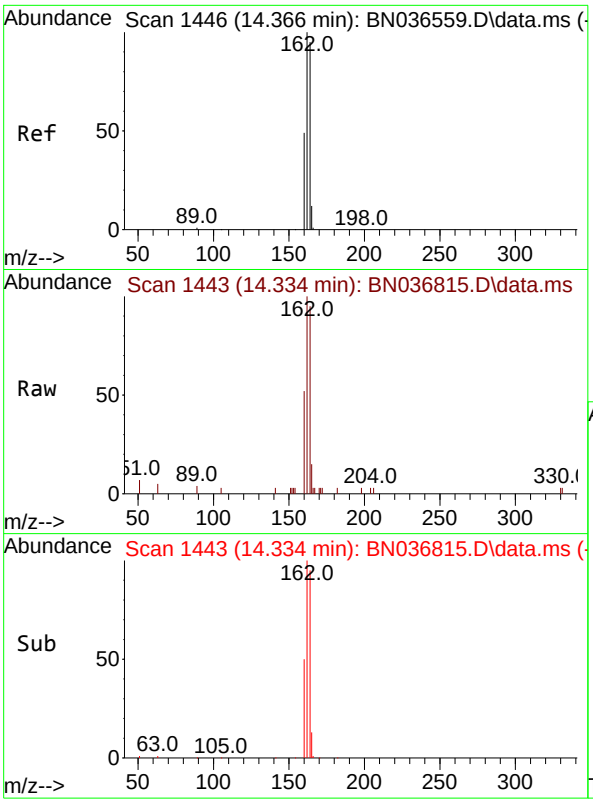




#12
2-Methylnaphthalene
Concen: 0.356 ng
RT: 12.151 min Scan# 1150
Delta R.T. -0.030 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion:142 Resp: 2722

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 88.8 | 71.7 | 107.5 |
| 115 | 49.4 | 38.3 | 57.5 |



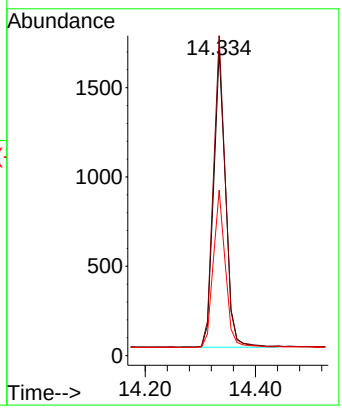


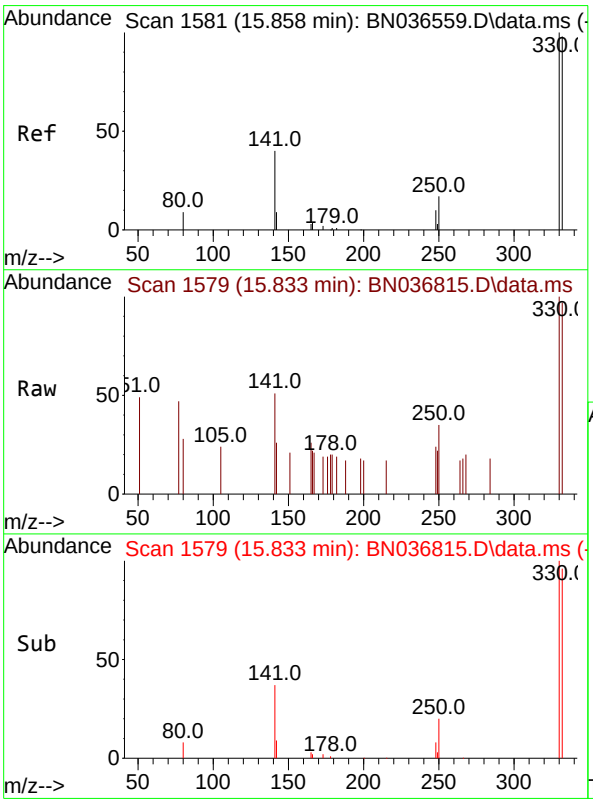

#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.334 min Scan# 14
Delta R.T. -0.032 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:164 Resp: 2524

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 104.9 | 84.2 | 126.2 |
| 160 | 54.2 | 42.2 | 63.2 |

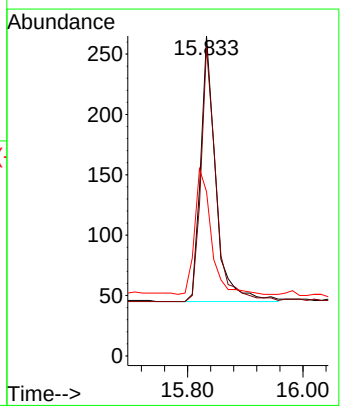


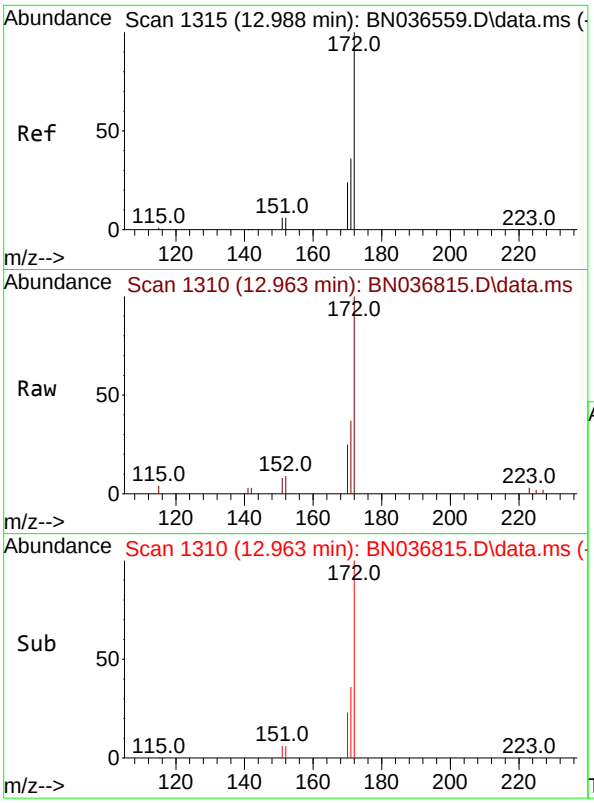




#14
2,4,6-Tribromophenol
Concen: 0.351 ng
RT: 15.833 min Scan# 1579
Delta R.T. -0.025 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion:330 Resp: 402

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 94.8 | 75.2 | 112.8 |
| 141 | 51.0 | 43.4 | 65.2 |



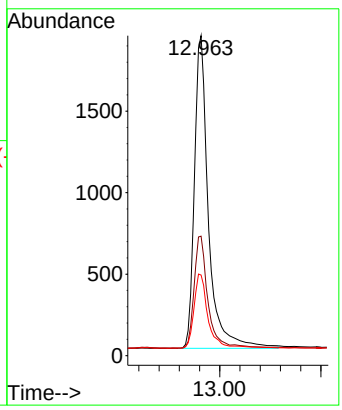


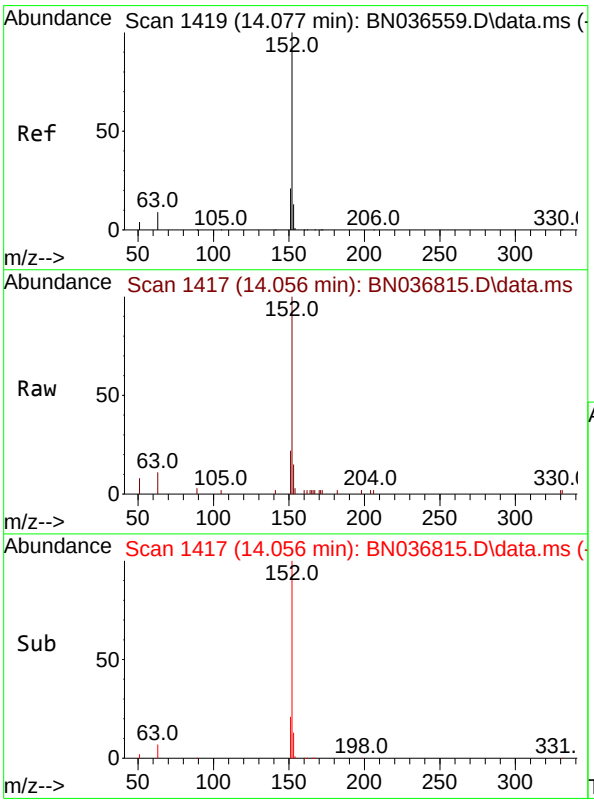

#15
2-Fluorobiphenyl
Concen: 0.336 ng
RT: 12.963 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:172 Resp: 4939

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 37.3 | 29.5 | 44.3 |
| 170 | 25.2 | 20.2 | 30.4 |

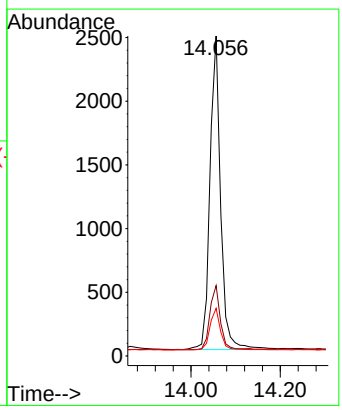


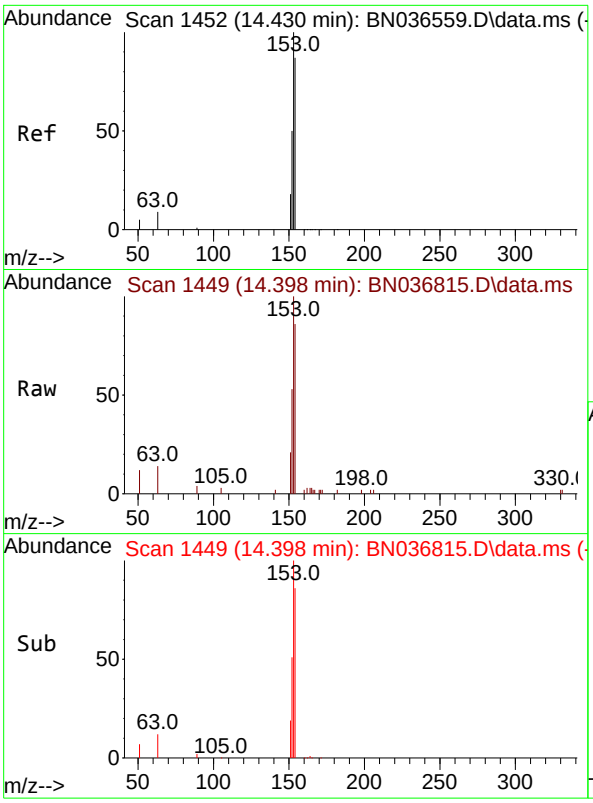




#16
Acenaphthylene
Concen: 0.340 ng
RT: 14.056 min Scan# 1417
Delta R.T. -0.021 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion:152 Resp: 4054

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.2 | 16.2 | 24.4 |
| 153 | 13.5 | 10.6 | 15.8 |



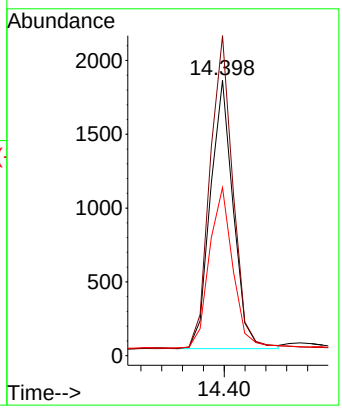


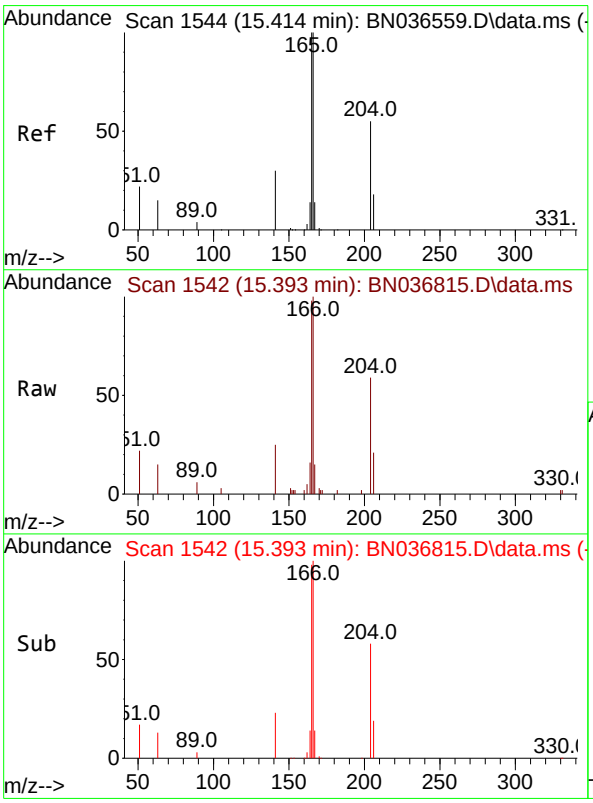

#17
Acenaphthene
Concen: 0.356 ng
RT: 14.398 min Scan# 14
Delta R.T. -0.032 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:154 Resp: 2777

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 118.7 | 94.1 | 141.1 |
| 152 | 62.5 | 49.8 | 74.6 |

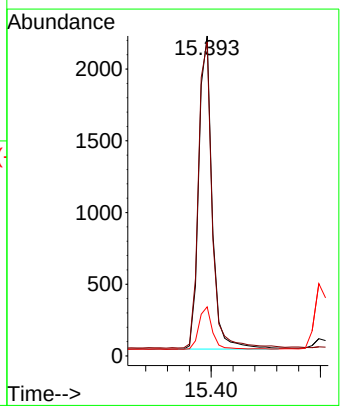


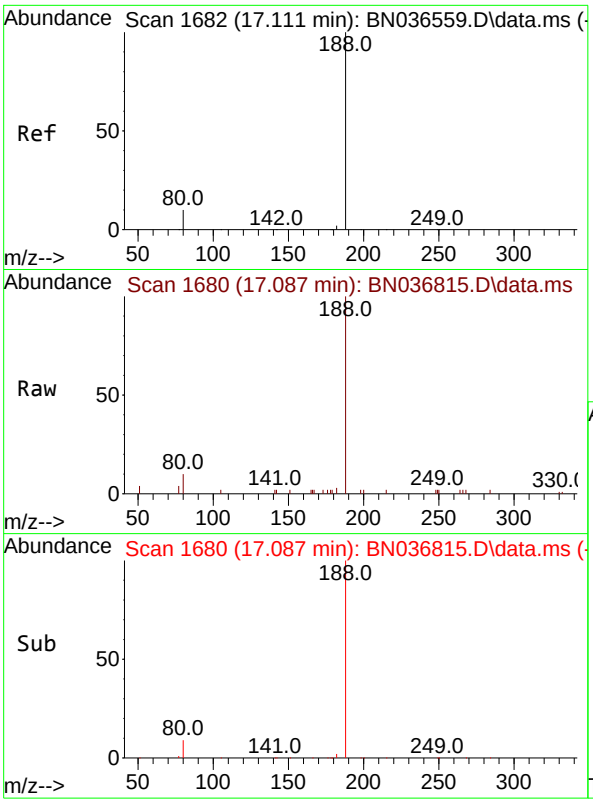




#18
Fluorene
Concen: 0.354 ng
RT: 15.393 min Scan# 1542
Delta R.T. -0.021 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion:166 Resp: 3732

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 100.8 | 79.8 | 119.8 |
| 167 | 13.4 | 10.6 | 15.8 |



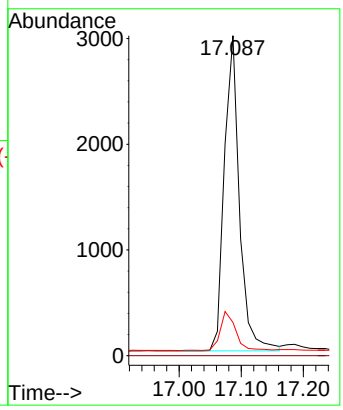


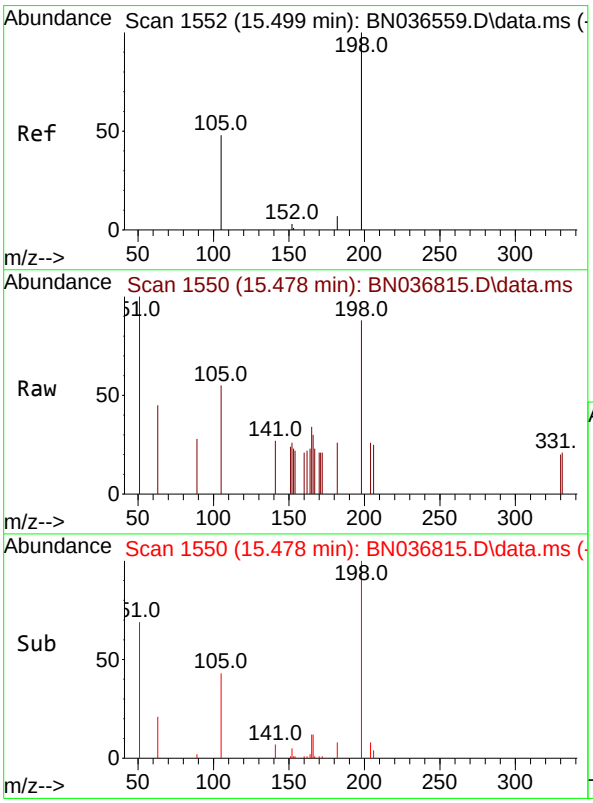

#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.087 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:188 Resp: 5032

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 10.4 | 8.8 | 13.2 |

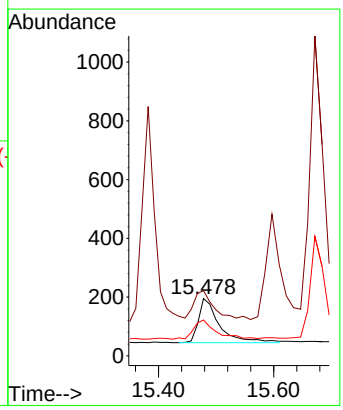


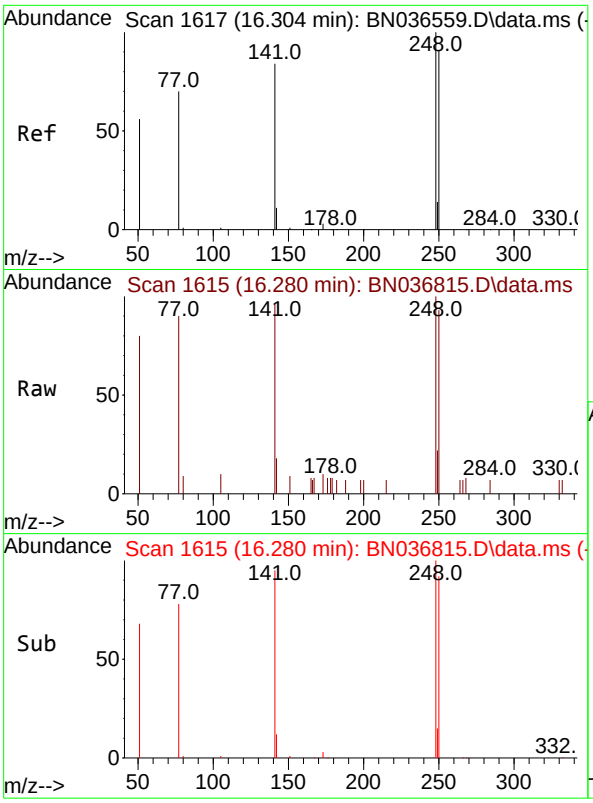




#20
4,6-Dinitro-2-methylphenol
Concen: 0.454 ng
RT: 15.478 min Scan# 1550
Delta R.T. -0.021 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion:198 Resp: 396

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 198 | 100 | | |
| 51 | 113.8 | 107.9 | 161.9 |
| 105 | 62.6 | 56.2 | 84.2 |



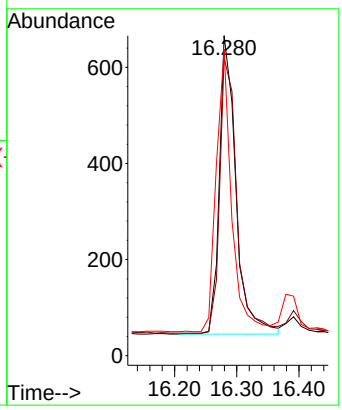


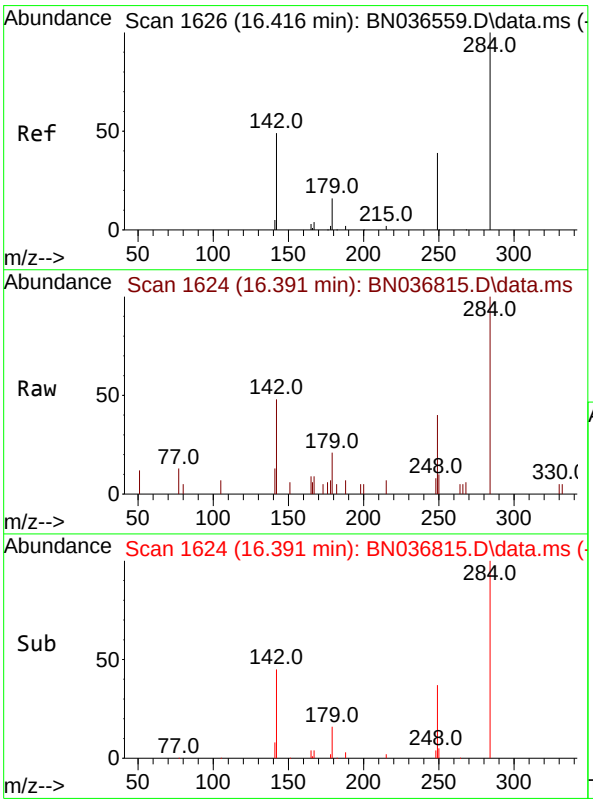

#21
4-Bromophenyl-phenylether
Concen: 0.363 ng
RT: 16.280 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:248 Resp: 1144

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 93.1 | 73.0 | 109.6 |
| 141 | 95.8 | 68.6 | 103.0 |

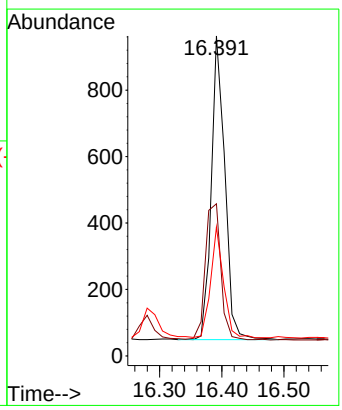


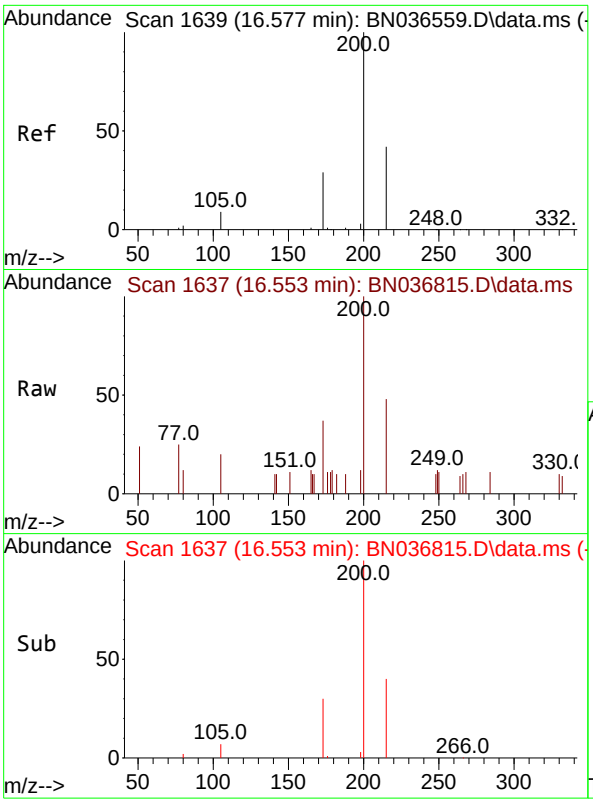




#22
Hexachlorobenzene
Concen: 0.363 ng
RT: 16.391 min Scan# 1624
Delta R.T. -0.025 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion:284 Resp: 1380

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 51.9 | 37.0 | 55.4 |
| 249 | 34.7 | 28.1 | 42.1 |



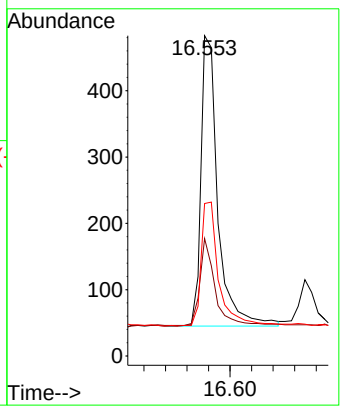


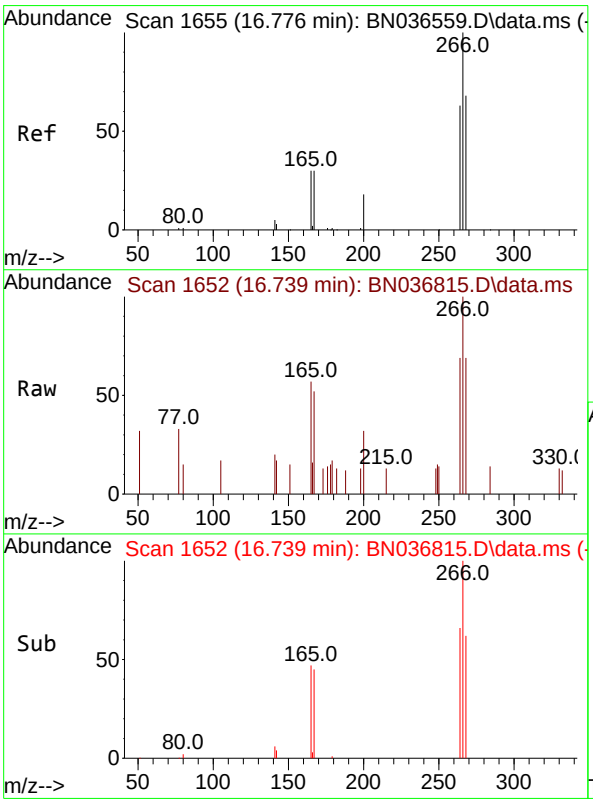

#23
Atrazine
Concen: 0.377 ng
RT: 16.553 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:200 Resp: 954

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 173 | 36.6 | 27.3 | 40.9 |
| 215 | 47.6 | 36.8 | 55.2 |

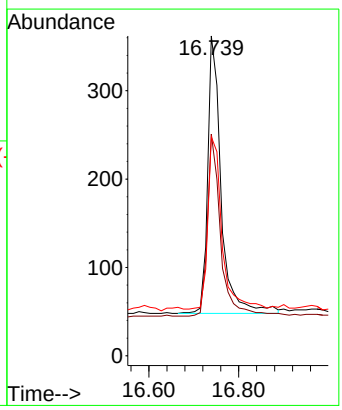


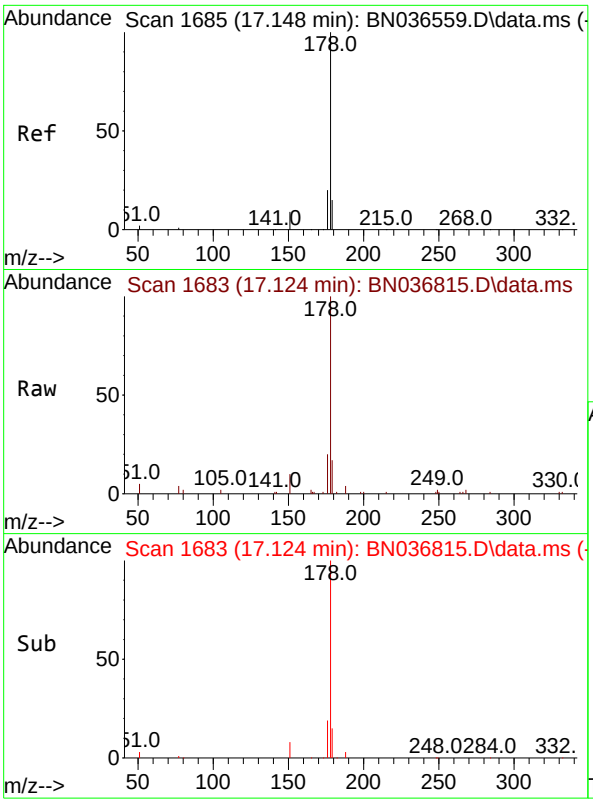




#24
Pentachlorophenol
Concen: 0.375 ng
RT: 16.739 min Scan# 1652
Delta R.T. -0.037 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion:266 Resp: 651

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 264 | 64.8 | 49.6 | 74.4 |
| 268 | 65.4 | 50.9 | 76.3 |



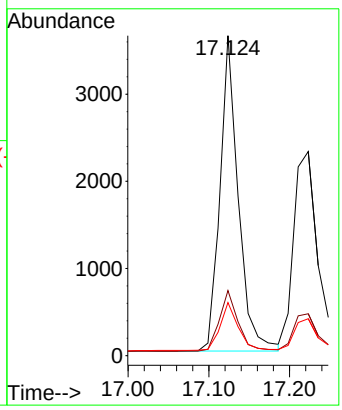


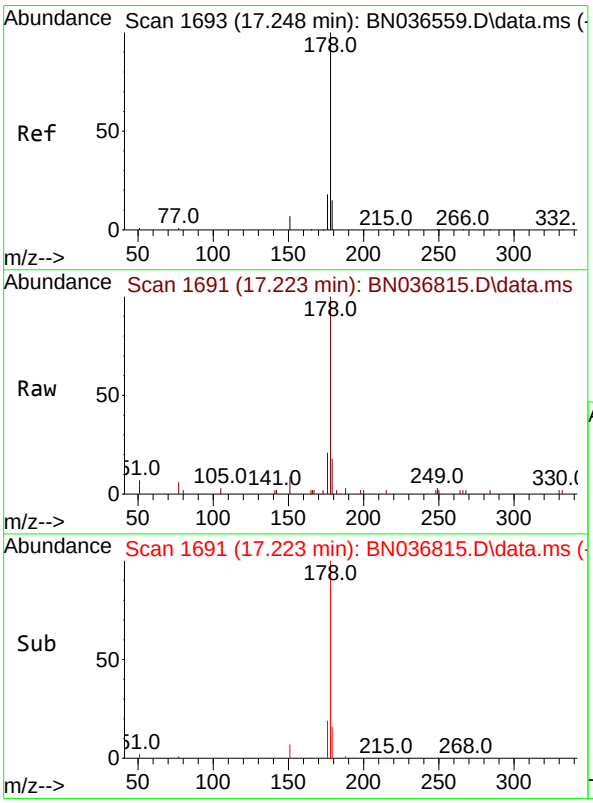

#25
Phenanthrene
Concen: 0.378 ng
RT: 17.124 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:178 Resp: 5703

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.9 | 15.9 | 23.9 |
| 179 | 15.7 | 12.2 | 18.4 |

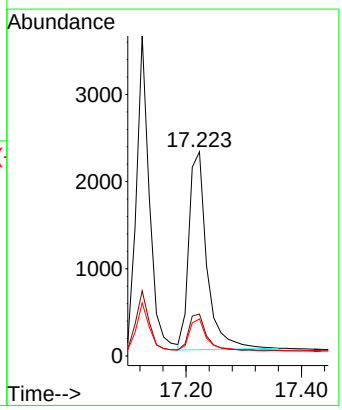


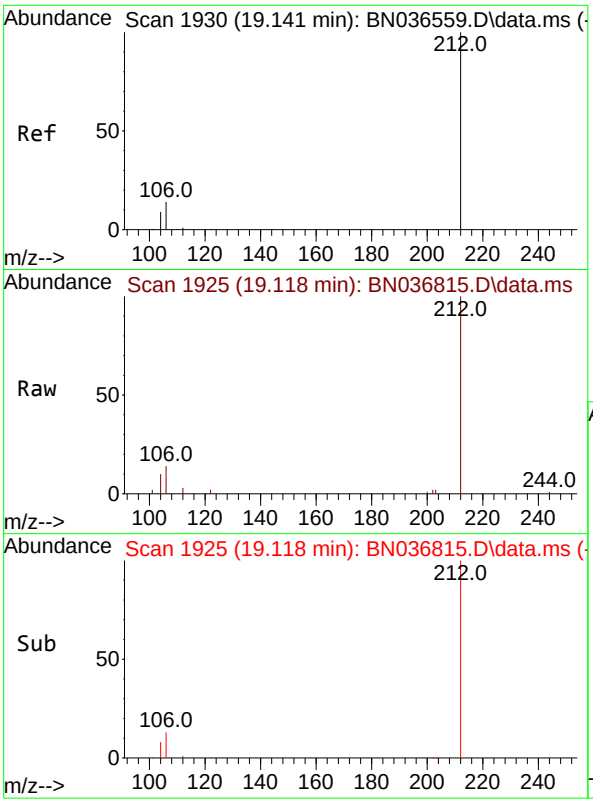




#26
Anthracene
Concen: 0.362 ng
RT: 17.223 min Scan# 1691
Delta R.T. -0.025 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion:178 Resp: 4933

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.9 | 15.4 | 23.2 |
| 179 | 15.6 | 12.6 | 18.8 |





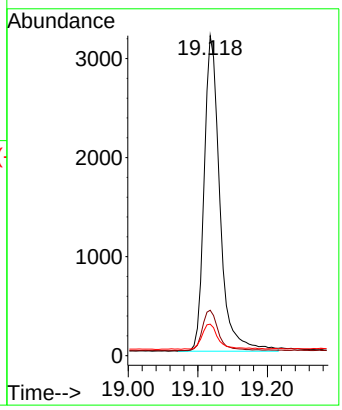

#27
Fluoranthene-d10
Concen: 0.388 ng
RT: 19.118 min Scan# 1

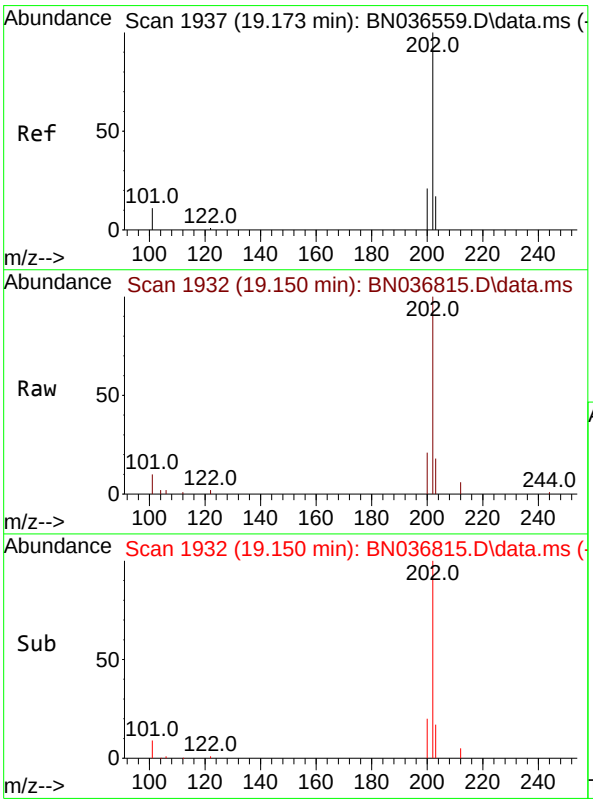
**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Delta R.T. -0.023 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion:212 Resp: 5000

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 13.2 | 11.8 | 17.6 |
| 104 | 8.4 | 7.3 | 10.9 |

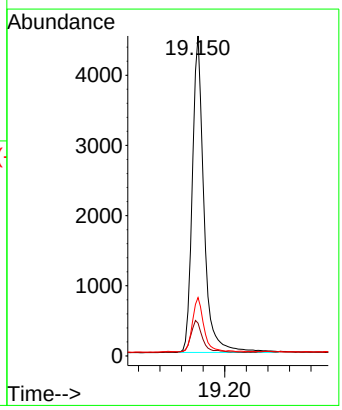


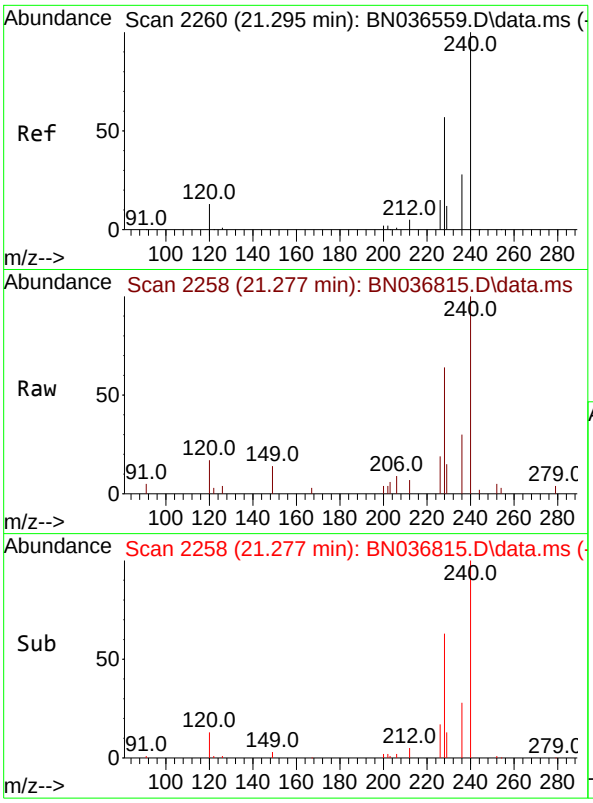




#28
Fluoranthene
Concen: 0.399 ng
RT: 19.150 min Scan# 1932
Delta R.T. -0.023 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion:202 Resp: 6761

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 10.4 | 9.4 | 14.0 |
| 203 | 16.5 | 13.5 | 20.3 |



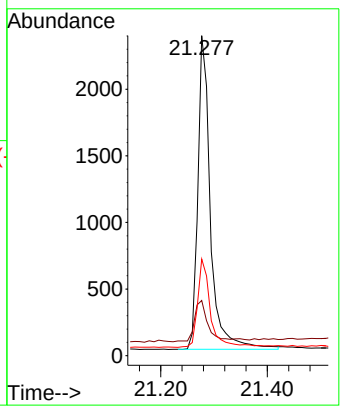


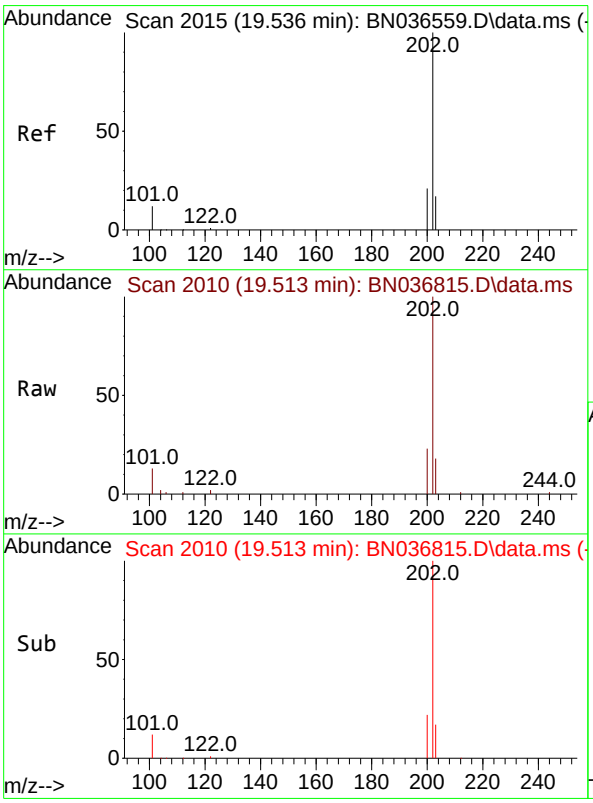

#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:240 Resp: 3863

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 17.3 | 14.6 | 22.0 |
| 236 | 30.2 | 24.1 | 36.1 |

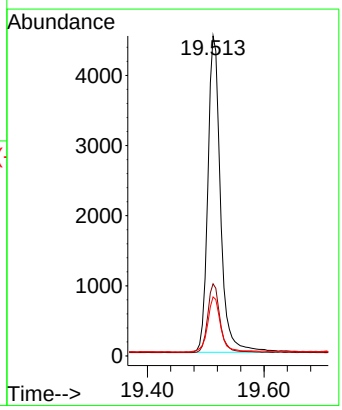


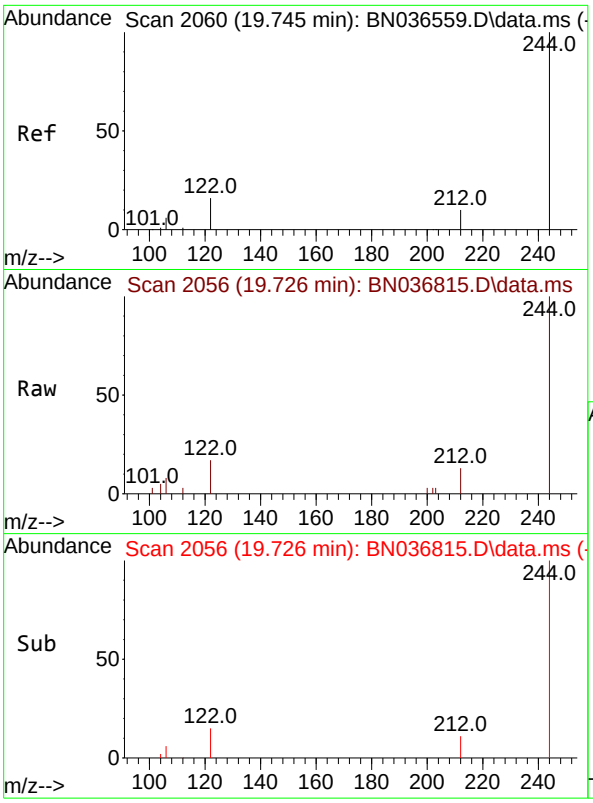




#30
Pyrene
Concen: 0.361 ng
RT: 19.513 min Scan# 2010
Delta R.T. -0.023 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion:202 Resp: 6826

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.6 | 17.1 | 25.7 |
| 203 | 17.8 | 14.1 | 21.1 |



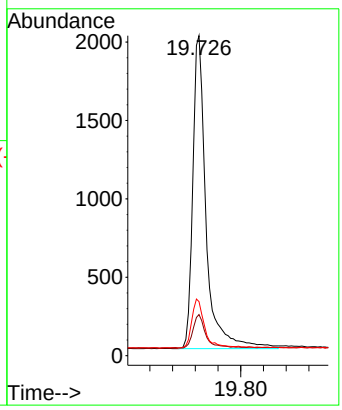


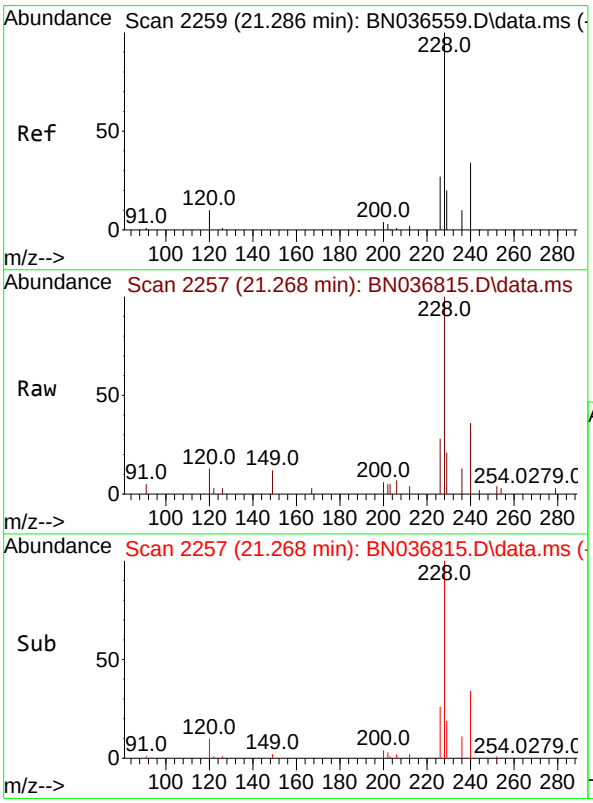

#31
Terphenyl-d14
Concen: 0.352 ng
RT: 19.726 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:244 Resp: 3254

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 12.9 | 9.6 | 14.4 |
| 122 | 16.9 | 13.9 | 20.9 |

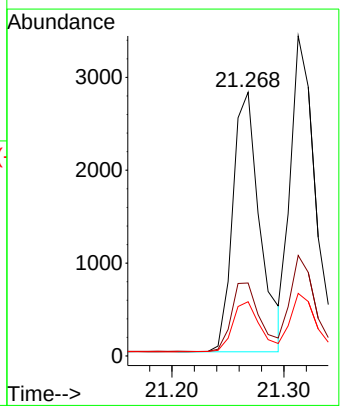


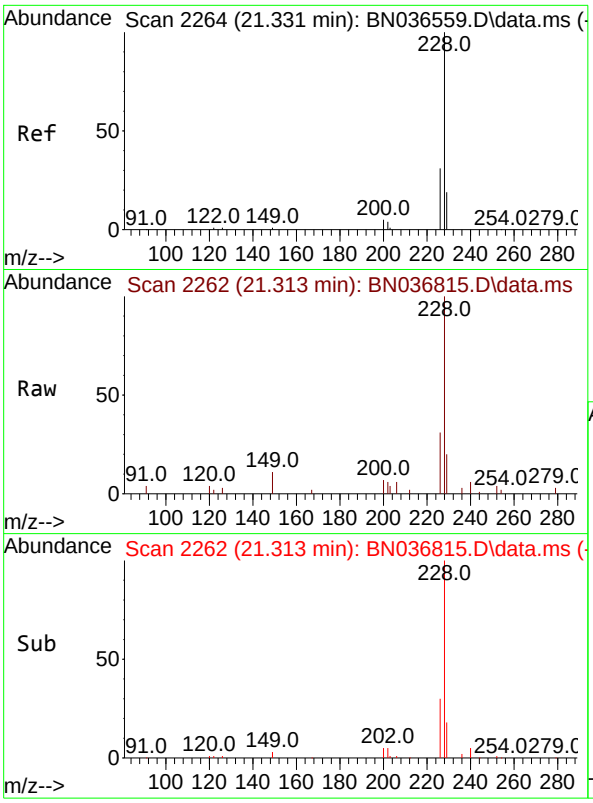




#32
Benzo(a)anthracene
Concen: 0.351 ng
RT: 21.268 min Scan# 2257
Delta R.T. -0.018 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion:228 Resp: 4715

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 27.7 | 22.5 | 33.7 |
| 229 | 20.6 | 16.6 | 25.0 |



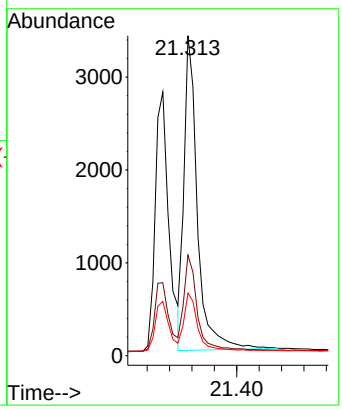


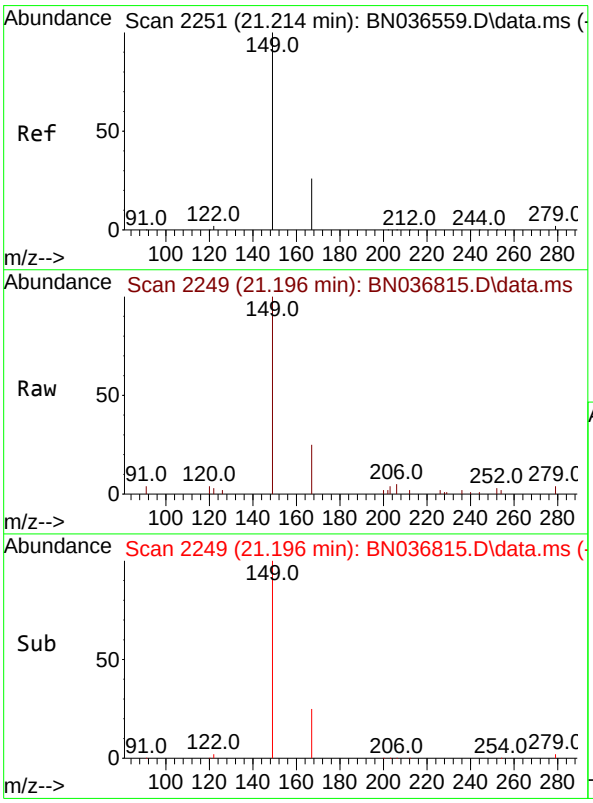

#33
Chrysene
Concen: 0.385 ng
RT: 21.313 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:228 Resp: 5650

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 31.4 | 25.3 | 37.9 |
| 229 | 19.6 | 15.8 | 23.8 |

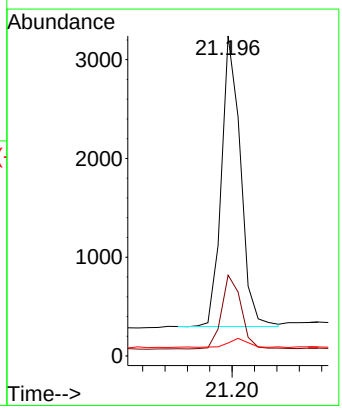


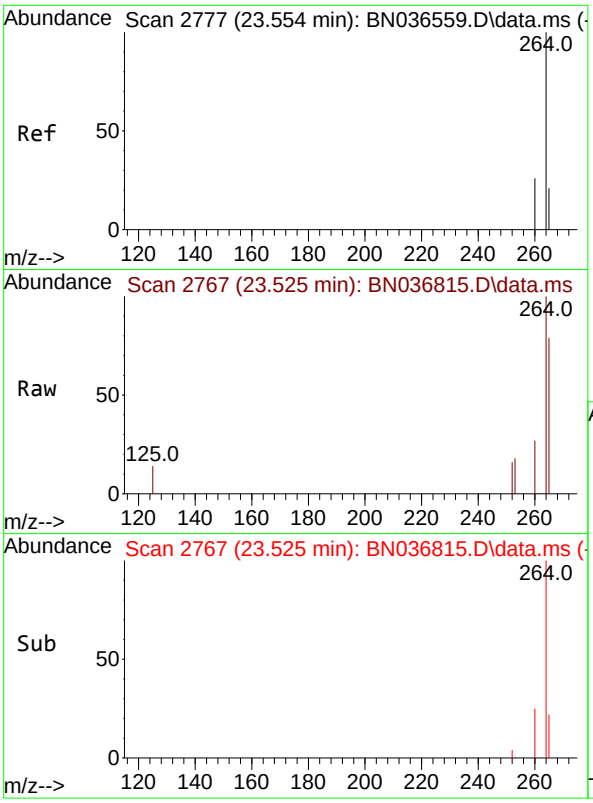




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.364 ng
RT: 21.196 min Scan# 2249
Delta R.T. -0.018 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion:149 Resp: 3477

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 26.4 | 20.7 | 31.1 |
| 279 | 3.1 | 3.6 | 5.4# |



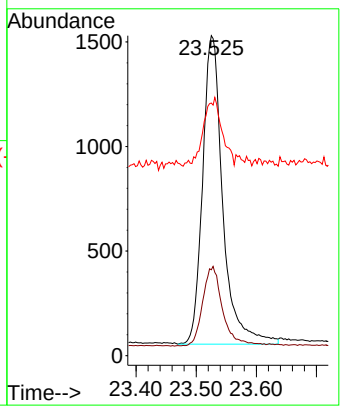


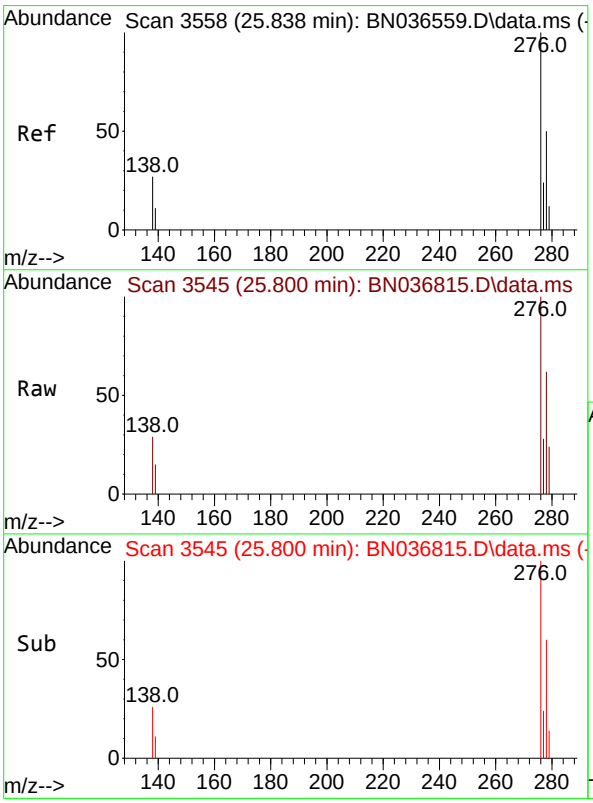

#35
Perylene-d12
Concen: 0.400 ng
RT: 23.525 min Scan# 2
Delta R.T. -0.029 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:264 Resp: 3435

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 26.9 | 22.6 | 33.8 |
| 265 | 79.0 | 88.1 | 132.1# |

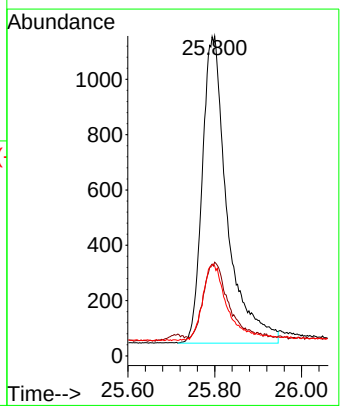


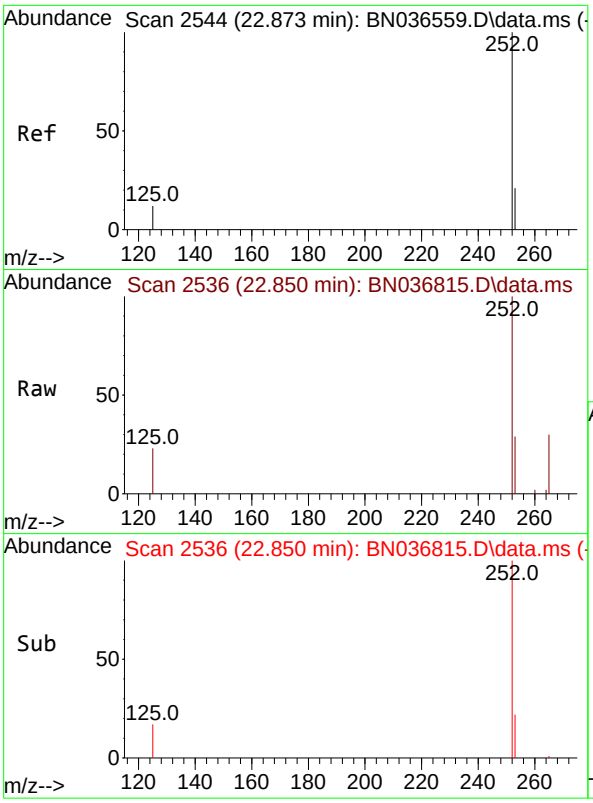




#36
Indeno(1,2,3-cd)pyrene
Concen: 0.357 ng
RT: 25.800 min Scan# 3545
Delta R.T. -0.038 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion:276 Resp: 4428

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 24.1 | 23.4 | 35.2 |
| 277 | 23.9 | 20.0 | 30.0 |



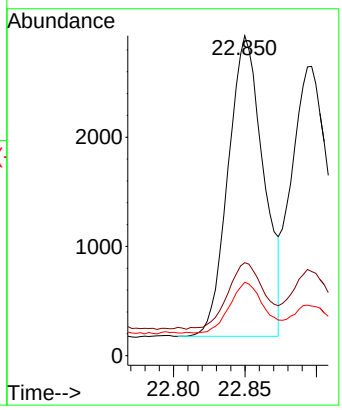


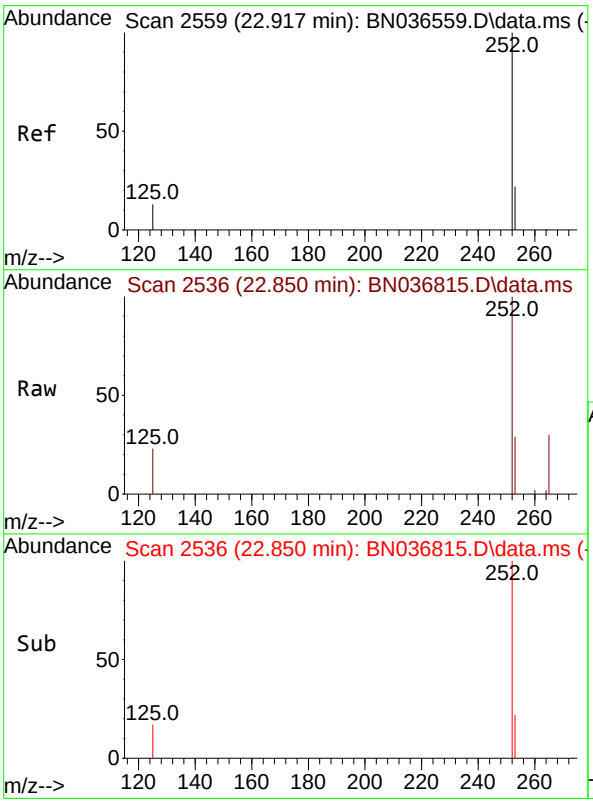

#37
Benzo(b)fluoranthene
Concen: 0.379 ng
RT: 22.850 min Scan# 2
Delta R.T. -0.023 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:252 Resp: 4732

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 29.0 | 23.9 | 35.9 |
| 125 | 22.9 | 17.4 | 26.2 |

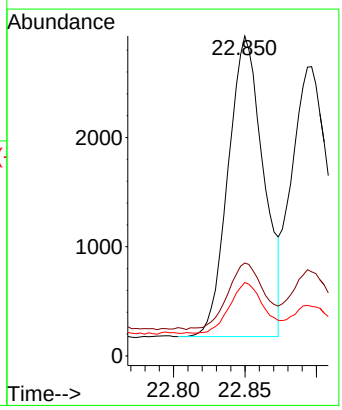


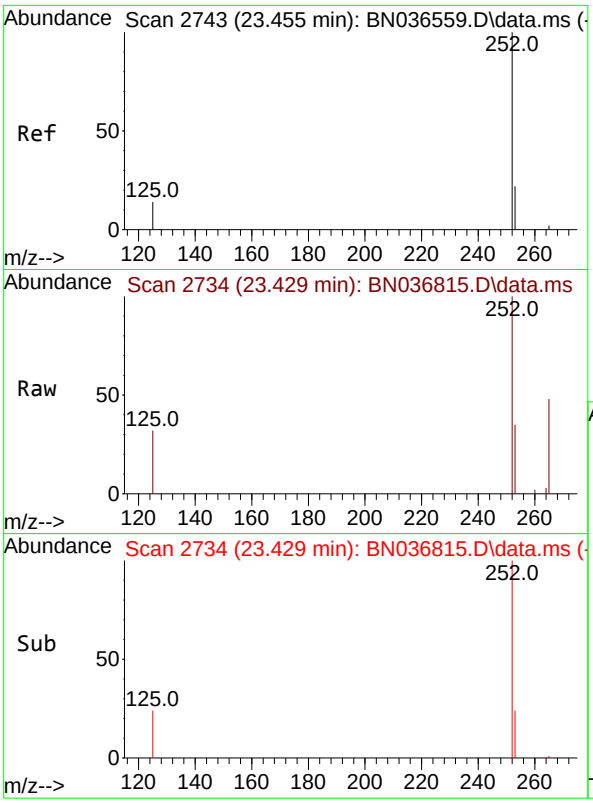




#38
Benzo(k)fluoranthene
Concen: 0.361 ng
RT: 22.850 min Scan# 2536
Delta R.T. -0.067 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion:252 Resp: 4732

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 29.0 | 24.6 | 36.8 |
| 125 | 22.9 | 17.8 | 26.8 |



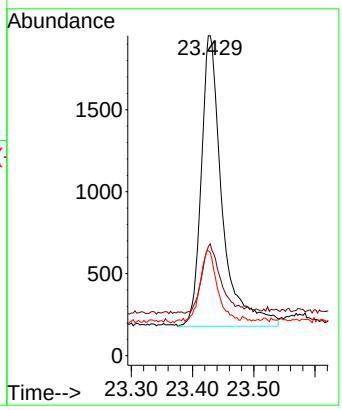


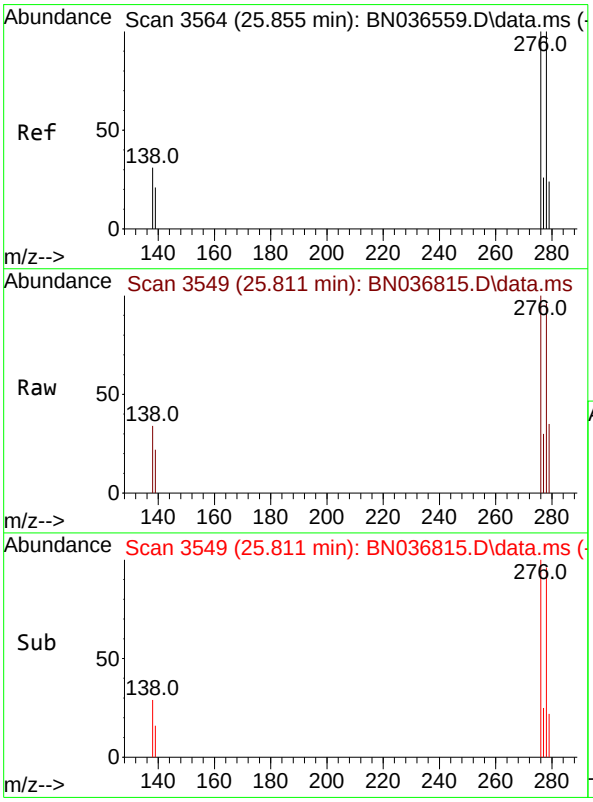

#39
Benzo(a)pyrene
Concen: 0.399 ng
RT: 23.429 min Scan# 2
Delta R.T. -0.026 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:252 Resp: 4200

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 34.9 | 27.8 | 41.8 |
| 125 | 32.3 | 22.7 | 34.1 |

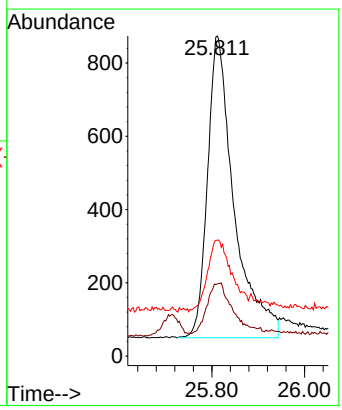


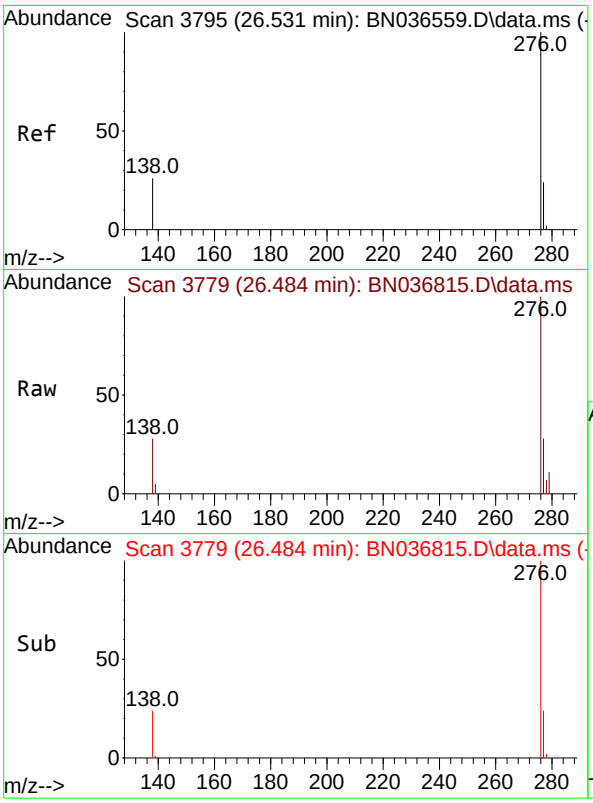




#40
Dibenzo(a,h)anthracene
Concen: 0.340 ng
RT: 25.811 min Scan# 3549
Delta R.T. -0.044 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion:278 Resp: 3277

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 22.5 | 20.8 | 31.2 |
| 279 | 36.2 | 28.8 | 43.2 |






#41
Benzo(g,h,i)perylene
Concen: 0.363 ng
RT: 26.484 min Scan# 3
Delta R.T. -0.047 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:276 Resp: 4006

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 27.7 | 22.2 | 33.4 |
| 138 | 27.6 | 24.1 | 36.1 |

